Part 6 of 6: Appendix S of Resource Report No. 2

Detectable Results Summary

Client Sample ID: **APT-2-0916**
Lab Sample ID: 1165651001

	Parameter	Result	Units
Metals by ICP/MS	Aluminum	225	ug/L
	Antimony	2.74	ug/L
	Arsenic	20.6	ug/L
	Barium	20.3	ug/L
	Boron	24.0	ug/L
	Calcium	18200	ug/L
	Chromium	0.251J	ug/L
	Cobalt	0.237	ug/L
	Copper	2.33	ug/L
	Iron	1340	ug/L
	Lead	0.321	ug/L
	Magnesium	4470	ug/L
	Manganese	65.6	ug/L
	Molybdenum	1.67	ug/L
	Nickel	2.96	ug/L
	Potassium	3660	ug/L
	Sodium	7630	ug/L
	Vanadium	18.3	ug/L
	Zinc	402	ug/L
Semivolatile Organic Fuels	Diesel Range Organics	0.240J	mg/L
Waters Department	Alkalinity	79.2	mg/L
	Ammonia-N	0.0661J	mg/L
	Chloride	5.67	mg/L
	Fluoride	0.150J	mg/L
	Ortho Phosphate-P	0.0896	mg/L
	pH	8.40	pH units
	Sulfate	4.02	mg/L
	Total Dissolved Solids	108	mg/L
	Total Organic Carbon	1.69	mg/L
	Total Phosphorus	0.0907	mg/L
	Total Solids	128	mg/L
	Total Suspended Solids	8.89	mg/L
	Turbidity	11.0	NTU

Print Date: 10/15/2016 10:42:54AM

Detectable Results Summary

Client Sample ID: **MW-138B-0916**
Lab Sample ID: 1165651002

	Parameter	Result	Units
Metals by ICP/MS	Aluminum	2560	ug/L
	Antimony	0.370	ug/L
	Arsenic	2.22	ug/L
	Barium	30.3	ug/L
	Beryllium	0.132	ug/L
	Bismuth	0.0174J	ug/L
	Boron	4.93J	ug/L
	Cadmium	0.120	ug/L
	Calcium	5940	ug/L
	Chromium	6.71	ug/L
	Cobalt	11.7	ug/L
	Copper	6.73	ug/L
	Iron	3340	ug/L
	Lead	1.26	ug/L
	Magnesium	1510	ug/L
	Manganese	125	ug/L
	Molybdenum	1.52	ug/L
	Nickel	15.3	ug/L
	Potassium	1180	ug/L
	Sodium	3470	ug/L
	Thallium	0.0285	ug/L
	Tin	0.232	ug/L
	Vanadium	7.83	ug/L
	Zinc	33.3	ug/L
Waters Department	Alkalinity	12.0	mg/L
	Chemical Oxygen Demand	30.1	mg/L
	Chloride	4.07	mg/L
	Fluoride	0.119J	mg/L
	Nitrate-N	0.877	mg/L
	Ortho Phosphate-P	0.0303	mg/L
	pH	6.00	pH units
	Sulfate	8.34	mg/L
	Total Dissolved Solids	60.0	mg/L
	Total Organic Carbon	2.68	mg/L
	Total Phosphorus	0.0532	mg/L
	Total Solids	76.0	mg/L
	Total Suspended Solids	49.2	mg/L
	Turbidity	16.0	NTU

Print Date: 10/15/2016 10:42:54AM

Detectable Results Summary

Client Sample ID: **APT-2-0916**
Lab Sample ID: 1165651004

Dissolved Metals by ICP/MS

Parameter	Result	Units
Aluminum	3.87	ug/L
Antimony	2.77	ug/L
Arsenic	17.2	ug/L
Barium	16.4	ug/L
Boron	23.7	ug/L
Calcium	18000	ug/L
Cobalt	0.114	ug/L
Copper	0.250J	ug/L
Hardness as CaCO3	63.1	mg/L
Iron	98.3	ug/L
Magnesium	4410	ug/L
Manganese	54.7	ug/L
Molybdenum	1.67	ug/L
Nickel	2.19	ug/L
Potassium	3690	ug/L
Silicon	10500	ug/L
Sodium	7640	ug/L
Vanadium	14.7	ug/L
Zinc	77.3	ug/L

Waters Department

Total Organic Carbon,Dissolved	1.02	mg/L

Client Sample ID: **MW-138B-0916**
Lab Sample ID: 1165651005

Dissolved Metals by ICP/MS

Parameter	Result	Units
Aluminum	71.1	ug/L
Antimony	0.255	ug/L
Barium	12.6	ug/L
Beryllium	0.0597	ug/L
Boron	4.71J	ug/L
Cadmium	0.0986	ug/L
Calcium	5690	ug/L
Cobalt	10.3	ug/L
Copper	1.43	ug/L
Hardness as CaCO3	18.5	mg/L
Iron	140	ug/L
Lead	0.437	ug/L
Magnesium	1040	ug/L
Manganese	99.6	ug/L
Molybdenum	0.598	ug/L
Nickel	11.3	ug/L
Potassium	915	ug/L
Silicon	12900	ug/L
Sodium	3420	ug/L
Thallium	0.0131J	ug/L
Zinc	20.0	ug/L

Waters Department

Total Organic Carbon,Dissolved	1.77	mg/L

Print Date: 10/15/2016 10:42:54AM

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651001
Lab Project ID: 1165651

Collection Date: 09/21/16 14:00
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	225		2.00	0.620	ug/L	2.5		10/08/16 14:44
Antimony	2.74		0.0500	0.0150	ug/L	2.5		10/08/16 14:44
Arsenic	20.6		0.800	0.200	ug/L	2.5		10/08/16 14:44
Barium	20.3		0.250	0.0400	ug/L	2.5		10/08/16 14:44
Beryllium	0.0250	U	0.0500	0.0250	ug/L	2.5		10/08/16 14:44
Bismuth	0.0250	U	0.0500	0.0150	ug/L	2.5		10/08/16 14:44
Boron	24.0		5.00	1.50	ug/L	2.5		10/08/16 14:44
Cadmium	0.0250	U	0.0500	0.0150	ug/L	2.5		10/08/16 14:44
Calcium	18200		50.0	15.0	ug/L	2.5		10/08/16 14:44
Chromium	0.251	J	0.500	0.150	ug/L	2.5		10/08/16 14:44
Cobalt	0.237		0.0200	0.0100	ug/L	2.5		10/08/16 14:44
Copper	2.33		0.500	0.200	ug/L	2.5		10/08/16 14:44
Iron	1340		20.0	6.20	ug/L	2.5		10/08/16 14:44
Lead	0.321		0.100	0.0310	ug/L	2.5		10/08/16 14:44
Magnesium	4470		20.0	6.20	ug/L	2.5		10/08/16 14:44
Manganese	65.6		0.100	0.0310	ug/L	2.5		10/08/16 14:44
Molybdenum	1.67		0.0500	0.0150	ug/L	2.5		10/08/16 14:44
Nickel	2.96		0.620	0.0620	ug/L	2.5		10/08/16 14:44
Potassium	3660		50.0	15.0	ug/L	2.5		10/08/16 14:44
Selenium	0.500	U	1.00	0.310	ug/L	2.5		10/08/16 14:44
Silver	0.0100	U	0.0200	0.00620	ug/L	2.5		10/08/16 14:44
Sodium	7630		100	31.0	ug/L	2.5		10/08/16 14:44
Thallium	0.0100	U	0.0200	0.00620	ug/L	2.5		10/08/16 14:44
Tin	0.100	U	0.200	0.0620	ug/L	2.5		10/08/16 14:44
Vanadium	18.3		1.00	0.310	ug/L	2.5		10/08/16 14:44
Zinc	402		3.10	0.400	ug/L	2.5		10/08/16 14:44

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/08/16 14:44
Container ID: 1165651001-L

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651001
Lab Project ID: 1165651

Collection Date: 09/21/16 14:00
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Organochlorinated Pesticides by GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
4,4'-DDD	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
4,4'-DDE	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
4,4'-DDT	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
Aldrin	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
alpha-BHC	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
alpha-Chlordane	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
beta-BHC	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
delta-BHC	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
Dieldrin	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
Endosulfan I	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
Endosulfan II	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
Endosulfan sulfate	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
Endrin	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
Endrin aldehyde	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
Endrin ketone	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
gamma-BHC (Lindane)	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
gamma-Chlordane	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
Heptachlor	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
Heptachlor epoxide	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
Methoxychlor	0.0153	U	0.0306	0.00959	ug/L	1		09/28/16 16:50
Toxaphene	1.02	U	2.04	0.633	ug/L	1		09/28/16 16:50
Surrogates								
2-Fluorobiphenyl (surr)	69.6		53-106		%	1		09/28/16 16:50
Terphenyl-d14 (surr)	73		58-132		%	1		09/28/16 16:50

Batch Information

Analytical Batch: XMS9648
Analytical Method: 8270D SIM (PEST)
Analyst: DSH
Analytical Date/Time: 09/28/16 16:50
Container ID: 1165651001-C

Prep Batch: XXX36385
Prep Method: SW3520C
Prep Date/Time: 09/26/16 09:01
Prep Initial Wt./Vol.: 980 mL
Prep Extract Vol: 1 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651001
Lab Project ID: 1165651

Collection Date: 09/21/16 14:00
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.206	U	0.412	0.124	ug/L	1		10/07/16 02:45
Aroclor-1221	0.515	U	1.03	0.320	ug/L	1		10/07/16 02:45
Aroclor-1232	0.0515	U	0.103	0.0320	ug/L	1		10/07/16 02:45
Aroclor-1242	0.0515	U	0.103	0.0320	ug/L	1		10/07/16 02:45
Aroclor-1248	0.0515	U	0.103	0.0320	ug/L	1		10/07/16 02:45
Aroclor-1254	0.0515	U	0.103	0.0320	ug/L	1		10/07/16 02:45
Aroclor-1260	0.0515	U	0.103	0.0320	ug/L	1		10/07/16 02:45
Surrogates								
Decachlorobiphenyl (surr)	94		40-135		%	1		10/07/16 02:45

Batch Information

Analytical Batch: XGC9551
Analytical Method: SW8082A
Analyst: S.G
Analytical Date/Time: 10/07/16 02:45
Container ID: 1165651001-A

Prep Batch: XXX36469
Prep Method: SW3520C
Prep Date/Time: 10/06/16 09:52
Prep Initial Wt./Vol.: 970 mL
Prep Extract Vol: 1 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651001
Lab Project ID: 1165651

Collection Date: 09/21/16 14:00
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.240	J	0.577	0.173	mg/L	1		10/06/16 02:30
Surrogates								
5a Androstane (surr)	98.5		50-150		%	1		10/06/16 02:30

Batch Information

Analytical Batch: XFC12916
Analytical Method: AK102
Analyst: CRA
Analytical Date/Time: 10/06/16 02:30
Container ID: 1165651001-M

Prep Batch: XXX36450
Prep Method: SW3520C
Prep Date/Time: 10/04/16 09:17
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.240	U	0.481	0.144	mg/L	1		10/06/16 02:30
Surrogates								
n-Triacontane-d62 (surr)	104		50-150		%	1		10/06/16 02:30

Batch Information

Analytical Batch: XFC12916
Analytical Method: AK103
Analyst: CRA
Analytical Date/Time: 10/06/16 02:30
Container ID: 1165651001-M

Prep Batch: XXX36450
Prep Method: SW3520C
Prep Date/Time: 10/04/16 09:17
Prep Initial Wt./Vol.: 260 mL
Prep Extract Vol: 1 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651001
Lab Project ID: 1165651

Collection Date: 09/21/16 14:00
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		09/24/16 17:41
Surrogates								
4-Bromofluorobenzene (surr)	79.2		50-150		%	1		09/24/16 17:41

Batch Information

Analytical Batch: VFC13323
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 09/24/16 17:41
Container ID: 1165651001-E

Prep Batch: VXX29626
Prep Method: SW5030B
Prep Date/Time: 09/24/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651001
Lab Project ID: 1165651

Collection Date: 09/21/16 14:00
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloride	5.67		0.200	0.0620	mg/L	1		10/07/16 05:11
Fluoride	0.150	J	0.200	0.0620	mg/L	1		10/07/16 05:11
Sulfate	4.02		0.200	0.0620	mg/L	1		10/07/16 05:11

Batch Information

Analytical Batch: WIC5570
Analytical Method: EPA 300.0
Analyst: ACF
Analytical Date/Time: 10/07/16 05:11
Container ID: 1165651001-P

Prep Batch: WXX11648
Prep Method: METHOD
Prep Date/Time: 10/06/16 16:32
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chemical Oxygen Demand	10.0	U	20.0	6.20	mg/L	1		10/07/16 14:52

Batch Information

Analytical Batch: WSP5358
Analytical Method: EPA 410.4
Analyst: KBE
Analytical Date/Time: 10/07/16 14:52
Container ID: 1165651001-H

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Organic Carbon	1.69		0.500	0.150	mg/L	1		10/06/16 17:04

Batch Information

Analytical Batch: WTC2637
Analytical Method: SM 5310B
Analyst: TMA
Analytical Date/Time: 10/06/16 17:04
Container ID: 1165651001-I

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Turbidity	11.0		0.200	0.100	NTU	1		09/22/16 16:00

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651001
Lab Project ID: 1165651

Collection Date: 09/21/16 14:00
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WAT10743
Analytical Method: SM21 2130B
Analyst: KBE
Analytical Date/Time: 09/22/16 16:00
Container ID: 1165651001-Q

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Alkalinity	79.2		10.0	3.10	mg/L	1		09/23/16 22:34

Batch Information

Analytical Batch: WTI4519
Analytical Method: SM21 2320B
Analyst: KBE
Analytical Date/Time: 09/23/16 22:34
Container ID: 1165651001-Q

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Solids	128		10.0	10.0	mg/L	1		09/26/16 14:26

Batch Information

Analytical Batch: STS5225
Analytical Method: SM21 2540B
Analyst: KBE
Analytical Date/Time: 09/26/16 14:26
Container ID: 1165651001-J

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Dissolved Solids	108		10.0	3.10	mg/L	1		09/27/16 15:46

Batch Information

Analytical Batch: STS5227
Analytical Method: SM21 2540C
Analyst: LLP
Analytical Date/Time: 09/27/16 15:46
Container ID: 1165651001-Q

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651001
Lab Project ID: 1165651

Collection Date: 09/21/16 14:00
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	8.89		1.23	0.383	mg/L	1		09/23/16 17:57

Batch Information

Analytical Batch: STS5220
Analytical Method: SM21 2540D
Analyst: LLP
Analytical Date/Time: 09/23/16 17:57
Container ID: 1165651001-O

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
pH	8.40		0.100	0.100	pH units	1		09/23/16 22:34

Batch Information

Analytical Batch: WTI4514
Analytical Method: SM21 4500-H B
Analyst: KBE
Analytical Date/Time: 09/23/16 22:34
Container ID: 1165651001-Q

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		10/06/16 17:12

Batch Information

Analytical Batch: WDA3869
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 10/06/16 17:12
Container ID: 1165651001-H

Prep Batch: WXX11647
Prep Method: METHOD
Prep Date/Time: 10/05/16 18:40
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0661	J	0.100	0.0310	mg/L	1		09/29/16 13:59

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651001
Lab Project ID: 1165651

Collection Date: 09/21/16 14:00
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA3863
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/29/16 13:59
Container ID: 1165651001-H

Prep Batch: WXX11639
Prep Method: METHOD
Prep Date/Time: 09/29/16 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500	U	0.100	0.0300	mg/L	2		09/26/16 11:53
Nitrite-N	0.0500	U	0.100	0.0300	mg/L	2		09/26/16 11:53

Batch Information

Analytical Batch: WFI2507
Analytical Method: SM21 4500NO3-F
Analyst: KBE
Analytical Date/Time: 09/26/16 11:53
Container ID:

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ortho Phosphate-P	0.0896		0.0100	0.00310	mg/L	1		09/22/16 17:04
Total Phosphorus	0.0907		0.0100	0.00310	mg/L	1		10/12/16 17:52

Batch Information

Analytical Batch: WDA3862
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 09/22/16 17:04
Container ID: 1165651001-K

Prep Batch: WXX11638
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/22/16 16:45
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Analytical Batch: WDA3870
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 10/12/16 17:52
Container ID: 1165651001-H

Prep Batch: WXX11653
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/07/16 16:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651002
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	2560		20.0	6.20	ug/L	25		10/11/16 08:16
Antimony	0.370		0.0500	0.0150	ug/L	2.5		10/08/16 14:47
Arsenic	2.22		0.800	0.200	ug/L	2.5		10/08/16 14:47
Barium	30.3		0.250	0.0400	ug/L	2.5		10/08/16 14:47
Beryllium	0.132		0.0500	0.0250	ug/L	2.5		10/08/16 14:47
Bismuth	0.0174	J	0.0500	0.0150	ug/L	2.5		10/08/16 14:47
Boron	4.93	J	5.00	1.50	ug/L	2.5		10/08/16 14:47
Cadmium	0.120		0.0500	0.0150	ug/L	2.5		10/08/16 14:47
Calcium	5940		50.0	15.0	ug/L	2.5		10/08/16 14:47
Chromium	6.71		0.500	0.150	ug/L	2.5		10/08/16 14:47
Cobalt	11.7		0.0200	0.0100	ug/L	2.5		10/08/16 14:47
Copper	6.73		0.500	0.200	ug/L	2.5		10/08/16 14:47
Iron	3340		20.0	6.20	ug/L	2.5		10/08/16 14:47
Lead	1.26		0.100	0.0310	ug/L	2.5		10/08/16 14:47
Magnesium	1510		20.0	6.20	ug/L	2.5		10/08/16 14:47
Manganese	125		0.100	0.0310	ug/L	2.5		10/08/16 14:47
Molybdenum	1.52		0.0500	0.0150	ug/L	2.5		10/08/16 14:47
Nickel	15.3		0.620	0.0620	ug/L	2.5		10/08/16 14:47
Potassium	1180		50.0	15.0	ug/L	2.5		10/08/16 14:47
Selenium	0.500	U	1.00	0.310	ug/L	2.5		10/08/16 14:47
Silver	0.0100	U	0.0200	0.00620	ug/L	2.5		10/08/16 14:47
Sodium	3470		100	31.0	ug/L	2.5		10/08/16 14:47
Thallium	0.0285		0.0200	0.00620	ug/L	2.5		10/08/16 14:47
Tin	0.232		0.200	0.0620	ug/L	2.5		10/08/16 14:47
Vanadium	7.83		1.00	0.310	ug/L	2.5		10/08/16 14:47
Zinc	33.3		3.10	0.400	ug/L	2.5		10/08/16 14:47

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651002
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/08/16 14:47
Container ID: 1165651002-L

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Analytical Batch: MMS9573
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/11/16 08:16
Container ID: 1165651002-L

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651002
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Organochlorinated Pesticides by GC/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
4,4'-DDD	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
4,4'-DDE	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
4,4'-DDT	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
Aldrin	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
alpha-BHC	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
alpha-Chlordane	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
beta-BHC	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
delta-BHC	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
Dieldrin	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
Endosulfan I	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
Endosulfan II	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
Endosulfan sulfate	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
Endrin	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
Endrin aldehyde	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
Endrin ketone	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
gamma-BHC (Lindane)	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
gamma-Chlordane	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
Heptachlor	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
Heptachlor epoxide	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
Methoxychlor	0.0155	U	0.0309	0.00969	ug/L	1		09/28/16 17:07
Toxaphene	1.03	U	2.06	0.639	ug/L	1		09/28/16 17:07
Surrogates								
2-Fluorobiphenyl (surr)	79.7		53-106		%	1		09/28/16 17:07
Terphenyl-d14 (surr)	81.5		58-132		%	1		09/28/16 17:07

Batch Information

Analytical Batch: XMS9648
Analytical Method: 8270D SIM (PEST)
Analyst: DSH
Analytical Date/Time: 09/28/16 17:07
Container ID: 1165651002-C

Prep Batch: XXX36385
Prep Method: SW3520C
Prep Date/Time: 09/26/16 09:01
Prep Initial Wt./Vol.: 970 mL
Prep Extract Vol: 1 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651002
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Polychlorinated Biphenyls**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aroclor-1016	0.208	U	0.417	0.125	ug/L	1		10/07/16 03:06
Aroclor-1221	0.520	U	1.04	0.323	ug/L	1		10/07/16 03:06
Aroclor-1232	0.0520	U	0.104	0.0323	ug/L	1		10/07/16 03:06
Aroclor-1242	0.0520	U	0.104	0.0323	ug/L	1		10/07/16 03:06
Aroclor-1248	0.0520	U	0.104	0.0323	ug/L	1		10/07/16 03:06
Aroclor-1254	0.0520	U	0.104	0.0323	ug/L	1		10/07/16 03:06
Aroclor-1260	0.0520	U	0.104	0.0323	ug/L	1		10/07/16 03:06
Surrogates								
Decachlorobiphenyl (surr)	97		40-135		%	1		10/07/16 03:06

Batch Information

Analytical Batch: XGC9551
Analytical Method: SW8082A
Analyst: S.G
Analytical Date/Time: 10/07/16 03:06
Container ID: 1165651002-A

Prep Batch: XXX36469
Prep Method: SW3520C
Prep Date/Time: 10/06/16 09:52
Prep Initial Wt./Vol.: 960 mL
Prep Extract Vol: 1 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651002
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.300	U	0.600	0.180	mg/L	1		10/06/16 02:50
Surrogates								
5a Androstane (surr)	103		50-150		%	1		10/06/16 02:50

Batch Information

Analytical Batch: XFC12916
Analytical Method: AK102
Analyst: CRA
Analytical Date/Time: 10/06/16 02:50
Container ID: 1165651002-M

Prep Batch: XXX36450
Prep Method: SW3520C
Prep Date/Time: 10/04/16 09:17
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.250	U	0.500	0.150	mg/L	1		10/06/16 02:50
Surrogates								
n-Triacontane-d62 (surr)	104		50-150		%	1		10/06/16 02:50

Batch Information

Analytical Batch: XFC12916
Analytical Method: AK103
Analyst: CRA
Analytical Date/Time: 10/06/16 02:50
Container ID: 1165651002-M

Prep Batch: XXX36450
Prep Method: SW3520C
Prep Date/Time: 10/04/16 09:17
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651002
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		09/24/16 18:00
Surrogates								
4-Bromofluorobenzene (surr)	81.5		50-150		%	1		09/24/16 18:00

Batch Information

Analytical Batch: VFC13323
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 09/24/16 18:00
Container ID: 1165651002-E

Prep Batch: VXX29626
Prep Method: SW5030B
Prep Date/Time: 09/24/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651002
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloride	4.07		0.200	0.0620	mg/L	1		10/07/16 05:33
Fluoride	0.119	J	0.200	0.0620	mg/L	1		10/07/16 05:33
Sulfate	8.34		0.200	0.0620	mg/L	1		10/07/16 05:33

Batch Information

Analytical Batch: WIC5570
Analytical Method: EPA 300.0
Analyst: ACF
Analytical Date/Time: 10/07/16 05:33
Container ID: 1165651002-P

Prep Batch: WXX11648
Prep Method: METHOD
Prep Date/Time: 10/06/16 16:32
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chemical Oxygen Demand	30.1		20.0	6.20	mg/L	1		10/07/16 14:52

Batch Information

Analytical Batch: WSP5358
Analytical Method: EPA 410.4
Analyst: KBE
Analytical Date/Time: 10/07/16 14:52
Container ID: 1165651002-H

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Organic Carbon	2.68		0.500	0.150	mg/L	1		10/06/16 17:17

Batch Information

Analytical Batch: WTC2637
Analytical Method: SM 5310B
Analyst: TMA
Analytical Date/Time: 10/06/16 17:17
Container ID: 1165651002-I

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Turbidity	16.0		0.200	0.100	NTU	1		09/22/16 16:00

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651002
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WAT10743
Analytical Method: SM21 2130B
Analyst: KBE
Analytical Date/Time: 09/22/16 16:00
Container ID: 1165651002-Q

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Alkalinity	12.0		10.0	3.10	mg/L	1		09/23/16 22:52

Batch Information

Analytical Batch: WTI4519
Analytical Method: SM21 2320B
Analyst: KBE
Analytical Date/Time: 09/23/16 22:52
Container ID: 1165651002-Q

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Solids	76.0		10.0	10.0	mg/L	1		09/26/16 14:26

Batch Information

Analytical Batch: STS5225
Analytical Method: SM21 2540B
Analyst: KBE
Analytical Date/Time: 09/26/16 14:26
Container ID: 1165651002-J

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Dissolved Solids	60.0		10.0	3.10	mg/L	1		09/27/16 15:46

Batch Information

Analytical Batch: STS5227
Analytical Method: SM21 2540C
Analyst: LLP
Analytical Date/Time: 09/27/16 15:46
Container ID: 1165651002-Q

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651002
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	49.2		2.70	0.838	mg/L	1		09/23/16 17:57

Batch Information

Analytical Batch: STS5220
Analytical Method: SM21 2540D
Analyst: LLP
Analytical Date/Time: 09/23/16 17:57
Container ID: 1165651002-O

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
pH	6.00		0.100	0.100	pH units	1		09/23/16 22:52

Batch Information

Analytical Batch: WTI4514
Analytical Method: SM21 4500-H B
Analyst: KBE
Analytical Date/Time: 09/23/16 22:52
Container ID: 1165651002-Q

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		10/06/16 17:14

Batch Information

Analytical Batch: WDA3869
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 10/06/16 17:14
Container ID: 1165651002-H

Prep Batch: WXX11647
Prep Method: METHOD
Prep Date/Time: 10/05/16 18:40
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500	U	0.100	0.0310	mg/L	1		09/29/16 14:01

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651002
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA3863
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/29/16 14:01
Container ID: 1165651002-H

Prep Batch: WXX11639
Prep Method: METHOD
Prep Date/Time: 09/29/16 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.877		0.100	0.0300	mg/L	2		09/22/16 16:15
Nitrite-N	0.0500	U	0.100	0.0300	mg/L	2		09/22/16 16:15

Batch Information

Analytical Batch: WFI2506
Analytical Method: SM21 4500NO3-F
Analyst: KBE
Analytical Date/Time: 09/22/16 16:15
Container ID: 1165651002-P

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ortho Phosphate-P	0.0303		0.0100	0.00310	mg/L	1		09/22/16 17:06
Total Phosphorus	0.0532		0.0100	0.00310	mg/L	1		10/12/16 17:54

Batch Information

Analytical Batch: WDA3862
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 09/22/16 17:06
Container ID: 1165651002-K

Prep Batch: WXX11638
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/22/16 16:45
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Analytical Batch: WDA3870
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 10/12/16 17:54
Container ID: 1165651002-H

Prep Batch: WXX11653
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/07/16 16:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **Trip Blank**

Client Sample ID: **Trip Blank**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651003
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		09/24/16 12:37
Surrogates								
4-Bromofluorobenzene (surr)	83.8		50-150		%	1		09/24/16 12:37

Batch Information

Analytical Batch: VFC13323
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 09/24/16 12:37
Container ID: 1165651003-A

Prep Batch: VXX29626
Prep Method: SW5030B
Prep Date/Time: 09/24/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651004
Lab Project ID: 1165651

Collection Date: 09/21/16 14:00
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	3.87		2.00	0.620	ug/L	2.5		10/08/16 14:50
Antimony	2.77		0.0500	0.0150	ug/L	2.5		10/08/16 14:50
Arsenic	17.2		0.800	0.200	ug/L	2.5		10/08/16 14:50
Barium	16.4		0.250	0.0400	ug/L	2.5		10/08/16 14:50
Beryllium	0.0250	U	0.0500	0.0250	ug/L	2.5		10/08/16 14:50
Bismuth	0.0250	U	0.0500	0.0150	ug/L	2.5		10/08/16 14:50
Boron	23.7		5.00	1.50	ug/L	2.5		10/08/16 14:50
Cadmium	0.0250	U	0.0500	0.0150	ug/L	2.5		10/08/16 14:50
Calcium	18000		50.0	15.0	ug/L	2.5		10/08/16 14:50
Chromium	0.250	U	0.500	0.150	ug/L	2.5		10/08/16 14:50
Cobalt	0.114		0.0200	0.0100	ug/L	2.5		10/08/16 14:50
Copper	0.250	J	0.500	0.200	ug/L	2.5		10/08/16 14:50
Iron	98.3		20.0	6.20	ug/L	2.5		10/08/16 14:50
Lead	0.0500	U	0.100	0.0310	ug/L	2.5		10/08/16 14:50
Magnesium	4410		20.0	6.20	ug/L	2.5		10/08/16 14:50
Manganese	54.7		0.100	0.0310	ug/L	2.5		10/08/16 14:50
Molybdenum	1.67		0.0500	0.0150	ug/L	2.5		10/08/16 14:50
Nickel	2.19		0.620	0.0620	ug/L	2.5		10/08/16 14:50
Potassium	3690		50.0	15.0	ug/L	2.5		10/08/16 14:50
Selenium	0.500	U	1.00	0.310	ug/L	2.5		10/08/16 14:50
Silicon	10500		100	31.0	ug/L	2.5		10/08/16 17:34
Silver	0.0100	U	0.0200	0.00620	ug/L	2.5		10/08/16 14:50
Sodium	7640		100	31.0	ug/L	2.5		10/08/16 14:50
Thallium	0.0100	U	0.0200	0.00620	ug/L	2.5		10/08/16 14:50
Tin	0.100	U	0.200	0.0620	ug/L	2.5		10/08/16 14:50
Vanadium	14.7		1.00	0.310	ug/L	2.5		10/08/16 14:50
Zinc	77.3		3.10	0.400	ug/L	2.5		10/08/16 14:50

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651004
Lab Project ID: 1165651

Collection Date: 09/21/16 14:00
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/08/16 14:50
Container ID: 1165651004-B

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Analytical Batch: MMS9569
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/08/16 17:34
Container ID: 1165651004-B

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Hardness as CaCO3	63.1		1.00	1.00	mg/L	2.5		10/08/16 14:50

Batch Information

Analytical Batch: MMS9568
Analytical Method: SM21 2340B
Analyst: VDL
Analytical Date/Time: 10/08/16 14:50
Container ID: 1165651004-B

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651004
Lab Project ID: 1165651

Collection Date: 09/21/16 14:00
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Organic Carbon,Dissolved	1.02		0.500	0.150	mg/L	1		10/06/16 17:32

Batch Information

Analytical Batch: WTC2637
Analytical Method: SM 5310B
Analyst: TMA
Analytical Date/Time: 10/06/16 17:32
Container ID: 1165651004-A

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651005
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	71.1		2.00	0.620	ug/L	2.5		10/08/16 14:53
Antimony	0.255		0.0500	0.0150	ug/L	2.5		10/08/16 14:53
Arsenic	0.400	U	0.800	0.200	ug/L	2.5		10/08/16 14:53
Barium	12.6		0.250	0.0400	ug/L	2.5		10/08/16 14:53
Beryllium	0.0597		0.0500	0.0250	ug/L	2.5		10/08/16 14:53
Bismuth	0.0250	U	0.0500	0.0150	ug/L	2.5		10/08/16 14:53
Boron	4.71	J	5.00	1.50	ug/L	2.5		10/08/16 14:53
Cadmium	0.0986		0.0500	0.0150	ug/L	2.5		10/08/16 14:53
Calcium	5690		50.0	15.0	ug/L	2.5		10/08/16 14:53
Chromium	0.250	U	0.500	0.150	ug/L	2.5		10/08/16 14:53
Cobalt	10.3		0.0200	0.0100	ug/L	2.5		10/08/16 14:53
Copper	1.43		0.500	0.200	ug/L	2.5		10/08/16 14:53
Iron	140		20.0	6.20	ug/L	2.5		10/08/16 14:53
Lead	0.437		0.100	0.0310	ug/L	2.5		10/08/16 14:53
Magnesium	1040		20.0	6.20	ug/L	2.5		10/08/16 14:53
Manganese	99.6		0.100	0.0310	ug/L	2.5		10/08/16 14:53
Molybdenum	0.598		0.0500	0.0150	ug/L	2.5		10/08/16 14:53
Nickel	11.3		0.620	0.0620	ug/L	2.5		10/08/16 14:53
Potassium	915		50.0	15.0	ug/L	2.5		10/08/16 14:53
Selenium	0.500	U	1.00	0.310	ug/L	2.5		10/08/16 14:53
Silicon	12900		100	31.0	ug/L	2.5		10/08/16 17:37
Silver	0.0100	U	0.0200	0.00620	ug/L	2.5		10/08/16 14:53
Sodium	3420		100	31.0	ug/L	2.5		10/08/16 14:53
Thallium	0.0131	J	0.0200	0.00620	ug/L	2.5		10/08/16 14:53
Tin	0.100	U	0.200	0.0620	ug/L	2.5		10/08/16 14:53
Vanadium	0.500	U	1.00	0.310	ug/L	2.5		10/08/16 14:53
Zinc	20.0		3.10	0.400	ug/L	2.5		10/08/16 14:53

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651005
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/08/16 14:53
Container ID: 1165651005-B

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Analytical Batch: MMS9569
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/08/16 17:37
Container ID: 1165651005-B

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Hardness as CaCO3	18.5		1.00	1.00	mg/L	2.5		10/08/16 14:53

Batch Information

Analytical Batch: MMS9568
Analytical Method: SM21 2340B
Analyst: VDL
Analytical Date/Time: 10/08/16 14:53
Container ID: 1165651005-B

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165651005
Lab Project ID: 1165651

Collection Date: 09/21/16 10:25
Received Date: 09/22/16 13:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Organic Carbon,Dissolved	1.77		0.500	0.150	mg/L	1		10/06/16 17:48

Batch Information

Analytical Batch: WTC2637
Analytical Method: SM 5310B
Analyst: TMA
Analytical Date/Time: 10/06/16 17:48
Container ID: 1165651005-A

Print Date: 10/15/2016 10:42:55AM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1744485 [MXX/30245]
Blank Lab ID: 1355979

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1165651001, 1165651002, 1165651004, 1165651005

Results by **200.8 Low Level**

Parameter	Results	LOQ/CL	DL	Units
Aluminum	1.00U	2.00	0.620	ug/L
Antimony	0.0250U	0.0500	0.0150	ug/L
Arsenic	0.400U	0.800	0.200	ug/L
Barium	0.125U	0.250	0.0400	ug/L
Beryllium	0.0250U	0.0500	0.0250	ug/L
Bismuth	0.0250U	0.0500	0.0150	ug/L
Boron	2.50U	5.00	1.50	ug/L
Cadmium	0.0250U	0.0500	0.0150	ug/L
Calcium	25.0U	50.0	15.0	ug/L
Chromium	0.250U	0.500	0.150	ug/L
Cobalt	0.0100U	0.0200	0.0100	ug/L
Copper	0.250U	0.500	0.200	ug/L
Iron	10.0U	20.0	6.20	ug/L
Lead	0.0500U	0.100	0.0310	ug/L
Magnesium	10.0U	20.0	6.20	ug/L
Manganese	0.0500U	0.100	0.0310	ug/L
Molybdenum	0.0250U	0.0500	0.0150	ug/L
Nickel	0.310U	0.620	0.0620	ug/L
Potassium	25.0U	50.0	15.0	ug/L
Selenium	0.500U	1.00	0.310	ug/L
Silicon	50.0U	100	31.0	ug/L
Silver	0.0100U	0.0200	0.00620	ug/L
Sodium	50.0U	100	31.0	ug/L
Thallium	0.0100U	0.0200	0.00620	ug/L
Tin	0.100U	0.200	0.0620	ug/L
Vanadium	0.500U	1.00	0.310	ug/L
Zinc	0.531J	3.10	0.400	ug/L

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Instrument: Perkin Elmer NexIon P5
Analyst: VDL
Analytical Date/Time: 10/8/2016 1:43:25PM

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/3/2016 7:43:02AM
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:43:04AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [MXX30245]
Blank Spike Lab ID: 1355980
Date Analyzed: 10/08/2016 13:46

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002, 1165651004, 1165651005

Results by **200.8 Low Level**

	Blank Spike (ug/L)			
Parameter	Spike	Result	Rec (%)	CL
Aluminum	50	51.0	102	(85-115)
Antimony	5	5.39	108	(85-115)
Arsenic	25	25.2	101	(85-115)
Barium	25	24.8	99	(85-115)
Beryllium	12.5	13.0	104	(85-115)
Bismuth	12.5	12.5	100	(85-115)
Boron	50	51.0	102	(85-115)
Cadmium	12.5	12.8	103	(85-115)
Calcium	5000	4520	90	(85-115)
Chromium	12.5	12.1	97	(85-115)
Cobalt	12.5	12.4	99	(85-115)
Copper	25	24.3	97	(85-115)
Iron	500	498	100	(85-115)
Lead	5	5.06	101	(85-115)
Magnesium	5000	4860	97	(85-115)
Manganese	50	51.3	103	(85-115)
Molybdenum	12.5	12.9	103	(85-115)
Nickel	12.5	12.2	98	(85-115)
Potassium	5000	5020	100	(85-115)
Selenium	25	24.5	98	(85-115)
Silicon	2500	2610	104	(85-115)
Silver	5	5.26	105	(85-115)
Sodium	5000	4990	100	(85-115)
Thallium	2.5	2.54	102	(85-115)
Tin	12.5	12.9	104	(85-115)
Vanadium	25	24.8	99	(85-115)
Zinc	50	49.5	99	(85-115)

Batch Information

Analytical Batch: **MMS9568**
Analytical Method: **200.8 Low Level**
Instrument: **Perkin Elmer Nexlon P5**
Analyst: **VDL**

Prep Batch: **MXX30245**
Prep Method: **E200.2**
Prep Date/Time: **10/03/2016 07:43**
Spike Init Wt./Vol.: 50 ug/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:43:06AM

Matrix Spike Summary

Original Sample ID: 1355996
MS Sample ID: 1355997 MS
MSD Sample ID: 1355998 MSD

Analysis Date: 10/08/2016 13:55
Analysis Date: 10/08/2016 13:58
Analysis Date: 10/08/2016 14:01
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002, 1165651004, 1165651005

Results by **200.8 Low Level**

		Matrix Spike (ug/L)				Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)		CL	RPD (%)	RPD CL
Aluminum	242	50.0	452	419	*	50.0	400	316	*	70-130	12.10	(< 20)
Antimony	0.978	5.00	6.13	103		5.00	6.03	101		70-130	1.80	(< 20)
Arsenic	19.7	25.0	44.7	100		25.0	43.3	94		70-130	3.20	(< 20)
Barium	25.3	25.0	51	103		25.0	50.5	101		70-130	1.00	(< 20)
Beryllium	0.0250U	12.5	11.7	94		12.5	11.7	94		70-130	0.00	(< 20)
Bismuth	0.0250U	12.5	12.4	99		12.5	11.7	93		70-130	6.10	(< 20)
Boron	26.9	50.0	72.1	90		50.0	73.6	93		70-130	2.10	(< 20)
Cadmium	0.0250U	12.5	12.5	100		12.5	12.2	98		70-130	2.40	(< 20)
Calcium	24300	5000	27700	68	*	5000	26200	40	*	70-130	5.30	(< 20)
Chromium	0.250U	12.5	13.2	106		12.5	13.1	105		70-130	0.86	(< 20)
Cobalt	0.167	12.5	13	102		12.5	12.9	102		70-130	0.58	(< 20)
Copper	0.682	25.0	24.7	96		25.0	24.4	95		70-130	1.30	(< 20)
Iron	2710	500	3330	125		500	3140	88		70-130	5.70	(< 20)
Lead	0.204	5.00	5.34	103		5.00	4.98	96		70-130	7.00	(< 20)
Magnesium	8630	5000	12800	83		5000	12700	81		70-130	0.90	(< 20)
Manganese	118	50.0	169	101		50.0	165	95		70-130	2.00	(< 20)
Molybdenum	1.16	12.5	14.8	109		12.5	14.4	106		70-130	3.00	(< 20)
Nickel	1.28	12.5	13.9	101		12.5	13.7	99		70-130	1.70	(< 20)
Potassium	6390	5000	11500	102		5000	11000	92		70-130	4.40	(< 20)
Selenium	0.500U	25.0	24.7	99		25.0	24.0	96		70-130	2.80	(< 20)
Silver	0.0100U	5.00	5.25	105		5.00	5.04	101		70-130	4.00	(< 20)
Sodium	8160	5000	12700	91		5000	12600	89		70-130	0.89	(< 20)
Thallium	0.0100U	2.50	2.57	103		2.50	2.43	97		70-130	5.70	(< 20)
Tin	0.100U	12.5	12.2	97		12.5	12.2	98		70-130	0.26	(< 20)
Vanadium	4.12	25.0	30.8	107		25.0	30.2	104		70-130	1.80	(< 20)
Zinc	277	50.0	302	49	*	50.0	301	48	*	70-130	0.20	(< 20)

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Instrument: Perkin Elmer NexIon P5
Analyst: VDL
Analytical Date/Time: 10/8/2016 1:58:06PM

Prep Batch: MXX30245
Prep Method: LL Digest for Metals on ICP-MS
Prep Date/Time: 10/3/2016 7:43:02AM
Prep Initial Wt./Vol.: 50.00mL
Prep Extract Vol: 10.00mL

Print Date: 10/15/2016 10:43:08AM

Matrix Spike Summary

Original Sample ID: 1356000
MS Sample ID: 1356001 MS
MSD Sample ID: 1356002 MSD

Analysis Date: 10/08/2016 14:32
Analysis Date: 10/08/2016 14:35
Analysis Date: 10/08/2016 14:38
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002, 1165651004, 1165651005

Results by **200.8 Low Level**

		Matrix Spike (ug/L)				Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Aluminum	18.8	50.0	86.9	136	*	50.0	83.8	130	70-130	3.60	(< 20)
Antimony	0.913	5.00	6.14	105		5.00	6.30	108	70-130	2.50	(< 20)
Arsenic	14.2	25.0	40.3	104		25.0	41.5	109	70-130	2.90	(< 20)
Barium	20.7	25.0	45.1	97		25.0	47.4	107	70-130	5.00	(< 20)
Beryllium	0.0250U	12.5	11.9	95		12.5	11.9	95	70-130	0.19	(< 20)
Bismuth	0.0250U	12.5	12.1	97		12.5	12.7	102	70-130	4.60	(< 20)
Boron	26.6	50.0	75.1	97		50.0	74.9	97	70-130	0.17	(< 20)
Cadmium	0.0250U	12.5	12.3	98		12.5	12.9	103	70-130	4.80	(< 20)
Calcium	23400	5000	26200	57	*	5000	28900	110	70-130	9.60	(< 20)
Chromium	0.250U	12.5	13.1	105		12.5	13.1	105	70-130	0.20	(< 20)
Cobalt	0.0803	12.5	13.1	104		12.5	13.6	108	70-130	3.80	(< 20)
Copper	0.202J	25.0	24	95		25.0	24.8	98	70-130	3.30	(< 20)
Iron	647	500	1210	113		500	1230	117	70-130	1.40	(< 20)
Lead	0.0695J	5.00	5.07	100		5.00	5.37	106	70-130	5.80	(< 20)
Magnesium	7980	5000	12400	89		5000	12800	96	70-130	3.00	(< 20)
Manganese	103	50.0	157	108		50.0	165	124	70-130	4.90	(< 20)
Molybdenum	1.20	12.5	14.8	109		12.5	15.9	117	70-130	7.00	(< 20)
Nickel	0.823	12.5	13.5	101		12.5	13.8	104	70-130	2.70	(< 20)
Potassium	6260	5000	10700	88		5000	11600	107	70-130	8.40	(< 20)
Selenium	0.500U	25.0	24.2	97		25.0	25.8	103	70-130	6.60	(< 20)
Silver	0.0100U	5.00	5.18	104		5.00	5.80	116	70-130	11.30	(< 20)
Sodium	7860	5000	12400	90		5000	13000	102	70-130	4.80	(< 20)
Thallium	0.0100U	2.50	2.54	102		2.50	2.66	106	70-130	4.50	(< 20)
Tin	0.100U	12.5	12.7	101		12.5	13.1	105	70-130	3.50	(< 20)
Vanadium	1.19	25.0	29.3	112		25.0	29.4	113	70-130	0.33	(< 20)
Zinc	36.6	50.0	81.7	90		50.0	86.7	100	70-130	6.00	(< 20)

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Instrument: Perkin Elmer NexIon P5
Analyst: VDL
Analytical Date/Time: 10/8/2016 2:35:52PM

Prep Batch: MXX30245
Prep Method: LL Digest for Metals on ICP-MS
Prep Date/Time: 10/3/2016 7:43:02AM
Prep Initial Wt./Vol.: 50.00mL
Prep Extract Vol: 10.00mL

Print Date: 10/15/2016 10:43:08AM

Bench Spike Summary

Original Sample ID: 1356000
MS Sample ID: 1356003 BND
MSD Sample ID:

Analysis Date: 10/08/2016 14:32
Analysis Date: 10/08/2016 14:41
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002, 1165651004, 1165651005

Results by **200.8 Low Level**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Aluminum	18.8	50.0	67.1	97				70-130		

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Instrument: Perkin Elmer NexIon P5
Analyst: VDL
Analytical Date/Time: 10/8/2016 2:41:41PM

Prep Batch: MXX30245
Prep Method: LL Digest for Metals on ICP-MS
Prep Date/Time: 10/3/2016 7:43:02AM
Prep Initial Wt./Vol.: 50.00mL
Prep Extract Vol: 10.00mL

Print Date: 10/15/2016 10:43:08AM

Method Blank

Blank ID: MB for HBN 1743789 [STS/5220]
Blank Lab ID: 1354189

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1165651001, 1165651002

Results by **SM21 2540D**

Parameter	Results	LOQ/CL	DL	Units
Total Suspended Solids	0.500U	1.00	0.310	mg/L

Batch Information

Analytical Batch: STS5220
Analytical Method: SM21 2540D
Instrument:
Analyst: LLP
Analytical Date/Time: 9/23/2016 5:57:14PM

Print Date: 10/15/2016 10:43:12AM

Duplicate Sample Summary

Original Sample ID: 1165626002
Duplicate Sample ID: 1354217
QC for Samples:
1165651001, 1165651002

Analysis Date: 09/23/2016 17:57
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	74.2	75.0	mg/L	1.10	(< 5)

Batch Information

Analytical Batch: STS5220
Analytical Method: SM21 2540D
Instrument:
Analyst: LLP

Print Date: 10/15/2016 10:43:13AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [STS5220]
Blank Spike Lab ID: 1354190
Date Analyzed: 09/23/2016 17:57

Spike Duplicate ID: LCSD for HBN 1165651 [STS5220]
Spike Duplicate Lab ID: 1354191
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	50	49.9	100	50	49.8	100	(75-125)	0.20	(< 5)

Batch Information

Analytical Batch: **STS5220**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **LLP**

Prep Batch:
Prep Method:
Prep Date/Time:
Spike Init Wt./Vol.: 50 mg/L Extract Vol: 1000 mL
Dupe Init Wt./Vol.: 50 mg/L Extract Vol: 1000 mL

Print Date: 10/15/2016 10:43:15AM

Method Blank

Blank ID: MB for HBN 1744384 9[S[T 55/ 2
Blank 0a] ID: 1L/ 4b38

QC for [amples:
11b/ b/ 1331611b/ b/ 1335

Ma,rti : x a,er W(rfaue6c ffE6. ro(nGd

) es(l,s] R SM21 2540B

Oarame,er	) es(l,s	0UQTC0	D0	y nt,s
So,al [oltGs	13E3y	13E3	13E3	mPT0

Batch Information

gnalR,tual Ba,uA: [S[/ 55/
gnalR,tual Me,AoG [M51 5/ 43B
Ins,r(men,:
gnalRs,: hBc
gnalR,tual Da,eTStme: vT5bT531b 5:5b:/ 1OM

Ortn, Da,e: 13T1/ T531b 13:4L:17gM

upl icat emSt r l imSpr r t yB

Original Sample ID: 1165622001
Duplicate Sample ID: 1354627

QC for Samples:

1165651001, 1165651002

Analysis Date: 09/26/2016 14:26
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
<otal Solids	1T2	167	mg/L	2.40	(B 5)

Dt eah Infoyr t eon

Analytical h atcv: S<S5225
Analytical Metvod: SM21 2540h
Instrument:
Analyst: KhE

Print Date: 10/15/2016 10:43:17AM

Method Blank

Blank ID: MB for HBN 1744144 3898[STT7/
Blank 5a2 ID: 10S4] S4

L b for 8aQCmp:
11eSeS1ss1611eSeS1ssT

Ma,rti : x a,mr V8(rfaum6c ffE6. ro(nGd

) mp(l,p 2R **SM21 2540C**

OaraQmmr	) mp(l,p	5UL [b 5	D5	y nt,p
9o,al DtppolPmG8 oltGp	S5ssy	1sE5	0E1s	Qg[5

Batch Information

AnalRtual Ba,uh: 898STT7
AnalRtual MmhoG 8MT1 TS4sb
Inp,r(Qmn,:
AnalRp,: 55O
AnalRtual Da,m[9tQm v[T7[Ts1e 0:4e:s0OM

Ortn, Da,m 1s[1S[Ts1e 1s:40:T1AM

Duplicate Sample Summary

Original Sample ID: 1165651220
Duplicate Sample ID: 1354762

CP ,dr Samples:

1165651221E1165651220

Analysis Date: 29/0M/0216 15:46
x atriW (ater fSur,aceE. ,,GEo rdun) R

b esults Qy SM21 2540C

UAx .	Original	Duplicate	L nits	b %D fN R	b %D PT
<dtal DissdlBe) Sdli) s	62G2	63G2	mg/T	4G92	fh 5 R

Batch Information

Analytical v atcK: S<S500M
Analytical x etKd) : Sx 01 0542P
Instrument:
Analyst: TT%

%rint Date: 12/15/0216 12:43:03Ax

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [STS5220]
Blank Spike Lab ID: 1354955
Date Analyzed: / 7u20u2/ 16 15:46

Spike DcpliRate ID: LCSD for HBN 1165651 [STS5220]
Spike DcpliRate Lab ID: 1354956
x atriW (ater ,ScrfaReE ffG) rocndP

- C for Sa%pleM 1165651/ / 1E1165651/ / 2

s eMcltMby **SM21 2540C**

	Blank Spike ,%QLLP			Spike DcpliRate ,%QLLP					
mara%eter	Spike	s eMcltt	s eR,g P	Spike	s eMcltt	s eR,g P	CL	s mD ,g P	s mD CL
Total DiMvol<ed SolidM	33/	324	79	33/	322	79	, 058125 P	/ G2	,h 5 P

Batch Information

AnalytiRal BatRV: **STS5227**
AnalytiRal x etVod: **SM21 2540C**
InMrc%ent:
AnalyM: **LLP**

mrep BatRV:
mrep x etVod:
mrep DateuTi%e:
Spike Init (tGv olG 33/ %QLL . WtraRt v ol: 1/ / %L
Dcpe Init (tGv olG 33/ %QLL . WtraRt v ol: 1/ / %L

mrint Date: 1/ u15u2/ 16 1/ :43:24Ax

Method Blank

Blank ID: MB for HBN 1743940 [VXX/29626]
Blank Lab ID: 1354265

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1165651001, 1165651002, 1165651003

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	0.0500U	0.100	0.0310	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	83.8	50-150		%

Batch Information

Analytical Batch: VFC13323
Analytical Method: AK101
Instrument: Agilent 7890 PID/FID
Analyst: ST
Analytical Date/Time: 9/24/2016 11:08:00AM

Prep Batch: VXX29626
Prep Method: SW5030B
Prep Date/Time: 9/24/2016 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/15/2016 10:43:26AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [VXX29626]
Blank Spike Lab ID: 1354266
Date Analyzed: 09/24/2016 11:51

Spike Duplicate ID: LCSD for HBN 1165651 [VXX29626]
Spike Duplicate Lab ID: 1354267
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002, 1165651003

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	0.946	95	1.00	0.920	92	(60-120)	2.70	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500	90.9	91	0.0500	91.1	91	(50-150)	0.20	

Batch Information

Analytical Batch: **VFC13323**
Analytical Method: **AK101**
Instrument: **Agilent 7890 PID/FID**
Analyst: **ST**

Prep Batch: **VXX29626**
Prep Method: **SW5030B**
Prep Date/Time: **09/24/2016 06:00**
Spike Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL

Print Date: 10/15/2016 10:43:27AM

Method Blank

Blank ID: MB for HBN 1743893 [S T/ 5127430
Blank] aL ID: 13b3Q21

Cm for p ae sl6, :
118b8b1221t 118b8b122i

MaxrW. S ax6r up crfaE6t . ffG6d rocn) R

y 6, clx, LU SM21 2130B

garae 6x6r	y 6, clx	] P C 5m]	D]	OnW
/ crLWWU	2G122O	2G122	2G122	N/ O

Batch Information

TnalUWEal BaxEA: S T/ 12743
TnalUWEal M6xAo) : pMi 1 i 132B
In, xrce 6nx / crLWWe/ 6x6r
TnalU, x hB.
TnalUWEal Dax65 WW6: Q5 i 5 218 9:42:22TM

grWxDax6: 125 1b5 218 12:43:i QTM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WAT10743]
Blank Spike Lab ID: 1353902
Date Analyzed: 09/22/2016 08:40

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002

Results by **SM21 2130B**

	Blank Spike (NTU)			
Parameter	Spike	Result	Rec (%)	CL
Turbidity	10	11.0	110	(90-110)

Batch Information

Analytical Batch: **WAT10743**
Analytical Method: **SM21 2130B**
Instrument: **Turbidimeter**
Analyst: **KBE**

Prep Batch:
Prep Method:
Prep Date/Time:
Spike Init Wt./Vol.: 10 NTU Extract Vol: 1 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:43:30AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WAT10743]
Blank Spike Lab ID: 1353907
Date Analyzed: 09/22/2016 08:40

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002

Results by **SM21 2130B**

	Blank Spike (NTU)			
Parameter	Spike	Result	Rec (%)	CL
Turbidity	10	11.0	110	(90-110)

Batch Information

Analytical Batch: **WAT10743**
Analytical Method: **SM21 2130B**
Instrument: **Turbidimeter**
Analyst: **KBE**

Prep Batch:
Prep Method:
Prep Date/Time:
Spike Init Wt./Vol.: 10 NTU Extract Vol: 1 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:43:30AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WAT10743]
Blank Spike Lab ID: 1353909
Date Analyzed: 09/22/2016 16:00

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002

Results by **SM21 2130B**

	Blank Spike (NTU)			
Parameter	Spike	Result	Rec (%)	CL
Turbidity	10	11.0	110	(90-110)

Batch Information

Analytical Batch: **WAT10743**
Analytical Method: **SM21 2130B**
Instrument: **Turbidimeter**
Analyst: **KBE**

Prep Batch:
Prep Method:
Prep Date/Time:
Spike Init Wt./Vol.: 10 NTU Extract Vol: 1 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:43:30AM

Method Blank

Blank ID: MB for HBN 1744047 (WFI/2506)
Blank Lab ID: 1354473

QC for Samples:
1165651002

Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0500U	0.100	0.0300	mg/L
Nitrite-N	0.0500U	0.100	0.0300	mg/L
Total Nitrate/Nitrite-N	0.0500U	0.100	0.0300	mg/L

Batch Information

Analytical Batch: WFI2506
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: KBE
Analytical Date/Time: 9/22/2016 3:52:31PM

Print Date: 10/15/2016 10:43:32AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WFI2506]
Blank Spike Lab ID: 1354471
Date Analyzed: 09/22/2016 15:50

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651002

Results by **SM21 4500NO3-F**

	Blank Spike (mg/L)			
Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.73	109	(70-130)
Nitrite-N	2.5	2.47	99	(90-110)
Total Nitrate/Nitrite-N	5	5.20	104	(90-110)

Batch Information

Analytical Batch: **WFI2506**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **KBE**

Prep Batch:
Prep Method:
Prep Date/Time:
Spike Init Wt./Vol.: 2.5 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:43:35AM

Matrix Spike Summary

Original Sample ID: 1165651002
MS Sample ID: 1354467 MS
MSD Sample ID: 1354468 MSD

QC for Samples: 1165651002

Analysis Date: 09/22/2016 16:15
Analysis Date: 09/22/2016 16:16
Analysis Date: 09/22/2016 16:18
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.877	2.50	3.23	94	2.50	3.23	94	70-130	0.11	(< 25)
Nitrite-N	0.0500U	2.50	2.68	107	2.50	2.69	108	90-110	0.46	(< 25)

Batch Information

Analytical Batch: WFI2506
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: KBE
Analytical Date/Time: 9/22/2016 4:16:54PM

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt./Vol.: 5.00mL
Prep Extract Vol: 5.00mL

Print Date: 10/15/2016 10:43:36AM

Method Blank

Blank ID: MB for HBN 1744749 [WFI/2507]
Blank Lab ID: 1356784

QC for Samples:
1165651001

Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0500U	0.100	0.0300	mg/L
Nitrite-N	0.0500U	0.100	0.0300	mg/L
Total Nitrate/Nitrite-N	0.0500U	0.100	0.0300	mg/L

Batch Information

Analytical Batch: WFI2507
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: KBE
Analytical Date/Time: 9/26/2016 11:13:16AM

Print Date: 10/15/2016 10:43:39AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WFI250] b
Blank Spike La3 ID: 1456]] 7
Date Analyzed: 09/26/2016 11:11

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001

Results 3y **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.66	106	( ] 0-140)
Nitrite-N	2.5	2.56	102	(90-110)
Total Nitrate/Nitrite-N	5	5.22	10h	(90-110)

Batch Information

Analytical BatcV: **WFI2506**
Analytical MetVod: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **KBE**

Prep BatcV:
Prep MetVod:
Prep Date/Time:
Spike Init Wt./v ol.: 2.5 mg/L Extract v ol: 5 mL
Dupe Init Wt./v ol.: Extract v ol:

Print Date: 10/15/2016 10:h4:h0AM

Method Blank

Blank ID: MB for HBN 1744343 89 [ST/ 5/ 20
Blank] aL ID: 15/ 7432

b Q for [aC mlpe:
11s/ s/ 1661, 11s/ s/ 166t

MairxW9 aipr ([urfacp, Eff., Ground)

Rpeulie Ly **EPA 410.4**

SaraC pipr	Rpeulie	] Ob TQ]	D]	Unxie
QPpC xcal OWygpn DpC and	16.6U	t 6.6	s.t 6	CgT]

Batch Information

Analyixcal BaicP: 9 [S/ 5/ 2
Analyixcal MpiPod: ESA 416.4
IneiruC pni:
Analyei: hBE
Analyixcal DaipTvxC p: 16T7Tt 61s t :/ t :66SM

Srxni Daip: 16T1/ Tt 61s 16:45:45AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WSP5358]
Blank Spike Lab ID: 1357499
Date Analyzed: 10/07/2016 14:52

Spike Duplicate ID: LCSD for HBN 1165651 [WSP5358]
Spike Duplicate Lab ID: 1357500
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002

Results by **EPA 410.4**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chemical Oxygen Demand	500	515	103	500	507	101	(90-110)	1.50	(< 25)

Batch Information

Analytical Batch: **WSP5358**
Analytical Method: **EPA 410.4**
Instrument:
Analyst: **KBE**

Prep Batch:
Prep Method:
Prep Date/Time:
Spike Init Wt./Vol.: 500 mg/L Extract Vol: 2 mL
Dupe Init Wt./Vol.: 500 mg/L Extract Vol: 2 mL

Print Date: 10/15/2016 10:43:44AM

Method Blank

Blank ID: MB for HBN 1744935 [WTC/2637]
Blank Lab ID: 1357435

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1165651001, 1165651002, 1165651004, 1165651005

Results by **SM 5310B**

Parameter	Results	LOQ/CL	DL	Units
Total Organic Carbon	0.250U	0.500	0.150	mg/L

Batch Information

Analytical Batch: WTC2637
Analytical Method: SM 5310B
Instrument: TOC Analyzer
Analyst: TMA
Analytical Date/Time: 10/6/2016 4:48:45PM

Print Date: 10/15/2016 10:43:46AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WTC2637]
Blank Spike Lab ID: 1357433
Date Analyzed: 10/06/2016 16:33

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002, 1165651004, 1165651005

Results by **SM 5310B**

	Blank Spike (mg/L)			
Parameter	Spike	Result	Rec (%)	CL
Total Organic Carbon	75	75.1	100	(80-120)

Batch Information

Analytical Batch: **WTC2637**
Analytical Method: **SM 5310B**
Instrument: **TOC Analyzer**
Analyst: **TMA**

Prep Batch:
Prep Method:
Prep Date/Time:
Spike Init Wt./Vol.: 75 mg/L Extract Vol: 30 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:43:48AM

Matrix Spike Summary

Original Sample ID: 1357440
MS Sample ID: 1357455 MS
MSD Sample ID: 1357456 MSD

Analysis Date: 10/06/2016 18:03
Analysis Date: 10/06/2016 18:16
Analysis Date: 10/06/2016 18:32
Matrix: Drinking Water

QC for Samples: 1165651001, 1165651002, 1165651004, 1165651005

Results by **SM 5310B**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Organic Carbon	1.70	10.0	12.1	104	10.0	11.8	101	75-125	2.20	(< 25)

Batch Information

Analytical Batch: WTC2637
Analytical Method: SM 5310B
Instrument: TOC Analyzer
Analyst: TMA
Analytical Date/Time: 10/6/2016 6:16:52PM

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt./Vol.: 30.00mL
Prep Extract Vol: 30.00mL

Print Date: 10/15/2016 10:43:49AM

Duplicate Sample Summary

Original Sample ID: 1165651001
Duplicate Sample ID: 1354465

Analysis Date: 09/23/2016 22:43
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1165651001, 1165651002

Results by **SM21 4500-H B**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
pH	8.40	8.40	pH units	0.00	(< 5)

Batch Information

Analytical Batch: WTI4514
Analytical Method: SM21 4500-H B
Instrument: Titration
Analyst: KBE

Print Date: 10/15/2016 10:43:51AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WTI4514]
Blank Spike Lab ID: 1354462
Date Analyzed: 09/23/2016 18:05

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002

Results by **SM21 4500-H B**

Blank Spike (pH units)

Parameter	Spike	Result	Rec (%)	CL
pH	7	7.03	100	(99-101)

Batch Information

Analytical Batch: **WTI4514**
Analytical Method: **SM21 4500-H B**
Instrument: **Titration**
Analyst: **KBE**

Prep Batch:
Prep Method:
Prep Date/Time:
Spike Init Wt./Vol.: 7 pH units Extract Vol: 1 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:43:52AM

Method Blank

Blank ID: MB for HBN 1744388 9[SI74/ 152
Blank 0a] ID: 1L/ 4/ 4b

Matrix: [atsr Wh(rfaus, c ffE. ro(nGd

QC for map els6:
118/ 8/ 1331, 118/ 8/ 133b

) s6(lt6] R SM21 2320B

Oarap stsr	) s6(lt6	0UQTC0	D0	y nit6
PlkalinitR	/ E3y	13E3	LE3	p gT0

Batch Information

PnalRtiual BatuA: [SI4/ 15
PnalRtiual MstAoG: mMb1 bLb3B
In6tr(p snt: Sitration
PnalR6t: h Bc
PnalRtiual DatsTSip s: 5TbLTb318 13:17:47OM

Orint Dats: 13T1/ Tb318 13:4L:/ 4PM

Duplicate Sample Summary

Original Sample ID: 1165651001
Duplicate Sample ID: 1354544
QC for Samples:
1165651001, 1165651002

Analysis Date: 09/23/2016 22:43
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2320B**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Alkalinity	79.2	77.6	mg/L	2.10	(< 25)

Batch Information

Analytical Batch: WTI4519
Analytical Method: SM21 2320B
Instrument: Titration
Analyst: KBE

Print Date: 10/15/2016 10:43:55AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WTI451] b
Blank Spike La3 ID: 1254542
Date Analyzed: 0] 9/29/016 / / :/ 6

u atriM Water xSsrfa(ec, ffEc. rosndG

QC for SaP pleR 1165651001c116565100/

8 eRsltR3y **SM21 2320B**

Blank Spike xP %9LG

) araP eter	Spike	8 eRslt	8 e(xmG	CL
Alkalinity	/ 50	/ 4/	] 7	x- 5h115 G

Batch Information

Analyti(al Bat(V: **WTI4519**
Analyti(al u etVod: **SM21 2320B**
InRtrsP ent: **Titration**
AnalyRt: **KBE**

) rep Bat(V:
) rep u etVod:
) rep Date9TiP e:
Spike Init WtE9v olE / 50 P %9L , Mra(t v ol: 50 P L
Dspe Init WtE9v olE , Mra(t v ol:

) rint Date: 109I59/ 016 10:42:56Au

Method Blank

Blank ID: MB for HBN 1744263 [WXX/11638]
Blank Lab ID: 1355417

QC for Samples:
1165651001, 1165651002

Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500P-B,E**

Parameter	Results	LOQ/CL	DL	Units
Ortho Phosphate-P	0.00860J	0.0100	0.00310	mg/L

Batch Information

Analytical Batch: WDA3862
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/22/2016 5:01:36PM

Prep Batch: WXX11638
Prep Method: SM21 4500P-B,E
Prep Date/Time: 9/22/2016 4:45:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 10/15/2016 10:44:00AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [V XX11629]
Blank Spike Lab ID: 1255319
Da4e t nalAyez: d0/uu/ud16 1c:du

Spike D7pliRa4e ID: LCSD for HBN 1165651 [V XX11629]
Spike D7pliRa4e Lab ID: 1255310
x a4iW V a4er (S7rfaRe, Eff., Gro7nz)

QC for SampleM 1165651dd1, 1165651ddu

s eM7I4MbA SM21 4500P-B,E

	Blank Spike (mg/L)			Spike D7pliRa4e (mg/L)					
Parame4er	Spike	s eM7I4	s eR(%)	Spike	s eM7I4	s eR(%)	CL	s PD (%)	s PD CL
Or4 o P- oMp- a4e<P	d.u	d.106	09	d.u	d.100	00	(95<115)	1.1d	(h u5)

Batch Information

t nalA4Ral Ba4R : **WDA3862**
t nalA4Ral x e4 oz: **SM21 4500P-B,E**
InM4r7men4 **Discrete Analyzer 2**
t nalAM4 **NEG**

Prep Ba4R : **WXX11638**
Prep x e4 oz: **SM21 4500P-B,E**
Prep Da4e/Time: **09/22/2016 16:45**
Spike Ini4V 4/v ol.: d.u mg/L EW4raR4v ol: u5 mL
D7pe Ini4V 4/v ol.: d.u mg/L EW4raR4v ol: u5 mL

Matrix Spike Summary

Original Sample ID: 1165651001
MS Sample ID: 1355420 MS
MSD Sample ID: 1355421 MSD

QC for Samples: 1165651001, 1165651002

Analysis Date: 09/22/2016 17:04
Analysis Date: 09/22/2016 17:05
Analysis Date: 09/22/2016 17:05
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500P-B,E**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ortho Phosphate-P	0.0896	0.200	.304	107	0.200	0.298	104	75-125	1.80	(< 25)

Batch Information

Analytical Batch: WDA3862
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/22/2016 5:05:01PM

Prep Batch: WXX11638
Prep Method: Ortho Phosphorus SM4500P B,E(W) Extract
Prep Date/Time: 9/22/2016 4:45:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 10/15/2016 10:44:02AM

Method Blank

Blank ID: MB for HBN 1744270 [WXX/11639]
Blank Lab ID: 1355449

QC for Samples:
1165651001, 1165651002

Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0500U	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA3863
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/29/2016 1:19:26PM

Prep Batch: WXX11639
Prep Method: METHOD
Prep Date/Time: 9/29/2016 1:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Print Date: 10/15/2016 10:44:03AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WXX11639]
Blank Spike Lab ID: 1355450
Date Analyzed: 09/29/2016 13:21

Spike Duplicate ID: LCSD for HBN 1165651 [WXX11639]
Spike Duplicate Lab ID: 1355451
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	1.03	103	1	1.01	101	(75-125)	1.80	(< 25)

Batch Information

Analytical Batch: **WDA3863**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **NEG**

Prep Batch: **WXX11639**
Prep Method: **METHOD**
Prep Date/Time: **09/29/2016 13:00**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

Print Date: 10/15/2016 10:44:04AM

Matrix Spike Summary

Original Sample ID: 1165622001
MS Sample ID: 1355452 MS
MSD Sample ID: 1355453 MSD

QC for Samples: 1165651001, 1165651002

Analysis Date: 09/29/2016 13:31
Analysis Date: 09/29/2016 13:32
Analysis Date: 09/29/2016 13:34
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.0893J	1.00	1.06	97	1.00	1.02	93	75-125	3.60	(< 25)

Batch Information

Analytical Batch: WDA3863
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/29/2016 1:32:47PM

Prep Batch: WXX11639
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 9/29/2016 1:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 10/15/2016 10:44:06AM

Method Blank

Blank ID: MB for HBN 1744921 [WXX/11647]
Blank Lab ID: 1357360

QC for Samples:
1165651001, 1165651002

Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500-N D**

Parameter	Results	LOQ/CL	DL	Units
Total Kjeldahl Nitrogen	0.500U	1.00	0.310	mg/L

Batch Information

Analytical Batch: WDA3869
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 10/6/2016 5:02:26PM

Prep Batch: WXX11647
Prep Method: METHOD
Prep Date/Time: 10/5/2016 6:40:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 10/15/2016 10:44:07AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WXX11647]
Blank Spike Lab ID: 1357361
Date Analyzed: 10/06/2016 17:03

Spike Duplicate ID: LCSD for HBN 1165651 [WXX11647]
Spike Duplicate Lab ID: 1357362
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002

Results by **SM21 4500-N D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	4	4.34	108	4	4.11	103	(75-125)	5.40	(< 25)

Batch Information

Analytical Batch: **WDA3869**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **NEG**

Prep Batch: **WXX11647**
Prep Method: **METHOD**
Prep Date/Time: **10/05/2016 18:40**
Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

Print Date: 10/15/2016 10:44:10AM

Matrix Spike Summary

Original Sample ID: 1165622001
MS Sample ID: 1357363 MS
MSD Sample ID: 1357364 MSD

QC for Samples: 1165651001, 1165651002

Analysis Date: 10/06/2016 17:06
Analysis Date: 10/06/2016 17:07
Analysis Date: 10/06/2016 17:08
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500-N D**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	0.500U	4.00	4.1	103	4.00	4.50	113	75-125	9.30	(< 25)

Batch Information

Analytical Batch: WDA3869
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 10/6/2016 5:07:41PM

Prep Batch: WXX11647
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 10/5/2016 6:40:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 10/15/2016 10:44:11AM

Method Blank

Blank ID: MB for HBN 1745088 [WXX/11648]
Blank Lab ID: 1357605

QC for Samples:
1165651001, 1165651002

Matrix: Water (Surface, Eff., Ground)

Results by **EPA 300.0**

Parameter	Results	LOQ/CL	DL	Units
Chloride	0.101J	0.200	0.0620	mg/L
Fluoride	0.0820J	0.200	0.0620	mg/L
Sulfate	0.100U	0.200	0.0620	mg/L

Batch Information

Analytical Batch: WIC5570
Analytical Method: EPA 300.0
Instrument: Metrohm 733 DX2
Analyst: ACF
Analytical Date/Time: 10/6/2016 7:32:03PM

Prep Batch: WXX11648
Prep Method: METHOD
Prep Date/Time: 10/6/2016 4:32:00PM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:44:12AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WXX11648]
Blank Spike Lab ID: 1357606
Date Analyzed: 10/06/2016 21:45

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002

Results by **EPA 300.0**

	Blank Spike (mg/L)			
Parameter	Spike	Result	Rec (%)	CL
Chloride	5	5.02	100	(90-110)
Fluoride	5	5.11	102	(90-110)
Sulfate	5	5.07	101	(90-110)

Batch Information

Analytical Batch: **WIC5570**
Analytical Method: **EPA 300.0**
Instrument: **Metrohm 733 DX2**
Analyst: **ACF**

Prep Batch: **WXX11648**
Prep Method: **METHOD**
Prep Date/Time: **10/06/2016 16:32**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:44:14AM

Matrix Spike Summary

Original Sample ID: 1357607
MS Sample ID: 1357608 MS
MSD Sample ID: 1357609 MSD

Analysis Date: 10/06/2016 20:38
Analysis Date: 10/06/2016 21:01
Analysis Date: 10/06/2016 21:23
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Chloride	12.9	250	264	100	250	269	102	90-110	1.80	(< 15)
Fluoride	4.20J	250	255	100	250	261	103	90-110	2.00	(< 15)
Sulfate	325	250	595	108	250	599	109	90-110	0.74	(< 15)

Batch Information

Analytical Batch: WIC5570
Analytical Method: EPA 300.0
Instrument: Metrohm 733 DX2
Analyst: ACF
Analytical Date/Time: 10/6/2016 9:01:09PM

Prep Batch: WXX11648
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 10/6/2016 4:32:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 10/15/2016 10:44:16AM

Method Blank

Blank ID: MB for HBN 1742613 [WXX/11628]
Blank Lab ID: 1825671

QC for Samples:
1162621001, 116262100t

Mairx(: Waier uScrfaEe, . ffG,d rocn) R

y esclis bU **SM21 4500P-B,E**

harameier	y esclis	LPQ/CL	DL	Onxis
- oial hgospgorcs	0G0510A	0G100	0G0810	mJ/L

Batch Information

znalUxEal BaiEg: WDz 8570
znalUxEal Meigo) : SMt 1 4200h TB,.
Insircmeni: DxsEreie znalU9er 8
znalUsi: N. d
znalUxEal Daie/- xme: 10/1t /t 016 6:48:84h M

hrep BaiEg: WXX11628
hrep Meigo) : SMt 1 4200h TB,.
hrep Daie/- xme: 10/7/t 016 4:12:00h M
hrep Inxxal WiG/VolG t 2 mL
hrep . (iraEi Vol: t 2 mL

hrxni Daie: 10/12/t 016 10:44:17z M

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WXX116539
Blank Spike La] ID: 135b640
Date Analyzed: 1/ 2102/ 16 14:35

Spike Duplicate ID: LCSD for HBN 1165651 [WXX116539
Spike Duplicate La] ID: 135b643
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651/ / 1, 1165651/ / 0

Results] y **SM21 4500P-B,E**

	Blank Spike (mg2L)			Spike Duplicate (mg2L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
- otal P7osp7orus	/ .0	/ .0/ h	1/ 0	/ .0	/ .016	1/ b	(b5<115)	5.5/	(8 05)

Batch Information

Analytical Batc7: **WDA3870**
Analytical Met7od: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 3**
Analyst: **NEG**

Prep Batc7: **WXX11653**
Prep Met7od: **SM21 4500P-B,E**
Prep Date2 ime: **10/07/2016 16:15**
Spike Init Wt.2Tol.: / .0 mg2L Extract Tol: 05 mL
Dupe Init Wt.2Tol.: / .0 mg2L Extract Tol: 05 mL

Print Date: 1/ 2152/ 16 1/ :hh:1bAM

Matrix Spike Summary

Original Sample ID: 1165600MM1
3 S Sample ID: 14526Ay 3 S
3 SD Sample ID: 14526A5 3 SD

CP ɔdr Sample9: 1165651MM1E1165651MM0

s nalt 9i9 Da/e: 1M7107M16 1A:42
s nalt 9i9 Da/e: 1M7107M16 1A:4x
s nalt 9i9 Da/e: 1M7107M16 1A:yM
3 a/riW (a/er uSf rɔa, eE. ɔɔEo rdf n) R

b e9f l/9 kt **SM21 4500P-B,E**

		3 a/riWSpiLe umg7QR			SpiLe Df pli, a/e umg7QR					
%arame/er	Sample	SpiLe	b e9f l/	b e, uh R	SpiLe	b e9f l/	b e, uh R	PQ	b %D uh R	b %D PQ
- d/al %8d9p8drf 9	M31y	M9MM	41	x2	M9MM	M4MA	xA	A5<105	M9A	uB 05 R

Batch Information

s nalt /i, al Xa/, 8: (Ds42AM
s nalt /i, al 3 e/8d) : S3 01 y5MM%-XE
In9/rf men/: Di9, re/e s nalt zer 4
s nalt 9/: N. o
s nalt /i, al Da/e7 ime: 1M7107M16 5:4x:16%3

%rep Xa/, 8: (TT11654
%rep 3 e/8d) : - d/al %8d9p8drf 9 u(R. WG
%rep Da/e7 ime: 1M7A7M16 y:15:MM%3
%rep Ini/ial (/G7VdlG 05GMmQ
%rep . Wra, / Vdl: 05GMmQ

%rin/ Da/e: 1M7157M16 1Myy:0Ms 3

Method Blank

Blank ID: MB for HBN 1744043 [XXX/36385]
Blank Lab ID: 1354415

QC for Samples:
1165651001, 1165651002

Matrix: Water (Surface, Eff., Ground)

Results by **8270D SIM (PEST)**

Parameter	Results	LOQ/CL	DL	Units
4,4'-DDD	0.0150U	0.0300	0.00940	ug/L
4,4'-DDE	0.0150U	0.0300	0.00940	ug/L
4,4'-DDT	0.0150U	0.0300	0.00940	ug/L
Aldrin	0.0150U	0.0300	0.00940	ug/L
alpha-BHC	0.0150U	0.0300	0.00940	ug/L
alpha-Chlordane	0.0150U	0.0300	0.00940	ug/L
beta-BHC	0.0150U	0.0300	0.00940	ug/L
delta-BHC	0.0150U	0.0300	0.00940	ug/L
Dieldrin	0.0150U	0.0300	0.00940	ug/L
Endosulfan I	0.0150U	0.0300	0.00940	ug/L
Endosulfan II	0.0150U	0.0300	0.00940	ug/L
Endosulfan sulfate	0.0150U	0.0300	0.00940	ug/L
Endrin	0.0150U	0.0300	0.00940	ug/L
Endrin aldehyde	0.0150U	0.0300	0.00940	ug/L
Endrin ketone	0.0150U	0.0300	0.00940	ug/L
gamma-BHC (Lindane)	0.0150U	0.0300	0.00940	ug/L
gamma-Chlordane	0.0150U	0.0300	0.00940	ug/L
Heptachlor	0.0150U	0.0300	0.00940	ug/L
Heptachlor epoxide	0.0150U	0.0300	0.00940	ug/L
Methoxychlor	0.0150U	0.0300	0.00940	ug/L
Toxaphene	1.00U	2.00	0.620	ug/L
Surrogates				
2-Fluorobiphenyl (surr)	80.9	53-106		%
Terphenyl-d14 (surr)	89.3	58-132		%

Batch Information

Analytical Batch: XMS9645
Analytical Method: 8270D SIM (PEST)
Instrument: HP 6890 Series II MS2 SVOA
Analyst: DSH
Analytical Date/Time: 9/27/2016 4:55:00PM

Prep Batch: XXX36385
Prep Method: SW3520C
Prep Date/Time: 9/26/2016 9:01:30AM
Prep Initial Wt./Vol.: 1000 mL
Prep Extract Vol: 1 mL

Print Date: 10/15/2016 10:44:21AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [XXX36385]
Blank Spike Lab ID: 1354416
Date Analyzed: 09/27/2016 17:11

Spike Duplicate ID: LCSD for HBN 1165651 [XXX36385]
Spike Duplicate Lab ID: 1354417
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165651001, 1165651002

Results by **8270D SIM (PEST)**

	Blank Spike (ug/L)				Spike Duplicate (ug/L)					
Parameter	Spike	Result	Rec (%)		Spike	Result	Rec (%)		CL	RPD (%)	RPD CL
4,4'-DDD	0.25	0.216	87		0.25	0.216	86		(56-143)	0.30	(< 20)
4,4'-DDE	0.25	0.178	71		0.25	0.190	76		(57-135)	6.30	(< 20)
4,4'-DDT	0.25	0.238	95		0.25	0.236	95		(51-143)	0.88	(< 20)
Aldrin	0.25	0.150	60		0.25	0.168	67		(45-134)	11.60	(< 20)
alpha-BHC	0.25	0.161	64		0.25	0.177	71		(54-138)	9.70	(< 20)
alpha-Chlordane	0.25	0.179	72		0.25	0.192	77		(60-129)	7.10	(< 20)
beta-BHC	0.25	0.171	68		0.25	0.189	76		(56-136)	10.40	(< 20)
delta-BHC	0.25	0.159	64		0.25	0.175	70		(52-142)	9.50	(< 20)
Dieldrin	0.25	0.170	68		0.25	0.182	73		(60-136)	6.80	(< 20)
Endosulfan I	0.25	0.125	50	*	0.25	0.141	56	*	(62-126)	11.30	(< 20)
Endosulfan II	0.25	0.167	67		0.25	0.164	65		(52-135)	1.90	(< 20)
Endosulfan sulfate	0.25	0.240	96		0.25	0.233	93		(62-133)	2.70	(< 20)
Endrin	0.25	0.213	85		0.25	0.218	87		(60-138)	2.30	(< 20)
Endrin aldehyde	0.25	0.208	83		0.25	0.213	85		(51-132)	2.70	(< 20)
Endrin ketone	0.25	0.240	96		0.25	0.233	93		(58-134)	3.10	(< 20)
gamma-BHC (Lindane)	0.25	0.160	64		0.25	0.177	71		(59-134)	10.10	(< 20)
gamma-Chlordane	0.25	0.172	69		0.25	0.195	78		(56-136)	12.20	(< 20)
Heptachlor	0.25	0.159	64		0.25	0.178	71		(54-130)	11.40	(< 20)
Heptachlor epoxide	0.25	0.172	69		0.25	0.193	77		(61-133)	11.70	(< 20)
Methoxychlor	0.25	0.274	110		0.25	0.258	103		(54-145)	6.40	(< 20)
Surrogates											
2-Fluorobiphenyl (surr)	0.5	65.3	65		0.5	70.9	71		(53-106)	8.30	
Terphenyl-d14 (surr)	0.5	79.8	80		0.5	79.6	80		(58-132)	0.26	

Batch Information

Analytical Batch: **XMS9645**
Analytical Method: **8270D SIM (PEST)**
Instrument: **HP 6890 Series II MS2 SVOA**
Analyst: **DSH**

Prep Batch: **XXX36385**
Prep Method: **SW3520C**
Prep Date/Time: **09/26/2016 09:01**
Spike Init Wt./Vol.: 0.25 ug/L Extract Vol: 1 mL
Dupe Init Wt./Vol.: 0.25 ug/L Extract Vol: 1 mL

Print Date: 10/15/2016 10:44:23AM

Matrix Spike Summary

Original Sample ID: 1165622001
MS Sample ID: 1354482 MS
MSD Sample ID: 1354483 MSD

QC for Samples: 1165651001, 1165651002

Analysis Date: 09/28/2016 15:28
Analysis Date: 09/28/2016 15:44
Analysis Date: 09/28/2016 16:01
Matrix: Water (Surface, Eff., Ground)

Results by **8270D SIM (PEST)**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)						
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)		CL	RPD (%)	RPD CL
4,4'-DDD	0.0155U	0.269	.273	102	0.255	0.233	91		56-143	16.10	(< 20)
4,4'-DDE	0.0155U	0.269	.203	75	0.255	0.172	67		57-135	16.60	(< 20)
4,4'-DDT	0.0155U	0.269	.179	67	0.255	0.158	62		51-143	13.00	(< 20)
Aldrin	0.0155U	0.269	.158	59	0.255	0.145	57		45-134	9.00	(< 20)
alpha-BHC	0.0155U	0.269	.195	73	0.255	0.168	66		54-138	14.90	(< 20)
alpha-Chlordane	0.0155U	0.269	.223	83	0.255	0.189	74		60-129	16.50	(< 20)
beta-BHC	0.0155U	0.269	.249	93	0.255	0.211	83		56-136	16.60	(< 20)
delta-BHC	0.0155U	0.269	.219	81	0.255	0.184	72		52-142	17.10	(< 20)
Dieldrin	0.0155U	0.269	.223	83	0.255	0.183	72		60-136	19.60	(< 20)
Endosulfan I	0.0155U	0.269	.168	63	0.255	0.145	57	*	62-126	15.00	(< 20)
Endosulfan II	0.0155U	0.269	.196	73	0.255	0.165	65		52-135	16.90	(< 20)
Endosulfan sulfate	0.0155U	0.269	.274	102	0.255	0.232	91		62-133	16.40	(< 20)
Endrin	0.0155U	0.269	.29	108	0.255	0.238	93		60-138	19.70	(< 20)
Endrin aldehyde	0.0155U	0.269	.25	93	0.255	0.208	82		51-132	18.40	(< 20)
Endrin ketone	0.0155U	0.269	.26	97	0.255	0.224	88		58-134	14.80	(< 20)
gamma-BHC (Lindane)	0.0155U	0.269	.187	70	0.255	0.167	66		59-134	11.10	(< 20)
gamma-Chlordane	0.0155U	0.269	.21	78	0.255	0.183	72		56-136	13.60	(< 20)
Heptachlor	0.0155U	0.269	.18	67	0.255	0.163	64		54-130	10.40	(< 20)
Heptachlor epoxide	0.0155U	0.269	.22	82	0.255	0.193	76		61-133	13.30	(< 20)
Methoxychlor	0.0155U	0.269	.229	85	0.255	0.199	78		54-145	14.20	(< 20)
Surrogates											
2-Fluorobiphenyl (surr)		0.538	.304	57	0.510	0.264	52	*	53-106	14.00	
Terphenyl-d14 (surr)		0.538	.44	82	0.510	0.375	73		58-132	16.00	

Batch Information

Analytical Batch: XMS9648
Analytical Method: 8270D SIM (PEST)
Instrument: HP 6890 Series II MS2 SVOA
Analyst: DSH
Analytical Date/Time: 9/28/2016 3:44:00PM

Prep Batch: XXX36385
Prep Method: 3520 Liquid/Liquid Ext for Pest 8270 SIM
Prep Date/Time: 9/26/2016 9:01:30AM
Prep Initial Wt./Vol.: 930.00mL
Prep Extract Vol: 1.00mL

Print Date: 10/15/2016 10:44:25AM

Method Blank

Blank ID: MB for HBN 1744592 [XXX/36450]
Blank Lab ID: 1356225

QC for Samples:
1165651001, 1165651002

Matrix: Water (Surface, Eff., Ground)

Results by **AK102**

Parameter	Results	LOQ/CL	DL	Units
Diesel Range Organics	0.300U	0.600	0.180	mg/L
Surrogates				
5a Androstane (surr)	110	60-120		%

Batch Information

Analytical Batch: XFC12916
Analytical Method: AK102
Instrument: Agilent 7890B R
Analyst: CRA
Analytical Date/Time: 10/5/2016 11:02:00PM

Prep Batch: XXX36450
Prep Method: SW3520C
Prep Date/Time: 10/4/2016 9:17:07AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/15/2016 10:44:26AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [VVVX6259]
Blank Spike Lab ID: 1X56336
Da4e t nalAyez: 19d95d8916 3X:3X

%C for Sa) ple7: 1165651991W1165651993

Spike D0pli/ a4e ID: LCSD for HBN 1165651 [VVVX6259]
Spike D0pli/ a4e Lab ID: 1X5633u
Ra4is: Ma4er xS0rfa/ eW(ff,WEro0nz.

c e70l47 bA **AK102**

	Blank Spike x) mdL.			Spike D0pli/ a4e x) mdL.					
Gara) e4er	Spike	c e70l4	c e/ xP .	Spike	c e70l4	c e/ xP .	CL	c GD xP .	c GD CL
Die7el c anme g rmani/ 7	39	39,6	19X	39	39,9	199	xu5Cl35 .	3,u9	xO39 .
Surrogates									
5a t nzro74ane x70rr.	9,2	116	116	9,2	112	112	x69Cl39 .	1,69	

Batch Information

t nalA4/ al Ba4' - : **XFC12916**
t nalA4/ al Re4 oz: **AK102**
In74-0) en4 **Agilent 7890B R**
t nalA74 **CRA**

Grep Ba4' - : **XXX36450**
Grep Re4 oz: **SW3520C**
Grep Da4ed-i) e: **10/04/2016 09:17**
Spike Ini4M4dhol,: 39) mdL (s4ra/ 4hol: 1) L
D0pe Ini4M4dhol,: 39) mdL (s4ra/ 4hol: 1) L

Grin4Da4e: 19d15d8916 19:22:31t R

Method Blank

Blank ID: MB for HBN 1744592 [XXX/36450]
Blank Lab ID: 1356225

QC for Samples:
1165651001, 1165651002

Matrix: Water (Surface, Eff., Ground)

Results by **AK103**

Parameter	Results	LOQ/CL	DL	Units
Residual Range Organics	0.250U	0.500	0.150	mg/L
Surrogates				
n-Triacontane-d62 (surr)	106	60-120		-

Batch Information

Analytical Batch: XFC12916
Analytical Method: AK103
Instrument: Agilent 7T90B R
Analyst: CRA
Analytical Date/Time: 10/5/2016 11:02:00PM

Prep Batch: XXX36450
Prep Method: SW3520C
Prep Date/Time: 10/4/2016 9:17:07AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/15/2016 10:44:31AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [VVVX6259]
Blank Spike Lab ID: 1X56336
Da4e t nalAyez: 19d95d8916 3X:3X

%C for Sa) ple7: 1165651991W1165651993

Spike D0pli/ a4e ID: LCSD for HBN 1165651 [VVVX6259]
Spike D0pli/ a4e Lab ID: 1X5633u
Ra4is: Ma4er xS0rfa/ eW(ff,WEro0nz.

c e70l47 bA **AK102**

Gara) e4er	Blank Spike x) mdL. Spike	c e70l4	c e/ xP .	Spike D0pli/ a4e x) mdL. Spike	c e70l4	c e/ xP .	CL	c GD xP .	c GD CL
c e7iz0al c anme g rmani/ 7	39	1Q<	QQ	39	1<,X	Q3	x69Cl39 .	u,u9	x- 39 .
Surrogates									
n0ria/ on4aneG263 x70rr.	9,2	112	112	9,2	19X	19X	x69Cl39 .	19,29	

Batch Information

t nalA4/ al Ba4 T: **XFC19617**
t nalA4/ al Re4Toz: **AK102**
In74-0) en4 **Agilent 8R60B 3**
t nalA74 **C3 A**

Grep Ba4 T: **XXX27450**
Grep Re4Toz: **SW2590C**
Grep Da4ed hi) e: **10/04/9017 06:18**
Spike Ini4M4d/ ol,: 39) mdL (s4ra/ 4v ol: 1) L
D0pe Ini4M4d/ ol,: 39) mdL (s4ra/ 4v ol: 1) L

Method Blank

Blank ID: MB for HBN 1744797 [XXX/36469]
Blank Lab ID: 1356891

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1165651001, 1165651002

Results by **SW8082A**

Parameter	Results	LOQ/CL	DL	Units
Aroclor-1016	0.200U	0.400	0.120	ug/L
Aroclor-1221	0.500U	1.00	0.310	ug/L
Aroclor-1232	0.0500U	0.100	0.0310	ug/L
Aroclor-1242	0.0500U	0.100	0.0310	ug/L
Aroclor-1248	0.0500U	0.100	0.0310	ug/L
Aroclor-1254	0.0500U	0.100	0.0310	ug/L
Aroclor-1260	0.0500U	0.100	0.0310	ug/L
Surrogates				
Decachlorobiphenyl (surr)	99	40-135		%

Batch Information

Analytical Batch: XGC9551
Analytical Method: SW8082A
Instrument: Agilent 7890B GC ECD SW R
Analyst: S.G
Analytical Date/Time: 10/6/2016 11:10:00PM

Prep Batch: XXX36469
Prep Method: SW3520C
Prep Date/Time: 10/6/2016 9:52:52AM
Prep Initial Wt./Vol.: 1000 mL
Prep Extract Vol: 1 mL

Print Date: 10/15/2016 10:44:34AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165651 [WWWX6369]
Blank Spike Lab ID: 1X56490
Date Analyzed: 1/ 2/ 62 0/ 16 0X:0/

Spike Duplicate ID: LCSD for HBN 1165651 [WWWX6369]
Spike Duplicate Lab ID: 1X5649X
Matrix: (ater ,SurfaceE. ffG) roundP

- C for Sa%ples: 1165651/ / 1E1165651/ / 0

Results by **SW8082A**

	Blank Spike ,uQ2LP			Spike Duplicate ,uQ2LP					
mara%eter	Spike	Result	Rec ,g P	Spike	Result	Rec ,g P	CL	RmD ,g P	RmD CL
Aroclor71/ 16	1	/ G43/	43	1	/ G91/	91	, 367109 P	4G/	,< X/ P
Aroclor7106/	1	1G5	1/ 5	1	1G3	1/ 3	, 3571X3 P	/ G96	,< X/ P
Surrogates									
Decac8lorobip8enyl ,surrP	1G/	95	95	1G/	95	95	, 3/ 71X5 P	/ G/	

Batch Information

Analytical Batc8: **XGC9551**
Analytical Met8od: **SW8082A**
Instru%ent: **Agilent 7890B GC ECD SW R**
Analyst: **S.G**

mrep Batc8: **XXX36469**
mrep Met8od: **SW3520C**
mrep Date2ni%e: **10/06/2016 09:52**
Spike Init (tG2TolG 1 uQ2L . xtract Tol: 1 %L
Dupe Init (tG2TolG 1 uQ2L . xtract Tol: 1 %L

mrint Date: 1/ 2152 0/ 16 1/ :33:X6AM

Matrix Spike Summary

Original Sample ID: 1165622001
MS Sample ID: 1356939 MS
MSD Sample ID: 1356940 MSD

QC for Samples: 1165651001, 1165651002

Analysis Date: 10/06/2016 23:51
Analysis Date: 10/07/2016 0:11
Analysis Date: 10/07/2016 0:22
Matrix: Water (Surface, Eff., Ground)

Results by **SW8082A**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Aroclor-1016	0.204U	1.02	.908	89	1.02	0.704	69	46-129	25.30	(< 30)
Aroclor-1260	0.0510U	1.02	1.01	99	1.02	0.980	96	45-134	3.08	(< 30)
Surrogates										
Decachlorobiphenyl (surr)		1.02	0.959	94	1.02	0.939	92	40-135	2.15	

Batch Information

Analytical Batch: XGC9551
Analytical Method: SW8082A
Instrument: Agilent 7890B GC ECD SW R
Analyst: S.G
Analytical Date/Time: 10/7/2016 12:11:00AM

Prep Batch: XXX36469
Prep Method: Liquid/Liquid Extraction for SW8080 PCB
Prep Date/Time: 10/6/2016 9:52:52AM
Prep Initial Wt./Vol.: 980.00mL
Prep Extract Vol: 1.00mL

Print Date: 10/15/2016 10:44:37AM

CHAIN OF CUSTODY RECORD

SGS Environmental Services Inc.

1165651

E-1059

CLIENT: SLR Consulting

CONTACT: Jason Gray, SLR PHONE NO: (office) 264-6965

PROJECT: Name: Kenai Wells, Event 2 PROJECT No. 105.00148.16001

REPORTS TO: Jason Gray, SLR email jgray@slrconsulting.com

INVOICE TO: Bret Berglund, SLR QUOTE #: 332060
2700 Gambell Street Anchorage, Alaska 99503

SGS Reference #:

page 1 of 1
COOLER ID 17

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	SAMPLE TYPE C = COMP G = GRAB	EPA 8082 Polychlorinated biphenyls (Preserv Used: None)	EPA 8270D - SIM - Pesticides (None)	AK101 -GRO (HCl)
1 A-G	APT-2-0916	09/21/16	14:00	GW	7		X	X	X
2 A-G	MW-138B-0916	09/21/16	10:25	GW	7		X	X	X
3 A-C	TB-09-0916	09/21/16	10:25	TB	3				X

Collected/Relinquished By: (1) Jason Gray SLR	Date 9-22-16	Time 08:00	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 9/22/16	Time 13:34	Received For Laboratory By:

Shipping Carrier:
Shipping Ticket No:
Special Deliverable Req: **Level II**
EDD: PDF, Access

Samples Received Cold? YES NO
Temperature °C: 2.3
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Requested Turnaround Time and-or Special Instructions:

- 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
- 3180 Peger Road **Fairbanks, AK 99701** Tel: (907) 474-8656 Fax: (907) 474-9685
- 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

Confidential
LNG Facilities Groundwater Quality
Sampling and Testing Report - Event 2
USAK-FG-GRZZZ-00-002016-004 Rev. 0
16-Dec-16

documents\forms\approved\F016_SGS_COC_electronic.xls
rev.01 01/13/2006

E-1000

SGS

CHAIN OF CUSTODY RECORD

SGS Environmental Services Inc.

1165651

CLIENT: SLR Consulting
CONTACT: Jason Gray, SLR PHONE NO: (office) 264-6965
PROJECT: Name Kenai Wells, Event 2 PROJECT No. 105.00148.16001
REPORTS TO: Jason Gray, SLR email jgray@slrconsulting.com
INVOICE TO: Bret Berglund, SLR QUOTE #: 332060
2700 Gambell Street Anchorage, Alaska 99503

SGS Reference #:

page 1 of 1
COOLER ID 18

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	Preserv Used / SAMPLE TYPE C = COMP G = GRAB	SM21 4500NH3-F Ammonia as Nitrogen (H2SO4)	SM21 4500N D Total Kjeldahl Nitrogen (TKN) (H2SO4)	SM21 4500-PE/PB - Total Phosphorous (H2SO4)	EPA 410.4 - Chemical Oxygen Demand (COD) (H2SO4)	SM21 5310B - Dissolved Organic Carbon (DOC) (HCl)	SM 21 5310B Total Organic Carbon (HCl)	SM21 2540B - Total Residue (None)	SM21 4500P-E Ortho-phosphate (None)	E200.8 - Dissolved Metals SM21 2340B - Hardness (HNO3)	E200.8 - Total Metals (HNO3)	AK102/AK103 - DRO/RRO (HCl)	SM21 2540D - TSS (None)	E300.0 - Cl, Fl,SO4 SM21 4500NO3-F - Nitrate, (None)	SM21 2540C TDS, SM21 2320B Alkalinity, SM2130B Turbidity, SM21 4500H+B pH (None)
1 A-Q	APT-2-0916	09/21/16	14:00	GW	12		X	X	X	X	X	X	X	X	X	X	X	X	X	X
2 H-Q	MW-138B-0916	09/21/16	10:25	GW	12		X	X	X	X	X	X	X	X	X	X	X	X	X	X
3 A-B 4																				
4 A-B 5																				

Collected/Relinquished By: (1)	Date	Time	Received By:
[signature]	9-22-16	08:00	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	9/22/16	13:34	Received For Laboratory By: [signature]

Shipping Carrier:
Shipping Ticket No:
Special Deliverable Req: **Level II**
EDD: PDF, Access

Samples Received Cold? YES NO
Temperature °C: 2.1 610
Chain of Custody Seal: (Circle)
(INTACT) BROKEN ABSENT

Requested Turnaround Time and-or Special Instructions:

Total and Dissolved Metals:
As, Ba, Be, Ca, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Na, Ni, Sb, Se, Tl, V, Zn

200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
3180 Peger Road **Fairbanks, AK 99701** Tel: (907) 474-8656 Fax: (907) 474-9685
5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

documents\forms\approved\F016_SGS_COC_electronic.xls
rev.01 01/13/2006

AIRPORT OF DEPARTURE ENA 09/22/16 08:39 090363 808 7145270 Frgt

NOT AIR WAYBILL (AIR CONSIGNMENT NOTE)

Ravn ALASKA
4700 Old International Airport Road
Anchorage, Alaska 99502

SHIPPER'S NAME, ADDRESS & PHONE
SLR JASON GRAY
KENAI AK 99611 9078626547

SHIPPER'S ACCOUNT NUMBER
H7752

It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT AS LISTED IN THE COMPANIES TARIFFS. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.

Received in Good Condition
Place Date
TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTION HEREON

CONSIGNEE'S NAME, ADDRESS & PHONE
SGS LABS
200 WEST POTTER RD
ANCHORAGE AK 99518 9075622343

CONSIGNEE'S ACCOUNT NUMBER

ISSUING CARRIER'S AGENT NAME, CITY & PHONE

ALSO NOTIFY NAME & ADDRESS

AGENT'S IATA CODE

ACCOUNT NO.

ACCOUNTING INFORMATION 7148627
Acc#: H7752 SLR INTERNATIONAL CORP.

AIRPORT OF DEPARTURE
Kenai

Declared Value $ 0.00

Insured Amount $ 0.00

BY FIRST

AIRPORT OF DESTINATION
Anchorage

COMMENTS
po 105.00148.16001

No. Of Pieces Rcp	Gross Weight	kg lb	Rate Class	Commodity Item No.	Chargeable Weight	Rate/Charge	Total	Nature and Quantity of Goods
2	85	L	S		85	$0.37	$31.45	lab samples
2	85						$31.45	

1165651

PREPAID $31.45
WEIGHT CHARGE
COLLECT
VALUATION CHARGE $0.00
FEDERAL EXCISE TAX $1.97
TOTAL OTHER CHARGES DUE AGENT $0.00
TOTAL OTHER CHARGES DUE CARRIER $0.00
TOTAL PREPAID $33.42
TOTAL COLLECT

OTHER CHARGES AND DESCRIPTION
AMOUNT | DESCRIPTION

HAZMAT
No

Shipper certifies that the particulars on the face hereof are correct, agrees to the CONDITIONS AS LISTED IN THE COMPANIES TARIFFS, accepts that carrier's liability is limited as stated in the companies tariffs and accepts such value unless a higher value for carriage is declared on the face hereof subject to an additional charge and that insofar as any part of the consignment contains restricted articles, such part is described by name and is in proper condition for carriage by air according to applicable national governmental regulations, and for international shipments, the current International Air Transport Association's Restricted Articles Regulations.

Paid By Shipper

Printed Name and Title

Signature

STATION NUMBERS
ANCHORAGE - (907) 243-2761
ANIAK - (907) 675-4572
BARROW - (907) 852-5300
BETHEL -(907) 543-3825
DEADHORSE - (907) 659-9222
FAIRBANKS - (907) 450-7250
GALENA -(907) 656-1875
KOTZEBUE - (907) 442-3020
NOME - (907) 443-7595
ST. MARYS - (907) 438-2247
UNALAKLEET - (907) 624-3595

Printed at 09:19:37 on 9/22/2016 at ENA-FRTMGR 10.106.2.15

Consignee Copy

Alert Expeditors Inc. #368692

Citywide Delivery • 440-3351
8421 Flamingo Drive • Anchorage, Alaska 99502

Date 9/27/16

From SLR

To SGS

Collect ☐	Prepay ☐ Account ☐	Advance Charges ☐
Job #	PO#	

@ 85 #

Kain

714 5270

1165651

Shipped Signature

Total Charge

Received By:

SGS

e-SAMPLE RECEIPT FORM

1165651

Review Criteria	Y/N (yes/no)	Exceptions Noted below
		☐ exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	Y	1F-1B
COC accompanied samples?	Y	
☐ **exemption permitted if chilled & collected <8hrs ago or chlling not required (i.e., waste, oil)		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Y	Cooler ID: 17 @ 2.3 °C Therm ID: D10
	Y	Cooler ID: 18 @ 2.1 °C Therm ID: D10
	Y	Cooler ID: @ °C Therm ID:
	Y	Cooler ID: @ °C Therm ID:
	Y	Cooler ID: @ °C Therm ID:
*If >6°C, were samples collected <8 hours ago?	Y	
If <0°C, were sample containers ice free?	Y	
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
		Note: Refer to form F-083 "Sample Guide" for hold times.
Were samples received within hold time?	Y	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Y	
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous?	Y	
		☐ ***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	Y	
IF APPLICABLE		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	Y	
Were all VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	Y	
Were all soil VOAs field extracted with MeOH+BFB?	Y	

Note to Client: Any "no" answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1165651001-A	No Preservative Required	OK			
1165651001-B	No Preservative Required	OK			
1165651001-C	No Preservative Required	OK			
1165651001-D	No Preservative Required	OK			
1165651001-E	HCL to pH < 2	OK			
1165651001-F	HCL to pH < 2	OK			
1165651001-G	HCL to pH < 2	OK			
1165651001-H	H2SO4 to pH < 2	OK			
1165651001-I	HCL to pH < 2	OK			
1165651001-J	No Preservative Required	OK			
1165651001-K	No Preservative Required	OK			
1165651001-L	HNO3 to pH < 2	OK			
1165651001-M	HCL to pH < 2	OK			
1165651001-N	HCL to pH < 2	OK			
1165651001-O	No Preservative Required	OK			
1165651001-P	No Preservative Required	OK			
1165651001-Q	No Preservative Required	OK			
1165651002-A	No Preservative Required	OK			
1165651002-B	No Preservative Required	OK			
1165651002-C	No Preservative Required	OK			
1165651002-D	No Preservative Required	OK			
1165651002-E	HCL to pH < 2	OK			
1165651002-F	HCL to pH < 2	OK			
1165651002-G	HCL to pH < 2	OK			
1165651002-H	H2SO4 to pH < 2	OK			
1165651002-I	HCL to pH < 2	OK			
1165651002-J	No Preservative Required	OK			
1165651002-K	No Preservative Required	OK			
1165651002-L	HNO3 to pH < 2	OK			
1165651002-M	HCL to pH < 2	OK			
1165651002-N	HCL to pH < 2	OK			
1165651002-O	No Preservative Required	OK			
1165651002-P	No Preservative Required	OK			
1165651002-Q	No Preservative Required	OK			
1165651003-A	HCL to pH < 2	OK			
1165651003-B	HCL to pH < 2	OK			
1165651003-C	HCL to pH < 2	OK			
1165651004-A	HCL to pH < 2	OK			
1165651004-B	HNO3 to pH < 2	OK			
1165651005-A	HCL to pH < 2	OK			
1165651005-B	HNO3 to pH < 2	OK			

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM- The container was received damaged.
FR- The container was received frozen and not usable for Bacteria or BOD analyses.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

Laboratory Report of Analysis

To: SLR Alaska-Anchorage
2700 Gambell St Suite 200
Anchorage, AK 99503
(907)222-1112

Report Number: **1165672**

Client Project: **Kenai Wells Event 2**

Dear Jason Gray,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

SGS North America Inc.
Environmental Services – Alaska Division
Project Manager

Justin Nelson
2016.10.15
11:04:08 -08'00'

Justin Nelson
Project Manager
Justin.Nelson@sgs.com

Date

Print Date: 10/15/2016 10:46:09AM

Case Narrative

SGS Client: **SLR Alaska-Anchorage**
SGS Project: **1165672**
Project Name/Site: **Kenai Wells Event 2**
Project Contact: **Jason Gray**

Refer to sample receipt form for information on sample condition.

1165654008(1355022DUP) (1354848) DUP

2540D - Total Suspended Solids - Sample duplicate RPD was outside of acceptance limits. Refer to LCS/LCSD RPD for batch precision.

1165515002(1354283MS) (1354284) MS

300.0 - Anions - MS recovery for sulfate is outside of QC criteria (114%). Refer to LCS for accuracy requirements.

1165622001(1355996MS) (1355997) MS

200.8LL - Metals MS recoveries for aluminum (419%), calcium (68.1%), and zinc (49.3%) do not meet QC criteria. The sample concentration is 4 times greater than the spike level.

1165622010(1356000MS) (1356001) MS

200.8LL - Metals MS recovery for calcium (57.2%) does not meet QC criteria. The sample concentration is 4 times greater than the spike level.
200.8LL - Metals MS recovery for aluminum (136%) does not meet QC criteria. Post digestion spike was successful.

1165515002(1354283MSD) (1354285) MSD

300.0 - Anions - MSD recovery for sulfate is outside of QC criteria (114%). Refer to LCS for accuracy requirements.

1165622001(1355996MSD) (1355998) MSD

200.8LL - Metals MSD recoveries for aluminum (316%), calcium (39.5%), zinc (48.1%), and silicon (65.6%) do not meet QC criteria. The sample concentration is 4 times greater than the spike level.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Member of SGS Group

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & UST-005 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8021B, 8082A, 8260B, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
D	The analyte concentration is the result of a dilution.
DF	Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
F	Indicates value that is greater than or equal to the DL
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
JL	The analyte was positively identified, but the quantitation is a low estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
M	A matrix effect was present.
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
Q	QC parameter out of acceptance range.
R	Rejected
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.
All DRO/RRO analyses are integrated per SOP.

Print Date: 10/15/2016 10:46:12AM

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
MW-39A-0916	1165672001	09/19/2016	09/23/2016	Water (Surface, Eff., Ground)
MW-39B-0916	1165672002	09/19/2016	09/23/2016	Water (Surface, Eff., Ground)
MW-62A-0916	1165672003	09/19/2016	09/23/2016	Water (Surface, Eff., Ground)
APT-1-0916	1165672004	09/20/2016	09/23/2016	Water (Surface, Eff., Ground)
APT-1-0916 MS	1165672005	09/20/2016	09/23/2016	Water (Surface, Eff., Ground)
APT-1-0916 MSD	1165672006	09/20/2016	09/23/2016	Water (Surface, Eff., Ground)
APT-9-0916	1165672007	09/20/2016	09/23/2016	Water (Surface, Eff., Ground)
APT-3-0916	1165672008	09/20/2016	09/23/2016	Water (Surface, Eff., Ground)
APT-2-0916	1165672009	09/21/2016	09/23/2016	Water (Surface, Eff., Ground)
MW-138B-0916	1165672010	09/21/2016	09/23/2016	Water (Surface, Eff., Ground)
MW-91A-0916	1165672011	09/22/2016	09/23/2016	Water (Surface, Eff., Ground)
TB-10-0916	1165672012	09/19/2016	09/23/2016	Water (Surface, Eff., Ground)
OW-1-0916	1165672013	09/22/2016	09/23/2016	Water (Surface, Eff., Ground)
OW-2-0916	1165672014	09/22/2016	09/23/2016	Water (Surface, Eff., Ground)
OW-3-0916	1165672015	09/22/2016	09/23/2016	Water (Surface, Eff., Ground)
OW-4-0916	1165672016	09/22/2016	09/23/2016	Water (Surface, Eff., Ground)
TB-11-0916	1165672017	09/22/2016	09/23/2016	Water (Surface, Eff., Ground)
MW-91A-0916	1165672018	09/22/2016	09/23/2016	Water (Surface, Eff., Ground)
MW-39A-0916	1165672019	09/19/2016	09/23/2016	Water (Surface, Eff., Ground)
MW-39B-0916	1165672020	09/19/2016	09/23/2016	Water (Surface, Eff., Ground)
MW-62A-0916	1165672021	09/19/2016	09/23/2016	Water (Surface, Eff., Ground)
APT-1-0916	1165672022	09/20/2016	09/23/2016	Water (Surface, Eff., Ground)
APT-1-0916 MS	1165672023	09/20/2016	09/23/2016	Water (Surface, Eff., Ground)
APT-1-0916 MSD	1165672024	09/20/2016	09/23/2016	Water (Surface, Eff., Ground)
APT-9-0916	1165672025	09/20/2016	09/23/2016	Water (Surface, Eff., Ground)
APT-3-0916	1165672026	09/20/2016	09/23/2016	Water (Surface, Eff., Ground)
APT-2-0916	1165672027	09/21/2016	09/23/2016	Water (Surface, Eff., Ground)
MW-138B-0916	1165672028	09/21/2016	09/23/2016	Water (Surface, Eff., Ground)

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Member of SGS Group

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix

Method	Method Description
SM21 2320B	Alkalinity as CaCO3 QC
SM21 2340B	Dissolved Hardness as CaCO3 ICP-MS-LowLv
EPA 1631 E	Dissolved Low Level Mercury EPA 1631
AK102	DRO/RRO Low Volume Water
AK103	DRO/RRO Low Volume Water
AK101	Gasoline Range Organics (W)
EPA 300.0	Ion Chromatographic Analysis
EPA 300.0	Ion Chromatographic Analysis (W)
EPA 1631 E	Low Level Mercury EPA 1631
200.8 Low Level	Metals in Water by 200.8 ICP-MS LL
200.8 Low Level	Metals in Water by 200.8 ICP-MS LL DIS
SM21 4500-H B	pH Analysis
SM21 2540C	Total Dissolved Solids SM18 2540C
SM21 2540D	Total Suspended Solids SM20 2540D
SM21 2130B	Turbidity Analysis

Print Date: 10/15/2016 10:46:14AM

Detectable Results Summary

Client Sample ID: **MW-39A-0916**
Lab Sample ID: 1165672001
Metals Department

Parameter	Result	Units
Mercury	1.15	ng/L

Client Sample ID: **MW-39B-0916**
Lab Sample ID: 1165672002
Metals Department

Parameter	Result	Units
Mercury	0.708J	ng/L

Client Sample ID: **MW-62A-0916**
Lab Sample ID: 1165672003
Metals Department

Parameter	Result	Units
Mercury	1.72	ng/L

Client Sample ID: **APT-1-0916**
Lab Sample ID: 1165672004
Metals Department

Parameter	Result	Units
Mercury	0.704J	ng/L

Client Sample ID: **APT-9-0916**
Lab Sample ID: 1165672007
Metals Department

Parameter	Result	Units
Mercury	0.832J	ng/L

Client Sample ID: **APT-3-0916**
Lab Sample ID: 1165672008
Metals Department

Parameter	Result	Units
Mercury	25.8	ng/L

Client Sample ID: **APT-2-0916**
Lab Sample ID: 1165672009
Metals Department

Parameter	Result	Units
Mercury	1.00	ng/L

Client Sample ID: **MW-138B-0916**
Lab Sample ID: 1165672010
Metals Department

Parameter	Result	Units
Mercury	10.4	ng/L

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Member of SGS Group

Detectable Results Summary

Client Sample ID: **MW-91A-0916**
Lab Sample ID: 1165672011

	Parameter	Result	Units
Metals by ICP/MS	Aluminum	937	ug/L
	Antimony	0.129	ug/L
	Arsenic	8.89	ug/L
	Barium	33.5	ug/L
	Beryllium	0.0295J	ug/L
	Boron	20.7	ug/L
	Cadmium	0.0270J	ug/L
	Calcium	29900	ug/L
	Chromium	12.4	ug/L
	Cobalt	0.754	ug/L
	Copper	10.6	ug/L
	Iron	3010	ug/L
	Lead	0.392	ug/L
	Magnesium	6870	ug/L
	Manganese	1050	ug/L
	Molybdenum	2.17	ug/L
	Nickel	8.99	ug/L
	Potassium	3720	ug/L
	Sodium	6620	ug/L
	Thallium	0.00820J	ug/L
	Tin	0.133J	ug/L
	Vanadium	2.66	ug/L
	Zinc	9.25	ug/L
Metals Department	Mercury	1.82	ng/L
Waters Department	Alkalinity	100	mg/L
	Chloride	10.1	mg/L
	Fluoride	0.131J	mg/L
	pH	7.80	pH units
	Sulfate	8.55	mg/L
	Total Dissolved Solids	159	mg/L
	Total Suspended Solids	60.2	mg/L
	Turbidity	24.0	NTU

Client Sample ID: **OW-1-0916**
Lab Sample ID: 1165672013

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	1.31	ug/L

Client Sample ID: **OW-2-0916**
Lab Sample ID: 1165672014

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	23.7	ug/L

Client Sample ID: **OW-3-0916**
Lab Sample ID: 1165672015

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	3.36	ug/L

Print Date: 10/15/2016 10:46:16AM

Detectable Results Summary

Client Sample ID: **OW-4-0916**
Lab Sample ID: 1165672016
Metals by ICP/MS

Parameter	Result	Units
Arsenic	32.3	ug/L

Client Sample ID: **MW-91A-0916**
Lab Sample ID: 1165672018
Dissolved Metals by ICP/MS

Parameter	Result	Units
Aluminum	1.94J	ug/L
Arsenic	7.84	ug/L
Barium	22.3	ug/L
Boron	19.1	ug/L
Cadmium	0.0184J	ug/L
Calcium	27800	ug/L
Cobalt	0.177	ug/L
Copper	0.389J	ug/L
Hardness as CaCO3	95.6	mg/L
Iron	1730	ug/L
Magnesium	6370	ug/L
Manganese	972	ug/L
Molybdenum	0.908	ug/L
Nickel	2.67	ug/L
Potassium	3520	ug/L
Silicon	16400	ug/L
Sodium	6240	ug/L
Zinc	2.12J	ug/L

Client Sample ID: **MW-39B-0916**
Lab Sample ID: 1165672020
Dissolved Metals

Parameter	Result	Units
Mercury	0.522J	ng/L

Client Sample ID: **APT-3-0916**
Lab Sample ID: 1165672026
Dissolved Metals

Parameter	Result	Units
Mercury	2.41	ng/L

Client Sample ID: **MW-138B-0916**
Lab Sample ID: 1165672028
Dissolved Metals

Parameter	Result	Units
Mercury	0.809J	ng/L

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Member of SGS Group

Results of **MW-39A-0916**

Client Sample ID: **MW-39A-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672001
Lab Project ID: 1165672

Collection Date: 09/19/16 10:31
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	1.15		1.00	0.500	ng/L	1		10/13/16 20:08

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 20:08
Container ID: 1165672001-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-39B-0916**

Client Sample ID: **MW-39B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672002
Lab Project ID: 1165672

Collection Date: 09/19/16 12:42
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	0.708	J	1.00	0.500	ng/L	1		10/13/16 20:13

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 20:13
Container ID: 1165672002-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-62A-0916**

Client Sample ID: **MW-62A-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672003
Lab Project ID: 1165672

Collection Date: 09/19/16 15:03
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	1.72		1.00	0.500	ng/L	1		10/13/16 20:17

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 20:17
Container ID: 1165672003-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **APT-1-0916**

Client Sample ID: **APT-1-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672004
Lab Project ID: 1165672

Collection Date: 09/20/16 10:32
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	0.704	J	1.00	0.500	ng/L	1		10/13/16 20:49

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 20:49
Container ID: 1165672004-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **APT-9-0916**

Client Sample ID: **APT-9-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672007
Lab Project ID: 1165672

Collection Date: 09/20/16 10:32
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	0.832	J	1.00	0.500	ng/L	1		10/13/16 20:22

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 20:22
Container ID: 1165672007-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **APT-3-0916**

Client Sample ID: **APT-3-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672008
Lab Project ID: 1165672

Collection Date: 09/20/16 12:10
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	25.8		1.00	0.500	ng/L	1		10/13/16 20:26

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 20:26
Container ID: 1165672008-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672009
Lab Project ID: 1165672

Collection Date: 09/21/16 14:00
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	1.00		1.00	0.500	ng/L	1		10/13/16 20:31

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 20:31
Container ID: 1165672009-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672010
Lab Project ID: 1165672

Collection Date: 09/21/16 10:25
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	10.4		1.00	0.500	ng/L	1		10/13/16 20:40

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 20:40
Container ID: 1165672010-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-91A-0916**

Client Sample ID: **MW-91A-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672011
Lab Project ID: 1165672

Collection Date: 09/22/16 18:00
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	937		8.00	2.48	ug/L	10		10/08/16 15:28
Antimony	0.129		0.0500	0.0150	ug/L	2.5		10/08/16 14:56
Arsenic	8.89		0.800	0.200	ug/L	2.5		10/08/16 14:56
Barium	33.5		0.250	0.0400	ug/L	2.5		10/08/16 14:56
Beryllium	0.0295	J	0.0500	0.0250	ug/L	2.5		10/08/16 14:56
Bismuth	0.0250	U	0.0500	0.0150	ug/L	2.5		10/08/16 14:56
Boron	20.7		5.00	1.50	ug/L	2.5		10/08/16 14:56
Cadmium	0.0270	J	0.0500	0.0150	ug/L	2.5		10/08/16 14:56
Calcium	29900		50.0	15.0	ug/L	2.5		10/08/16 14:56
Chromium	12.4		0.500	0.150	ug/L	2.5		10/08/16 14:56
Cobalt	0.754		0.0200	0.0100	ug/L	2.5		10/08/16 14:56
Copper	10.6		0.500	0.200	ug/L	2.5		10/08/16 14:56
Iron	3010		20.0	6.20	ug/L	2.5		10/08/16 14:56
Lead	0.392		0.100	0.0310	ug/L	2.5		10/08/16 14:56
Magnesium	6870		20.0	6.20	ug/L	2.5		10/08/16 14:56
Manganese	1050		0.100	0.0310	ug/L	2.5		10/08/16 14:56
Molybdenum	2.17		0.0500	0.0150	ug/L	2.5		10/08/16 14:56
Nickel	8.99		0.620	0.0620	ug/L	2.5		10/08/16 14:56
Potassium	3720		50.0	15.0	ug/L	2.5		10/08/16 14:56
Selenium	0.500	U	1.00	0.310	ug/L	2.5		10/08/16 14:56
Silver	0.0100	U	0.0200	0.00620	ug/L	2.5		10/08/16 14:56
Sodium	6620		100	31.0	ug/L	2.5		10/08/16 14:56
Thallium	0.00820	J	0.0200	0.00620	ug/L	2.5		10/08/16 14:56
Tin	0.133	J	0.200	0.0620	ug/L	2.5		10/08/16 14:56
Vanadium	2.66		1.00	0.310	ug/L	2.5		10/08/16 14:56
Zinc	9.25		3.10	0.400	ug/L	2.5		10/08/16 14:56

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/08/16 15:28
Container ID: 1165672011-B

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-91A-0916**

Client Sample ID: **MW-91A-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672011
Lab Project ID: 1165672

Collection Date: 09/22/16 18:00
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	1.82		1.00	0.500	ng/L	1		10/13/16 20:44

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 20:44
Container ID: 1165672011-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-91A-0916**

Client Sample ID: **MW-91A-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672011
Lab Project ID: 1165672

Collection Date: 09/22/16 18:00
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Semivolatile Organic Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Diesel Range Organics	0.294	U	0.588	0.176	mg/L	1		10/07/16 19:43
Surrogates								
5a Androstane (surr)	73.5		50-150		%	1		10/07/16 19:43

Batch Information

Analytical Batch: XFC12925
Analytical Method: AK102
Analyst: CRA
Analytical Date/Time: 10/07/16 19:43
Container ID: 1165672011-F

Prep Batch: XXX36455
Prep Method: SW3520C
Prep Date/Time: 10/05/16 08:35
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Residual Range Organics	0.245	U	0.490	0.147	mg/L	1		10/07/16 19:43
Surrogates								
n-Triacontane-d62 (surr)	101		50-150		%	1		10/07/16 19:43

Batch Information

Analytical Batch: XFC12925
Analytical Method: AK103
Analyst: CRA
Analytical Date/Time: 10/07/16 19:43
Container ID: 1165672011-F

Prep Batch: XXX36455
Prep Method: SW3520C
Prep Date/Time: 10/05/16 08:35
Prep Initial Wt./Vol.: 255 mL
Prep Extract Vol: 1 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-91A-0916**

Client Sample ID: **MW-91A-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672011
Lab Project ID: 1165672

Collection Date: 09/22/16 18:00
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		09/28/16 18:31
Surrogates								
4-Bromofluorobenzene (surr)	100		50-150		%	1		09/28/16 18:31

Batch Information

Analytical Batch: VFC13333
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 09/28/16 18:31
Container ID: 1165672011-C

Prep Batch: VXX29655
Prep Method: SW5030B
Prep Date/Time: 09/28/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-91A-0916**

Client Sample ID: **MW-91A-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672011
Lab Project ID: 1165672

Collection Date: 09/22/16 18:00
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Chloride	10.1		0.200	0.0620	mg/L	1		09/23/16 21:24
Fluoride	0.131	J	0.200	0.0620	mg/L	1		09/23/16 21:24
Nitrate-N	0.100	U	0.200	0.0620	mg/L	1		09/23/16 21:24
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		09/23/16 21:24
Sulfate	8.55		0.200	0.0620	mg/L	1		09/23/16 21:24

Batch Information

Analytical Batch: WIC5566
Analytical Method: EPA 300.0
Analyst: ACF
Analytical Date/Time: 09/23/16 21:24
Container ID: 1165672011-I

Prep Batch: WXX11632
Prep Method: METHOD
Prep Date/Time: 09/23/16 16:58
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Turbidity	24.0		0.200	0.100	NTU	1		09/23/16 16:03

Batch Information

Analytical Batch: WAT10746
Analytical Method: SM21 2130B
Analyst: KBE
Analytical Date/Time: 09/23/16 16:03
Container ID: 1165672011-J

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Alkalinity	100		10.0	3.10	mg/L	1		09/23/16 23:11

Batch Information

Analytical Batch: WTI4519
Analytical Method: SM21 2320B
Analyst: KBE
Analytical Date/Time: 09/23/16 23:11
Container ID: 1165672011-J

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Dissolved Solids	159		10.0	3.10	mg/L	1		09/27/16 15:46

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-91A-0916**

Client Sample ID: **MW-91A-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672011
Lab Project ID: 1165672

Collection Date: 09/22/16 18:00
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: STS5227
Analytical Method: SM21 2540C
Analyst: LLP
Analytical Date/Time: 09/27/16 15:46
Container ID: 1165672011-J

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	60.2		2.33	0.721	mg/L	1		09/27/16 11:45

Batch Information

Analytical Batch: STS5226
Analytical Method: SM21 2540D
Analyst: LLP
Analytical Date/Time: 09/27/16 11:45
Container ID: 1165672011-H

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
pH	7.80		0.100	0.100	pH units	1		09/23/16 23:11

Batch Information

Analytical Batch: WTI4515
Analytical Method: SM21 4500-H B
Analyst: KBE
Analytical Date/Time: 09/23/16 23:11
Container ID: 1165672011-J

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **TB-10-0916**

Client Sample ID: **TB-10-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672012
Lab Project ID: 1165672

Collection Date: 09/19/16 10:31
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	0.500	U	1.00	0.500	ng/L	1		10/13/16 21:12

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 21:12
Container ID: 1165672012-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **OW-1-0916**

Client Sample ID: **OW-1-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672013
Lab Project ID: 1165672

Collection Date: 09/22/16 11:19
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	1.31		0.800	0.200	ug/L	2.5		10/08/16 14:59

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/08/16 14:59
Container ID: 1165672013-A

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **OW-2-0916**

Client Sample ID: **OW-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672014
Lab Project ID: 1165672

Collection Date: 09/22/16 13:10
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	23.7		0.800	0.200	ug/L	2.5		10/08/16 15:11

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/08/16 15:11
Container ID: 1165672014-A

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **OW-3-0916**

Client Sample ID: **OW-3-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672015
Lab Project ID: 1165672

Collection Date: 09/22/16 14:58
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	3.36		0.800	0.200	ug/L	2.5		10/08/16 15:14

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/08/16 15:14
Container ID: 1165672015-A

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **OW-4-0916**

Client Sample ID: **OW-4-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672016
Lab Project ID: 1165672

Collection Date: 09/22/16 16:06
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	32.3		0.800	0.200	ug/L	2.5		10/08/16 15:16

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/08/16 15:16
Container ID: 1165672016-A

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **TB-11-0916**

Client Sample ID: **TB-11-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672017
Lab Project ID: 1165672

Collection Date: 09/22/16 18:00
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Volatile Fuels**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Gasoline Range Organics	0.0500	U	0.100	0.0310	mg/L	1		09/28/16 10:54
Surrogates								
4-Bromofluorobenzene (surr)	83.2		50-150		%	1		09/28/16 10:54

Batch Information

Analytical Batch: VFC13333
Analytical Method: AK101
Analyst: ST
Analytical Date/Time: 09/28/16 10:54
Container ID: 1165672017-A

Prep Batch: VXX29655
Prep Method: SW5030B
Prep Date/Time: 09/28/16 06:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-91A-0916**

Client Sample ID: **MW-91A-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672018
Lab Project ID: 1165672

Collection Date: 09/22/16 18:00
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	0.500	U	1.00	0.500	ng/L	1		10/13/16 21:16

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 21:16
Container ID: 1165672018-B

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-91A-0916**

Client Sample ID: **MW-91A-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672018
Lab Project ID: 1165672

Collection Date: 09/22/16 18:00
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	1.94	J	2.00	0.620	ug/L	2.5		10/08/16 15:42
Antimony	0.0250	U	0.0500	0.0150	ug/L	2.5		10/08/16 15:42
Arsenic	7.84		0.800	0.200	ug/L	2.5		10/08/16 15:42
Barium	22.3		0.250	0.0400	ug/L	2.5		10/08/16 15:42
Beryllium	0.0250	U	0.0500	0.0250	ug/L	2.5		10/08/16 15:42
Bismuth	0.0250	U	0.0500	0.0150	ug/L	2.5		10/08/16 15:42
Boron	19.1		5.00	1.50	ug/L	2.5		10/08/16 15:42
Cadmium	0.0184	J	0.0500	0.0150	ug/L	2.5		10/08/16 15:42
Calcium	27800		50.0	15.0	ug/L	2.5		10/08/16 15:42
Chromium	0.250	U	0.500	0.150	ug/L	2.5		10/08/16 15:42
Cobalt	0.177		0.0200	0.0100	ug/L	2.5		10/08/16 15:42
Copper	0.389	J	0.500	0.200	ug/L	2.5		10/08/16 15:42
Iron	1730		20.0	6.20	ug/L	2.5		10/08/16 15:42
Lead	0.0500	U	0.100	0.0310	ug/L	2.5		10/08/16 15:42
Magnesium	6370		20.0	6.20	ug/L	2.5		10/08/16 15:42
Manganese	972		0.100	0.0310	ug/L	2.5		10/08/16 15:42
Molybdenum	0.908		0.0500	0.0150	ug/L	2.5		10/08/16 15:42
Nickel	2.67		0.620	0.0620	ug/L	2.5		10/08/16 15:42
Potassium	3520		50.0	15.0	ug/L	2.5		10/08/16 15:42
Selenium	0.500	U	1.00	0.310	ug/L	2.5		10/08/16 15:42
Silicon	16400		100	31.0	ug/L	2.5		10/08/16 17:40
Silver	0.0100	U	0.0200	0.00620	ug/L	2.5		10/08/16 15:42
Sodium	6240		100	31.0	ug/L	2.5		10/08/16 15:42
Thallium	0.0100	U	0.0200	0.00620	ug/L	2.5		10/08/16 15:42
Tin	0.100	U	0.200	0.0620	ug/L	2.5		10/08/16 15:42
Vanadium	0.500	U	1.00	0.310	ug/L	2.5		10/08/16 15:42
Zinc	2.12	J	3.10	0.400	ug/L	2.5		10/08/16 15:42

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-91A-0916**

Client Sample ID: **MW-91A-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672018
Lab Project ID: 1165672

Collection Date: 09/22/16 18:00
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/08/16 15:42
Container ID: 1165672018-A

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Analytical Batch: MMS9569
Analytical Method: 200.8 Low Level
Analyst: VDL
Analytical Date/Time: 10/08/16 17:40
Container ID: 1165672018-A

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Hardness as CaCO3	95.6		1.00	1.00	mg/L	2.5		10/08/16 15:42

Batch Information

Analytical Batch: MMS9568
Analytical Method: SM21 2340B
Analyst: VDL
Analytical Date/Time: 10/08/16 15:42
Container ID: 1165672018-A

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/03/16 07:43
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-39A-0916**

Client Sample ID: **MW-39A-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672019
Lab Project ID: 1165672

Collection Date: 09/19/16 10:31
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	0.500	U	1.00	0.500	ng/L	1		10/13/16 21:21

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 21:21
Container ID: 1165672019-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-39B-0916**

Client Sample ID: **MW-39B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672020
Lab Project ID: 1165672

Collection Date: 09/19/16 12:42
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	0.522	J	1.00	0.500	ng/L	1		10/13/16 21:25

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 21:25
Container ID: 1165672020-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-62A-0916**

Client Sample ID: **MW-62A-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672021
Lab Project ID: 1165672

Collection Date: 09/19/16 15:03
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	0.500	U	1.00	0.500	ng/L	1		10/13/16 21:34

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 21:34
Container ID: 1165672021-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **APT-1-0916**

Client Sample ID: **APT-1-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672022
Lab Project ID: 1165672

Collection Date: 09/20/16 10:32
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	0.500	U	1.00	0.500	ng/L	1		10/13/16 21:57

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 21:57
Container ID: 1165672022-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **APT-9-0916**

Client Sample ID: **APT-9-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672025
Lab Project ID: 1165672

Collection Date: 09/20/16 10:32
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	0.500	U	1.00	0.500	ng/L	1		10/13/16 21:39

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 21:39
Container ID: 1165672025-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **APT-3-0916**

Client Sample ID: **APT-3-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672026
Lab Project ID: 1165672

Collection Date: 09/20/16 12:10
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	2.41		1.00	0.500	ng/L	1		10/13/16 21:43

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 21:43
Container ID: 1165672026-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672027
Lab Project ID: 1165672

Collection Date: 09/21/16 14:00
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	0.500	U	1.00	0.500	ng/L	1		10/13/16 21:48

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 21:48
Container ID: 1165672027-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells Event 2**
Lab Sample ID: 1165672028
Lab Project ID: 1165672

Collection Date: 09/21/16 10:25
Received Date: 09/23/16 11:46
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Mercury	0.809	J	1.00	0.500	ng/L	1		10/13/16 21:52

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Analyst: NEG
Analytical Date/Time: 10/13/16 21:52
Container ID: 1165672028-A

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/16 16:45
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:18AM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1744485 [MXX/30245]
Blank Lab ID: 1355979

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1165672011, 1165672013, 1165672014, 1165672015, 1165672016, 1165672018

Results by **200.8 Low Level**

Parameter	Results	LOQ/CL	DL	Units
Aluminum	1.00U	2.00	0.620	ug/L
Antimony	0.0250U	0.0500	0.0150	ug/L
Arsenic	0.400U	0.800	0.200	ug/L
Barium	0.125U	0.250	0.0400	ug/L
Beryllium	0.0250U	0.0500	0.0250	ug/L
Bismuth	0.0250U	0.0500	0.0150	ug/L
Boron	2.50U	5.00	1.50	ug/L
Cadmium	0.0250U	0.0500	0.0150	ug/L
Calcium	25.0U	50.0	15.0	ug/L
Chromium	0.250U	0.500	0.150	ug/L
Cobalt	0.0100U	0.0200	0.0100	ug/L
Copper	0.250U	0.500	0.200	ug/L
Iron	10.0U	20.0	6.20	ug/L
Lead	0.0500U	0.100	0.0310	ug/L
Magnesium	10.0U	20.0	6.20	ug/L
Manganese	0.0500U	0.100	0.0310	ug/L
Molybdenum	0.0250U	0.0500	0.0150	ug/L
Nickel	0.310U	0.620	0.0620	ug/L
Potassium	25.0U	50.0	15.0	ug/L
Selenium	0.500U	1.00	0.310	ug/L
Silicon	50.0U	100	31.0	ug/L
Silver	0.0100U	0.0200	0.00620	ug/L
Sodium	50.0U	100	31.0	ug/L
Thallium	0.0100U	0.0200	0.00620	ug/L
Tin	0.100U	0.200	0.0620	ug/L
Vanadium	0.500U	1.00	0.310	ug/L
Zinc	0.531J	3.10	0.400	ug/L

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Instrument: Perkin Elmer NexIon P5
Analyst: VDL
Analytical Date/Time: 10/8/2016 1:43:25PM

Prep Batch: MXX30245
Prep Method: E200.2
Prep Date/Time: 10/3/2016 7:43:02AM
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:46:26AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165672 [MXX30245]
Blank Spike Lab ID: 1355980
Date Analyzed: 10/08/2016 13:46

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165672011, 1165672013, 1165672014, 1165672015, 1165672016, 1165672018

Results by **200.8 Low Level**

	Blank Spike (ug/L)			
Parameter	Spike	Result	Rec (%)	CL
Aluminum	50	51.0	102	(85-115)
Antimony	5	5.39	108	(85-115)
Arsenic	25	25.2	101	(85-115)
Barium	25	24.8	99	(85-115)
Beryllium	12.5	13.0	104	(85-115)
Bismuth	12.5	12.5	100	(85-115)
Boron	50	51.0	102	(85-115)
Cadmium	12.5	12.8	103	(85-115)
Calcium	5000	4520	90	(85-115)
Chromium	12.5	12.1	97	(85-115)
Cobalt	12.5	12.4	99	(85-115)
Copper	25	24.3	97	(85-115)
Iron	500	498	100	(85-115)
Lead	5	5.06	101	(85-115)
Magnesium	5000	4860	97	(85-115)
Manganese	50	51.3	103	(85-115)
Molybdenum	12.5	12.9	103	(85-115)
Nickel	12.5	12.2	98	(85-115)
Potassium	5000	5020	100	(85-115)
Selenium	25	24.5	98	(85-115)
Silicon	2500	2610	104	(85-115)
Silver	5	5.26	105	(85-115)
Sodium	5000	4990	100	(85-115)
Thallium	2.5	2.54	102	(85-115)
Tin	12.5	12.9	104	(85-115)
Vanadium	25	24.8	99	(85-115)
Zinc	50	49.5	99	(85-115)

Batch Information

Analytical Batch: **MMS9568**
Analytical Method: **200.8 Low Level**
Instrument: **Perkin Elmer Nexlon P5**
Analyst: **VDL**

Prep Batch: **MXX30245**
Prep Method: **E200.2**
Prep Date/Time: **10/03/2016 07:43**
Spike Init Wt./Vol.: 50 ug/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:46:28AM

Matrix Spike Summary

Original Sample ID: 1355996 — Analysis Date: 10/08/2016 13:55
MS Sample ID: 1355997 MS — Analysis Date: 10/08/2016 13:58
MSD Sample ID: 1355998 MSD — Analysis Date: 10/08/2016 14:01
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165672011, 1165672013, 1165672014, 1165672015, 1165672016, 1165672018

Results by **200.8 Low Level**

		Matrix Spike (ug/L)				Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)		CL	RPD (%)	RPD CL
Aluminum	242	50.0	452	419	*	50.0	400	316	*	70-130	12.10	(< 20)
Antimony	0.978	5.00	6.13	103		5.00	6.03	101		70-130	1.80	(< 20)
Arsenic	19.7	25.0	44.7	100		25.0	43.3	94		70-130	3.20	(< 20)
Barium	25.3	25.0	51	103		25.0	50.5	101		70-130	1.00	(< 20)
Beryllium	0.0250U	12.5	11.7	94		12.5	11.7	94		70-130	0.00	(< 20)
Bismuth	0.0250U	12.5	12.4	99		12.5	11.7	93		70-130	6.10	(< 20)
Boron	26.9	50.0	72.1	90		50.0	73.6	93		70-130	2.10	(< 20)
Cadmium	0.0250U	12.5	12.5	100		12.5	12.2	98		70-130	2.40	(< 20)
Calcium	24300	5000	27700	68	*	5000	26200	40	*	70-130	5.30	(< 20)
Chromium	0.250U	12.5	13.2	106		12.5	13.1	105		70-130	0.86	(< 20)
Cobalt	0.167	12.5	13	102		12.5	12.9	102		70-130	0.58	(< 20)
Copper	0.682	25.0	24.7	96		25.0	24.4	95		70-130	1.30	(< 20)
Iron	2710	500	3330	125		500	3140	88		70-130	5.70	(< 20)
Lead	0.204	5.00	5.34	103		5.00	4.98	96		70-130	7.00	(< 20)
Magnesium	8630	5000	12800	83		5000	12700	81		70-130	0.90	(< 20)
Manganese	118	50.0	169	101		50.0	165	95		70-130	2.00	(< 20)
Molybdenum	1.16	12.5	14.8	109		12.5	14.4	106		70-130	3.00	(< 20)
Nickel	1.28	12.5	13.9	101		12.5	13.7	99		70-130	1.70	(< 20)
Potassium	6390	5000	11500	102		5000	11000	92		70-130	4.40	(< 20)
Selenium	0.500U	25.0	24.7	99		25.0	24.0	96		70-130	2.80	(< 20)
Silver	0.0100U	5.00	5.25	105		5.00	5.04	101		70-130	4.00	(< 20)
Sodium	8160	5000	12700	91		5000	12600	89		70-130	0.89	(< 20)
Thallium	0.0100U	2.50	2.57	103		2.50	2.43	97		70-130	5.70	(< 20)
Tin	0.100U	12.5	12.2	97		12.5	12.2	98		70-130	0.26	(< 20)
Vanadium	4.12	25.0	30.8	107		25.0	30.2	104		70-130	1.80	(< 20)
Zinc	277	50.0	302	49	*	50.0	301	48	*	70-130	0.20	(< 20)

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Instrument: Perkin Elmer NexIon P5
Analyst: VDL
Analytical Date/Time: 10/8/2016 1:58:06PM

Prep Batch: MXX30245
Prep Method: LL Digest for Metals on ICP-MS
Prep Date/Time: 10/3/2016 7:43:02AM
Prep Initial Wt./Vol.: 50.00mL
Prep Extract Vol: 10.00mL

Print Date: 10/15/2016 10:46:29AM

Matrix Spike Summary

Original Sample ID: 1356000
MS Sample ID: 1356001 MS
MSD Sample ID: 1356002 MSD

Analysis Date: 10/08/2016 14:32
Analysis Date: 10/08/2016 14:35
Analysis Date: 10/08/2016 14:38
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165672011, 1165672013, 1165672014, 1165672015, 1165672016, 1165672018

Results by **200.8 Low Level**

		Matrix Spike (ug/L)				Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Aluminum	18.8	50.0	86.9	136	*	50.0	83.8	130	70-130	3.60	(< 20)
Antimony	0.913	5.00	6.14	105		5.00	6.30	108	70-130	2.50	(< 20)
Arsenic	14.2	25.0	40.3	104		25.0	41.5	109	70-130	2.90	(< 20)
Barium	20.7	25.0	45.1	97		25.0	47.4	107	70-130	5.00	(< 20)
Beryllium	0.0250U	12.5	11.9	95		12.5	11.9	95	70-130	0.19	(< 20)
Bismuth	0.0250U	12.5	12.1	97		12.5	12.7	102	70-130	4.60	(< 20)
Boron	26.6	50.0	75.1	97		50.0	74.9	97	70-130	0.17	(< 20)
Cadmium	0.0250U	12.5	12.3	98		12.5	12.9	103	70-130	4.80	(< 20)
Calcium	23400	5000	26200	57	*	5000	28900	110	70-130	9.60	(< 20)
Chromium	0.250U	12.5	13.1	105		12.5	13.1	105	70-130	0.20	(< 20)
Cobalt	0.0803	12.5	13.1	104		12.5	13.6	108	70-130	3.80	(< 20)
Copper	0.202J	25.0	24	95		25.0	24.8	98	70-130	3.30	(< 20)
Iron	647	500	1210	113		500	1230	117	70-130	1.40	(< 20)
Lead	0.0695J	5.00	5.07	100		5.00	5.37	106	70-130	5.80	(< 20)
Magnesium	7980	5000	12400	89		5000	12800	96	70-130	3.00	(< 20)
Manganese	103	50.0	157	108		50.0	165	124	70-130	4.90	(< 20)
Molybdenum	1.20	12.5	14.8	109		12.5	15.9	117	70-130	7.00	(< 20)
Nickel	0.823	12.5	13.5	101		12.5	13.8	104	70-130	2.70	(< 20)
Potassium	6260	5000	10700	88		5000	11600	107	70-130	8.40	(< 20)
Selenium	0.500U	25.0	24.2	97		25.0	25.8	103	70-130	6.60	(< 20)
Silver	0.0100U	5.00	5.18	104		5.00	5.80	116	70-130	11.30	(< 20)
Sodium	7860	5000	12400	90		5000	13000	102	70-130	4.80	(< 20)
Thallium	0.0100U	2.50	2.54	102		2.50	2.66	106	70-130	4.50	(< 20)
Tin	0.100U	12.5	12.7	101		12.5	13.1	105	70-130	3.50	(< 20)
Vanadium	1.19	25.0	29.3	112		25.0	29.4	113	70-130	0.33	(< 20)
Zinc	36.6	50.0	81.7	90		50.0	86.7	100	70-130	6.00	(< 20)

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Instrument: Perkin Elmer NexIon P5
Analyst: VDL
Analytical Date/Time: 10/8/2016 2:35:52PM

Prep Batch: MXX30245
Prep Method: LL Digest for Metals on ICP-MS
Prep Date/Time: 10/3/2016 7:43:02AM
Prep Initial Wt./Vol.: 50.00mL
Prep Extract Vol: 10.00mL

Print Date: 10/15/2016 10:46:29AM

Bench Spike Summary

Original Sample ID: 1356000
MS Sample ID: 1356003 BND
MSD Sample ID:

Analysis Date: 10/08/2016 14:32
Analysis Date: 10/08/2016 14:41
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165672011, 1165672013, 1165672014, 1165672015, 1165672016, 1165672018

Results by **200.8 Low Level**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Aluminum	18.8	50.0	67.1	97				70-130		

Batch Information

Analytical Batch: MMS9568
Analytical Method: 200.8 Low Level
Instrument: Perkin Elmer NexIon P5
Analyst: VDL
Analytical Date/Time: 10/8/2016 2:41:41PM

Prep Batch: MXX30245
Prep Method: LL Digest for Metals on ICP-MS
Prep Date/Time: 10/3/2016 7:43:02AM
Prep Initial Wt./Vol.: 50.00mL
Prep Extract Vol: 10.00mL

Print Date: 10/15/2016 10:46:29AM

Method Blank

Blank ID: MB for HBN 1745749 [MXX/30290]
Blank Lab ID: 1359161

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1165672001, 1165672002, 1165672003, 1165672004, 1165672007, 1165672008, 1165672009, 1165672010, 1165672011, 1165672012, 1165672018, 1165672019, 1165672020, 1165672021, 1165672022, 1165672025, 1165672026, 1165672027, 1165672028

Results by **EPA 1631 E**

Parameter	Results	LOQ/CL	DL	Units
Mercury	0.500U	1.00	0.500	ng/L

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Instrument:
Analyst: NEG
Analytical Date/Time: 10/13/2016 7:59:59PM

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/2016 4:45:00PM
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:33AM

Method Blank

Blank ID: MB for HBN 1745749 [MXX/30290]
Blank Lab ID: 1359162

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1165672001, 1165672002, 1165672003, 1165672004, 1165672007, 1165672008, 1165672009, 1165672010, 1165672011, 1165672012, 1165672018, 1165672019, 1165672020, 1165672021, 1165672022, 1165672025, 1165672026, 1165672027, 1165672028

Results by **EPA 1631 E**

Parameter	Results	LOQ/CL	DL	Units
Mercury	0.500U	1.00	0.500	ng/L

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Instrument:
Analyst: NEG
Analytical Date/Time: 10/13/2016 8:35:57PM

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/2016 4:45:00PM
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:33AM

Method Blank

Blank ID: MB for HBN 1745749 [MXX/30290]
Blank Lab ID: 1359166

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1165672001, 1165672002, 1165672003, 1165672004, 1165672007, 1165672008, 1165672009, 1165672010, 1165672011, 1165672012, 1165672018, 1165672019, 1165672020, 1165672021, 1165672022, 1165672025, 1165672026, 1165672027, 1165672028

Results by **EPA 1631 E**

Parameter	Results	LOQ/CL	DL	Units
Mercury	0.500U	1.00	0.500	ng/L

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Instrument:
Analyst: NEG
Analytical Date/Time: 10/13/2016 9:07:29PM

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/2016 4:45:00PM
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:33AM

Method Blank

Blank ID: MB for HBN 1745749 [MXX/30290]
Blank Lab ID: 1359167

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1165672001, 1165672002, 1165672003, 1165672004, 1165672007, 1165672008, 1165672009, 1165672010, 1165672011, 1165672012, 1165672018, 1165672019, 1165672020, 1165672021, 1165672022, 1165672025, 1165672026, 1165672027, 1165672028

Results by **EPA 1631 E**

Parameter	Results	LOQ/CL	DL	Units
Mercury	0.500U	1.00	0.500	ng/L

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Instrument:
Analyst: NEG
Analytical Date/Time: 10/13/2016 9:30:02PM

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/2016 4:45:00PM
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:33AM

Method Blank

Blank ID: MB for HBN 1745749 [MXX/30290]
Blank Lab ID: 1359169

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1165672001, 1165672002, 1165672003, 1165672004, 1165672007, 1165672008, 1165672009, 1165672010, 1165672011, 1165672012, 1165672018, 1165672019, 1165672020, 1165672021, 1165672022, 1165672025, 1165672026, 1165672027, 1165672028

Results by **EPA 1631 E**

Parameter	Results	LOQ/CL	DL	Units
Mercury	0.500U	1.00	0.500	ng/L

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Instrument:
Analyst: NEG
Analytical Date/Time: 10/13/2016 10:15:16PM

Prep Batch: MXX30290
Prep Method: METHOD
Prep Date/Time: 10/12/2016 4:45:00PM
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/15/2016 10:46:33AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165672 [MXX30290]
Blank Spike Lab ID: 1359159
Date Analyzed: 10/13/2016 17:36

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165672001, 1165672002, 1165672003, 1165672004, 1165672007, 1165672008, 1165672009, 1165672010, 1165672011, 1165672012, 1165672018, 1165672019, 1165672020, 1165672021, 1165672022, 1165672025, 1165672026, 1165672027, 1165672028

Results by **EPA 1631 E**

	Blank Spike (ng/L)			
Parameter	Spike	Result	Rec (%)	CL
Mercury	25	24.9	100	(77-123)

Batch Information

Analytical Batch: **MCV5747**
Analytical Method: **EPA 1631 E**
Instrument:
Analyst: **NEG**

Prep Batch: **MXX30290**
Prep Method: **METHOD**
Prep Date/Time: **10/12/2016 16:45**
Spike Init Wt./Vol.: 25 ng/L Extract Vol: 50 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:46:36AM

Billable Matrix Spike Summary

Original Sample ID: 1165672004
MS Sample ID: 1165672005 BMS
MSD Sample ID: 1165672006 BMSD

Analysis Date: 10/13/2016 20:49
Analysis Date: 10/13/2016 20:53
Analysis Date: 10/13/2016 20:58
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

Results by **EPA 1631 E**

		Matrix Spike (ng/L)			Spike Duplicate (ng/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Mercury	0.704J	25.0	25.8	100	25.0	25.0	97	71-125	3.10	(< 24)

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Instrument:
Analyst: NEG
Analytical Date/Time: 10/13/2016 8:53:58PM

Prep Batch: MXX30290
Prep Method: Digestion Low Level Mercury (W)
Prep Date/Time: 10/12/2016 4:45:00PM
Prep Initial Wt./Vol.: 50.00mL
Prep Extract Vol: 50.00mL

Print Date: 10/15/2016 10:46:36AM

Billable Matrix Spike Summary

Original Sample ID: 1165672022
MS Sample ID: 1165672023 BMS
MSD Sample ID: 1165672024 BMSD

Analysis Date: 10/13/2016 21:57
Analysis Date: 10/13/2016 22:01
Analysis Date: 10/13/2016 22:06
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

Results by **EPA 1631 E**

		Matrix Spike (ng/L)			Spike Duplicate (ng/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Mercury	0.500U	25.0	25.1	100	25.0	24.4	98	71-125	2.60	(< 24)

Batch Information

Analytical Batch: MCV5747
Analytical Method: EPA 1631 E
Instrument:
Analyst: NEG
Analytical Date/Time: 10/13/2016 10:01:41PM

Prep Batch: MXX30290
Prep Method: Digestion Dissolved Low Level Mercury W
Prep Date/Time: 10/12/2016 4:45:00PM
Prep Initial Wt./Vol.: 50.00mL
Prep Extract Vol: 50.00mL

Print Date: 10/15/2016 10:46:36AM

Method Blank

Blank ID: MB for HBN 1744124 [STS/5226]
Blank Lab ID: 1354770

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1165672011

Results by **SM21 2540D**

Parameter	Results	LOQ/CL	DL	Units
Total Suspended Solids	0.500U	1.00	0.310	mg/L

Batch Information

Analytical Batch: STS5226
Analytical Method: SM21 2540D
Instrument:
Analyst: LLP
Analytical Date/Time: 9/27/2016 11:45:43AM

Print Date: 10/15/2016 10:46:38AM

Duplicate Sample Summary

Original Sample ID: 1355022
Duplicate Sample ID: 1354848
QC for Samples:
1165672011

Analysis Date: 09/27/2016 11:45
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	333	359	mg/L	7.30*	(< 5)

Batch Information

Analytical Batch: STS5226
Analytical Method: SM21 2540D
Instrument:
Analyst: LLP

Print Date: 10/15/2016 10:46:39AM

Duplicate Sample Summary

Original Sample ID: 1165722001
Duplicate Sample ID: 1354849
QC for Samples:
1165672011

Analysis Date: 09/27/2016 11:45
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	29.0	28.0	mg/L	3.50	(< 5)

Batch Information

Analytical Batch: STS5226
Analytical Method: SM21 2540D
Instrument:
Analyst: LLP

Print Date: 10/15/2016 10:46:39AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165672 [STS5226]
Blank Spike Lab ID: 1354771
Date Analyzed: 09/27/2016 11:45

Spike Duplicate ID: LCSD for HBN 1165672 [STS5226]
Spike Duplicate Lab ID: 1354772
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165672011

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	50	50.0	100	50	49.8	100	(75-125)	0.40	(< 5)

Batch Information

Analytical Batch: **STS5226**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **LLP**

Prep Batch:
Prep Method:
Prep Date/Time:
Spike Init Wt./Vol.: 50 mg/L Extract Vol: 1000 mL
Dupe Init Wt./Vol.: 50 mg/L Extract Vol: 1000 mL

Print Date: 10/15/2016 10:46:40AM

Method Blank

Blank ID: MB for HBN 1744144 2[S[T 5576
Blank] aL ID: 1b/ 43/ 4

0 Q for [aC mpe:
11s/ s75t 11

MairxW (aipr u[crfa, pE. ffGEd rocn) R

y peclie LU SM21 2540C

garaC pipr	y peclie	] P 0 TQ]	D]	Onxie
Soial DxeeolAp) [olx) e	/ Gt O	1t G	bGt	ChT]

Batch Information

9 nalUx al Bai, 8: [S[/ 557
9 nalUx al Mpi8o) : [M51 5/ 4t Q
IneircC pni:
9 nalUei:]] g
9 nalUx al DaipTSxC p: vT57T5t 1s b:4s:t bgM

grxni Daip: 1t T1/ T5t 1s 1t :4s:459M

Duplicate Sample Summary

Original Sample ID: 1165651002
Duplicate Sample ID: 1354860
QC for Samples:
1165672011

Analysis Date: 09/27/2016 15:46
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540C**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Dissolved Solids	60.0	63.0	mg/L	4.90	(< 5)

Batch Information

Analytical Batch: STS5227
Analytical Method: SM21 2540C
Instrument:
Analyst: LLP

Print Date: 10/15/2016 10:46:43AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165672 [STS5227]
Blank Spike Lab ID: 1354t 55
DaAe y nalzde0: 9/ u27u2916 15:46

- C for Sa%pleM 1165672911

Spike DcpliRaAe ID: LCSD for HBN 1165672 [STS5227]
Spike DcpliRaAe Lab ID: 1354t 56
x aAiW (aAer ,ScrfaReE ffGE) rocn0P

s eMctIAMbz SM21 2540C

	Blank Spike ,%QLLP			Spike DcpliRaAe ,%QLLP					
mara%eAer	Spike	s eMctIA	s eR,g P	Spike	s eMctIA	s eR,g P	CL	s mD ,g P	s mD CL
ToAal DiMvol<e0 Soli0M	339	324	/ t	339	322	/ t	, 758125 P	9G62	,h 5 P

Batch Information

y nalzARal BaARV: **STS5227**
y nalzARal x eAVo0: **SM21 2540C**
InMAc%enA
y nalzMA **LLP**

mrep BaARV:
mrep x eAVo0:
mrep DaAeuTi%e:
Spike IniA(AGv olG 339 %QLL . WkaRAv ol: 199 %L
Dcpe IniA(AGv olG 339 %QLL . WkaRAv ol: 199 %L

mrinADaAe: 19u15u2916 19:46:45y x

Method Blank

Blank ID: MB for HBN 1744221 [VXX/29655]
Blank Lab ID: 1355213

QC for Samples:
1165672011, 1165672017

Matrix: Water (Surface, Eff., Ground)

Results by **AK101**

Parameter	Results	LOQ/CL	DL	Units
Gasoline Range Organics	0.0500U	0.100	0.0310	mg/L
Surrogates				
4-Bromofluorobenzene (surr)	87.2	50-150		%

Batch Information

Analytical Batch: VFC13333
Analytical Method: AK101
Instrument: Agilent 7890A PID/FID
Analyst: ST
Analytical Date/Time: 9/28/2016 9:21:00AM

Prep Batch: VXX29655
Prep Method: SW5030B
Prep Date/Time: 9/28/2016 6:00:00AM
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date: 10/15/2016 10:46:48AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165672 [VXX29655]
Blank Spike Lab ID: 1355216
Date Analyzed: 09/28/2016 10:16

Spike Duplicate ID: LCSD for HBN 1165672 [VXX29655]
Spike Duplicate Lab ID: 1355217
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165672011, 1165672017

Results by **AK101**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Gasoline Range Organics	1.00	0.860	86	1.00	0.868	87	(60-120)	0.95	(< 20)
Surrogates									
4-Bromofluorobenzene (surr)	0.0500	94.4	94	0.0500	105	105	(50-150)	11.00	

Batch Information

Analytical Batch: **VFC13333**
Analytical Method: **AK101**
Instrument: **Agilent 7890A PID/FID**
Analyst: **ST**

Prep Batch: **VXX29655**
Prep Method: **SW5030B**
Prep Date/Time: **09/28/2016 06:00**
Spike Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL
Dupe Init Wt./Vol.: 1.00 mg/L Extract Vol: 5 mL

Print Date: 10/15/2016 10:46:50AM

Method Blank

Blank ID: MB for HBN 1744121 [S T/ 512746]
Blank Lab ID: 1304602

QC for map elst :
116067i 211

MaxrW. S axsr umcrfa, sE. ffGEd rocn) R

y st clxt bU SM21 2130B

garap sxsr	y st clxt	LPQ5CL	DL	OnW
/ crbWWU	2G22O	2G22	2G22	N/ O

Batch Information

TnalUWal Bax A: S T/ 12746
TnalUWal MsxAo) : mMi 1 i 132B
Int xrcp snx / crbWWsxsr
TnalUx hB.
TnalUWal Daxs5 Ws: 95 35 216 4:23:22gM

grWxDaxs: 125105 216 12:46:03TM

Duplicate Sample Summary

Original Sample ID: 1165602u11
Dcplit a3e Sample ID: 1458654
b Q (Gr Samples:
1165602u11

Analysis Da3e: u9/24/2u16 16:u4
7 a3iM x a3er WSScr(at ef , ((Ef . rGcnod

) escl3s Ry SM21 2130B

%A7 ,	Original	Dcplit a3e	Nni3s	) CD WP d	) CD QU
LcrRioi3y	28Eu	28Eu	%LN	uEuu	WT 2u d

Batch Information

Analy3t al v a3 <: x AL1u086
Analy3t al 7 e3<Go: S7 21 214uv
Ins3cmen3 LcrRioime3er
Analys3 Bv ,

Crin3Da3e: 1u/15/2u16 1u:86:58A7

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165672 [WAT10746]
Blank Spike Lab ID: 1354651
Date Analyzed: 09/23/2016 16:03

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165672011

Results by **SM21 2130B**

	Blank Spike (NTU)			
Parameter	Spike	Result	Rec (%)	CL
Turbidity	10	11.0	110	(90-110)

Batch Information

Analytical Batch: **WAT10746**
Analytical Method: **SM21 2130B**
Instrument: **Turbidimeter**
Analyst: **KBE**

Prep Batch:
Prep Method:
Prep Date/Time:
Spike Init Wt./Vol.: 10 NTU Extract Vol: 1 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:46:56AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165672 [WAT10746]
Blank Spike Lab ID: 1354654
Date Analyzed: 09/23/2016 16:03

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165672011

Results by **SM21 2130B**

	Blank Spike (NTU)			
Parameter	Spike	Result	Rec (%)	CL
Turbidity	10	11.0	110	(90-110)

Batch Information

Analytical Batch: **WAT10746**
Analytical Method: **SM21 2130B**
Instrument: **Turbidimeter**
Analyst: **KBE**

Prep Batch:
Prep Method:
Prep Date/Time:
Spike Init Wt./Vol.: 10 NTU Extract Vol: 1 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:46:56AM

Duplicate Sample Summary

Original Sample ID: 1354466
Duplicate Sample ID: 1354478

QC for Samples:

1165672011

Analysis Date: 09/23/2016 16:05
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500-H B**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
pH	8.10	8.10	pH units	0.00	(< 5)

Batch Information

Analytical Batch: WTI4515
Analytical Method: SM21 4500-H B
Instrument: Titration
Analyst: KBE

Print Date: 10/15/2016 10:46:59AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165672 [WTI4515]
Blank Spike Lab ID: 1354475
Date Analyzed: 09/23/2016 21:52

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165672011

Results by **SM21 4500-H B**

Blank Spike (pH units)

Parameter	Spike	Result	Rec (%)	CL
pH	7	7.03	100	(99-101)

Batch Information

Analytical Batch: **WTI4515**
Analytical Method: **SM21 4500-H B**
Instrument: **Titration**
Analyst: **KBE**

Prep Batch:
Prep Method:
Prep Date/Time:
Spike Init Wt./Vol.: 7 pH units Extract Vol: 1 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:47:01AM

Method Blank

Blank ID: MB for HBN 17442[[ST / I5461] L
Blank ba3 ID: 106464Q

Cm for pae slt i :
11[6[7Q211

MaxrW. T axt r upcrfa, t E. ffGEd rocn) R

y t i clxi 3U SM21 2320B

garae t xt r	y t i clxi	bPC5mb	Db	OnW
AlkalWWU	6Q22O	12Q2	0G12	e h5b

Batch Information

AnalUxWal Bax 9: T / I461]
AnalUxWal Mt x9o) : pMQ1 QDQ2B
Ini xce t nx / WaxWh
AnalU x 8B.
AnalUxWal Daxt 5 Wt :] 5Q05Q21[12:17:47gM

grWxDaxt : 125165Q21[12:47:27AM

Duplicate Sample Summary

Original Sample ID: 1165651001
Duplicate Sample ID: 1354544
QC for Samples:
1165672011

Analysis Date: 09/23/2016 22:43
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2320B**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Alkalinity	79.2	77.6	mg/L	2.10	(< 25)

Batch Information

Analytical Batch: WTI4519
Analytical Method: SM21 2320B
Instrument: Titration
Analyst: KBE

Print Date: 10/15/2016 10:47:09AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165672 [WTI451] b
Blank Spike La3 ID: 1t 5454t
DaAe y nalzde0: 9] /2t /2916 22:26

MaAix: WaAer (Surface, Eff., Groun0)

- C for Samples: 1165672911

ResulAs 3z **SM21 2320B**

Blank Spike (mQ/L)

ParameAer	Spike	ResulA	Rec (%)	CL
y lkaliniAz	259	242	] 7	(h5M 15)

Batch Information

y nalzAcal BaAcv: **WTI4519**
y nalzAcal MeAvo0: **SM21 2320B**
InsAumenA **Titration**
y nalzsA **KBE**

Prep BaAcv:
Prep MeAvo0:
Prep DaAe/Time:
Spike IniAWA/gol.: 259 mQ/L ExAracAgol: 59 mL
Dupe IniAWA/gol.: ExAracAgol:

PrinADaAe: 19/15/2916 19:47:19y M

Method Blank

Blank ID: MB for HBN 1743944 [WXX/11632]
Blank Lab ID: 1354281

QC for Samples:
1165672011

Matrix: Water (Surface, Eff., Ground)

Results by **EPA 300.0**

Parameter	Results	LOQ/CL	DL	Units
Chloride	0.100U	0.200	0.0620	mg/L
Fluoride	0.100U	0.200	0.0620	mg/L
Nitrate-N	0.100U	0.200	0.0620	mg/L
Nitrite-N	0.100U	0.200	0.0620	mg/L
Sulfate	0.100U	0.200	0.0620	mg/L
Total Nitrate/Nitrite-N	0.100U	0.200	0.0620	mg/L

Batch Information

Analytical Batch: WIC5566
Analytical Method: EPA 300.0
Instrument: Metrohm 733 DX2
Analyst: ACF
Analytical Date/Time: 9/23/2016 7:26:23PM

Prep Batch: WXX11632
Prep Method: METHOD
Prep Date/Time: 9/23/2016 4:58:00PM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Print Date: 10/15/2016 10:47:13AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165672 [WXX11632]
Blank Spike Lab ID: 1354282
Date Analyzed: 09/23/2016 19:48

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1165672011

Results by **EPA 300.0**

	Blank Spike (mg/L)			
Parameter	Spike	Result	Rec (%)	CL
Chloride	5	5.04	101	(90-110)
Fluoride	5	5.48	110	(90-110)
Nitrate-N	5	5.03	101	(90-110)
Nitrite-N	5	5.08	102	(90-110)
Sulfate	5	5.17	103	(90-110)
Total Nitrate/Nitrite-N	10	10.1	101	(90-110)

Batch Information

Analytical Batch: **WIC5566**
Analytical Method: **EPA 300.0**
Instrument: **Metrohm 733 DX2**
Analyst: **ACF**

Prep Batch: **WXX11632**
Prep Method: **METHOD**
Prep Date/Time: **09/23/2016 16:58**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 10/15/2016 10:47:16AM

Matrix Spike Summary

Original Sample ID: 1354283
MS Sample ID: 1354284 MS
MSD Sample ID: 1354285 MSD

QC for Samples: 1165672011

Analysis Date: 09/23/2016 20:18
Analysis Date: 09/23/2016 20:40
Analysis Date: 09/23/2016 21:02
Matrix: Water (Surface, Eff., Ground)

Results by **EPA 300.0**

		Matrix Spike (mg/L)				Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)		CL	RPD (%)	RPD CL
Chloride	6.72	25.0	33.7	108		25.0	33.8	108		90-110	0.22	(< 15)
Fluoride	0.495J	25.0	26.1	102		25.0	26.1	103		90-110	0.19	(< 15)
Nitrate-N	0.500U	25.0	25.8	103		25.0	25.8	103		90-110	0.06	(< 15)
Nitrite-N	0.500U	25.0	26	104		25.0	24.9	100		90-110	4.00	(< 15)
Sulfate	24.4	25.0	52.9	114	*	25.0	52.8	114	*	90-110	0.06	(< 15)
Total Nitrate/Nitrite-N	0.500U	50.0	51.8	104		50.0	50.8	102		90-110	2.00	(< 15)

Batch Information

Analytical Batch: WIC5566
Analytical Method: EPA 300.0
Instrument: Metrohm 733 DX2
Analyst: ACF
Analytical Date/Time: 9/23/2016 8:40:20PM

Prep Batch: WXX11632
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 9/23/2016 4:58:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 10/15/2016 10:47:17AM

Method Blank

Blank ID: MB for HBN 1744689 [XXX/36455]
Blank Lab ID: 1356542

QC for Samples:
1165672011

Matrix: Water (Surface, Eff., Ground)

Results by **AK102**

Parameter	Results	LOQ/CL	DL	Units
Diesel Range Organics	0.300U	0.600	0.180	mg/L
Surrogates				
5a Androstane (surr)	81.1	60-120		%

Batch Information

Analytical Batch: XFC12925
Analytical Method: AK102
Instrument: HP 7890A FID SV E F
Analyst: CRA
Analytical Date/Time: 10/7/2016 5:39:00PM

Prep Batch: XXX36455
Prep Method: SW3520C
Prep Date/Time: 10/5/2016 8:35:16AM
Prep Initial Wt./Vol.: 250 mL
Prep Extract Vol: 1 mL

Print Date: 10/15/2016 10:47:17AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165672 [VVVX6955]
Blank Spike Lab ID: 1X5659X
Da3e t nalAyez: 1d0d70Q2d16 17:5/

g C for SaP pleR 1165672d11

Spike D8pliua3e ID: LCSD for HBN 1165672 [VVVX6955]
Spike D8pliua3e Lab ID: 1X56599
s a3iM x a3er W38rfaue(, ffE . ro8nzG

c eR8l3RbA AK102

) araP e3er	Blank Spike W%LG Spike	c eR8l3	c eu WhG	Spike D8pliua3e W%LG Spike	c eR8l3	c eu WhG	CL	c) D WhG	c) D CL
DieRel c an%e Qr%aniuR	2d	17Ed	O5	2d	1/ E	/ 5	W75-125 G	11E9d	W 2d G
Surrogates									
5a t nzroR3ane W8rrG	dE9	/ 6E2	/ 6	dE9	1d5	1d5	W6d-12d G	/ Edd	

Batch Information

t nalA3ual Ba3u4: **XFC12925**
t nalA3ual s e34oz: **AK102**
InR38P en3 **HP 7890A** **FID SV E F**
t nalAR3 **CRA**

) rep Ba3u4: **XXX36455**
) rep s e34oz: **SW3520C**
) rep Da3e0hiP e: **10/05/2016 08:35**
Spike Ini3x 3E0TolE 2d P %L , M3rau3Tol: 1 P L
D8pe Ini3x 3E0TolE 2d P %L , M3rau3Tol: 1 P L

) rin3Da3e: 1d0I5Q2d16 1d:97:2dt s

Method Blank

Blank ID: MB for HBN 1744689 [XXX/36455]
Blank Lab ID: 1356542

QC for Samples:
1165672011

Matrix: Water (Surface, Eff., Ground)

Results by **AK103**

Parameter	Results	LOQ/CL	DL	Units
Residual Range Organics	0.250U	0.500	0.150	mg/L
Surrogates				
nA riacontaneAd62 (surr)	98.9	60A120		%

Batch Information

hnalytical BatcF: XKC12925
hnalytical MetFod: hV103
Instrument: HP 7890h KID ST E K
hnalyst: CRh
hnalytical Date/- ime: 10/7/2016 5:39:00PM

Prep BatcF: XXX36455
Prep MetFod: SW3520C
Prep Date/- ime: 10/5/2016 8:35:16hM
Prep Initial Wt./Tol.: 250 mL
Prep Extract Tol: 1 mL

Print Date: 10/15/2016 10:47:22hM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1165672 [VVVX6955]
Blank Spike Lab ID: 1X5659X
Da3e t nalAyez: 1d0d70Q2d16 17:5/

g C for SaP pleR 1165672d11

Spike D8pliua3e ID: LCSD for HBN 1165672 [VVVX6955]
Spike D8pliua3e Lab ID: 1X56599
s a3iM x a3er W8rfaue(, ffE . ro8nzG

c eR8l3RbA AK102

	Blank Spike W %LG			Spike D8pliua3e W %LG					
) araP e3er	Spike	c eR8l3	c eu WhG	Spike	c eR8l3	c eu WhG	CL	c) D WhG	c) D CL
c eRz8al c an%e Qr%aniuR	2d	16EX	O2	2d	1OE6	/ X	W6d-12d G	1XEdd	W 2d G
Surrogates									
n-4riauon3ane-z62 W8rrG	dE9	/ 5E6	/ 6	dE9	111	111	W6d-12d G	15Edd	

Batch Information

t nalA3ual Ba3uh: **XFC1959H**
t nalA3ual s e3noz: **AK102**
InR38P en3 **P7 8D50A FIV SE R F**
t nalAR3 **C3 A**

) rep Ba3uh: **XXX264HH**
) rep s e3noz: **SW2H90C**
) rep Da3e04iP e: **10/0H/9016 0D:2H**
Spike Ini3x 3EDTolE 2d P %L , M3rau3Tol: 1 P L
D8pe Ini3x 3EDTolE 2d P %L , M3rau3Tol: 1 P L

) rin3Da3e: 1d0l5Q2d16 1d:97:25t s

CHAIN OF CUSTODY RECORD

SGS Environmental Services Inc.

1165672

E-1143

CLIENT: SLR Consulting

CONTACT: Jason Gray, SLR PHONE NO: (office) 264-6965

PROJECT: Name: Kenai Wells, Event 2 PROJECT No. 105.00148.16001

REPORTS TO: Jason Gray, SLR email jgray@slrconsulting.com

INVOICE TO: Bret Berglund, SLR QUOTE #: 332060
2700 Gambell Street Anchorage, Alaska 99503

SGS Reference #:

page 1 of 1
COOLER ID 21

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	Preserv Used / SAMPLE TYPE C = COMP G = GRAB	E1631E - Low-level Hg (dissolved)	E1631E - Low-level Hg (total)	HCl	HCl												
1 A-B	MW-39A-0916	9/19/2016	10:31	GW	2		X	X		19	A											
2 A-B	MW-39B-0916	9/19/2016	12:42	GW	2		X	X		20	A											
3 A-B	MW-62A-0916	9/19/2016	15:03	GW	2		X	X		21	A											
4 5 6 A-C	APT-1-0916	9/20/2016	10:32	GW	6		X	X		22	A	23	A	24 A							MS/MSD	
7 A	APT-9-0916	9/20/2016	10:32	GW	2		X	X		23	A	25	A									
8 A	APT-3-0916	9/20/2016	12:10	GW	2		X	X		24	A	26	A									
9 A	APT-2-0916	9/21/2016	14:00	GW	2		X	X		25	A	27	A									
10 A	MW-138B-0916	9/21/2016	10:25	GW	2		X	X		26	A	28	A	29 A								
11 A	MW-91A-0916	9/22/2016	18:00	GW	2		X	X		27	A	24	A	~~29 A~~								
12 A	TB-10-0916	9/19/2016	10:31	GW	1			X		10		19										

Collected/Relinquished By: (1)	Date	Time	Received By:
Jason Gray SLR	9-23-16	08:00	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:
	9/23/16	11:46	

Shipping Carrier:
Shipping Ticket No:
Special Deliverable Req: **Level II**
EDD: PDF, Access
Requested Turnaround Time and-or Special Instructions: 15/B

Dissolved Samples were field filtered

Samples Received Cold? YES NO
Temperature °C: 1 . 4 2
Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
3180 Peger Road **Fairbanks, AK 99701** Tel: (907) 474-8656 Fax: (907) 474-9685
5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

Confidential
LNG Facilities Groundwater Quality
Sampling and Testing Report - Event 2
USALNG-GRZZZ-00-002016-004 Rev. 0
16-Dec-16

CHAIN OF CUSTODY RECORD

SGS Environmental Services Inc.

1165672

E-1144

CLIENT: SLR Consulting

CONTACT: Jason Gray, SLR PHONE NO: (office) 264-6965

PROJECT: Name Kenai Wells, Event 2 PROJECT No. 105.00148.16001

REPORTS TO: Jason Gray, SLR email jgray@slrconsulting.com

INVOICE TO: Bret Berglund, SLR QUOTE #: 332060
2700 Gambell Street Anchorage, Alaska 99503

SGS Reference #:

page 1 of 1
COOLER ID 20

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	Preserv Used / SAMPLE TYPE C = COMP G = GRAB	E200.8 - Dissolved Metals SM21 2340B - Hardness (HNO3)	E200.8 - Total Metals (HNO3)	AK101 -GRO (HCl)	AK102/AK103 - DRO/RRO (HCl)	SM21 2540D - TSS (None)	E300.0 - Cl, Fl,SO4 SM21 4500NO3-F - Nitrate, Nitrite (None)	SM21 2540C TDS, SM21 2320B Alkalinity, SM2130B Turbidity, SM21 4500H+B pH (None)	
11 B-A	MW-91A-0916	9/22/2016	18:00	GW	10		X	X	X	X	X	X	X 18 A	
13 A	OW-1-0916	9/22/2016	11:19	GW	1			X						Arsenic Only
14 A	OW-2-0916	9/22/2016	13:10	GW	1			X						Arsenic Only
15 A	OW-3-0916	9/22/2016	14:58	GW	1			X						Arsenic Only
16 A	OW-4-0916	9/22/2016	16:06	GW	1			X						Arsenic Only
17 A-C	TB-11-0916	9/22/2016	18:00	TB	3				X					

	Date	Time	
Collected/Relinquished By: (1)	9-23-16	08:00	Received By:
Relinquished By: (2)			Received By:
Relinquished By: (3)			Received By:
Relinquished By: (4)	9/23/16	11:46	Received For Laboratory By:

Shipping Carrier:
Shipping Ticket No:
Special Deliverable Req: **Level II**
EDD: PDF, Access

Samples Received Cold? YES NO
Temperature °C: 2.4 2.4
Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Requested Turnaround Time and-or Special Instructions:
MW-91A Total and Dissolved Metals:
As, Ba, Be, Ca, Cd, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Na, Ni, Sb, Se, Tl, V, Zn
OW-1, OW-2, OW-3, OW-4 Total Metals: Arsenic Only, no other metals.

200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
3180 Peger Road **Fairbanks, AK 99701** Tel: (907) 474-8656 Fax: (907) 474-9685
5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

Confidential
LNG Facilities Groundwater Quality
Sampling and Testing Report - Event 2
USAK-FG-GRZZZ-00-002016-004 Rev. 0
16-Dec-16

AIRPORT OF DEPARTURE ENA 09/23/16 08:28 097375 808 7146256 Fgt

SHIPPER'S NAME, ADDRESS & PHONE
SLR JASON GRAY
KENAI AK 99611 9078626547

SHIPPER'S ACCOUNT NUMBER
H7752

NOT AIR WAYBILL (AIR CONSIGNMENT NOTE)

Ravn ALASKA
4700 Old International Airport Road
Anchorage, Alaska 99502

It is agreed that the goods described herein are accepted in apparent good order and condition (except as noted) for carriage SUBJECT TO THE CONDITIONS OF CONTRACT AS LISTED IN THE COMPANIES TARIFFS. THE SHIPPER'S ATTENTION IS DRAWN TO THE NOTICE CONCERNING CARRIERS' LIMITATION OF LIABILITY. Shipper may increase such limitation of liability by declaring a higher value for carriage and paying a supplemental charge if required.

Received in Good Condition

Place _____ Date _____

TO EXPEDITE MOVEMENT, SHIPMENT MAY BE DIVERTED TO MOTOR OR OTHER CARRIER AS PER TARIFF RULE UNLESS SHIPPER GIVES OTHER INSTRUCTION HEREON

CONSIGNEE'S NAME, ADDRESS & PHONE
SGS LABS
200 WEST POTTER RD
ANCHORAGE AK 99518 9075622343

CONSIGNEE'S ACCOUNT NUMBER

ISSUING CARRIER'S AGENT NAME, CITY & PHONE

ALSO NOTIFY NAME & ADDRESS

AGENT'S IATA CODE

ACCOUNT NO.

AIRPORT OF DEPARTURE
Kenai

Declared Value $ 0.00

Insured Amount $ 0.00

ACCOUNTING INFORMATION 7149080
Acc#: H7752 SLR INTERNATIONAL CORP.

[redacted]
BY FIRST

AIRPORT OF DESTINATION
Anchorage

COMMENTS
ETA 1000AM
PO#105.00148.16001

No. Of Pieces Rcp	Gross Weight	kg lb	Rate Class	Commodity Item No.	Chargeable Weight	Rate/Charge	Total	Nature and Quantity of Goods
2	74	l..	M		1	$29.18	$29.18	LAB SAMPLES
2	74						$29.18	

1165672

PREPAID $29.18

WEIGHT CHARGE

COLLECT

VALUATION CHARGE $0.00

FEDERAL EXCISE TAX $1.82

TOTAL OTHER CHARGES DUE AGENT $0.00

TOTAL OTHER CHARGES DUE CARRIER $0.00

TOTAL PREPAID $31.00

TOTAL COLLECT

OTHER CHARGES AND DESCRIPTION

AMOUNT	DESCRIPTION

HAZMAT
No

Shipper certifies that the particulars on the face hereof are correct, agrees to the CONDITIONS AS LISTED IN THE COMPANIES TARIFFS, accepts that carrier's liability is limited as stated in the companies tariffs and accepts such value unless a higher value for carriage is declared on the face hereof subject to an additional charge and that insofar as any part of the consignment contains restricted articles, such part is described by name and is in proper condition for carriage by air according to applicable national governmental regulations, and for international shipments, the current International Air Transport Association's Restricted Articles Regulations.

Paid By Shipper

Printed Name and Title _____

Signature

STATION NUMBERS
ANCHORAGE - (907) 243-2761
ANIAK - (907) 675-4572
BARROW - (907) 852-5300
BETHEL -(907) 543-3825
DEADHORSE - (907) 659-9222
FAIRBANKS - (907) 450-7250
GALENA -(907) 656-1875
KOTZEBUE - (907) 442-3020
NOME - (907) 443-7595
ST. MARYS - (907) 438-2247
UNALAKLEET - (907) 624-3595

Printed at 08:31:58 on 9/23/2016 at ENA-FRT1 10.106.2.2

Consignee Copy

Alert Expeditors Inc. #368697

Citywide Delivery • 440-3351
8421 Flamingo Drive • Anchorage, Alaska 99502

Date 92316

From SLR

To SGS

Collect ☐	Prepay ☐ Account ☐	Advance Charges ☐
Job #	PO#	

2@ 74#

Rwn

714 6256

1165672

Shipped Signature

Total Charge

Received By: [signature]

arb 11 11:46

SGS

e-SAMPLE RECEIPT FORM

1165672

Review Criteria	Y/N (yes/no)	Exceptions Noted below
		☐ exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	Y	1F-1B
COC accompanied samples?	Y	
☐ **exemption permitted if chilled & collected <8hrs ago or chlling not required (i.e., waste, oil)		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Y	Cooler ID: 20 @ 2.4 °C Therm ID: 200
	Y	Cooler ID: 21 @ 1.4 °C Therm ID: 200
	Y	Cooler ID: @ °C Therm ID:
	Y	Cooler ID: @ °C Therm ID:
	Y	Cooler ID: @ °C Therm ID:
*If >6°C, were samples collected <8 hours ago?	Y	
If <0°C, were sample containers ice free?	Y	
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
		Note: Refer to form F-083 "Sample Guide" for hold times.
Were samples received within hold time?	Y	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Y	
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous?	Y	
		☐ ***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	Y	
IF APPLICABLE		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	Y	
Were all VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	Y	
Were all soil VOAs field extracted with MeOH+BFB?	Y	

Note to Client: Any "no" answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

Samples 18-29 Are Dissolved metals for each sample.

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1165672001-A	HCL to pH < 2	OK	1165672023-A	HCL to pH < 2	OK
1165672002-A	HCL to pH < 2	OK	1165672023-B	HCL to pH < 2	OK
1165672003-A	HCL to pH < 2	OK	1165672023-C	HCL to pH < 2	OK
1165672004-A	HCL to pH < 2	OK	1165672024-A	HCL to pH < 2	OK
1165672004-B	HCL to pH < 2	OK	1165672024-B	HCL to pH < 2	OK
1165672004-C	HCL to pH < 2	OK	1165672024-C	HCL to pH < 2	OK
1165672005-A	HCL to pH < 2	OK	1165672025-A	HCL to pH < 2	OK
1165672005-B	HCL to pH < 2	OK	1165672026-A	HCL to pH < 2	OK
1165672005-C	HCL to pH < 2	OK	1165672027-A	HCL to pH < 2	OK
1165672006-A	HCL to pH < 2	OK	1165672028-A	HCL to pH < 2	OK
1165672006-B	HCL to pH < 2	OK			
1165672006-C	HCL to pH < 2	OK			
1165672007-A	HCL to pH < 2	OK			
1165672008-A	HCL to pH < 2	OK			
1165672009-A	HCL to pH < 2	OK			
1165672010-A	HCL to pH < 2	OK			
1165672011-A	HCL to pH < 2	OK			
1165672011-B	HNO3 to pH < 2	OK			
1165672011-C	HCL to pH < 2	OK			
1165672011-D	HCL to pH < 2	OK			
1165672011-E	HCL to pH < 2	OK			
1165672011-F	HCL to pH < 2	OK			
1165672011-G	HCL to pH < 2	OK			
1165672011-H	No Preservative Required	OK			
1165672011-I	No Preservative Required	OK			
1165672011-J	No Preservative Required	OK			
1165672012-A	HCL to pH < 2	OK			
1165672013-A	HNO3 to pH < 2	OK			
1165672014-A	HNO3 to pH < 2	OK			
1165672015-A	HNO3 to pH < 2	OK			
1165672016-A	HNO3 to pH < 2	OK			
1165672017-A	HCL to pH < 2	OK			
1165672017-B	HCL to pH < 2	OK			
1165672017-C	HCL to pH < 2	OK			
1165672018-A	HNO3 to pH < 2	OK			
1165672018-B	HCL to pH < 2	OK			
1165672019-A	HCL to pH < 2	OK			
1165672020-A	HCL to pH < 2	OK			
1165672021-A	HCL to pH < 2	OK			
1165672022-A	HCL to pH < 2	OK			
1165672022-B	HCL to pH < 2	OK			
1165672022-C	HCL to pH < 2	OK			

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM- The container was received damaged.
FR- The container was received frozen and not usable for Bacteria or BOD analyses.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

Laboratory Report of Analysis

To: SLR Alaska-Anchorage
2700 Gambell St Suite 200
Anchorage, AK 99503
(907)222-1112

Report Number: **1165682**

Client Project: **Kenai Wells, Event 2**

Dear Jason Gray,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

SGS North America Inc.
Environmental Services – Alaska Division
Project Manager

Justin Nelson
2016.10.05
09:15:17 -08'00'

Justin Nelson
Project Manager
Justin.Nelson@sgs.com

Date

Print Date: 10/05/2016 8:36:06AM

Case Narrative

SGS Client: **SLR Alaska-Anchorage**
SGS Project: **1165682**
Project Name/Site: **Kenai Wells, Event 2**
Project Contact: **Jason Gray**

Refer to sample receipt form for information on sample condition.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

Print Date: 10/05/2016 8:36:06AM

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & UST-005 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8021B, 8082A, 8260B, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
D	The analyte concentration is the result of a dilution.
DF	Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
F	Indicates value that is greater than or equal to the DL
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
JL	The analyte was positively identified, but the quantitation is a low estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
M	A matrix effect was present.
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
Q	QC parameter out of acceptance range.
R	Rejected
RPD	Relative Percent Difference
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content.
All DRO/RRO analyses are integrated per SOP.

Print Date: 10/05/2016 8:36:08AM

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
MW-138B-0916	1165682001	09/23/2016	09/23/2016	Water (Surface, Eff., Ground)
APT-2-0916	1165682002	09/23/2016	09/23/2016	Water (Surface, Eff., Ground)

Method	Method Description
SM21 9222D	Fecal Coliform (MF)

Print Date: 10/05/2016 8:36:09AM

Results of **MW-138B-0916**

Client Sample ID: **MW-138B-0916**
Client Project ID: **Kenai Wells, Event 2**
Lab Sample ID: 1165682001
Lab Project ID: 1165682

Collection Date: 09/23/16 09:30
Received Date: 09/23/16 15:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.64	U	1.64	1.64	col/100mL	1		09/23/16 15:52

Batch Information

Analytical Batch: BTF15124
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/23/16 15:52
Container ID: 1165682001-A

Print Date: 10/05/2016 8:36:12AM

J flagging is activated

Results of **APT-2-0916**

Client Sample ID: **APT-2-0916**
Client Project ID: **Kenai Wells, Event 2**
Lab Sample ID: 1165682002
Lab Project ID: 1165682

Collection Date: 09/23/16 10:40
Received Date: 09/23/16 15:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.64	U	1.64	1.64	col/100mL	1		09/23/16 15:52

Batch Information

Analytical Batch: BTF15124
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/23/16 15:52
Container ID: 1165682002-A

Print Date: 10/05/2016 8:36:12AM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1743801 [BTF/15124]
Blank Lab ID: 1354237

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1165682001, 1165682002

Results by **SM21 9222D**

Parameter	Results	LOQ/CL	DL	Units
Fecal Coliform	1.00U	1.00	1.00	col/100mL

Batch Information

Analytical Batch: BTF15124
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 9/23/2016 3:52:00PM

Print Date: 10/05/2016 8:36:13AM

CHAIN OF CUSTODY RECORD

SGS Environmental Services Inc.

1165682

E-1157

CLIENT: SLR Consulting

CONTACT: Jason Gray, SLR PHONE NO: (office) 264-6965

PROJECT: Name: Kenai Wells, Event 2 PROJECT No. 105.00148.16001

REPORTS TO: Jason Gray, SLR email jgray@slrconsulting.com

INVOICE TO: Bret Berglund, SLR QUOTE #: 332060
2700 Gambell Street Anchorage, Alaska 99503

SGS Reference #:

page 1 of 1
COOLER ID 22

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	Preserv Used	SAMPLE TYPE (C = COMP, G = GRAB)	SM21 9222D - Fecal Coliform (Na2S2O3)
1A	MW-138B-0916	9-23-16	09:30	GW				✓
2A	APT-2-0916	9-23-16	10:40	GW				✓

Collected/Relinquished By: (1)	Date	Time	Received By:
Jason Gray - SLR	9-23-16	12:00	
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:
	9/23/16	15:05	

Shipping Carrier:
Shipping Ticket No:
Special Deliverable Req: **Level II**
EDD: PDF, Access

Samples Received Cold? YES NO
Temperature °C: 1.9 #
Chain of Custody Seal: (Circle) 1F, 1B
INTACT BROKEN ABSENT

Requested Turnaround Time and-or Special Instructions:
Last COC / cooler for Kenai Wells project.

ASAP - Call Jason Gray @ 862-6547 to confirm arrival of samples at SGS Lab!

☐ 200 W. Potter Drive **Anchorage, AK 99518** Tel: (907) 562-2343 Fax: (907) 561-5301
☐ 3180 Peger Road **Fairbanks, AK 99701** Tel: (907) 474-8656 Fax: (907) 474-9685
☐ 5500 Business Drive **Wilmington, NC 28405** Tel: (910) 350-1903 Fax: (910) 350-1557

1165682

SGS

Returned Bottles Inventory

Name of individual returning bottles: Jason Gray

Date Received: 9/26/16

Client Name: SLA Alaska-Anchorage

Received by: CN

Project Name: Kenai Wells, Event 2

SGS PM: JAN

HDPE/Nalgene:	1-L	2				
	500-ml	12				
	250-ml or 8-oz	2				
	125-ml or 4-oz	4				
	60-ml or 2-oz					
	other					
amber glass:	1-L	5				
	500-ml					
	250-ml or 8-oz	8				
	125-ml or 4-oz with or without septa	4				
	40-ml VOA vial	27				
	other					
Subtotal:		64				

Note: Returned bottles (regardless of size/pres.) are billed back at $4/bottle ***unless otherwise quoted***.

Amount to Invoice Client $: 256

WO#: 1165682

SGS

e-SAMPLE RECEIPT FORM

1165682

Review Criteria	Y/N (yes/no)	Exceptions Noted below
		exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	Y	1-F, 1-B
COC accompanied samples?	Y	
**exemption permitted if chilled & collected <8hrs ago or chlling not required (i.e., waste, oil)	Y	
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Y	Cooler ID: 22 @ 1.9 °C Therm ID: 11
		Cooler ID: @ °C Therm ID:
		Cooler ID: @ °C Therm ID:
		Cooler ID: @ °C Therm ID:
		Cooler ID: @ °C Therm ID:
*If >6°C, were samples collected <8 hours ago?		
If <0°C, were sample containers ice free?		
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
		Note: Refer to form F-083 "Sample Guide" for hold times.
Were samples received within hold time?	Y	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Y	
**Note: If times differ <1hr, record details & login per COC.		
Were analyses requested unambiguous?	Y	
		***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	Y	
IF APPLICABLE		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?		
Were all VOA vials free of headspace (i.e., bubbles ≤ 6mm)?		
Were all soil VOAs field extracted with MeOH+BFB?		

Note to Client: Any "no" answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1165682001-A	Na2S2O3 for Chlorine Redu	OK			
1165682002-A	Na2S2O3 for Chlorine Redu	OK			

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM- The container was received damaged.
FR- The container was received frozen and not usable for Bacteria or BOD analyses.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-62531-1
Client Project/Site: Kenai Wells, Event 2

For:
SLR International Corp
2700 Gambell Street
Suite 200
Anchorage, Alaska 99503

Attn: Jason Gray

Authorized for release by:
10/4/2016 6:08:13 PM

Robert Greer, Project Manager II
(253)922-2310
robert.greer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Definitions 5
Client Sample Results 6
QC Sample Results 33
Chronicle 59
Certification Summary 61
Sample Summary 63
Chain of Custody 64
Receipt Checklists 68

Case Narrative

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Job ID: 580-62531-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-62531-1

Comments
No additional comments.

Receipt
The samples were received on 9/14/2016 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.3º C and 0.6º C.

Receipt Exceptions

The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Sampler was not specified on COC.

GC/MS VOA
Method(s) 8260C: The method blank for analytical batch 580-227748 contained Naphthalene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 580-227748 recovered outside control limits for the following analytes: N-Propylbenzene, 1,1-Dichloropropene, 1,1-Dichloroethene, cis-1,2-Dichloroethene, Chloroform, Methylene Chloride and trans-1,2-Dichloroethene. These analytes were biased high in the LCS and LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 580227748 recovered outside control limits for the following analytes: multiple analytes.

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-227748 were outside control limits for multiple analytes. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8260C: The following analytes were re-analyzed due to QC deficienciesin the original analysis: Acetone, 2-Butanone, 1,2-Dibromoethane, 1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-Chloropropane, and 1,2,3-Trichloropropane.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The method blank for preparation batch 580-227786 and analytical batch 580-228091 contained Benzoic acid above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270D: 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4-Chloroaniline and Hexachlorocyclopentadiene recovered outside control limits for both LCS and LCSD associated with preparation batch 580-227786 and analytical batch 580-228091. Additionally, 4-Nitroaniline, Benzyl Alcohol and N-Nitrosodiphenylamine had low recovery in the LCSD. These analytes were indicative of a systematic problem; therefore, re-extraction and/or re-analysis was performed. Prep batch 580-228461 was extracted out of hold, and secondary results (with satisfactory quality control) are reported in analytical batch 580-228761.

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 580-227786 recovered outside control limits for the following analytes: 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, Hexachlorocyclopentadiene, 4-Nitroaniline, Anthracene, 3-Nitroaniline, Benzo[k]fluoranthene, N-Nitrosodiphenylamine, Benzo[a]pyrene, Benzyl alcohol, and Di-n-octyl phthalate.

Method(s) 8270D: The Matrix Spike (MS) and Matrix Spike duplicate (MSD) for preparation batch 580-227786 and analytical batch 580-228091 recovered outside control limits for the following analytes: 3,3-Dichlorobenzidine, 3-Nitroaniline (MS only), 4-Chloroaniline, bis(chloroisoproyl) ether. The %RPD for the following analytes was outside control limits: 3,3-Dichlorobenzidine, 4-Chloroaniline, and Bis(2-ethylhezyl) ether.

Job ID: 580-62531-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

Method(s) 8270D: The method blank for preparation batch 580-228461 and analytical batch 580-228761 contained Butyl benzyl phthalate, Diethyl phthalate and Di-n-butyl phthalate above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8270D: 3,3'-Dichlorobenzidine, Hexachlorocyclopentadiene and 4-Chloroaniline recovered outside control limits for the laboratory control sample (LCS) associated with preparation batch 580-228461 and analytical batch 580-228761. This is not indicative of a systematic control problem because these were random marginal exceedances; it is acceptable for up to 5% of targets (in this case 3 analytes) to recover outside control limits when a multi-analyte spike is utilized. Qualified results have been reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 580-228761 recovered above the upper control limit for Hexachlorocyclopentadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: TPW-2-0916 (580-62531-1), TPW-1-0916 (580-62531-2), TPW-1-0916 (580-62531-2[MS]), TPW-1-0916 (580-62531-2[MSD]), TPW-9-0916 (580-62531-3), PQ-W1-0916 (580-62531-4), TPW-5-0916 (580-62531-5), (CCVIS 580-228761/3), (LCS 580-228461/2-A) and (MB 580-228461/1-A).

Method(s) 8270D: The Matrix Spike (MS) and Matrix Spike duplicate (MSD) for preparation batch 580-228461 and analytical batch 580-228091 recovered outside control limits for the following analytes: 3,3-Dichlorobenzidine, 4-Chloroaniline, bis(chloroisoproyl) ether. The %RPD for the following analytes was outside control limits: 3,3-Dichlorobenzidine, 3-Nitroaniline, and 4-Chloroaniline.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA

Method(s) 8011: The following samples were improperly preserved in the field: TPW-2-0916 (580-62531-1), TPW-1-0916 (580-62531-2), TPW-1-0916 (580-62531-2[MS]), TPW-1-0916 (580-62531-2[MSD]), TPW-9-0916 (580-62531-3), PQ-W1-0916 (580-62531-4), TPW-5-0916 (580-62531-5) and TB-1-0916 (580-62531-7). Test America's SOP dictates that samples be preserved with sodium thiosulfate as a dechlorinating agent to scavenge residual chlorine. These samples were unpreserved.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-2-0916

Date Collected: 09/12/16 10:05
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/19/16 15:59	1
Chloromethane	ND		5.0		ug/L			09/19/16 15:59	1
Vinyl chloride	ND		1.0		ug/L			09/19/16 15:59	1
Bromomethane	ND		5.0		ug/L			09/19/16 15:59	1
Chloroethane	ND		5.0		ug/L			09/19/16 15:59	1
Trichlorofluoromethane	ND		3.0		ug/L			09/19/16 15:59	1
1,1-Dichloroethene	ND		2.0		ug/L			09/19/16 15:59	1
Carbon disulfide	ND		1.0		ug/L			09/19/16 15:59	1
Methylene Chloride	ND		5.0		ug/L			09/19/16 15:59	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/19/16 15:59	1
1,1-Dichloroethane	ND		2.0		ug/L			09/19/16 15:59	1
2,2-Dichloropropane	ND		3.0		ug/L			09/19/16 15:59	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/19/16 15:59	1
Bromochloromethane	ND		2.0		ug/L			09/19/16 15:59	1
Chloroform	ND		5.0		ug/L			09/19/16 15:59	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/19/16 15:59	1
Carbon tetrachloride	ND		3.0		ug/L			09/19/16 15:59	1
1,1-Dichloropropene	ND		3.0		ug/L			09/19/16 15:59	1
Benzene	ND		2.0		ug/L			09/19/16 15:59	1
1,2-Dichloroethane	ND		1.0		ug/L			09/19/16 15:59	1
Trichloroethene	ND		3.0		ug/L			09/19/16 15:59	1
1,2-Dichloropropane	ND		1.0		ug/L			09/19/16 15:59	1
Dibromomethane	ND		1.0		ug/L			09/19/16 15:59	1
Bromodichloromethane	ND		2.0		ug/L			09/19/16 15:59	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/19/16 15:59	1
4-Methyl-2-pentanone	ND		15		ug/L			09/19/16 15:59	1
Toluene	ND		2.0		ug/L			09/19/16 15:59	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/19/16 15:59	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/19/16 15:59	1
Tetrachloroethene	ND		3.0		ug/L			09/19/16 15:59	1
1,3-Dichloropropane	ND		1.0		ug/L			09/19/16 15:59	1
2-Hexanone	ND		20		ug/L			09/19/16 15:59	1
Dibromochloromethane	ND		1.0		ug/L			09/19/16 15:59	1
Chlorobenzene	ND		2.0		ug/L			09/19/16 15:59	1
Ethylbenzene	ND		3.0		ug/L			09/19/16 15:59	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/19/16 15:59	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/19/16 15:59	1
o-Xylene	ND		2.0		ug/L			09/19/16 15:59	1
Styrene	ND		5.0		ug/L			09/19/16 15:59	1
Bromoform	ND		1.0		ug/L			09/19/16 15:59	1
Isopropylbenzene	ND		2.0		ug/L			09/19/16 15:59	1
Bromobenzene	ND		2.0		ug/L			09/19/16 15:59	1
N-Propylbenzene	ND		3.0		ug/L			09/19/16 15:59	1
4-Chlorotoluene	ND		2.0		ug/L			09/19/16 15:59	1
t-Butylbenzene	ND		3.0		ug/L			09/19/16 15:59	1
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/19/16 15:59	1
sec-Butylbenzene	ND		3.0		ug/L			09/19/16 15:59	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/19/16 15:59	1
4-Isopropyltoluene	ND		3.0		ug/L			09/19/16 15:59	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-2-0916

Date Collected: 09/12/16 10:05
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		4.0		ug/L			09/19/16 15:59	1
n-Butylbenzene	ND		3.0		ug/L			09/19/16 15:59	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/19/16 15:59	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/19/16 15:59	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/19/16 15:59	1
Hexachlorobutadiene	ND		2.0		ug/L			09/19/16 15:59	1
Naphthalene	ND		2.0		ug/L			09/19/16 15:59	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/19/16 15:59	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/19/16 15:59	1
2-Chlorotoluene	ND		3.0		ug/L			09/19/16 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*82 - 122*		*09/19/16 15:59*	*1*
4-Bromofluorobenzene (Surr)	*96*		*75 - 125*		*09/19/16 15:59*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 118*		*09/19/16 15:59*	*1*
Trifluorotoluene (Surr)	*113*		*80 - 141*		*09/19/16 15:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 143*		*09/19/16 15:59*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50		ug/L			09/20/16 17:57	1
2-Butanone	ND		20		ug/L			09/20/16 17:57	1
1,2-Dibromoethane	ND		1.0		ug/L			09/20/16 17:57	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/20/16 17:57	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/20/16 17:57	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/16 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*82 - 122*		*09/20/16 17:57*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 125*		*09/20/16 17:57*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 118*		*09/20/16 17:57*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 141*		*09/20/16 17:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 143*		*09/20/16 17:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
1,2-Dichlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
1,3-Dichlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
1,4-Dichlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
1-Methylnaphthalene	**0.23**		0.061		ug/L		09/19/16 11:31	09/22/16 17:40	1
2,4,5-Trichlorophenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
2,4,6-Trichlorophenol	ND		0.61		ug/L		09/19/16 11:31	09/22/16 17:40	1
2,4-Dichlorophenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/19/16 11:31	09/22/16 17:40	1
2,4-Dinitrophenol	ND		5.1		ug/L		09/19/16 11:31	09/22/16 17:40	1
2,4-Dinitrotoluene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
2,6-Dinitrotoluene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
2-Chloronaphthalene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 17:40	1
2-Chlorophenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-2-0916

Date Collected: 09/12/16 10:05
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**0.21**		0.20		ug/L		09/19/16 11:31	09/22/16 17:40	1
2-Methylphenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
2-Nitroaniline	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
2-Nitrophenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
3 & 4 Methylphenol	ND		0.81		ug/L		09/19/16 11:31	09/22/16 17:40	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/19/16 11:31	09/22/16 17:40	1
3-Nitroaniline	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
4,6-Dinitro-2-methylphenol	ND		4.1		ug/L		09/19/16 11:31	09/22/16 17:40	1
4-Bromophenyl phenyl ether	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
4-Chloro-3-methylphenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
4-Chloroaniline	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
4-Chlorophenyl phenyl ether	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
4-Nitroaniline	ND		0.61		ug/L		09/19/16 11:31	09/22/16 17:40	1
4-Nitrophenol	ND		3.0		ug/L		09/19/16 11:31	09/22/16 17:40	1
Acenaphthene	ND		0.10		ug/L		09/19/16 11:31	09/22/16 17:40	1
Acenaphthylene	ND		0.081		ug/L		09/19/16 11:31	09/22/16 17:40	1
Anthracene	ND		0.041		ug/L		09/19/16 11:31	09/22/16 17:40	1
Benzo[a]anthracene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 17:40	1
Benzo[a]pyrene	ND		0.041		ug/L		09/19/16 11:31	09/22/16 17:40	1
Benzo[b]fluoranthene	ND		0.081		ug/L		09/19/16 11:31	09/22/16 17:40	1
Benzo[g,h,i]perylene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 17:40	1
Benzo[k]fluoranthene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 17:40	1
Benzoic acid	ND		3.0		ug/L		09/19/16 11:31	09/22/16 17:40	1
Benzyl alcohol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
Bis(2-chloroethoxy)methane	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
Bis(2-chloroethyl)ether	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
Bis(2-ethylhexyl) phthalate	ND		3.0		ug/L		09/19/16 11:31	09/22/16 17:40	1
bis(chloroisopropyl) ether	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
Butyl benzyl phthalate	**1.4**		0.61		ug/L		09/19/16 11:31	09/22/16 17:40	1
Carbazole	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
Chrysene	ND		0.041		ug/L		09/19/16 11:31	09/22/16 17:40	1
Dibenz(a,h)anthracene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 17:40	1
Dibenzofuran	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
Diethyl phthalate	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
Dimethyl phthalate	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
Di-n-butyl phthalate	**1.3**		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
Di-n-octyl phthalate	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
Fluoranthene	ND		0.051		ug/L		09/19/16 11:31	09/22/16 17:40	1
Fluorene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 17:40	1
Hexachlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
Hexachlorobutadiene	ND		0.61		ug/L		09/19/16 11:31	09/22/16 17:40	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/19/16 11:31	09/22/16 17:40	1
Hexachloroethane	ND		0.61		ug/L		09/19/16 11:31	09/22/16 17:40	1
Indeno[1,2,3-cd]pyrene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 17:40	1
Isophorone	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
Naphthalene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
Nitrobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
N-Nitrosodi-n-propylamine	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1
N-Nitrosodiphenylamine	ND		0.41		ug/L		09/19/16 11:31	09/22/16 17:40	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-2-0916

Date Collected: 09/12/16 10:05
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.71		ug/L		09/19/16 11:31	09/22/16 17:40	1
Phenanthrene	ND		0.081		ug/L		09/19/16 11:31	09/22/16 17:40	1
Phenol	ND		0.61		ug/L		09/19/16 11:31	09/22/16 17:40	1
Pyrene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*57 - 132*	*09/19/16 11:31*	*09/22/16 17:40*	*1*
2-Fluorobiphenyl	*81*		*50 - 120*	*09/19/16 11:31*	*09/22/16 17:40*	*1*
2-Fluorophenol (Surr)	*84*		*50 - 113*	*09/19/16 11:31*	*09/22/16 17:40*	*1*
Nitrobenzene-d5 (Surr)	*89*		*59 - 120*	*09/19/16 11:31*	*09/22/16 17:40*	*1*
Phenol-d5 (Surr)	*86*		*52 - 120*	*09/19/16 11:31*	*09/22/16 17:40*	*1*
Terphenyl-d14 (Surr)	*95*		*72 - 140*	*09/19/16 11:31*	*09/22/16 17:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
1,2-Dichlorobenzene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
1,3-Dichlorobenzene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
1,4-Dichlorobenzene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
1-Methylnaphthalene	**0.22**	**H**	0.061		ug/L		09/27/16 14:37	09/30/16 15:32	1
2,4,5-Trichlorophenol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
2,4,6-Trichlorophenol	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 15:32	1
2,4-Dichlorophenol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
2,4-Dimethylphenol	ND	H	2.0		ug/L		09/27/16 14:37	09/30/16 15:32	1
2,4-Dinitrophenol	ND	H	5.1		ug/L		09/27/16 14:37	09/30/16 15:32	1
2,4-Dinitrotoluene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
2,6-Dinitrotoluene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
2-Chloronaphthalene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:32	1
2-Chlorophenol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
2-Methylnaphthalene	**0.20**	**H**	0.20		ug/L		09/27/16 14:37	09/30/16 15:32	1
2-Methylphenol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
2-Nitroaniline	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
2-Nitrophenol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
3 & 4 Methylphenol	ND	H	0.82		ug/L		09/27/16 14:37	09/30/16 15:32	1
3,3'-Dichlorobenzidine	ND	H	2.0		ug/L		09/27/16 14:37	09/30/16 15:32	1
3-Nitroaniline	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
4,6-Dinitro-2-methylphenol	ND	H	4.1		ug/L		09/27/16 14:37	09/30/16 15:32	1
4-Bromophenyl phenyl ether	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
4-Chloro-3-methylphenol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
4-Chloroaniline	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
4-Chlorophenyl phenyl ether	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
4-Nitroaniline	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 15:32	1
4-Nitrophenol	ND	H	3.1		ug/L		09/27/16 14:37	09/30/16 15:32	1
Acenaphthene	ND	H	0.10		ug/L		09/27/16 14:37	09/30/16 15:32	1
Acenaphthylene	ND	H	0.082		ug/L		09/27/16 14:37	09/30/16 15:32	1
Anthracene	ND	H	0.041		ug/L		09/27/16 14:37	09/30/16 15:32	1
Benzo[a]anthracene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:32	1
Benzo[a]pyrene	ND	H	0.041		ug/L		09/27/16 14:37	09/30/16 15:32	1
Benzo[b]fluoranthene	ND	H	0.082		ug/L		09/27/16 14:37	09/30/16 15:32	1
Benzo[g,h,i]perylene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:32	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-2-0916

Date Collected: 09/12/16 10:05
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:32	1
Benzoic acid	ND	H	3.1		ug/L		09/27/16 14:37	09/30/16 15:32	1
Benzyl alcohol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Bis(2-chloroethoxy)methane	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Bis(2-chloroethyl)ether	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Bis(2-ethylhexyl) phthalate	ND	H	3.1		ug/L		09/27/16 14:37	09/30/16 15:32	1
bis(chloroisopropyl) ether	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Butyl benzyl phthalate	**1.4**	**H B**	0.61		ug/L		09/27/16 14:37	09/30/16 15:32	1
Carbazole	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Chrysene	ND	H	0.041		ug/L		09/27/16 14:37	09/30/16 15:32	1
Dibenz(a,h)anthracene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:32	1
Dibenzofuran	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Diethyl phthalate	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Dimethyl phthalate	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Di-n-butyl phthalate	**1.3**	**H B**	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Di-n-octyl phthalate	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Fluoranthene	ND	H	0.051		ug/L		09/27/16 14:37	09/30/16 15:32	1
Fluorene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:32	1
Hexachlorobenzene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Hexachlorobutadiene	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 15:32	1
Hexachlorocyclopentadiene	ND	H	2.0		ug/L		09/27/16 14:37	09/30/16 15:32	1
Hexachloroethane	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 15:32	1
Indeno[1,2,3-cd]pyrene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:32	1
Isophorone	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Naphthalene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Nitrobenzene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
N-Nitrosodi-n-propylamine	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
N-Nitrosodiphenylamine	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 15:32	1
Pentachlorophenol	ND	H	0.72		ug/L		09/27/16 14:37	09/30/16 15:32	1
Phenanthrene	ND	H	0.082		ug/L		09/27/16 14:37	09/30/16 15:32	1
Phenol	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 15:32	1
Pyrene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*57 - 132*	*09/27/16 14:37*	*09/30/16 15:32*	*1*
2-Fluorobiphenyl	*75*		*50 - 120*	*09/27/16 14:37*	*09/30/16 15:32*	*1*
2-Fluorophenol (Surr)	*77*		*50 - 113*	*09/27/16 14:37*	*09/30/16 15:32*	*1*
Nitrobenzene-d5 (Surr)	*78*		*59 - 120*	*09/27/16 14:37*	*09/30/16 15:32*	*1*
Phenol-d5 (Surr)	*81*		*52 - 120*	*09/27/16 14:37*	*09/30/16 15:32*	*1*
Terphenyl-d14 (Surr)	*102*		*72 - 140*	*09/27/16 14:37*	*09/30/16 15:32*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/21/16 16:50	09/21/16 23:52	1
1,2-Dibromoethane	ND		0.020		ug/L		09/21/16 16:50	09/21/16 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*117*		*70 - 130*	*09/21/16 16:50*	*09/21/16 23:52*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-1-0916

Date Collected: 09/12/16 11:57
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/19/16 19:20	1
Chloromethane	ND		5.0		ug/L			09/19/16 19:20	1
Vinyl chloride	ND		1.0		ug/L			09/19/16 19:20	1
Bromomethane	ND		5.0		ug/L			09/19/16 19:20	1
Chloroethane	ND		5.0		ug/L			09/19/16 19:20	1
Trichlorofluoromethane	ND		3.0		ug/L			09/19/16 19:20	1
1,1-Dichloroethene	ND		2.0		ug/L			09/19/16 19:20	1
Carbon disulfide	ND		1.0		ug/L			09/19/16 19:20	1
Methylene Chloride	ND		5.0		ug/L			09/19/16 19:20	1
trans-1,2-Dichloroethene	ND	F1	3.0		ug/L			09/19/16 19:20	1
1,1-Dichloroethane	ND		2.0		ug/L			09/19/16 19:20	1
2,2-Dichloropropane	ND		3.0		ug/L			09/19/16 19:20	1
cis-1,2-Dichloroethene	ND	F1	1.0		ug/L			09/19/16 19:20	1
Bromochloromethane	ND		2.0		ug/L			09/19/16 19:20	1
Chloroform	ND	F1	5.0		ug/L			09/19/16 19:20	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/19/16 19:20	1
Carbon tetrachloride	ND	F1	3.0		ug/L			09/19/16 19:20	1
1,1-Dichloropropene	ND		3.0		ug/L			09/19/16 19:20	1
Benzene	ND		2.0		ug/L			09/19/16 19:20	1
1,2-Dichloroethane	ND		1.0		ug/L			09/19/16 19:20	1
Trichloroethene	ND		3.0		ug/L			09/19/16 19:20	1
1,2-Dichloropropane	ND		1.0		ug/L			09/19/16 19:20	1
Dibromomethane	ND		1.0		ug/L			09/19/16 19:20	1
Bromodichloromethane	ND		2.0		ug/L			09/19/16 19:20	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/19/16 19:20	1
4-Methyl-2-pentanone	ND		15		ug/L			09/19/16 19:20	1
Toluene	ND		2.0		ug/L			09/19/16 19:20	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/19/16 19:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/19/16 19:20	1
Tetrachloroethene	ND		3.0		ug/L			09/19/16 19:20	1
1,3-Dichloropropane	ND		1.0		ug/L			09/19/16 19:20	1
2-Hexanone	ND		20		ug/L			09/19/16 19:20	1
Dibromochloromethane	ND		1.0		ug/L			09/19/16 19:20	1
Chlorobenzene	ND		2.0		ug/L			09/19/16 19:20	1
Ethylbenzene	ND		3.0		ug/L			09/19/16 19:20	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/19/16 19:20	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/19/16 19:20	1
o-Xylene	ND		2.0		ug/L			09/19/16 19:20	1
Styrene	ND		5.0		ug/L			09/19/16 19:20	1
Bromoform	ND		1.0		ug/L			09/19/16 19:20	1
Isopropylbenzene	ND		2.0		ug/L			09/19/16 19:20	1
Bromobenzene	ND		2.0		ug/L			09/19/16 19:20	1
N-Propylbenzene	ND		3.0		ug/L			09/19/16 19:20	1
4-Chlorotoluene	ND		2.0		ug/L			09/19/16 19:20	1
t-Butylbenzene	ND		3.0		ug/L			09/19/16 19:20	1
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/19/16 19:20	1
sec-Butylbenzene	ND		3.0		ug/L			09/19/16 19:20	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/19/16 19:20	1
4-Isopropyltoluene	ND		3.0		ug/L			09/19/16 19:20	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-1-0916

Date Collected: 09/12/16 11:57
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		4.0		ug/L			09/19/16 19:20	1
n-Butylbenzene	ND		3.0		ug/L			09/19/16 19:20	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/19/16 19:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/19/16 19:20	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/19/16 19:20	1
Hexachlorobutadiene	ND		2.0		ug/L			09/19/16 19:20	1
Naphthalene	ND		2.0		ug/L			09/19/16 19:20	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/19/16 19:20	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/19/16 19:20	1
2-Chlorotoluene	ND		3.0		ug/L			09/19/16 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*82 - 122*		*09/19/16 19:20*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 125*		*09/19/16 19:20*	*1*
Dibromofluoromethane (Surr)	*106*		*77 - 118*		*09/19/16 19:20*	*1*
Trifluorotoluene (Surr)	*109*		*80 - 141*		*09/19/16 19:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 143*		*09/19/16 19:20*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50		ug/L			09/20/16 19:23	1
2-Butanone	ND		20		ug/L			09/20/16 19:23	1
1,2-Dibromoethane	ND		1.0		ug/L			09/20/16 19:23	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/20/16 19:23	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/20/16 19:23	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/16 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*82 - 122*		*09/20/16 19:23*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 125*		*09/20/16 19:23*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 118*		*09/20/16 19:23*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 141*		*09/20/16 19:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*65 - 143*		*09/20/16 19:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
1,2-Dichlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
1,3-Dichlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
1,4-Dichlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
1-Methylnaphthalene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 18:05	1
2,4,5-Trichlorophenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
2,4,6-Trichlorophenol	ND		0.61		ug/L		09/19/16 11:31	09/22/16 18:05	1
2,4-Dichlorophenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/19/16 11:31	09/22/16 18:05	1
2,4-Dinitrophenol	ND		5.1		ug/L		09/19/16 11:31	09/22/16 18:05	1
2,4-Dinitrotoluene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
2,6-Dinitrotoluene	**0.47**		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
2-Chloronaphthalene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 18:05	1
2-Chlorophenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-1-0916

Date Collected: 09/12/16 11:57
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.20		ug/L		09/19/16 11:31	09/22/16 18:05	1
2-Methylphenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
2-Nitroaniline	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
2-Nitrophenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
3 & 4 Methylphenol	ND		0.81		ug/L		09/19/16 11:31	09/22/16 18:05	1
3,3'-Dichlorobenzidine	ND	F1	2.0		ug/L		09/19/16 11:31	09/22/16 18:05	1
3-Nitroaniline	ND	F1	0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
4,6-Dinitro-2-methylphenol	ND		4.0		ug/L		09/19/16 11:31	09/22/16 18:05	1
4-Bromophenyl phenyl ether	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
4-Chloro-3-methylphenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
4-Chloroaniline	ND	F1	0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
4-Chlorophenyl phenyl ether	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
4-Nitroaniline	ND		0.61		ug/L		09/19/16 11:31	09/22/16 18:05	1
4-Nitrophenol	ND		3.0		ug/L		09/19/16 11:31	09/22/16 18:05	1
Acenaphthene	ND		0.10		ug/L		09/19/16 11:31	09/22/16 18:05	1
Acenaphthylene	ND		0.081		ug/L		09/19/16 11:31	09/22/16 18:05	1
Anthracene	ND		0.040		ug/L		09/19/16 11:31	09/22/16 18:05	1
Benzo[a]anthracene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 18:05	1
Benzo[a]pyrene	ND		0.040		ug/L		09/19/16 11:31	09/22/16 18:05	1
Benzo[b]fluoranthene	ND		0.081		ug/L		09/19/16 11:31	09/22/16 18:05	1
Benzo[g,h,i]perylene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 18:05	1
Benzo[k]fluoranthene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 18:05	1
Benzoic acid	ND		3.0		ug/L		09/19/16 11:31	09/22/16 18:05	1
Benzyl alcohol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
Bis(2-chloroethoxy)methane	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
Bis(2-chloroethyl)ether	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
Bis(2-ethylhexyl) phthalate	ND	F1 F2	3.0		ug/L		09/19/16 11:31	09/22/16 18:05	1
bis(chloroisopropyl) ether	ND	F1 F2	0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
Butyl benzyl phthalate	ND		0.61		ug/L		09/19/16 11:31	09/22/16 18:05	1
Carbazole	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
Chrysene	ND		0.040		ug/L		09/19/16 11:31	09/22/16 18:05	1
Dibenz(a,h)anthracene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 18:05	1
Dibenzofuran	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
Diethyl phthalate	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
Dimethyl phthalate	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
Di-n-butyl phthalate	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
Di-n-octyl phthalate	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
Fluoranthene	ND		0.051		ug/L		09/19/16 11:31	09/22/16 18:05	1
Fluorene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 18:05	1
Hexachlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
Hexachlorobutadiene	ND		0.61		ug/L		09/19/16 11:31	09/22/16 18:05	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/19/16 11:31	09/22/16 18:05	1
Hexachloroethane	ND		0.61		ug/L		09/19/16 11:31	09/22/16 18:05	1
Indeno[1,2,3-cd]pyrene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 18:05	1
Isophorone	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
Naphthalene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
Nitrobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
N-Nitrosodi-n-propylamine	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1
N-Nitrosodiphenylamine	ND		0.40		ug/L		09/19/16 11:31	09/22/16 18:05	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-1-0916

Date Collected: 09/12/16 11:57
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.71		ug/L		09/19/16 11:31	09/22/16 18:05	1
Phenanthrene	ND		0.081		ug/L		09/19/16 11:31	09/22/16 18:05	1
Phenol	ND		0.61		ug/L		09/19/16 11:31	09/22/16 18:05	1
Pyrene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*57 - 132*	*09/19/16 11:31*	*09/22/16 18:05*	*1*
2-Fluorobiphenyl	*82*		*50 - 120*	*09/19/16 11:31*	*09/22/16 18:05*	*1*
2-Fluorophenol (Surr)	*82*		*50 - 113*	*09/19/16 11:31*	*09/22/16 18:05*	*1*
Nitrobenzene-d5 (Surr)	*87*		*59 - 120*	*09/19/16 11:31*	*09/22/16 18:05*	*1*
Phenol-d5 (Surr)	*82*		*52 - 120*	*09/19/16 11:31*	*09/22/16 18:05*	*1*
Terphenyl-d14 (Surr)	*92*		*72 - 140*	*09/19/16 11:31*	*09/22/16 18:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
1,2-Dichlorobenzene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
1,3-Dichlorobenzene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
1,4-Dichlorobenzene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
1-Methylnaphthalene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:57	1
2,4,5-Trichlorophenol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
2,4,6-Trichlorophenol	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 15:57	1
2,4-Dichlorophenol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
2,4-Dimethylphenol	ND	H	2.0		ug/L		09/27/16 14:37	09/30/16 15:57	1
2,4-Dinitrophenol	ND	H	5.0		ug/L		09/27/16 14:37	09/30/16 15:57	1
2,4-Dinitrotoluene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
2,6-Dinitrotoluene	**0.42**	**H**	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
2-Chloronaphthalene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:57	1
2-Chlorophenol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
2-Methylnaphthalene	ND	H	0.20		ug/L		09/27/16 14:37	09/30/16 15:57	1
2-Methylphenol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
2-Nitroaniline	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
2-Nitrophenol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
3 & 4 Methylphenol	ND	H	0.81		ug/L		09/27/16 14:37	09/30/16 15:57	1
3,3'-Dichlorobenzidine	ND	H F1 F2	2.0		ug/L		09/27/16 14:37	09/30/16 15:57	1
3-Nitroaniline	ND	H F2	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
4,6-Dinitro-2-methylphenol	ND	H	4.0		ug/L		09/27/16 14:37	09/30/16 15:57	1
4-Bromophenyl phenyl ether	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
4-Chloro-3-methylphenol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
4-Chloroaniline	ND	H F1	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
4-Chlorophenyl phenyl ether	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
4-Nitroaniline	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 15:57	1
4-Nitrophenol	ND	H	3.0		ug/L		09/27/16 14:37	09/30/16 15:57	1
Acenaphthene	ND	H	0.10		ug/L		09/27/16 14:37	09/30/16 15:57	1
Acenaphthylene	ND	H	0.081		ug/L		09/27/16 14:37	09/30/16 15:57	1
Anthracene	ND	H	0.040		ug/L		09/27/16 14:37	09/30/16 15:57	1
Benzo[a]anthracene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:57	1
Benzo[a]pyrene	ND	H	0.040		ug/L		09/27/16 14:37	09/30/16 15:57	1
Benzo[b]fluoranthene	ND	H	0.081		ug/L		09/27/16 14:37	09/30/16 15:57	1
Benzo[g,h,i]perylene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:57	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-1-0916

Date Collected: 09/12/16 11:57
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:57	1
Benzoic acid	ND	H	3.0		ug/L		09/27/16 14:37	09/30/16 15:57	1
Benzyl alcohol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Bis(2-chloroethoxy)methane	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Bis(2-chloroethyl)ether	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Bis(2-ethylhexyl) phthalate	ND	H F1	3.0		ug/L		09/27/16 14:37	09/30/16 15:57	1
bis(chloroisopropyl) ether	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Butyl benzyl phthalate	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 15:57	1
Carbazole	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Chrysene	ND	H	0.040		ug/L		09/27/16 14:37	09/30/16 15:57	1
Dibenz(a,h)anthracene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:57	1
Dibenzofuran	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Diethyl phthalate	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Dimethyl phthalate	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Di-n-butyl phthalate	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Di-n-octyl phthalate	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Fluoranthene	ND	H	0.050		ug/L		09/27/16 14:37	09/30/16 15:57	1
Fluorene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:57	1
Hexachlorobenzene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Hexachlorobutadiene	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 15:57	1
Hexachlorocyclopentadiene	ND	H	2.0		ug/L		09/27/16 14:37	09/30/16 15:57	1
Hexachloroethane	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 15:57	1
Indeno[1,2,3-cd]pyrene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:57	1
Isophorone	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Naphthalene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Nitrobenzene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
N-Nitrosodi-n-propylamine	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
N-Nitrosodiphenylamine	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 15:57	1
Pentachlorophenol	ND	H	0.71		ug/L		09/27/16 14:37	09/30/16 15:57	1
Phenanthrene	ND	H	0.081		ug/L		09/27/16 14:37	09/30/16 15:57	1
Phenol	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 15:57	1
Pyrene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*57 - 132*	*09/27/16 14:37*	*09/30/16 15:57*	*1*
2-Fluorobiphenyl	*83*		*50 - 120*	*09/27/16 14:37*	*09/30/16 15:57*	*1*
2-Fluorophenol (Surr)	*83*		*50 - 113*	*09/27/16 14:37*	*09/30/16 15:57*	*1*
Nitrobenzene-d5 (Surr)	*91*		*59 - 120*	*09/27/16 14:37*	*09/30/16 15:57*	*1*
Phenol-d5 (Surr)	*89*		*52 - 120*	*09/27/16 14:37*	*09/30/16 15:57*	*1*
Terphenyl-d14 (Surr)	*101*		*72 - 140*	*09/27/16 14:37*	*09/30/16 15:57*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/21/16 16:50	09/21/16 20:20	1
1,2-Dibromoethane	ND		0.020		ug/L		09/21/16 16:50	09/21/16 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*114*		*70 - 130*	*09/21/16 16:50*	*09/21/16 20:20*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-9-0916

Date Collected: 09/12/16 11:57
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/19/16 16:27	1
Chloromethane	ND		5.0		ug/L			09/19/16 16:27	1
Vinyl chloride	ND		1.0		ug/L			09/19/16 16:27	1
Bromomethane	ND		5.0		ug/L			09/19/16 16:27	1
Chloroethane	ND		5.0		ug/L			09/19/16 16:27	1
Trichlorofluoromethane	ND		3.0		ug/L			09/19/16 16:27	1
1,1-Dichloroethene	ND		2.0		ug/L			09/19/16 16:27	1
Carbon disulfide	ND		1.0		ug/L			09/19/16 16:27	1
Methylene Chloride	ND		5.0		ug/L			09/19/16 16:27	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/19/16 16:27	1
1,1-Dichloroethane	ND		2.0		ug/L			09/19/16 16:27	1
2,2-Dichloropropane	ND		3.0		ug/L			09/19/16 16:27	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/19/16 16:27	1
Bromochloromethane	ND		2.0		ug/L			09/19/16 16:27	1
Chloroform	ND		5.0		ug/L			09/19/16 16:27	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/19/16 16:27	1
Carbon tetrachloride	ND		3.0		ug/L			09/19/16 16:27	1
1,1-Dichloropropene	ND		3.0		ug/L			09/19/16 16:27	1
Benzene	ND		2.0		ug/L			09/19/16 16:27	1
1,2-Dichloroethane	ND		1.0		ug/L			09/19/16 16:27	1
Trichloroethene	ND		3.0		ug/L			09/19/16 16:27	1
1,2-Dichloropropane	ND		1.0		ug/L			09/19/16 16:27	1
Dibromomethane	ND		1.0		ug/L			09/19/16 16:27	1
Bromodichloromethane	ND		2.0		ug/L			09/19/16 16:27	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/19/16 16:27	1
4-Methyl-2-pentanone	ND		15		ug/L			09/19/16 16:27	1
Toluene	ND		2.0		ug/L			09/19/16 16:27	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/19/16 16:27	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/19/16 16:27	1
Tetrachloroethene	ND		3.0		ug/L			09/19/16 16:27	1
1,3-Dichloropropane	ND		1.0		ug/L			09/19/16 16:27	1
2-Hexanone	ND		20		ug/L			09/19/16 16:27	1
Dibromochloromethane	ND		1.0		ug/L			09/19/16 16:27	1
Chlorobenzene	ND		2.0		ug/L			09/19/16 16:27	1
Ethylbenzene	ND		3.0		ug/L			09/19/16 16:27	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/19/16 16:27	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/19/16 16:27	1
o-Xylene	ND		2.0		ug/L			09/19/16 16:27	1
Styrene	ND		5.0		ug/L			09/19/16 16:27	1
Bromoform	ND		1.0		ug/L			09/19/16 16:27	1
Isopropylbenzene	ND		2.0		ug/L			09/19/16 16:27	1
Bromobenzene	ND		2.0		ug/L			09/19/16 16:27	1
N-Propylbenzene	ND		3.0		ug/L			09/19/16 16:27	1
4-Chlorotoluene	ND		2.0		ug/L			09/19/16 16:27	1
t-Butylbenzene	ND		3.0		ug/L			09/19/16 16:27	1
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/19/16 16:27	1
sec-Butylbenzene	ND		3.0		ug/L			09/19/16 16:27	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/19/16 16:27	1
4-Isopropyltoluene	ND		3.0		ug/L			09/19/16 16:27	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-9-0916
Date Collected: 09/12/16 11:57
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		4.0		ug/L			09/19/16 16:27	1
n-Butylbenzene	ND		3.0		ug/L			09/19/16 16:27	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/19/16 16:27	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/19/16 16:27	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/19/16 16:27	1
Hexachlorobutadiene	ND		2.0		ug/L			09/19/16 16:27	1
Naphthalene	ND		2.0		ug/L			09/19/16 16:27	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/19/16 16:27	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/19/16 16:27	1
2-Chlorotoluene	ND		3.0		ug/L			09/19/16 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*82 - 122*		*09/19/16 16:27*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 125*		*09/19/16 16:27*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 118*		*09/19/16 16:27*	*1*
Trifluorotoluene (Surr)	*110*		*80 - 141*		*09/19/16 16:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*65 - 143*		*09/19/16 16:27*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50		ug/L			09/20/16 18:26	1
2-Butanone	ND		20		ug/L			09/20/16 18:26	1
1,2-Dibromoethane	ND		1.0		ug/L			09/20/16 18:26	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/20/16 18:26	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/20/16 18:26	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/16 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*82 - 122*		*09/20/16 18:26*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 125*		*09/20/16 18:26*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 118*		*09/20/16 18:26*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 141*		*09/20/16 18:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*65 - 143*		*09/20/16 18:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
1,2-Dichlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
1,3-Dichlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
1,4-Dichlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
1-Methylnaphthalene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:20	1
2,4,5-Trichlorophenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
2,4,6-Trichlorophenol	ND		0.61		ug/L		09/19/16 11:31	09/22/16 19:20	1
2,4-Dichlorophenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/19/16 11:31	09/22/16 19:20	1
2,4-Dinitrophenol	ND		5.1		ug/L		09/19/16 11:31	09/22/16 19:20	1
2,4-Dinitrotoluene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
2,6-Dinitrotoluene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
2-Chloronaphthalene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:20	1
2-Chlorophenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-9-0916

Date Collected: 09/12/16 11:57
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.20		ug/L		09/19/16 11:31	09/22/16 19:20	1
2-Methylphenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
2-Nitroaniline	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
2-Nitrophenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
3 & 4 Methylphenol	ND		0.81		ug/L		09/19/16 11:31	09/22/16 19:20	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/19/16 11:31	09/22/16 19:20	1
3-Nitroaniline	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
4,6-Dinitro-2-methylphenol	ND		4.1		ug/L		09/19/16 11:31	09/22/16 19:20	1
4-Bromophenyl phenyl ether	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
4-Chloro-3-methylphenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
4-Chloroaniline	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
4-Chlorophenyl phenyl ether	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
4-Nitroaniline	ND		0.61		ug/L		09/19/16 11:31	09/22/16 19:20	1
4-Nitrophenol	ND		3.0		ug/L		09/19/16 11:31	09/22/16 19:20	1
Acenaphthene	ND		0.10		ug/L		09/19/16 11:31	09/22/16 19:20	1
Acenaphthylene	ND		0.081		ug/L		09/19/16 11:31	09/22/16 19:20	1
Anthracene	ND		0.041		ug/L		09/19/16 11:31	09/22/16 19:20	1
Benzo[a]anthracene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:20	1
Benzo[a]pyrene	ND		0.041		ug/L		09/19/16 11:31	09/22/16 19:20	1
Benzo[b]fluoranthene	ND		0.081		ug/L		09/19/16 11:31	09/22/16 19:20	1
Benzo[g,h,i]perylene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:20	1
Benzo[k]fluoranthene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:20	1
Benzoic acid	ND		3.0		ug/L		09/19/16 11:31	09/22/16 19:20	1
Benzyl alcohol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
Bis(2-chloroethoxy)methane	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
Bis(2-chloroethyl)ether	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
Bis(2-ethylhexyl) phthalate	ND		3.0		ug/L		09/19/16 11:31	09/22/16 19:20	1
bis(chloroisopropyl) ether	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
Butyl benzyl phthalate	ND		0.61		ug/L		09/19/16 11:31	09/22/16 19:20	1
Carbazole	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
Chrysene	ND		0.041		ug/L		09/19/16 11:31	09/22/16 19:20	1
Dibenz(a,h)anthracene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:20	1
Dibenzofuran	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
Diethyl phthalate	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
Dimethyl phthalate	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
Di-n-butyl phthalate	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
Di-n-octyl phthalate	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
Fluoranthene	ND		0.051		ug/L		09/19/16 11:31	09/22/16 19:20	1
Fluorene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:20	1
Hexachlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
Hexachlorobutadiene	ND		0.61		ug/L		09/19/16 11:31	09/22/16 19:20	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/19/16 11:31	09/22/16 19:20	1
Hexachloroethane	ND		0.61		ug/L		09/19/16 11:31	09/22/16 19:20	1
Indeno[1,2,3-cd]pyrene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:20	1
Isophorone	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
Naphthalene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
Nitrobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
N-Nitrosodi-n-propylamine	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1
N-Nitrosodiphenylamine	ND		0.41		ug/L		09/19/16 11:31	09/22/16 19:20	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-9-0916

Date Collected: 09/12/16 11:57
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.71		ug/L		09/19/16 11:31	09/22/16 19:20	1
Phenanthrene	ND		0.081		ug/L		09/19/16 11:31	09/22/16 19:20	1
Phenol	ND		0.61		ug/L		09/19/16 11:31	09/22/16 19:20	1
Pyrene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*57 - 132*	*09/19/16 11:31*	*09/22/16 19:20*	*1*
2-Fluorobiphenyl	*73*		*50 - 120*	*09/19/16 11:31*	*09/22/16 19:20*	*1*
2-Fluorophenol (Surr)	*70*		*50 - 113*	*09/19/16 11:31*	*09/22/16 19:20*	*1*
Nitrobenzene-d5 (Surr)	*81*		*59 - 120*	*09/19/16 11:31*	*09/22/16 19:20*	*1*
Phenol-d5 (Surr)	*75*		*52 - 120*	*09/19/16 11:31*	*09/22/16 19:20*	*1*
Terphenyl-d14 (Surr)	*86*		*72 - 140*	*09/19/16 11:31*	*09/22/16 19:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
1,2-Dichlorobenzene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
1,3-Dichlorobenzene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
1,4-Dichlorobenzene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
1-Methylnaphthalene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 17:13	1
2,4,5-Trichlorophenol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
2,4,6-Trichlorophenol	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 17:13	1
2,4-Dichlorophenol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
2,4-Dimethylphenol	ND	H	2.0		ug/L		09/27/16 14:37	09/30/16 17:13	1
2,4-Dinitrophenol	ND	H	5.1		ug/L		09/27/16 14:37	09/30/16 17:13	1
2,4-Dinitrotoluene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
2,6-Dinitrotoluene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
2-Chloronaphthalene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 17:13	1
2-Chlorophenol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
2-Methylnaphthalene	ND	H	0.20		ug/L		09/27/16 14:37	09/30/16 17:13	1
2-Methylphenol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
2-Nitroaniline	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
2-Nitrophenol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
3 & 4 Methylphenol	ND	H	0.81		ug/L		09/27/16 14:37	09/30/16 17:13	1
3,3'-Dichlorobenzidine	ND	H	2.0		ug/L		09/27/16 14:37	09/30/16 17:13	1
3-Nitroaniline	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
4,6-Dinitro-2-methylphenol	ND	H	4.1		ug/L		09/27/16 14:37	09/30/16 17:13	1
4-Bromophenyl phenyl ether	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
4-Chloro-3-methylphenol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
4-Chloroaniline	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
4-Chlorophenyl phenyl ether	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
4-Nitroaniline	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 17:13	1
4-Nitrophenol	ND	H	3.0		ug/L		09/27/16 14:37	09/30/16 17:13	1
Acenaphthene	ND	H	0.10		ug/L		09/27/16 14:37	09/30/16 17:13	1
Acenaphthylene	ND	H	0.081		ug/L		09/27/16 14:37	09/30/16 17:13	1
Anthracene	ND	H	0.041		ug/L		09/27/16 14:37	09/30/16 17:13	1
Benzo[a]anthracene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 17:13	1
Benzo[a]pyrene	ND	H	0.041		ug/L		09/27/16 14:37	09/30/16 17:13	1
Benzo[b]fluoranthene	ND	H	0.081		ug/L		09/27/16 14:37	09/30/16 17:13	1
Benzo[g,h,i]perylene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 17:13	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-9-0916

Date Collected: 09/12/16 11:57
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 17:13	1
Benzoic acid	ND	H	3.0		ug/L		09/27/16 14:37	09/30/16 17:13	1
Benzyl alcohol	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Bis(2-chloroethoxy)methane	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Bis(2-chloroethyl)ether	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Bis(2-ethylhexyl) phthalate	ND	H	3.0		ug/L		09/27/16 14:37	09/30/16 17:13	1
bis(chloroisopropyl) ether	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Butyl benzyl phthalate	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 17:13	1
Carbazole	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Chrysene	ND	H	0.041		ug/L		09/27/16 14:37	09/30/16 17:13	1
Dibenz(a,h)anthracene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 17:13	1
Dibenzofuran	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Diethyl phthalate	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Dimethyl phthalate	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Di-n-butyl phthalate	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Di-n-octyl phthalate	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Fluoranthene	ND	H	0.051		ug/L		09/27/16 14:37	09/30/16 17:13	1
Fluorene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 17:13	1
Hexachlorobenzene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Hexachlorobutadiene	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 17:13	1
Hexachlorocyclopentadiene	ND	H	2.0		ug/L		09/27/16 14:37	09/30/16 17:13	1
Hexachloroethane	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 17:13	1
Indeno[1,2,3-cd]pyrene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 17:13	1
Isophorone	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Naphthalene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Nitrobenzene	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
N-Nitrosodi-n-propylamine	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
N-Nitrosodiphenylamine	ND	H	0.41		ug/L		09/27/16 14:37	09/30/16 17:13	1
Pentachlorophenol	ND	H	0.71		ug/L		09/27/16 14:37	09/30/16 17:13	1
Phenanthrene	ND	H	0.081		ug/L		09/27/16 14:37	09/30/16 17:13	1
Phenol	ND	H	0.61		ug/L		09/27/16 14:37	09/30/16 17:13	1
Pyrene	ND	H	0.061		ug/L		09/27/16 14:37	09/30/16 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*108*		*57 - 132*	*09/27/16 14:37*	*09/30/16 17:13*	*1*
2-Fluorobiphenyl	*88*		*50 - 120*	*09/27/16 14:37*	*09/30/16 17:13*	*1*
2-Fluorophenol (Surr)	*98*		*50 - 113*	*09/27/16 14:37*	*09/30/16 17:13*	*1*
Nitrobenzene-d5 (Surr)	*97*		*59 - 120*	*09/27/16 14:37*	*09/30/16 17:13*	*1*
Phenol-d5 (Surr)	*99*		*52 - 120*	*09/27/16 14:37*	*09/30/16 17:13*	*1*
Terphenyl-d14 (Surr)	*113*		*72 - 140*	*09/27/16 14:37*	*09/30/16 17:13*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/21/16 16:50	09/22/16 00:14	1
1,2-Dibromoethane	ND		0.020		ug/L		09/21/16 16:50	09/22/16 00:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*114*		*70 - 130*	*09/21/16 16:50*	*09/22/16 00:14*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: PQ-W1-0916

Date Collected: 09/12/16 15:10
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/19/16 16:56	1
Chloromethane	ND		5.0		ug/L			09/19/16 16:56	1
Vinyl chloride	ND		1.0		ug/L			09/19/16 16:56	1
Bromomethane	ND		5.0		ug/L			09/19/16 16:56	1
Chloroethane	ND		5.0		ug/L			09/19/16 16:56	1
Trichlorofluoromethane	ND		3.0		ug/L			09/19/16 16:56	1
1,1-Dichloroethene	ND		2.0		ug/L			09/19/16 16:56	1
Carbon disulfide	ND		1.0		ug/L			09/19/16 16:56	1
Methylene Chloride	ND		5.0		ug/L			09/19/16 16:56	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/19/16 16:56	1
1,1-Dichloroethane	ND		2.0		ug/L			09/19/16 16:56	1
2,2-Dichloropropane	ND		3.0		ug/L			09/19/16 16:56	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/19/16 16:56	1
Bromochloromethane	ND		2.0		ug/L			09/19/16 16:56	1
Chloroform	ND		5.0		ug/L			09/19/16 16:56	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/19/16 16:56	1
Carbon tetrachloride	ND		3.0		ug/L			09/19/16 16:56	1
1,1-Dichloropropene	ND		3.0		ug/L			09/19/16 16:56	1
Benzene	**6.6**		2.0		ug/L			09/19/16 16:56	1
1,2-Dichloroethane	ND		1.0		ug/L			09/19/16 16:56	1
Trichloroethene	ND		3.0		ug/L			09/19/16 16:56	1
1,2-Dichloropropane	ND		1.0		ug/L			09/19/16 16:56	1
Dibromomethane	ND		1.0		ug/L			09/19/16 16:56	1
Bromodichloromethane	ND		2.0		ug/L			09/19/16 16:56	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/19/16 16:56	1
4-Methyl-2-pentanone	ND		15		ug/L			09/19/16 16:56	1
Toluene	ND		2.0		ug/L			09/19/16 16:56	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/19/16 16:56	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/19/16 16:56	1
Tetrachloroethene	ND		3.0		ug/L			09/19/16 16:56	1
1,3-Dichloropropane	ND		1.0		ug/L			09/19/16 16:56	1
2-Hexanone	ND		20		ug/L			09/19/16 16:56	1
Dibromochloromethane	ND		1.0		ug/L			09/19/16 16:56	1
Chlorobenzene	ND		2.0		ug/L			09/19/16 16:56	1
Ethylbenzene	ND		3.0		ug/L			09/19/16 16:56	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/19/16 16:56	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/19/16 16:56	1
o-Xylene	ND		2.0		ug/L			09/19/16 16:56	1
Styrene	ND		5.0		ug/L			09/19/16 16:56	1
Bromoform	ND		1.0		ug/L			09/19/16 16:56	1
Isopropylbenzene	ND		2.0		ug/L			09/19/16 16:56	1
Bromobenzene	ND		2.0		ug/L			09/19/16 16:56	1
N-Propylbenzene	ND		3.0		ug/L			09/19/16 16:56	1
4-Chlorotoluene	ND		2.0		ug/L			09/19/16 16:56	1
t-Butylbenzene	ND		3.0		ug/L			09/19/16 16:56	1
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/19/16 16:56	1
sec-Butylbenzene	ND		3.0		ug/L			09/19/16 16:56	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/19/16 16:56	1
4-Isopropyltoluene	ND		3.0		ug/L			09/19/16 16:56	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: PQ-W1-0916

Date Collected: 09/12/16 15:10
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		4.0		ug/L			09/19/16 16:56	1
n-Butylbenzene	ND		3.0		ug/L			09/19/16 16:56	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/19/16 16:56	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/19/16 16:56	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/19/16 16:56	1
Hexachlorobutadiene	ND		2.0		ug/L			09/19/16 16:56	1
Naphthalene	ND		2.0		ug/L			09/19/16 16:56	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/19/16 16:56	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/19/16 16:56	1
2-Chlorotoluene	ND		3.0		ug/L			09/19/16 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*82 - 122*		*09/19/16 16:56*	*1*
4-Bromofluorobenzene (Surr)	*100*		*75 - 125*		*09/19/16 16:56*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 118*		*09/19/16 16:56*	*1*
Trifluorotoluene (Surr)	*108*		*80 - 141*		*09/19/16 16:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*65 - 143*		*09/19/16 16:56*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50		ug/L			09/20/16 18:55	1
2-Butanone	ND		20		ug/L			09/20/16 18:55	1
1,2-Dibromoethane	ND		1.0		ug/L			09/20/16 18:55	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/20/16 18:55	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/20/16 18:55	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/16 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*82 - 122*		*09/20/16 18:55*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 125*		*09/20/16 18:55*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 118*		*09/20/16 18:55*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 141*		*09/20/16 18:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 143*		*09/20/16 18:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
1,2-Dichlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
1,3-Dichlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
1,4-Dichlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
1-Methylnaphthalene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:45	1
2,4,5-Trichlorophenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
2,4,6-Trichlorophenol	ND		0.61		ug/L		09/19/16 11:31	09/22/16 19:45	1
2,4-Dichlorophenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/19/16 11:31	09/22/16 19:45	1
2,4-Dinitrophenol	ND		5.1		ug/L		09/19/16 11:31	09/22/16 19:45	1
2,4-Dinitrotoluene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
2,6-Dinitrotoluene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
2-Chloronaphthalene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:45	1
2-Chlorophenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: PQ-W1-0916

Date Collected: 09/12/16 15:10
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.20		ug/L		09/19/16 11:31	09/22/16 19:45	1
2-Methylphenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
2-Nitroaniline	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
2-Nitrophenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
3 & 4 Methylphenol	ND		0.81		ug/L		09/19/16 11:31	09/22/16 19:45	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/19/16 11:31	09/22/16 19:45	1
3-Nitroaniline	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
4,6-Dinitro-2-methylphenol	ND		4.0		ug/L		09/19/16 11:31	09/22/16 19:45	1
4-Bromophenyl phenyl ether	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
4-Chloro-3-methylphenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
4-Chloroaniline	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
4-Chlorophenyl phenyl ether	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
4-Nitroaniline	ND		0.61		ug/L		09/19/16 11:31	09/22/16 19:45	1
4-Nitrophenol	ND		3.0		ug/L		09/19/16 11:31	09/22/16 19:45	1
Acenaphthene	ND		0.10		ug/L		09/19/16 11:31	09/22/16 19:45	1
Acenaphthylene	ND		0.081		ug/L		09/19/16 11:31	09/22/16 19:45	1
Anthracene	ND		0.040		ug/L		09/19/16 11:31	09/22/16 19:45	1
Benzo[a]anthracene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:45	1
Benzo[a]pyrene	ND		0.040		ug/L		09/19/16 11:31	09/22/16 19:45	1
Benzo[b]fluoranthene	ND		0.081		ug/L		09/19/16 11:31	09/22/16 19:45	1
Benzo[g,h,i]perylene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:45	1
Benzo[k]fluoranthene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:45	1
Benzoic acid	**6.5**		3.0		ug/L		09/19/16 11:31	09/22/16 19:45	1
Benzyl alcohol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
Bis(2-chloroethoxy)methane	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
Bis(2-chloroethyl)ether	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
Bis(2-ethylhexyl) phthalate	ND		3.0		ug/L		09/19/16 11:31	09/22/16 19:45	1
bis(chloroisopropyl) ether	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
Butyl benzyl phthalate	ND		0.61		ug/L		09/19/16 11:31	09/22/16 19:45	1
Carbazole	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
Chrysene	ND		0.040		ug/L		09/19/16 11:31	09/22/16 19:45	1
Dibenz(a,h)anthracene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:45	1
Dibenzofuran	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
Diethyl phthalate	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
Dimethyl phthalate	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
Di-n-butyl phthalate	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
Di-n-octyl phthalate	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
Fluoranthene	ND		0.051		ug/L		09/19/16 11:31	09/22/16 19:45	1
Fluorene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:45	1
Hexachlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
Hexachlorobutadiene	ND		0.61		ug/L		09/19/16 11:31	09/22/16 19:45	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/19/16 11:31	09/22/16 19:45	1
Hexachloroethane	ND		0.61		ug/L		09/19/16 11:31	09/22/16 19:45	1
Indeno[1,2,3-cd]pyrene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:45	1
Isophorone	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
Naphthalene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
Nitrobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
N-Nitrosodi-n-propylamine	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1
N-Nitrosodiphenylamine	ND		0.40		ug/L		09/19/16 11:31	09/22/16 19:45	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: PQ-W1-0916

Date Collected: 09/12/16 15:10
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	ND		0.71		ug/L		09/19/16 11:31	09/22/16 19:45	1
Phenanthrene	ND		0.081		ug/L		09/19/16 11:31	09/22/16 19:45	1
Phenol	**1.2**		0.61		ug/L		09/19/16 11:31	09/22/16 19:45	1
Pyrene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*57 - 132*	*09/19/16 11:31*	*09/22/16 19:45*	*1*
2-Fluorobiphenyl	*75*		*50 - 120*	*09/19/16 11:31*	*09/22/16 19:45*	*1*
2-Fluorophenol (Surr)	*74*		*50 - 113*	*09/19/16 11:31*	*09/22/16 19:45*	*1*
Nitrobenzene-d5 (Surr)	*80*		*59 - 120*	*09/19/16 11:31*	*09/22/16 19:45*	*1*
Phenol-d5 (Surr)	*77*		*52 - 120*	*09/19/16 11:31*	*09/22/16 19:45*	*1*
Terphenyl-d14 (Surr)	*93*		*72 - 140*	*09/19/16 11:31*	*09/22/16 19:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
1,2-Dichlorobenzene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
1,3-Dichlorobenzene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
1,4-Dichlorobenzene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
1-Methylnaphthalene	ND	H	0.060		ug/L		09/27/16 14:37	09/30/16 17:39	1
2,4,5-Trichlorophenol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
2,4,6-Trichlorophenol	ND	H	0.60		ug/L		09/27/16 14:37	09/30/16 17:39	1
2,4-Dichlorophenol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
2,4-Dimethylphenol	ND	H	2.0		ug/L		09/27/16 14:37	09/30/16 17:39	1
2,4-Dinitrophenol	ND	H	5.0		ug/L		09/27/16 14:37	09/30/16 17:39	1
2,4-Dinitrotoluene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
2,6-Dinitrotoluene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
2-Chloronaphthalene	ND	H	0.060		ug/L		09/27/16 14:37	09/30/16 17:39	1
2-Chlorophenol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
2-Methylnaphthalene	ND	H	0.20		ug/L		09/27/16 14:37	09/30/16 17:39	1
2-Methylphenol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
2-Nitroaniline	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
2-Nitrophenol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
3 & 4 Methylphenol	ND	H	0.81		ug/L		09/27/16 14:37	09/30/16 17:39	1
3,3'-Dichlorobenzidine	ND	H	2.0		ug/L		09/27/16 14:37	09/30/16 17:39	1
3-Nitroaniline	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
4,6-Dinitro-2-methylphenol	ND	H	4.0		ug/L		09/27/16 14:37	09/30/16 17:39	1
4-Bromophenyl phenyl ether	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
4-Chloro-3-methylphenol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
4-Chloroaniline	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
4-Chlorophenyl phenyl ether	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
4-Nitroaniline	ND	H	0.60		ug/L		09/27/16 14:37	09/30/16 17:39	1
4-Nitrophenol	ND	H	3.0		ug/L		09/27/16 14:37	09/30/16 17:39	1
Acenaphthene	ND	H	0.10		ug/L		09/27/16 14:37	09/30/16 17:39	1
Acenaphthylene	ND	H	0.081		ug/L		09/27/16 14:37	09/30/16 17:39	1
Anthracene	ND	H	0.040		ug/L		09/27/16 14:37	09/30/16 17:39	1
Benzo[a]anthracene	ND	H	0.060		ug/L		09/27/16 14:37	09/30/16 17:39	1
Benzo[a]pyrene	ND	H	0.040		ug/L		09/27/16 14:37	09/30/16 17:39	1
Benzo[b]fluoranthene	ND	H	0.081		ug/L		09/27/16 14:37	09/30/16 17:39	1
Benzo[g,h,i]perylene	ND	H	0.060		ug/L		09/27/16 14:37	09/30/16 17:39	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: PQ-W1-0916

Date Collected: 09/12/16 15:10
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	ND	H	0.060		ug/L		09/27/16 14:37	09/30/16 17:39	1
Benzoic acid	**7.7**	**H**	3.0		ug/L		09/27/16 14:37	09/30/16 17:39	1
Benzyl alcohol	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Bis(2-chloroethoxy)methane	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Bis(2-chloroethyl)ether	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Bis(2-ethylhexyl) phthalate	ND	H	3.0		ug/L		09/27/16 14:37	09/30/16 17:39	1
bis(chloroisopropyl) ether	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Butyl benzyl phthalate	ND	H	0.60		ug/L		09/27/16 14:37	09/30/16 17:39	1
Carbazole	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Chrysene	ND	H	0.040		ug/L		09/27/16 14:37	09/30/16 17:39	1
Dibenz(a,h)anthracene	ND	H	0.060		ug/L		09/27/16 14:37	09/30/16 17:39	1
Dibenzofuran	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Diethyl phthalate	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Dimethyl phthalate	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Di-n-butyl phthalate	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Di-n-octyl phthalate	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Fluoranthene	ND	H	0.050		ug/L		09/27/16 14:37	09/30/16 17:39	1
Fluorene	ND	H	0.060		ug/L		09/27/16 14:37	09/30/16 17:39	1
Hexachlorobenzene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Hexachlorobutadiene	ND	H	0.60		ug/L		09/27/16 14:37	09/30/16 17:39	1
Hexachlorocyclopentadiene	ND	H	2.0		ug/L		09/27/16 14:37	09/30/16 17:39	1
Hexachloroethane	ND	H	0.60		ug/L		09/27/16 14:37	09/30/16 17:39	1
Indeno[1,2,3-cd]pyrene	ND	H	0.060		ug/L		09/27/16 14:37	09/30/16 17:39	1
Isophorone	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Naphthalene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Nitrobenzene	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
N-Nitrosodi-n-propylamine	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
N-Nitrosodiphenylamine	ND	H	0.40		ug/L		09/27/16 14:37	09/30/16 17:39	1
Pentachlorophenol	ND	H	0.70		ug/L		09/27/16 14:37	09/30/16 17:39	1
Phenanthrene	ND	H	0.081		ug/L		09/27/16 14:37	09/30/16 17:39	1
Phenol	**1.3**	**H**	0.60		ug/L		09/27/16 14:37	09/30/16 17:39	1
Pyrene	ND	H	0.060		ug/L		09/27/16 14:37	09/30/16 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*101*		*57 - 132*	*09/27/16 14:37*	*09/30/16 17:39*	*1*
2-Fluorobiphenyl	*82*		*50 - 120*	*09/27/16 14:37*	*09/30/16 17:39*	*1*
2-Fluorophenol (Surr)	*83*		*50 - 113*	*09/27/16 14:37*	*09/30/16 17:39*	*1*
Nitrobenzene-d5 (Surr)	*87*		*59 - 120*	*09/27/16 14:37*	*09/30/16 17:39*	*1*
Phenol-d5 (Surr)	*85*		*52 - 120*	*09/27/16 14:37*	*09/30/16 17:39*	*1*
Terphenyl-d14 (Surr)	*108*		*72 - 140*	*09/27/16 14:37*	*09/30/16 17:39*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/21/16 16:50	09/22/16 00:33	1
1,2-Dibromoethane	ND		0.020		ug/L		09/21/16 16:50	09/22/16 00:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*119*		*70 - 130*	*09/21/16 16:50*	*09/22/16 00:33*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-5-0916

Date Collected: 09/12/16 16:44
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
1,2-Dichlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
1,3-Dichlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
1,4-Dichlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
1-Methylnaphthalene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 20:10	1
2,4,5-Trichlorophenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
2,4,6-Trichlorophenol	ND		0.61		ug/L		09/19/16 11:31	09/22/16 20:10	1
2,4-Dichlorophenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/19/16 11:31	09/22/16 20:10	1
2,4-Dinitrophenol	ND		5.1		ug/L		09/19/16 11:31	09/22/16 20:10	1
2,4-Dinitrotoluene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
2,6-Dinitrotoluene	**1.3**		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
2-Chloronaphthalene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 20:10	1
2-Chlorophenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
2-Methylnaphthalene	ND		0.20		ug/L		09/19/16 11:31	09/22/16 20:10	1
2-Methylphenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
2-Nitroaniline	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
2-Nitrophenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
3 & 4 Methylphenol	ND		0.82		ug/L		09/19/16 11:31	09/22/16 20:10	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/19/16 11:31	09/22/16 20:10	1
3-Nitroaniline	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
4,6-Dinitro-2-methylphenol	ND		4.1		ug/L		09/19/16 11:31	09/22/16 20:10	1
4-Bromophenyl phenyl ether	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
4-Chloro-3-methylphenol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
4-Chloroaniline	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
4-Chlorophenyl phenyl ether	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
4-Nitroaniline	ND		0.61		ug/L		09/19/16 11:31	09/22/16 20:10	1
4-Nitrophenol	ND		3.1		ug/L		09/19/16 11:31	09/22/16 20:10	1
Acenaphthene	ND		0.10		ug/L		09/19/16 11:31	09/22/16 20:10	1
Acenaphthylene	ND		0.082		ug/L		09/19/16 11:31	09/22/16 20:10	1
Anthracene	ND		0.041		ug/L		09/19/16 11:31	09/22/16 20:10	1
Benzo[a]anthracene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 20:10	1
Benzo[a]pyrene	ND		0.041		ug/L		09/19/16 11:31	09/22/16 20:10	1
Benzo[b]fluoranthene	ND		0.082		ug/L		09/19/16 11:31	09/22/16 20:10	1
Benzo[g,h,i]perylene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 20:10	1
Benzo[k]fluoranthene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 20:10	1
Benzoic acid	ND		3.1		ug/L		09/19/16 11:31	09/22/16 20:10	1
Benzyl alcohol	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
Bis(2-chloroethoxy)methane	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
Bis(2-chloroethyl)ether	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
Bis(2-ethylhexyl) phthalate	ND		3.1		ug/L		09/19/16 11:31	09/22/16 20:10	1
bis(chloroisopropyl) ether	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
Butyl benzyl phthalate	ND		0.61		ug/L		09/19/16 11:31	09/22/16 20:10	1
Carbazole	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
Chrysene	ND		0.041		ug/L		09/19/16 11:31	09/22/16 20:10	1
Dibenz(a,h)anthracene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 20:10	1
Dibenzofuran	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
Diethyl phthalate	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
Dimethyl phthalate	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-5-0916

Date Collected: 09/12/16 16:44
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-butyl phthalate	**3.8**		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
Di-n-octyl phthalate	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
Fluoranthene	ND		0.051		ug/L		09/19/16 11:31	09/22/16 20:10	1
Fluorene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 20:10	1
Hexachlorobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
Hexachlorobutadiene	ND		0.61		ug/L		09/19/16 11:31	09/22/16 20:10	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/19/16 11:31	09/22/16 20:10	1
Hexachloroethane	ND		0.61		ug/L		09/19/16 11:31	09/22/16 20:10	1
Indeno[1,2,3-cd]pyrene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 20:10	1
Isophorone	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
Naphthalene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
Nitrobenzene	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
N-Nitrosodi-n-propylamine	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
N-Nitrosodiphenylamine	ND		0.41		ug/L		09/19/16 11:31	09/22/16 20:10	1
Pentachlorophenol	ND		0.72		ug/L		09/19/16 11:31	09/22/16 20:10	1
Phenanthrene	ND		0.082		ug/L		09/19/16 11:31	09/22/16 20:10	1
Phenol	**1.0**		0.61		ug/L		09/19/16 11:31	09/22/16 20:10	1
Pyrene	ND		0.061		ug/L		09/19/16 11:31	09/22/16 20:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*99*		*57 - 132*	*09/19/16 11:31*	*09/22/16 20:10*	*1*
2-Fluorobiphenyl	*87*		*50 - 120*	*09/19/16 11:31*	*09/22/16 20:10*	*1*
2-Fluorophenol (Surr)	*85*		*50 - 113*	*09/19/16 11:31*	*09/22/16 20:10*	*1*
Nitrobenzene-d5 (Surr)	*95*		*59 - 120*	*09/19/16 11:31*	*09/22/16 20:10*	*1*
Phenol-d5 (Surr)	*87*		*52 - 120*	*09/19/16 11:31*	*09/22/16 20:10*	*1*
Terphenyl-d14 (Surr)	*103*		*72 - 140*	*09/19/16 11:31*	*09/22/16 20:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
1,2-Dichlorobenzene	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
1,3-Dichlorobenzene	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
1,4-Dichlorobenzene	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
1-Methylnaphthalene	ND	H	0.063		ug/L		09/27/16 14:37	09/30/16 18:04	1
2,4,5-Trichlorophenol	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
2,4,6-Trichlorophenol	ND	H	0.63		ug/L		09/27/16 14:37	09/30/16 18:04	1
2,4-Dichlorophenol	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
2,4-Dimethylphenol	ND	H	2.1		ug/L		09/27/16 14:37	09/30/16 18:04	1
2,4-Dinitrophenol	ND	H	5.2		ug/L		09/27/16 14:37	09/30/16 18:04	1
2,4-Dinitrotoluene	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
2,6-Dinitrotoluene	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
2-Chloronaphthalene	ND	H	0.063		ug/L		09/27/16 14:37	09/30/16 18:04	1
2-Chlorophenol	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
2-Methylnaphthalene	ND	H	0.21		ug/L		09/27/16 14:37	09/30/16 18:04	1
2-Methylphenol	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
2-Nitroaniline	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
2-Nitrophenol	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
3 & 4 Methylphenol	ND	H	0.83		ug/L		09/27/16 14:37	09/30/16 18:04	1
3,3'-Dichlorobenzidine	ND	H	2.1		ug/L		09/27/16 14:37	09/30/16 18:04	1
3-Nitroaniline	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-5-0916

Date Collected: 09/12/16 16:44
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	ND	H	4.2		ug/L		09/27/16 14:37	09/30/16 18:04	1
4-Bromophenyl phenyl ether	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
4-Chloro-3-methylphenol	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
4-Chloroaniline	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
4-Chlorophenyl phenyl ether	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
4-Nitroaniline	ND	H	0.63		ug/L		09/27/16 14:37	09/30/16 18:04	1
4-Nitrophenol	ND	H	3.1		ug/L		09/27/16 14:37	09/30/16 18:04	1
Acenaphthene	ND	H	0.10		ug/L		09/27/16 14:37	09/30/16 18:04	1
Acenaphthylene	ND	H	0.083		ug/L		09/27/16 14:37	09/30/16 18:04	1
Anthracene	ND	H	0.042		ug/L		09/27/16 14:37	09/30/16 18:04	1
Benzo[a]anthracene	ND	H	0.063		ug/L		09/27/16 14:37	09/30/16 18:04	1
Benzo[a]pyrene	ND	H	0.042		ug/L		09/27/16 14:37	09/30/16 18:04	1
Benzo[b]fluoranthene	ND	H	0.083		ug/L		09/27/16 14:37	09/30/16 18:04	1
Benzo[g,h,i]perylene	ND	H	0.063		ug/L		09/27/16 14:37	09/30/16 18:04	1
Benzo[k]fluoranthene	ND	H	0.063		ug/L		09/27/16 14:37	09/30/16 18:04	1
Benzoic acid	ND	H	3.1		ug/L		09/27/16 14:37	09/30/16 18:04	1
Benzyl alcohol	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Bis(2-chloroethoxy)methane	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Bis(2-chloroethyl)ether	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Bis(2-ethylhexyl) phthalate	ND	H	3.1		ug/L		09/27/16 14:37	09/30/16 18:04	1
bis(chloroisopropyl) ether	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Butyl benzyl phthalate	ND	H	0.63		ug/L		09/27/16 14:37	09/30/16 18:04	1
Carbazole	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Chrysene	ND	H	0.042		ug/L		09/27/16 14:37	09/30/16 18:04	1
Dibenz(a,h)anthracene	ND	H	0.063		ug/L		09/27/16 14:37	09/30/16 18:04	1
Dibenzofuran	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Diethyl phthalate	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Dimethyl phthalate	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Di-n-butyl phthalate	**3.5**	**H B**	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Di-n-octyl phthalate	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Fluoranthene	ND	H	0.052		ug/L		09/27/16 14:37	09/30/16 18:04	1
Fluorene	ND	H	0.063		ug/L		09/27/16 14:37	09/30/16 18:04	1
Hexachlorobenzene	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Hexachlorobutadiene	ND	H	0.63		ug/L		09/27/16 14:37	09/30/16 18:04	1
Hexachlorocyclopentadiene	ND	H	2.1		ug/L		09/27/16 14:37	09/30/16 18:04	1
Hexachloroethane	ND	H	0.63		ug/L		09/27/16 14:37	09/30/16 18:04	1
Indeno[1,2,3-cd]pyrene	ND	H	0.063		ug/L		09/27/16 14:37	09/30/16 18:04	1
Isophorone	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Naphthalene	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Nitrobenzene	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
N-Nitrosodi-n-propylamine	**3.0**	**H**	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
N-Nitrosodiphenylamine	ND	H	0.42		ug/L		09/27/16 14:37	09/30/16 18:04	1
Pentachlorophenol	ND	H	0.73		ug/L		09/27/16 14:37	09/30/16 18:04	1
Phenanthrene	ND	H	0.083		ug/L		09/27/16 14:37	09/30/16 18:04	1
Phenol	**0.76**	**H**	0.63		ug/L		09/27/16 14:37	09/30/16 18:04	1
Pyrene	ND	H	0.063		ug/L		09/27/16 14:37	09/30/16 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*95*		*57 - 132*	*09/27/16 14:37*	*09/30/16 18:04*	*1*
2-Fluorobiphenyl	*77*		*50 - 120*	*09/27/16 14:37*	*09/30/16 18:04*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-5-0916

Lab Sample ID: 580-62531-5
Date Collected: 09/12/16 16:44
Matrix: Water
Date Received: 09/14/16 09:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol (Surr)	*79*		*50 - 113*	*09/27/16 14:37*	*09/30/16 18:04*	*1*
Nitrobenzene-d5 (Surr)	*93*		*59 - 120*	*09/27/16 14:37*	*09/30/16 18:04*	*1*
Phenol-d5 (Surr)	*80*		*52 - 120*	*09/27/16 14:37*	*09/30/16 18:04*	*1*
Terphenyl-d14 (Surr)	*100*		*72 - 140*	*09/27/16 14:37*	*09/30/16 18:04*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/21/16 16:50	09/22/16 01:13	1
1,2-Dibromoethane	ND		0.020		ug/L		09/21/16 16:50	09/22/16 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*126*		*70 - 130*	*09/21/16 16:50*	*09/22/16 01:13*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Client Sample ID: TB-2-0916
Date Collected: 09/12/16 10:05
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/19/16 12:39	1
Chloromethane	ND		5.0		ug/L			09/19/16 12:39	1
Vinyl chloride	ND		1.0		ug/L			09/19/16 12:39	1
Bromomethane	ND		5.0		ug/L			09/19/16 12:39	1
Chloroethane	ND		5.0		ug/L			09/19/16 12:39	1
Trichlorofluoromethane	ND		3.0		ug/L			09/19/16 12:39	1
1,1-Dichloroethene	ND		2.0		ug/L			09/19/16 12:39	1
Carbon disulfide	ND		1.0		ug/L			09/19/16 12:39	1
Methylene Chloride	ND		5.0		ug/L			09/19/16 12:39	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/19/16 12:39	1
1,1-Dichloroethane	ND		2.0		ug/L			09/19/16 12:39	1
2,2-Dichloropropane	ND		3.0		ug/L			09/19/16 12:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/19/16 12:39	1
Bromochloromethane	ND		2.0		ug/L			09/19/16 12:39	1
Chloroform	ND		5.0		ug/L			09/19/16 12:39	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/19/16 12:39	1
Carbon tetrachloride	ND		3.0		ug/L			09/19/16 12:39	1
1,1-Dichloropropene	ND		3.0		ug/L			09/19/16 12:39	1
Benzene	ND		2.0		ug/L			09/19/16 12:39	1
1,2-Dichloroethane	ND		1.0		ug/L			09/19/16 12:39	1
Trichloroethene	ND		3.0		ug/L			09/19/16 12:39	1
1,2-Dichloropropane	ND		1.0		ug/L			09/19/16 12:39	1
Dibromomethane	ND		1.0		ug/L			09/19/16 12:39	1
Bromodichloromethane	ND		2.0		ug/L			09/19/16 12:39	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/19/16 12:39	1
4-Methyl-2-pentanone	ND		15		ug/L			09/19/16 12:39	1
Toluene	ND		2.0		ug/L			09/19/16 12:39	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/19/16 12:39	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/19/16 12:39	1
Tetrachloroethene	ND		3.0		ug/L			09/19/16 12:39	1
1,3-Dichloropropane	ND		1.0		ug/L			09/19/16 12:39	1
2-Hexanone	ND		20		ug/L			09/19/16 12:39	1
Dibromochloromethane	ND		1.0		ug/L			09/19/16 12:39	1
Chlorobenzene	ND		2.0		ug/L			09/19/16 12:39	1
Ethylbenzene	ND		3.0		ug/L			09/19/16 12:39	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/19/16 12:39	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/19/16 12:39	1
o-Xylene	ND		2.0		ug/L			09/19/16 12:39	1
Styrene	ND		5.0		ug/L			09/19/16 12:39	1
Bromoform	ND		1.0		ug/L			09/19/16 12:39	1
Isopropylbenzene	ND		2.0		ug/L			09/19/16 12:39	1
Bromobenzene	ND		2.0		ug/L			09/19/16 12:39	1
N-Propylbenzene	ND		3.0		ug/L			09/19/16 12:39	1
4-Chlorotoluene	ND		2.0		ug/L			09/19/16 12:39	1
t-Butylbenzene	ND		3.0		ug/L			09/19/16 12:39	1
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/19/16 12:39	1
sec-Butylbenzene	ND		3.0		ug/L			09/19/16 12:39	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/19/16 12:39	1
4-Isopropyltoluene	ND		3.0		ug/L			09/19/16 12:39	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TB-2-0916

Date Collected: 09/12/16 10:05
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		4.0		ug/L			09/19/16 12:39	1
n-Butylbenzene	ND		3.0		ug/L			09/19/16 12:39	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/19/16 12:39	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/19/16 12:39	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/19/16 12:39	1
Hexachlorobutadiene	ND		2.0		ug/L			09/19/16 12:39	1
Naphthalene	ND		2.0		ug/L			09/19/16 12:39	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/19/16 12:39	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/19/16 12:39	1
2-Chlorotoluene	ND		3.0		ug/L			09/19/16 12:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*82 - 122*		*09/19/16 12:39*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 125*		*09/19/16 12:39*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 118*		*09/19/16 12:39*	*1*
Trifluorotoluene (Surr)	*112*		*80 - 141*		*09/19/16 12:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*65 - 143*		*09/19/16 12:39*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50		ug/L			09/20/16 13:40	1
2-Butanone	ND		20		ug/L			09/20/16 13:40	1
1,2-Dibromoethane	ND		1.0		ug/L			09/20/16 13:40	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/20/16 13:40	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/20/16 13:40	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/16 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*82 - 122*		*09/20/16 13:40*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 125*		*09/20/16 13:40*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 118*		*09/20/16 13:40*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 141*		*09/20/16 13:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 143*		*09/20/16 13:40*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Client Sample ID: TB-1-0916

Date Collected: 09/12/16 10:05
Date Received: 09/14/16 09:00

Lab Sample ID: 580-62531-7

Matrix: Water

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/21/16 16:50	09/22/16 01:34	1
1,2-Dibromoethane	ND		0.020		ug/L		09/21/16 16:50	09/22/16 01:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*115*		*70 - 130*	*09/21/16 16:50*	*09/22/16 01:34*	*1*

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-227748/4
Matrix: Water
Analysis Batch: 227748

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/19/16 09:47	1
Chloromethane	ND		5.0		ug/L			09/19/16 09:47	1
Vinyl chloride	ND		1.0		ug/L			09/19/16 09:47	1
Bromomethane	ND		5.0		ug/L			09/19/16 09:47	1
Chloroethane	ND		5.0		ug/L			09/19/16 09:47	1
Trichlorofluoromethane	ND		3.0		ug/L			09/19/16 09:47	1
1,1-Dichloroethene	ND		2.0		ug/L			09/19/16 09:47	1
Carbon disulfide	ND		1.0		ug/L			09/19/16 09:47	1
Acetone	ND		50		ug/L			09/19/16 09:47	1
Methylene Chloride	ND		5.0		ug/L			09/19/16 09:47	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/19/16 09:47	1
1,1-Dichloroethane	ND		2.0		ug/L			09/19/16 09:47	1
2,2-Dichloropropane	ND		3.0		ug/L			09/19/16 09:47	1
2-Butanone	ND		20		ug/L			09/19/16 09:47	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/19/16 09:47	1
Bromochloromethane	ND		2.0		ug/L			09/19/16 09:47	1
Chloroform	ND		5.0		ug/L			09/19/16 09:47	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/19/16 09:47	1
Carbon tetrachloride	ND		3.0		ug/L			09/19/16 09:47	1
1,1-Dichloropropene	ND		3.0		ug/L			09/19/16 09:47	1
Benzene	ND		2.0		ug/L			09/19/16 09:47	1
1,2-Dichloroethane	ND		1.0		ug/L			09/19/16 09:47	1
Trichloroethene	ND		3.0		ug/L			09/19/16 09:47	1
1,2-Dichloropropane	ND		1.0		ug/L			09/19/16 09:47	1
Dibromomethane	ND		1.0		ug/L			09/19/16 09:47	1
Bromodichloromethane	ND		2.0		ug/L			09/19/16 09:47	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/19/16 09:47	1
4-Methyl-2-pentanone	ND		15		ug/L			09/19/16 09:47	1
Toluene	ND		2.0		ug/L			09/19/16 09:47	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/19/16 09:47	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/19/16 09:47	1
Tetrachloroethene	ND		3.0		ug/L			09/19/16 09:47	1
1,3-Dichloropropane	ND		1.0		ug/L			09/19/16 09:47	1
2-Hexanone	ND		20		ug/L			09/19/16 09:47	1
Dibromochloromethane	ND		1.0		ug/L			09/19/16 09:47	1
1,2-Dibromoethane	ND		1.0		ug/L			09/19/16 09:47	1
Chlorobenzene	ND		2.0		ug/L			09/19/16 09:47	1
Ethylbenzene	ND		3.0		ug/L			09/19/16 09:47	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/19/16 09:47	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/19/16 09:47	1
o-Xylene	ND		2.0		ug/L			09/19/16 09:47	1
Styrene	ND		5.0		ug/L			09/19/16 09:47	1
Bromoform	ND		1.0		ug/L			09/19/16 09:47	1
Isopropylbenzene	ND		2.0		ug/L			09/19/16 09:47	1
Bromobenzene	ND		2.0		ug/L			09/19/16 09:47	1
N-Propylbenzene	ND		3.0		ug/L			09/19/16 09:47	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/19/16 09:47	1
4-Chlorotoluene	ND		2.0		ug/L			09/19/16 09:47	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-227748/4
Matrix: Water
Analysis Batch: 227748

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butylbenzene	ND		3.0		ug/L			09/19/16 09:47	1
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/19/16 09:47	1
sec-Butylbenzene	ND		3.0		ug/L			09/19/16 09:47	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/19/16 09:47	1
4-Isopropyltoluene	ND		3.0		ug/L			09/19/16 09:47	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/19/16 09:47	1
n-Butylbenzene	ND		3.0		ug/L			09/19/16 09:47	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/19/16 09:47	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/19/16 09:47	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/19/16 09:47	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/19/16 09:47	1
Hexachlorobutadiene	ND		2.0		ug/L			09/19/16 09:47	1
Naphthalene	ND		2.0		ug/L			09/19/16 09:47	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/19/16 09:47	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/19/16 09:47	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/19/16 09:47	1
2-Chlorotoluene	ND		3.0		ug/L			09/19/16 09:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*82 - 122*		*09/19/16 09:47*	*1*
4-Bromofluorobenzene (Surr)	*105*		*75 - 125*		*09/19/16 09:47*	*1*
Dibromofluoromethane (Surr)	*107*		*77 - 118*		*09/19/16 09:47*	*1*
Trifluorotoluene (Surr)	*113*		*80 - 141*		*09/19/16 09:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 143*		*09/19/16 09:47*	*1*

Lab Sample ID: LCS 580-227748/5
Matrix: Water
Analysis Batch: 227748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	11.9		ug/L		119	20 - 141
Chloromethane	10.0	8.90		ug/L		89	40 - 149
Vinyl chloride	10.0	9.31		ug/L		93	56 - 114
Bromomethane	10.0	9.09		ug/L		91	55 - 125
Chloroethane	10.0	10.1		ug/L		101	60 - 126
Trichlorofluoromethane	10.0	11.9		ug/L		119	49 - 130
1,1-Dichloroethene	10.1	11.9	*	ug/L		118	70 - 117
Carbon disulfide	10.0	11.6		ug/L		116	63 - 122
Methylene Chloride	10.0	10.3		ug/L		102	70 - 115
trans-1,2-Dichloroethene	10.0	12.7	*	ug/L		126	72 - 113
1,1-Dichloroethane	10.0	12.1		ug/L		121	70 - 135
2,2-Dichloropropane	10.0	12.8		ug/L		128	50 - 140
cis-1,2-Dichloroethene	10.0	11.1		ug/L		111	70 - 111
Bromochloromethane	10.0	9.18		ug/L		92	65 - 120
Chloroform	10.0	12.5	*	ug/L		125	80 - 119
1,1,1-Trichloroethane	10.0	12.3		ug/L		122	65 - 130
Carbon tetrachloride	10.0	12.5		ug/L		124	65 - 124
1,1-Dichloropropene	10.0	12.4	*	ug/L		124	75 - 120

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-227748/5
Matrix: Water
Analysis Batch: 227748

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	10.0	11.5		ug/L		115	80 - 120
1,2-Dichloroethane	10.0	8.41		ug/L		84	58 - 143
Trichloroethene	10.0	11.0		ug/L		110	70 - 125
1,2-Dichloropropane	10.0	10.2		ug/L		102	58 - 150
Dibromomethane	10.0	7.29		ug/L		73	61 - 142
Bromodichloromethane	10.0	10.2		ug/L		102	75 - 120
cis-1,3-Dichloropropene	10.0	9.77		ug/L		97	77 - 117
4-Methyl-2-pentanone	50.0	18.6		ug/L		37	20 - 150
Toluene	10.0	10.7		ug/L		107	75 - 120
trans-1,3-Dichloropropene	10.0	9.09		ug/L		91	73 - 122
1,1,2-Trichloroethane	10.0	7.04		ug/L		70	69 - 135
Tetrachloroethene	10.0	11.5		ug/L		115	70 - 124
1,3-Dichloropropane	10.0	7.63		ug/L		76	69 - 134
2-Hexanone	50.0	17.1	J	ug/L		34	20 - 150
Dibromochloromethane	10.0	8.01		ug/L		80	71 - 118
Chlorobenzene	10.0	11.6		ug/L		116	80 - 120
Ethylbenzene	10.0	12.0		ug/L		119	75 - 119
1,1,1,2-Tetrachloroethane	10.0	11.1		ug/L		110	64 - 130
m-Xylene & p-Xylene	10.0	11.6		ug/L		116	75 - 119
o-Xylene	10.0	11.6		ug/L		116	74 - 120
Styrene	10.0	11.5		ug/L		115	76 - 116
Bromoform	10.0	6.02		ug/L		60	55 - 130
Isopropylbenzene	10.0	11.9		ug/L		119	75 - 125
Bromobenzene	10.0	10.6		ug/L		106	75 - 115
N-Propylbenzene	10.0	12.6	*	ug/L		126	70 - 124
4-Chlorotoluene	10.0	11.5		ug/L		115	68 - 121
t-Butylbenzene	10.0	11.6		ug/L		116	70 - 121
1,2,4-Trimethylbenzene	10.0	11.8		ug/L		118	75 - 121
sec-Butylbenzene	10.0	11.6		ug/L		116	70 - 125
1,3-Dichlorobenzene	10.0	10.9		ug/L		109	72 - 116
4-Isopropyltoluene	10.0	11.8		ug/L		118	66 - 120
1,4-Dichlorobenzene	10.0	10.7		ug/L		106	75 - 117
n-Butylbenzene	10.0	10.6		ug/L		106	70 - 120
1,2-Dichlorobenzene	10.0	9.88		ug/L		99	70 - 120
1,2,4-Trichlorobenzene	10.0	9.35		ug/L		93	56 - 129
1,2,3-Trichlorobenzene	10.0	7.94		ug/L		79	55 - 133
Hexachlorobutadiene	10.0	11.3		ug/L		113	56 - 125
Naphthalene	10.0	5.52		ug/L		55	55 - 134
Methyl tert-butyl ether	10.0	7.77		ug/L		78	65 - 125
1,3,5-Trimethylbenzene	10.0	11.7		ug/L		116	75 - 122
2-Chlorotoluene	10.0	11.9		ug/L		119	69 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*82 - 122*
4-Bromofluorobenzene (Surr)	*100*		*75 - 125*
Dibromofluoromethane (Surr)	*100*		*77 - 118*
Trifluorotoluene (Surr)	*107*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*81*		*65 - 143*

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Lab Sample ID: LCSD 580-227748/6
Matrix: Water
Analysis Batch: 227748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	10.0	11.8		ug/L		118	20 - 141	1	35
Chloromethane	10.0	9.49		ug/L		95	40 - 149	6	22
Vinyl chloride	10.0	9.38		ug/L		94	56 - 114	1	23
Bromomethane	10.0	9.20		ug/L		92	55 - 125	1	30
Chloroethane	10.0	9.83		ug/L		98	60 - 126	3	30
Trichlorofluoromethane	10.0	11.2		ug/L		112	49 - 130	6	35
1,1-Dichloroethene	10.1	10.1		ug/L		100	70 - 117	16	21
Carbon disulfide	10.0	10.2		ug/L		101	63 - 122	13	20
Methylene Chloride	10.0	10.9		ug/L		109	70 - 115	6	19
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	72 - 113	18	21
1,1-Dichloroethane	10.0	10.4		ug/L		104	70 - 135	15	20
2,2-Dichloropropane	10.0	10.1	*	ug/L		101	50 - 140	24	20
cis-1,2-Dichloroethene	10.0	10.8		ug/L		108	70 - 111	2	15
Bromochloromethane	10.0	11.0	*	ug/L		109	65 - 120	18	17
Chloroform	10.0	10.9		ug/L		109	80 - 119	13	15
1,1,1-Trichloroethane	10.0	10.6		ug/L		106	65 - 130	14	18
Carbon tetrachloride	10.0	10.7		ug/L		107	65 - 124	15	19
1,1-Dichloropropene	10.0	10.1	*	ug/L		101	75 - 120	21	20
Benzene	10.0	10.2		ug/L		102	80 - 120	12	14
1,2-Dichloroethane	10.0	10.6	*	ug/L		106	58 - 143	23	17
Trichloroethene	10.0	10.7		ug/L		107	70 - 125	3	23
1,2-Dichloropropane	10.0	9.86		ug/L		99	58 - 150	3	15
Dibromomethane	10.0	10.5	*	ug/L		104	61 - 142	36	15
Bromodichloromethane	10.0	10.7		ug/L		107	75 - 120	4	14
cis-1,3-Dichloropropene	10.0	9.84		ug/L		98	77 - 117	1	24
4-Methyl-2-pentanone	50.0	46.4	*	ug/L		93	20 - 150	86	30
Toluene	10.0	9.88		ug/L		99	75 - 120	8	19
trans-1,3-Dichloropropene	10.0	9.53		ug/L		95	73 - 122	5	30
1,1,2-Trichloroethane	10.0	9.50	*	ug/L		95	69 - 135	30	24
Tetrachloroethene	10.0	9.81		ug/L		98	70 - 124	16	20
1,3-Dichloropropane	10.0	9.49		ug/L		95	69 - 134	22	23
2-Hexanone	50.0	48.0	*	ug/L		96	20 - 150	95	30
Dibromochloromethane	10.0	9.90		ug/L		99	71 - 118	21	21
Chlorobenzene	10.0	10.3		ug/L		103	80 - 120	12	15
Ethylbenzene	10.0	9.60	*	ug/L		96	75 - 119	22	14
1,1,1,2-Tetrachloroethane	10.0	10.0		ug/L		100	64 - 130	10	20
m-Xylene & p-Xylene	10.0	9.36	*	ug/L		93	75 - 119	21	14
o-Xylene	10.0	9.93		ug/L		99	74 - 120	15	16
Styrene	10.0	9.18	*	ug/L		92	76 - 116	23	16
Bromoform	10.0	10.1	*	ug/L		100	55 - 130	50	20
Isopropylbenzene	10.0	9.57	*	ug/L		96	75 - 125	22	20
Bromobenzene	10.0	9.60		ug/L		96	75 - 115	10	13
N-Propylbenzene	10.0	9.41	*	ug/L		94	70 - 124	29	13
4-Chlorotoluene	10.0	9.71	*	ug/L		97	68 - 121	17	15
t-Butylbenzene	10.0	8.91	*	ug/L		89	70 - 121	27	14
1,2,4-Trimethylbenzene	10.0	9.62	*	ug/L		96	75 - 121	20	16
sec-Butylbenzene	10.0	9.23	*	ug/L		92	70 - 125	23	15
1,3-Dichlorobenzene	10.0	9.88		ug/L		99	72 - 116	10	14
4-Isopropyltoluene	10.0	9.96	*	ug/L		100	66 - 120	17	13
1,4-Dichlorobenzene	10.0	10.1		ug/L		100	75 - 117	6	17

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-227748/6
Matrix: Water
Analysis Batch: 227748

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
n-Butylbenzene	10.0	9.20		ug/L		92	70 - 120	14	20
1,2-Dichlorobenzene	10.0	9.86		ug/L		99	70 - 120	0	15
1,2,4-Trichlorobenzene	10.0	9.20		ug/L		92	56 - 129	2	22
1,2,3-Trichlorobenzene	10.0	9.39		ug/L		94	55 - 133	17	35
Hexachlorobutadiene	10.0	10.3		ug/L		103	56 - 125	9	19
Naphthalene	10.0	8.58	*	ug/L		86	55 - 134	43	30
Methyl tert-butyl ether	10.0	9.51	*	ug/L		95	65 - 125	20	18
1,3,5-Trimethylbenzene	10.0	9.35	*	ug/L		93	75 - 122	22	14
2-Chlorotoluene	10.0	9.59	*	ug/L		96	69 - 125	22	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*82 - 122*
4-Bromofluorobenzene (Surr)	*105*		*75 - 125*
Dibromofluoromethane (Surr)	*104*		*77 - 118*
Trifluorotoluene (Surr)	*107*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 143*

Lab Sample ID: 580-62531-2 MS
Matrix: Water
Analysis Batch: 227748

Client Sample ID: TPW-1-0916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND		10.0	13.6		ug/L		136	20 - 141
Chloromethane	ND		10.0	11.5		ug/L		115	40 - 149
Vinyl chloride	ND		10.0	11.0		ug/L		110	56 - 114
Bromomethane	ND		10.0	10.4		ug/L		104	55 - 125
Chloroethane	ND		10.0	10.4		ug/L		104	60 - 126
Trichlorofluoromethane	ND		10.0	11.6		ug/L		116	49 - 130
1,1-Dichloroethene	ND		10.1	11.5		ug/L		114	70 - 117
Carbon disulfide	ND		10.0	11.4		ug/L		114	63 - 122
Methylene Chloride	ND		10.0	10.8		ug/L		107	70 - 115
trans-1,2-Dichloroethene	ND	F1	10.0	11.7	F1	ug/L		117	72 - 113
1,1-Dichloroethane	ND		10.0	11.7		ug/L		117	70 - 135
2,2-Dichloropropane	ND		10.0	10.4		ug/L		104	50 - 140
cis-1,2-Dichloroethene	ND	F1	10.0	11.9	F1	ug/L		118	70 - 111
Bromochloromethane	ND		10.0	11.2		ug/L		112	65 - 120
Chloroform	ND	F1	10.0	12.1	F1	ug/L		121	80 - 119
1,1,1-Trichloroethane	ND		10.0	12.3		ug/L		122	65 - 130
Carbon tetrachloride	ND	F1	10.0	12.1		ug/L		121	65 - 124
1,1-Dichloropropene	ND		10.0	11.8		ug/L		118	75 - 120
Benzene	ND		10.0	11.7		ug/L		117	80 - 120
1,2-Dichloroethane	ND		10.0	11.0		ug/L		110	58 - 143
Trichloroethene	ND		10.0	11.9		ug/L		119	70 - 125
1,2-Dichloropropane	ND		10.0	10.9		ug/L		109	58 - 150
Dibromomethane	ND		10.0	10.9		ug/L		109	61 - 142
Bromodichloromethane	ND		10.0	11.7		ug/L		117	75 - 120
cis-1,3-Dichloropropene	ND		10.0	10.1		ug/L		101	77 - 117
4-Methyl-2-pentanone	ND		50.0	48.7		ug/L		97	20 - 150

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-62531-2 MS
Matrix: Water
Analysis Batch: 227748

Client Sample ID: TPW-1-0916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	ND		10.0	11.6		ug/L		109	75 - 120
trans-1,3-Dichloropropene	ND		10.0	9.50		ug/L		95	73 - 122
1,1,2-Trichloroethane	ND		10.0	10.3		ug/L		103	69 - 135
Tetrachloroethene	ND		10.0	11.6		ug/L		115	70 - 124
1,3-Dichloropropane	ND		10.0	9.77		ug/L		98	69 - 134
2-Hexanone	ND		50.0	48.0		ug/L		96	20 - 150
Dibromochloromethane	ND		10.0	10.4		ug/L		103	71 - 118
Chlorobenzene	ND		10.0	11.3		ug/L		112	80 - 120
Ethylbenzene	ND		10.0	11.2		ug/L		111	75 - 119
1,1,1,2-Tetrachloroethane	ND		10.0	11.1		ug/L		111	64 - 130
m-Xylene & p-Xylene	ND		10.0	10.6		ug/L		106	75 - 119
o-Xylene	ND		10.0	10.9		ug/L		109	74 - 120
Styrene	ND		10.0	9.72		ug/L		97	76 - 116
Bromoform	ND		10.0	9.86		ug/L		98	55 - 130
Isopropylbenzene	ND		10.0	11.0		ug/L		110	75 - 125
Bromobenzene	ND		10.0	10.5		ug/L		105	75 - 115
N-Propylbenzene	ND		10.0	11.1		ug/L		111	70 - 124
4-Chlorotoluene	ND		10.0	11.0		ug/L		110	68 - 121
t-Butylbenzene	ND		10.0	10.9		ug/L		109	70 - 121
1,2,4-Trimethylbenzene	ND		10.0	11.1		ug/L		110	75 - 121
sec-Butylbenzene	ND		10.0	11.1		ug/L		111	70 - 125
1,3-Dichlorobenzene	ND		10.0	10.7		ug/L		107	72 - 116
4-Isopropyltoluene	ND		10.0	11.2		ug/L		112	66 - 120
1,4-Dichlorobenzene	ND		10.0	10.9		ug/L		108	75 - 117
n-Butylbenzene	ND		10.0	9.90		ug/L		99	70 - 120
1,2-Dichlorobenzene	ND		10.0	10.3		ug/L		103	70 - 120
1,2,4-Trichlorobenzene	ND		10.0	9.64		ug/L		96	56 - 129
1,2,3-Trichlorobenzene	ND		10.0	9.57		ug/L		96	55 - 133
Hexachlorobutadiene	ND		10.0	10.7		ug/L		107	56 - 125
Naphthalene	ND		10.0	8.55		ug/L		85	55 - 134
Methyl tert-butyl ether	ND		10.0	10.5		ug/L		105	65 - 125
1,3,5-Trimethylbenzene	ND		10.0	11.1		ug/L		111	75 - 122
2-Chlorotoluene	ND		10.0	10.9		ug/L		109	69 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*82 - 122*
4-Bromofluorobenzene (Surr)	*101*		*75 - 125*
Dibromofluoromethane (Surr)	*105*		*77 - 118*
Trifluorotoluene (Surr)	*105*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*102*		*65 - 143*

Lab Sample ID: 580-62531-2 MSD
Matrix: Water
Analysis Batch: 227748

Client Sample ID: TPW-1-0916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	ND		10.0	13.7		ug/L		137	20 - 141	1	35
Chloromethane	ND		10.0	11.3		ug/L		113	40 - 149	2	35

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-62531-2 MSD
Matrix: Water
Analysis Batch: 227748

Client Sample ID: TPW-1-0916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	ND		10.0	10.9		ug/L		109	56 - 114	1	35
Bromomethane	ND		10.0	11.1		ug/L		111	55 - 125	6	35
Chloroethane	ND		10.0	10.9		ug/L		109	60 - 126	5	35
Trichlorofluoromethane	ND		10.0	11.7		ug/L		117	49 - 130	1	35
1,1-Dichloroethene	ND		10.1	11.3		ug/L		112	70 - 117	2	35
Carbon disulfide	ND		10.0	11.2		ug/L		112	63 - 122	2	35
Methylene Chloride	ND		10.0	11.0		ug/L		109	70 - 115	2	35
trans-1,2-Dichloroethene	ND	F1	10.0	12.4	F1	ug/L		124	72 - 113	6	35
1,1-Dichloroethane	ND		10.0	12.1		ug/L		121	70 - 135	4	35
2,2-Dichloropropane	ND		10.0	10.5		ug/L		105	50 - 140	1	35
cis-1,2-Dichloroethene	ND	F1	10.0	12.0	F1	ug/L		119	70 - 111	1	35
Bromochloromethane	ND		10.0	11.2		ug/L		112	65 - 120	0	35
Chloroform	ND	F1	10.0	12.2	F1	ug/L		122	80 - 119	1	35
1,1,1-Trichloroethane	ND		10.0	12.6		ug/L		126	65 - 130	3	35
Carbon tetrachloride	ND	F1	10.0	12.5	F1	ug/L		125	65 - 124	3	35
1,1-Dichloropropene	ND		10.0	11.8		ug/L		118	75 - 120	0	35
Benzene	ND		10.0	11.8		ug/L		118	80 - 120	1	35
1,2-Dichloroethane	ND		10.0	11.1		ug/L		111	58 - 143	1	35
Trichloroethene	ND		10.0	11.8		ug/L		118	70 - 125	1	35
1,2-Dichloropropane	ND		10.0	10.9		ug/L		109	58 - 150	0	35
Dibromomethane	ND		10.0	10.9		ug/L		109	61 - 142	0	35
Bromodichloromethane	ND		10.0	11.8		ug/L		117	75 - 120	1	35
cis-1,3-Dichloropropene	ND		10.0	10.3		ug/L		103	77 - 117	2	35
4-Methyl-2-pentanone	ND		50.0	44.4		ug/L		89	20 - 150	9	35
Toluene	ND		10.0	12.0		ug/L		113	75 - 120	3	35
trans-1,3-Dichloropropene	ND		10.0	9.98		ug/L		100	73 - 122	5	35
1,1,2-Trichloroethane	ND		10.0	9.96		ug/L		99	69 - 135	3	35
Tetrachloroethene	ND		10.0	11.5		ug/L		114	70 - 124	1	35
1,3-Dichloropropane	ND		10.0	10.6		ug/L		106	69 - 134	8	35
2-Hexanone	ND		50.0	44.9		ug/L		90	20 - 150	6	35
Dibromochloromethane	ND		10.0	10.6		ug/L		106	71 - 118	2	35
Chlorobenzene	ND		10.0	11.4		ug/L		114	80 - 120	2	35
Ethylbenzene	ND		10.0	11.3		ug/L		112	75 - 119	1	35
1,1,1,2-Tetrachloroethane	ND		10.0	11.1		ug/L		110	64 - 130	1	35
m-Xylene & p-Xylene	ND		10.0	10.9		ug/L		108	75 - 119	2	35
o-Xylene	ND		10.0	11.2		ug/L		112	74 - 120	2	35
Styrene	ND		10.0	9.85		ug/L		98	76 - 116	1	35
Bromoform	ND		10.0	9.79		ug/L		98	55 - 130	1	35
Isopropylbenzene	ND		10.0	11.0		ug/L		110	75 - 125	0	35
Bromobenzene	ND		10.0	11.2		ug/L		112	75 - 115	6	35
N-Propylbenzene	ND		10.0	11.7		ug/L		117	70 - 124	5	35
4-Chlorotoluene	ND		10.0	10.9		ug/L		109	68 - 121	1	35
t-Butylbenzene	ND		10.0	10.9		ug/L		109	70 - 121	0	35
1,2,4-Trimethylbenzene	ND		10.0	11.3		ug/L		113	75 - 121	2	35
sec-Butylbenzene	ND		10.0	11.3		ug/L		113	70 - 125	2	35
1,3-Dichlorobenzene	ND		10.0	10.8		ug/L		108	72 - 116	1	35
4-Isopropyltoluene	ND		10.0	11.5		ug/L		115	66 - 120	3	35
1,4-Dichlorobenzene	ND		10.0	10.9		ug/L		109	75 - 117	0	35

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-62531-2 MSD — **Client Sample ID: TPW-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 227748

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
n-Butylbenzene	ND		10.0	10.8		ug/L		108	70 - 120	9	35
1,2-Dichlorobenzene	ND		10.0	10.5		ug/L		105	70 - 120	2	35
1,2,4-Trichlorobenzene	ND		10.0	10.2		ug/L		102	56 - 129	5	35
1,2,3-Trichlorobenzene	ND		10.0	9.56		ug/L		95	55 - 133	0	35
Hexachlorobutadiene	ND		10.0	11.4		ug/L		114	56 - 125	7	35
Naphthalene	ND		10.0	8.22		ug/L		82	55 - 134	4	35
Methyl tert-butyl ether	ND		10.0	11.0		ug/L		110	65 - 125	4	35
1,3,5-Trimethylbenzene	ND		10.0	11.3		ug/L		113	75 - 122	2	35
2-Chlorotoluene	ND		10.0	11.1		ug/L		111	69 - 125	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*82 - 122*
4-Bromofluorobenzene (Surr)	*100*		*75 - 125*
Dibromofluoromethane (Surr)	*106*		*77 - 118*
Trifluorotoluene (Surr)	*105*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 143*

Lab Sample ID: MB 580-227836/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 227836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		50		ug/L			09/20/16 12:43	1
2-Butanone	ND		20		ug/L			09/20/16 12:43	1
1,2-Dibromoethane	ND		1.0		ug/L			09/20/16 12:43	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/20/16 12:43	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/20/16 12:43	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/20/16 12:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*82 - 122*		*09/20/16 12:43*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 125*		*09/20/16 12:43*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 118*		*09/20/16 12:43*	*1*
Trifluorotoluene (Surr)	*106*		*80 - 141*		*09/20/16 12:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 143*		*09/20/16 12:43*	*1*

Lab Sample ID: LCS 580-227836/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 227836

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	32.7	J	ug/L		65	20 - 150
2-Butanone	50.0	62.8		ug/L		126	30 - 150
1,2-Dibromoethane	10.0	10.1		ug/L		101	66 - 133
1,1,2,2-Tetrachloroethane	10.0	11.1		ug/L		111	65 - 130
1,2-Dibromo-3-Chloropropane	10.0	11.1		ug/L		111	58 - 141
1,2,3-Trichloropropane	10.0	11.0		ug/L		110	65 - 135

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-227836/5
Matrix: Water
Analysis Batch: 227836

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*82 - 122*
4-Bromofluorobenzene (Surr)	*98*		*75 - 125*
Dibromofluoromethane (Surr)	*92*		*77 - 118*
Trifluorotoluene (Surr)	*101*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 143*

Lab Sample ID: LCSD 580-227836/6
Matrix: Water
Analysis Batch: 227836

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	50.0	42.9	J	ug/L		86	20 - 150	27	35
2-Butanone	50.0	69.6		ug/L		139	30 - 150	10	35
1,2-Dibromoethane	10.0	10.8		ug/L		108	66 - 133	6	17
1,1,2,2-Tetrachloroethane	10.0	11.2		ug/L		112	65 - 130	1	18
1,2-Dibromo-3-Chloropropane	10.0	12.4		ug/L		123	58 - 141	11	30
1,2,3-Trichloropropane	10.0	11.1		ug/L		111	65 - 135	1	22

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*82 - 122*
4-Bromofluorobenzene (Surr)	*101*		*75 - 125*
Dibromofluoromethane (Surr)	*95*		*77 - 118*
Trifluorotoluene (Surr)	*103*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 143*

Lab Sample ID: 580-62531-2 MS
Matrix: Water
Analysis Batch: 227836

Client Sample ID: TPW-1-0916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	ND		ug/L		94	20 - 150
2-Butanone	ND		50.0	62.3		ug/L		125	30 - 150
1,2-Dibromoethane	ND		10.0	10.8		ug/L		107	66 - 133
1,1,2,2-Tetrachloroethane	ND		10.0	12.1		ug/L		121	65 - 130
1,2-Dibromo-3-Chloropropane	ND		10.0	11.3		ug/L		113	58 - 141
1,2,3-Trichloropropane	ND		10.0	11.0		ug/L		110	65 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*82 - 122*
4-Bromofluorobenzene (Surr)	*98*		*75 - 125*
Dibromofluoromethane (Surr)	*91*		*77 - 118*
Trifluorotoluene (Surr)	*103*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*88*		*65 - 143*

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-62531-2 MSD — **Client Sample ID: TPW-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 227836

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	ND		ug/L		95	20 - 150	1	35
2-Butanone	ND		50.0	65.8		ug/L		132	30 - 150	5	35
1,2-Dibromoethane	ND		10.0	11.1		ug/L		111	66 - 133	3	35
1,1,2,2-Tetrachloroethane	ND		10.0	12.7		ug/L		127	65 - 130	5	35
1,2-Dibromo-3-Chloropropane	ND		10.0	12.6		ug/L		126	58 - 141	11	35
1,2,3-Trichloropropane	ND		10.0	11.6		ug/L		116	65 - 135	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*82 - 122*
4-Bromofluorobenzene (Surr)	*99*		*75 - 125*
Dibromofluoromethane (Surr)	*93*		*77 - 118*
Trifluorotoluene (Surr)	*101*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*87*		*65 - 143*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-227786/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228091 — **Prep Batch: 227786**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
1,2-Dichlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
1,3-Dichlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
1,4-Dichlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
1-Methylnaphthalene	ND		0.060		ug/L		09/19/16 11:31	09/22/16 13:48	1
2,4,5-Trichlorophenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
2,4,6-Trichlorophenol	ND		0.60		ug/L		09/19/16 11:31	09/22/16 13:48	1
2,4-Dichlorophenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/19/16 11:31	09/22/16 13:48	1
2,4-Dinitrophenol	ND		5.0		ug/L		09/19/16 11:31	09/22/16 13:48	1
2,4-Dinitrotoluene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
2,6-Dinitrotoluene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
2-Chloronaphthalene	ND		0.060		ug/L		09/19/16 11:31	09/22/16 13:48	1
2-Chlorophenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
2-Methylnaphthalene	ND		0.20		ug/L		09/19/16 11:31	09/22/16 13:48	1
2-Methylphenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
2-Nitroaniline	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
2-Nitrophenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
3 & 4 Methylphenol	ND		0.80		ug/L		09/19/16 11:31	09/22/16 13:48	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/19/16 11:31	09/22/16 13:48	1
3-Nitroaniline	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
4,6-Dinitro-2-methylphenol	ND		4.0		ug/L		09/19/16 11:31	09/22/16 13:48	1
4-Bromophenyl phenyl ether	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
4-Chloro-3-methylphenol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
4-Chloroaniline	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
4-Chlorophenyl phenyl ether	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-227786/1-A
Matrix: Water
Analysis Batch: 228091

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 227786

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	ND		0.60		ug/L		09/19/16 11:31	09/22/16 13:48	1
4-Nitrophenol	ND		3.0		ug/L		09/19/16 11:31	09/22/16 13:48	1
Acenaphthene	ND		0.10		ug/L		09/19/16 11:31	09/22/16 13:48	1
Acenaphthylene	ND		0.080		ug/L		09/19/16 11:31	09/22/16 13:48	1
Anthracene	ND		0.040		ug/L		09/19/16 11:31	09/22/16 13:48	1
Benzo[a]anthracene	ND		0.060		ug/L		09/19/16 11:31	09/22/16 13:48	1
Benzo[a]pyrene	ND		0.040		ug/L		09/19/16 11:31	09/22/16 13:48	1
Benzo[b]fluoranthene	ND		0.080		ug/L		09/19/16 11:31	09/22/16 13:48	1
Benzo[g,h,i]perylene	ND		0.060		ug/L		09/19/16 11:31	09/22/16 13:48	1
Benzo[k]fluoranthene	ND		0.060		ug/L		09/19/16 11:31	09/22/16 13:48	1
Benzoic acid	ND		3.0		ug/L		09/19/16 11:31	09/22/16 13:48	1
Benzyl alcohol	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Bis(2-chloroethoxy)methane	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Bis(2-chloroethyl)ether	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Bis(2-ethylhexyl) phthalate	ND		3.0		ug/L		09/19/16 11:31	09/22/16 13:48	1
bis(chloroisopropyl) ether	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Butyl benzyl phthalate	ND		0.60		ug/L		09/19/16 11:31	09/22/16 13:48	1
Carbazole	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Chrysene	ND		0.040		ug/L		09/19/16 11:31	09/22/16 13:48	1
Dibenz(a,h)anthracene	ND		0.060		ug/L		09/19/16 11:31	09/22/16 13:48	1
Dibenzofuran	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Diethyl phthalate	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Dimethyl phthalate	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Di-n-butyl phthalate	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Di-n-octyl phthalate	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Fluoranthene	ND		0.050		ug/L		09/19/16 11:31	09/22/16 13:48	1
Fluorene	ND		0.060		ug/L		09/19/16 11:31	09/22/16 13:48	1
Hexachlorobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Hexachlorobutadiene	ND		0.60		ug/L		09/19/16 11:31	09/22/16 13:48	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/19/16 11:31	09/22/16 13:48	1
Hexachloroethane	ND		0.60		ug/L		09/19/16 11:31	09/22/16 13:48	1
Indeno[1,2,3-cd]pyrene	ND		0.060		ug/L		09/19/16 11:31	09/22/16 13:48	1
Isophorone	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Naphthalene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Nitrobenzene	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
N-Nitrosodi-n-propylamine	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
N-Nitrosodiphenylamine	ND		0.40		ug/L		09/19/16 11:31	09/22/16 13:48	1
Pentachlorophenol	ND		0.70		ug/L		09/19/16 11:31	09/22/16 13:48	1
Phenanthrene	ND		0.080		ug/L		09/19/16 11:31	09/22/16 13:48	1
Phenol	ND		0.60		ug/L		09/19/16 11:31	09/22/16 13:48	1
Pyrene	ND		0.060		ug/L		09/19/16 11:31	09/22/16 13:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*57 - 132*	*09/19/16 11:31*	*09/22/16 13:48*	*1*
2-Fluorobiphenyl	*92*		*50 - 120*	*09/19/16 11:31*	*09/22/16 13:48*	*1*
2-Fluorophenol (Surr)	*82*		*50 - 113*	*09/19/16 11:31*	*09/22/16 13:48*	*1*
Nitrobenzene-d5 (Surr)	*97*		*59 - 120*	*09/19/16 11:31*	*09/22/16 13:48*	*1*
Phenol-d5 (Surr)	*86*		*52 - 120*	*09/19/16 11:31*	*09/22/16 13:48*	*1*

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-227786/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228091 — **Prep Batch: 227786**

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	105		72 - 140	09/19/16 11:31	09/22/16 13:48	1

Lab Sample ID: LCS 580-227786/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228091 — **Prep Batch: 227786**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	2.00	1.37		ug/L		69	40 - 115
1,2-Dichlorobenzene	2.00	1.44		ug/L		72	44 - 119
1,3-Dichlorobenzene	2.00	1.18		ug/L		59	34 - 116
1,4-Dichlorobenzene	2.00	1.23		ug/L		62	40 - 118
1-Methylnaphthalene	2.00	1.65		ug/L		83	54 - 119
2,4,5-Trichlorophenol	2.00	1.75		ug/L		87	56 - 122
2,4,6-Trichlorophenol	2.00	1.62		ug/L		81	55 - 134
2,4-Dichlorophenol	2.00	1.80		ug/L		90	50 - 125
2,4-Dimethylphenol	2.00	0.934	J	ug/L		47	20 - 106
2,4-Dinitrophenol	4.00	1.39	J	ug/L		35	24 - 139
2,4-Dinitrotoluene	2.00	1.70		ug/L		85	40 - 143
2,6-Dinitrotoluene	2.00	1.72		ug/L		86	45 - 134
2-Chloronaphthalene	2.00	1.60		ug/L		80	55 - 125
2-Chlorophenol	2.00	1.90		ug/L		95	57 - 125
2-Methylnaphthalene	2.00	1.63		ug/L		82	56 - 117
2-Methylphenol	2.00	1.71		ug/L		85	53 - 118
2-Nitroaniline	2.00	1.83		ug/L		92	58 - 124
2-Nitrophenol	2.00	1.09		ug/L		55	20 - 150
3 & 4 Methylphenol	2.00	1.78		ug/L		89	54 - 112
3,3'-Dichlorobenzidine	4.00	ND	*	ug/L		0.7	20 - 121
3-Nitroaniline	2.00	0.291	J *	ug/L		15	22 - 124
4,6-Dinitro-2-methylphenol	4.00	1.14	J	ug/L		28	20 - 150
4-Bromophenyl phenyl ether	2.00	1.77		ug/L		88	62 - 132
4-Chloro-3-methylphenol	2.00	1.69		ug/L		84	56 - 133
4-Chloroaniline	2.00	ND	*	ug/L		1	20 - 110
4-Chlorophenyl phenyl ether	2.00	1.59		ug/L		80	59 - 125
4-Nitroaniline	2.00	1.19		ug/L		60	40 - 118
4-Nitrophenol	4.00	3.46		ug/L		86	20 - 150
Acenaphthene	2.00	1.69		ug/L		84	55 - 113
Acenaphthylene	2.00	1.21		ug/L		61	24 - 135
Anthracene	2.00	1.01		ug/L		51	20 - 125
Benzo[a]anthracene	2.00	1.62		ug/L		81	49 - 115
Benzo[a]pyrene	2.00	0.950		ug/L		48	20 - 115
Benzo[b]fluoranthene	2.00	2.03		ug/L		101	63 - 129
Benzo[g,h,i]perylene	2.00	1.95		ug/L		97	58 - 127
Benzo[k]fluoranthene	2.00	1.94		ug/L		97	60 - 134
Benzoic acid	4.00	2.98	J	ug/L		74	20 - 150
Benzyl alcohol	2.00	1.83		ug/L		91	52 - 124
Bis(2-chloroethoxy)methane	2.00	1.94		ug/L		97	59 - 125
Bis(2-chloroethyl)ether	2.00	1.81		ug/L		91	55 - 125
Bis(2-ethylhexyl) phthalate	2.00	1.96	J	ug/L		98	22 - 150

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-227786/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228091 — **Prep Batch: 227786**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
bis(chloroisopropyl) ether	2.00	1.96		ug/L		98	44 - 123
Butyl benzyl phthalate	2.00	2.09		ug/L		104	46 - 150
Carbazole	2.00	1.85		ug/L		93	68 - 142
Chrysene	2.00	1.81		ug/L		91	57 - 131
Dibenz(a,h)anthracene	2.00	1.96		ug/L		98	56 - 124
Dibenzofuran	2.00	1.76		ug/L		88	60 - 125
Diethyl phthalate	2.00	1.91		ug/L		95	60 - 134
Dimethyl phthalate	2.00	1.84		ug/L		92	65 - 134
Di-n-butyl phthalate	2.00	2.00		ug/L		100	67 - 140
Di-n-octyl phthalate	2.00	2.13		ug/L		107	55 - 150
Fluoranthene	2.00	1.78		ug/L		89	70 - 135
Fluorene	2.00	1.78		ug/L		89	57 - 125
Hexachlorobenzene	2.00	1.65		ug/L		82	55 - 135
Hexachlorobutadiene	2.00	0.829		ug/L		41	25 - 125
Hexachlorocyclopentadiene	2.00	ND	*	ug/L		4	20 - 110
Hexachloroethane	2.00	0.938		ug/L		47	24 - 125
Indeno[1,2,3-cd]pyrene	2.00	1.70		ug/L		85	54 - 124
Isophorone	2.00	1.90		ug/L		95	64 - 125
Naphthalene	2.00	1.67		ug/L		84	56 - 119
Nitrobenzene	2.00	1.95		ug/L		98	62 - 125
N-Nitrosodi-n-propylamine	2.00	1.65		ug/L		82	54 - 120
N-Nitrosodiphenylamine	2.00	1.16		ug/L		58	40 - 124
Pentachlorophenol	4.00	3.14		ug/L		78	30 - 122
Phenanthrene	2.00	1.84		ug/L		92	57 - 125
Phenol	2.00	1.79		ug/L		89	53 - 113
Pyrene	2.00	1.82		ug/L		91	64 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*84*		*57 - 132*
2-Fluorobiphenyl	*78*		*50 - 120*
2-Fluorophenol (Surr)	*85*		*50 - 113*
Nitrobenzene-d5 (Surr)	*86*		*59 - 120*
Phenol-d5 (Surr)	*86*		*52 - 120*
Terphenyl-d14 (Surr)	*92*		*72 - 140*

Lab Sample ID: LCSD 580-227786/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228091 — **Prep Batch: 227786**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.00	1.33		ug/L		67	40 - 115	3	20
1,2-Dichlorobenzene	2.00	1.49		ug/L		75	44 - 119	3	20
1,3-Dichlorobenzene	2.00	1.20		ug/L		60	34 - 116	1	29
1,4-Dichlorobenzene	2.00	1.22		ug/L		61	40 - 118	1	20
1-Methylnaphthalene	2.00	1.65		ug/L		83	54 - 119	0	20
2,4,5-Trichlorophenol	2.00	1.55		ug/L		77	56 - 122	12	20
2,4,6-Trichlorophenol	2.00	1.52		ug/L		76	55 - 134	6	20
2,4-Dichlorophenol	2.00	1.84		ug/L		92	50 - 125	3	26

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-227786/3-A
Matrix: Water
Analysis Batch: 228091

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 227786

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dimethylphenol	2.00	0.896	J	ug/L		45	20 - 106	4	35
2,4-Dinitrophenol	4.00	2.23	J *	ug/L		56	24 - 139	47	35
2,4-Dinitrotoluene	2.00	1.89		ug/L		94	40 - 143	10	29
2,6-Dinitrotoluene	2.00	1.81		ug/L		90	45 - 134	5	31
2-Chloronaphthalene	2.00	1.64		ug/L		82	55 - 125	2	20
2-Chlorophenol	2.00	1.91		ug/L		96	57 - 125	0	20
2-Methylnaphthalene	2.00	1.63		ug/L		81	56 - 117	0	20
2-Methylphenol	2.00	1.73		ug/L		86	53 - 118	1	33
2-Nitroaniline	2.00	1.58		ug/L		79	58 - 124	15	20
2-Nitrophenol	2.00	1.50		ug/L		75	20 - 150	32	35
3 & 4 Methylphenol	2.00	1.77		ug/L		89	54 - 112	0	20
3,3'-Dichlorobenzidine	4.00	ND	*	ug/L		0.5	20 - 121	32	35
3-Nitroaniline	2.00	ND	*	ug/L		3	22 - 124	123	35
4,6-Dinitro-2-methylphenol	4.00	2.56	J *	ug/L		64	20 - 150	77	30
4-Bromophenyl phenyl ether	2.00	1.85		ug/L		93	62 - 132	5	20
4-Chloro-3-methylphenol	2.00	1.65		ug/L		83	56 - 133	2	20
4-Chloroaniline	2.00	ND	*	ug/L		1	20 - 110	18	35
4-Chlorophenyl phenyl ether	2.00	1.68		ug/L		84	59 - 125	5	20
4-Nitroaniline	2.00	0.317	J *	ug/L		16	40 - 118	116	20
4-Nitrophenol	4.00	3.58		ug/L		89	20 - 150	3	29
Acenaphthene	2.00	1.71		ug/L		86	55 - 113	2	20
Acenaphthylene	2.00	1.27		ug/L		63	24 - 135	4	20
Anthracene	2.00	0.578	*	ug/L		29	20 - 125	55	26
Benzo[a]anthracene	2.00	1.41		ug/L		70	49 - 115	14	20
Benzo[a]pyrene	2.00	0.513	*	ug/L		26	20 - 115	60	35
Benzo[b]fluoranthene	2.00	2.45		ug/L		123	63 - 129	19	20
Benzo[g,h,i]perylene	2.00	2.32		ug/L		116	58 - 127	17	20
Benzo[k]fluoranthene	2.00	2.51	*	ug/L		126	60 - 134	26	20
Benzoic acid	4.00	4.02		ug/L		101	20 - 150	30	35
Benzyl alcohol	2.00	0.887	*	ug/L		44	52 - 124	69	20
Bis(2-chloroethoxy)methane	2.00	1.99		ug/L		100	59 - 125	3	20
Bis(2-chloroethyl)ether	2.00	1.92		ug/L		96	55 - 125	6	20
Bis(2-ethylhexyl) phthalate	2.00	1.93	J	ug/L		97	22 - 150	1	20
bis(chloroisopropyl) ether	2.00	2.05		ug/L		103	44 - 123	5	20
Butyl benzyl phthalate	2.00	2.09		ug/L		105	46 - 150	0	20
Carbazole	2.00	1.76		ug/L		88	68 - 142	5	20
Chrysene	2.00	1.80		ug/L		90	57 - 131	1	20
Dibenz(a,h)anthracene	2.00	2.27		ug/L		114	56 - 124	15	20
Dibenzofuran	2.00	1.81		ug/L		90	60 - 125	3	20
Diethyl phthalate	2.00	1.92		ug/L		96	60 - 134	1	20
Dimethyl phthalate	2.00	1.82		ug/L		91	65 - 134	1	20
Di-n-butyl phthalate	2.00	2.02		ug/L		101	67 - 140	1	20
Di-n-octyl phthalate	2.00	2.63	*	ug/L		131	55 - 150	21	20
Fluoranthene	2.00	1.81		ug/L		91	70 - 135	2	20
Fluorene	2.00	1.79		ug/L		89	57 - 125	0	20
Hexachlorobenzene	2.00	1.68		ug/L		84	55 - 135	2	20
Hexachlorobutadiene	2.00	0.741		ug/L		37	25 - 125	11	31
Hexachlorocyclopentadiene	2.00	0.231	J *	ug/L		12	20 - 110	106	35

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-227786/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228091 — **Prep Batch: 227786**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachloroethane	2.00	0.919		ug/L		46	24 - 125	2	35
Indeno[1,2,3-cd]pyrene	2.00	2.07		ug/L		103	54 - 124	20	20
Isophorone	2.00	1.99		ug/L		99	64 - 125	5	20
Naphthalene	2.00	1.71		ug/L		86	56 - 119	2	20
Nitrobenzene	2.00	1.92		ug/L		96	62 - 125	2	20
N-Nitrosodi-n-propylamine	2.00	1.79		ug/L		89	54 - 120	8	20
N-Nitrosodiphenylamine	2.00	0.635	*	ug/L		32	40 - 124	59	20
Pentachlorophenol	4.00	3.09		ug/L		77	30 - 122	1	35
Phenanthrene	2.00	1.87		ug/L		93	57 - 125	2	20
Phenol	2.00	1.76		ug/L		88	53 - 113	2	20
Pyrene	2.00	1.81		ug/L		91	64 - 128	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*82*		*57 - 132*
2-Fluorobiphenyl	*77*		*50 - 120*
2-Fluorophenol (Surr)	*84*		*50 - 113*
Nitrobenzene-d5 (Surr)	*86*		*59 - 120*
Phenol-d5 (Surr)	*89*		*52 - 120*
Terphenyl-d14 (Surr)	*93*		*72 - 140*

Lab Sample ID: 580-62531-2 MS — **Client Sample ID: TPW-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228091 — **Prep Batch: 227786**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND		2.03	1.53		ug/L		75	40 - 115
1,2-Dichlorobenzene	ND		2.03	1.70		ug/L		84	44 - 119
1,3-Dichlorobenzene	ND		2.03	1.40		ug/L		69	34 - 116
1,4-Dichlorobenzene	ND		2.03	1.43		ug/L		70	40 - 118
1-Methylnaphthalene	ND		2.03	1.72		ug/L		85	54 - 119
2,4,5-Trichlorophenol	ND		2.03	2.00		ug/L		98	56 - 122
2,4,6-Trichlorophenol	ND		2.03	1.91		ug/L		94	55 - 134
2,4-Dichlorophenol	ND		2.03	1.93		ug/L		95	50 - 125
2,4-Dimethylphenol	ND		2.03	ND		ug/L		37	20 - 106
2,4-Dinitrophenol	ND		4.07	ND		ug/L		85	24 - 139
2,4-Dinitrotoluene	ND		2.03	1.97		ug/L		97	40 - 143
2,6-Dinitrotoluene	0.47		2.03	2.41		ug/L		96	45 - 134
2-Chloronaphthalene	ND		2.03	1.77		ug/L		87	55 - 125
2-Chlorophenol	ND		2.03	1.90		ug/L		93	57 - 125
2-Methylnaphthalene	ND		2.03	1.72		ug/L		85	56 - 117
2-Methylphenol	ND		2.03	1.77		ug/L		87	53 - 118
2-Nitroaniline	ND		2.03	1.95		ug/L		96	58 - 124
2-Nitrophenol	ND		2.03	1.85		ug/L		91	20 - 150
3 & 4 Methylphenol	ND		2.03	1.77		ug/L		87	54 - 112
3,3'-Dichlorobenzidine	ND	F1	4.07	ND	F1	ug/L		0	20 - 121
3-Nitroaniline	ND	F1	2.03	ND	F1	ug/L		18	22 - 124
4,6-Dinitro-2-methylphenol	ND		4.07	ND		ug/L		96	20 - 150
4-Bromophenyl phenyl ether	ND		2.03	1.89		ug/L		93	62 - 132

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-62531-2 MS | **Client Sample ID: TPW-1-0916**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 228091 | **Prep Batch: 227786**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloro-3-methylphenol	ND		2.03	1.94		ug/L		96	56 - 133
4-Chloroaniline	ND	F1	2.03	ND	F1	ug/L		0	20 - 110
4-Chlorophenyl phenyl ether	ND		2.03	1.82		ug/L		90	59 - 125
4-Nitroaniline	ND		2.03	1.25		ug/L		61	40 - 118
4-Nitrophenol	ND		4.07	4.27		ug/L		105	20 - 150
Acenaphthene	ND		2.03	1.85		ug/L		91	55 - 113
Acenaphthylene	ND		2.03	1.66		ug/L		81	24 - 135
Anthracene	ND		2.03	1.13		ug/L		56	20 - 125
Benzo[a]anthracene	ND		2.03	1.77		ug/L		87	49 - 115
Benzo[a]pyrene	ND		2.03	1.12		ug/L		55	20 - 115
Benzo[b]fluoranthene	ND		2.03	2.16		ug/L		106	63 - 129
Benzo[g,h,i]perylene	ND		2.03	2.07		ug/L		102	58 - 127
Benzo[k]fluoranthene	ND		2.03	2.08		ug/L		102	60 - 134
Benzoic acid	ND		4.07	4.64		ug/L		89	20 - 150
Benzyl alcohol	ND		2.03	1.86		ug/L		91	52 - 124
Bis(2-chloroethoxy)methane	ND		2.03	1.96		ug/L		96	59 - 125
Bis(2-chloroethyl)ether	ND		2.03	1.99		ug/L		98	55 - 125
Bis(2-ethylhexyl) phthalate	ND	F1 F2	2.03	ND		ug/L		119	22 - 150
bis(chloroisopropyl) ether	ND	F1 F2	2.03	ND	F1	ug/L		8	44 - 123
Butyl benzyl phthalate	ND		2.03	2.29		ug/L		113	46 - 150
Carbazole	ND		2.03	2.04		ug/L		100	68 - 142
Chrysene	ND		2.03	2.01		ug/L		99	57 - 131
Dibenz(a,h)anthracene	ND		2.03	2.06		ug/L		101	56 - 124
Dibenzofuran	ND		2.03	1.90		ug/L		93	60 - 125
Diethyl phthalate	ND		2.03	2.11		ug/L		104	60 - 134
Dimethyl phthalate	ND		2.03	1.98		ug/L		97	65 - 134
Di-n-butyl phthalate	ND		2.03	2.33		ug/L		104	67 - 140
Di-n-octyl phthalate	ND		2.03	2.29		ug/L		103	55 - 150
Fluoranthene	ND		2.03	1.92		ug/L		95	70 - 135
Fluorene	ND		2.03	1.94		ug/L		95	57 - 125
Hexachlorobenzene	ND		2.03	1.73		ug/L		85	55 - 135
Hexachlorobutadiene	ND		2.03	0.934		ug/L		46	25 - 125
Hexachlorocyclopentadiene	ND		2.03	ND		ug/L		23	20 - 110
Hexachloroethane	ND		2.03	1.06		ug/L		52	24 - 125
Indeno[1,2,3-cd]pyrene	ND		2.03	1.94		ug/L		95	54 - 124
Isophorone	ND		2.03	1.97		ug/L		97	64 - 125
Naphthalene	ND		2.03	1.81		ug/L		89	56 - 119
Nitrobenzene	ND		2.03	1.96		ug/L		97	62 - 125
N-Nitrosodi-n-propylamine	ND		2.03	1.83		ug/L		90	54 - 120
N-Nitrosodiphenylamine	ND		2.03	1.43		ug/L		70	40 - 124
Pentachlorophenol	ND		4.07	3.88		ug/L		95	30 - 122
Phenanthrene	ND		2.03	1.94		ug/L		95	57 - 125
Phenol	ND		2.03	1.75		ug/L		86	53 - 113
Pyrene	ND		2.03	1.97		ug/L		97	64 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*92*		*57 - 132*
2-Fluorobiphenyl	*83*		*50 - 120*

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-62531-2 MS — **Client Sample ID: TPW-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228091 — **Prep Batch: 227786**

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorophenol (Surr)	87		50 - 113
Nitrobenzene-d5 (Surr)	89		59 - 120
Phenol-d5 (Surr)	85		52 - 120
Terphenyl-d14 (Surr)	94		72 - 140

Lab Sample ID: 580-62531-2 MSD — **Client Sample ID: TPW-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228091 — **Prep Batch: 227786**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		2.00	1.57		ug/L		78	40 - 115	3	35
1,2-Dichlorobenzene	ND		2.00	1.68		ug/L		84	44 - 119	1	35
1,3-Dichlorobenzene	ND		2.00	1.31		ug/L		65	34 - 116	6	35
1,4-Dichlorobenzene	ND		2.00	1.34		ug/L		67	40 - 118	6	35
1-Methylnaphthalene	ND		2.00	1.78		ug/L		89	54 - 119	3	35
2,4,5-Trichlorophenol	ND		2.00	2.05		ug/L		102	56 - 122	3	35
2,4,6-Trichlorophenol	ND		2.00	2.00		ug/L		100	55 - 134	4	35
2,4-Dichlorophenol	ND		2.00	2.02		ug/L		101	50 - 125	4	35
2,4-Dimethylphenol	ND		2.00	ND		ug/L		30	20 - 106	23	35
2,4-Dinitrophenol	ND		4.01	ND		ug/L		93	24 - 139	8	35
2,4-Dinitrotoluene	ND		2.00	2.12		ug/L		106	40 - 143	8	35
2,6-Dinitrotoluene	0.47		2.00	2.49		ug/L		101	45 - 134	3	35
2-Chloronaphthalene	ND		2.00	1.79		ug/L		89	55 - 125	1	35
2-Chlorophenol	ND		2.00	1.84		ug/L		92	57 - 125	3	35
2-Methylnaphthalene	ND		2.00	1.78		ug/L		89	56 - 117	3	35
2-Methylphenol	ND		2.00	1.67		ug/L		83	53 - 118	6	35
2-Nitroaniline	ND		2.00	2.07		ug/L		103	58 - 124	6	35
2-Nitrophenol	ND		2.00	1.84		ug/L		92	20 - 150	1	35
3 & 4 Methylphenol	ND		2.00	1.76		ug/L		88	54 - 112	0	35
3,3'-Dichlorobenzidine	ND	F1	4.01	ND	F1	ug/L		0	20 - 121	NC	35
3-Nitroaniline	ND	F1	2.00	0.470		ug/L		23	22 - 124	22	35
4,6-Dinitro-2-methylphenol	ND		4.01	ND		ug/L		98	20 - 150	0	35
4-Bromophenyl phenyl ether	ND		2.00	1.95		ug/L		97	62 - 132	3	35
4-Chloro-3-methylphenol	ND		2.00	1.92		ug/L		96	56 - 133	1	35
4-Chloroaniline	ND	F1	2.00	ND	F1	ug/L		0	20 - 110	NC	35
4-Chlorophenyl phenyl ether	ND		2.00	1.89		ug/L		94	59 - 125	4	35
4-Nitroaniline	ND		2.00	1.29		ug/L		64	40 - 118	3	35
4-Nitrophenol	ND		4.01	4.35		ug/L		109	20 - 150	2	35
Acenaphthene	ND		2.00	1.92		ug/L		96	55 - 113	4	35
Acenaphthylene	ND		2.00	1.75		ug/L		87	24 - 135	5	35
Anthracene	ND		2.00	1.19		ug/L		59	20 - 125	5	35
Benzo[a]anthracene	ND		2.00	1.81		ug/L		90	49 - 115	2	35
Benzo[a]pyrene	ND		2.00	1.15		ug/L		57	20 - 115	2	35
Benzo[b]fluoranthene	ND		2.00	2.11		ug/L		105	63 - 129	2	35
Benzo[g,h,i]perylene	ND		2.00	2.00		ug/L		100	58 - 127	3	35
Benzo[k]fluoranthene	ND		2.00	2.06		ug/L		103	60 - 134	1	35
Benzoic acid	ND		4.01	4.65		ug/L		91	20 - 150	0	35
Benzyl alcohol	ND		2.00	1.86		ug/L		93	52 - 124	0	35

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-62531-2 MSD — **Client Sample ID: TPW-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228091 — **Prep Batch: 227786**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	ND		2.00	1.97		ug/L		98	59 - 125	0	35
Bis(2-chloroethyl)ether	ND		2.00	1.85		ug/L		92	55 - 125	7	35
Bis(2-ethylhexyl) phthalate	ND	F1 F2	2.00	5.47	F1 F2	ug/L		273	22 - 150	77	35
bis(chloroisopropyl) ether	ND	F1 F2	2.00	1.98	F2	ug/L		99	44 - 123	171	35
Butyl benzyl phthalate	ND		2.00	2.32		ug/L		116	46 - 150	1	35
Carbazole	ND		2.00	2.13		ug/L		106	68 - 142	4	35
Chrysene	ND		2.00	1.98		ug/L		99	57 - 131	1	35
Dibenz(a,h)anthracene	ND		2.00	1.95		ug/L		97	56 - 124	6	35
Dibenzofuran	ND		2.00	1.94		ug/L		97	60 - 125	2	35
Diethyl phthalate	ND		2.00	2.13		ug/L		106	60 - 134	1	35
Dimethyl phthalate	ND		2.00	2.07		ug/L		103	65 - 134	5	35
Di-n-butyl phthalate	ND		2.00	2.20		ug/L		99	67 - 140	6	35
Di-n-octyl phthalate	ND		2.00	2.24		ug/L		102	55 - 150	2	35
Fluoranthene	ND		2.00	1.88		ug/L		94	70 - 135	2	35
Fluorene	ND		2.00	2.00		ug/L		100	57 - 125	3	35
Hexachlorobenzene	ND		2.00	1.83		ug/L		91	55 - 135	5	35
Hexachlorobutadiene	ND		2.00	0.914		ug/L		46	25 - 125	2	35
Hexachlorocyclopentadiene	ND		2.00	ND		ug/L		20	20 - 110	17	35
Hexachloroethane	ND		2.00	0.965		ug/L		48	24 - 125	9	35
Indeno[1,2,3-cd]pyrene	ND		2.00	1.92		ug/L		96	54 - 124	1	35
Isophorone	ND		2.00	1.92		ug/L		96	64 - 125	2	35
Naphthalene	ND		2.00	1.84		ug/L		92	56 - 119	2	35
Nitrobenzene	ND		2.00	1.95		ug/L		97	62 - 125	1	35
N-Nitrosodi-n-propylamine	ND		2.00	1.70		ug/L		85	54 - 120	7	35
N-Nitrosodiphenylamine	ND		2.00	1.46		ug/L		73	40 - 124	2	35
Pentachlorophenol	ND		4.01	3.90		ug/L		97	30 - 122	0	35
Phenanthrene	ND		2.00	1.94		ug/L		97	57 - 125	0	35
Phenol	ND		2.00	1.69		ug/L		84	53 - 113	4	35
Pyrene	ND		2.00	1.94		ug/L		97	64 - 128	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*91*		*57 - 132*
2-Fluorobiphenyl	*84*		*50 - 120*
2-Fluorophenol (Surr)	*79*		*50 - 113*
Nitrobenzene-d5 (Surr)	*87*		*59 - 120*
Phenol-d5 (Surr)	*81*		*52 - 120*
Terphenyl-d14 (Surr)	*87*		*72 - 140*

Lab Sample ID: MB 580-228461/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228761 — **Prep Batch: 228461**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
1,2-Dichlorobenzene	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
1,3-Dichlorobenzene	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
1,4-Dichlorobenzene	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
1-Methylnaphthalene	ND		0.060	0.030	ug/L		09/27/16 14:37	09/30/16 14:41	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-228461/1-A | **Client Sample ID: Method Blank**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 228761 | **Prep Batch: 228461**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
2,4,6-Trichlorophenol	ND		0.60	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
2,4-Dichlorophenol	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
2,4-Dimethylphenol	ND		2.0	0.30	ug/L		09/27/16 14:37	09/30/16 14:41	1
2,4-Dinitrophenol	ND		5.0	1.0	ug/L		09/27/16 14:37	09/30/16 14:41	1
2,4-Dinitrotoluene	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
2,6-Dinitrotoluene	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
2-Chloronaphthalene	ND		0.060	0.020	ug/L		09/27/16 14:37	09/30/16 14:41	1
2-Chlorophenol	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
2-Methylnaphthalene	ND		0.20	0.020	ug/L		09/27/16 14:37	09/30/16 14:41	1
2-Methylphenol	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
2-Nitroaniline	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
2-Nitrophenol	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
3 & 4 Methylphenol	ND		0.80	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
3,3'-Dichlorobenzidine	ND		2.0	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
3-Nitroaniline	ND		0.40	0.12	ug/L		09/27/16 14:37	09/30/16 14:41	1
4,6-Dinitro-2-methylphenol	ND		4.0	1.0	ug/L		09/27/16 14:37	09/30/16 14:41	1
4-Bromophenyl phenyl ether	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
4-Chloro-3-methylphenol	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
4-Chloroaniline	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
4-Chlorophenyl phenyl ether	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
4-Nitroaniline	ND		0.60	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
4-Nitrophenol	ND		3.0	1.0	ug/L		09/27/16 14:37	09/30/16 14:41	1
Acenaphthene	ND		0.10	0.020	ug/L		09/27/16 14:37	09/30/16 14:41	1
Acenaphthylene	ND		0.080	0.020	ug/L		09/27/16 14:37	09/30/16 14:41	1
Anthracene	ND		0.040	0.010	ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzo[a]anthracene	ND		0.060	0.020	ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzo[a]pyrene	ND		0.040	0.020	ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzo[b]fluoranthene	ND		0.080	0.020	ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzo[g,h,i]perylene	ND		0.060	0.020	ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzo[k]fluoranthene	ND		0.060	0.020	ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzoic acid	ND		3.0	0.60	ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzyl alcohol	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Bis(2-chloroethoxy)methane	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Bis(2-chloroethyl)ether	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Bis(2-ethylhexyl) phthalate	ND		3.0	1.2	ug/L		09/27/16 14:37	09/30/16 14:41	1
bis(chloroisopropyl) ether	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Butyl benzyl phthalate	0.211	J	0.60	0.20	ug/L		09/27/16 14:37	09/30/16 14:41	1
Carbazole	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Chrysene	ND		0.040	0.013	ug/L		09/27/16 14:37	09/30/16 14:41	1
Dibenz(a,h)anthracene	ND		0.060	0.020	ug/L		09/27/16 14:37	09/30/16 14:41	1
Dibenzofuran	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Diethyl phthalate	0.255	J	0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Dimethyl phthalate	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Di-n-butyl phthalate	0.136	J	0.40	0.13	ug/L		09/27/16 14:37	09/30/16 14:41	1
Di-n-octyl phthalate	ND		0.40	0.18	ug/L		09/27/16 14:37	09/30/16 14:41	1
Fluoranthene	ND		0.050	0.013	ug/L		09/27/16 14:37	09/30/16 14:41	1
Fluorene	ND		0.060	0.020	ug/L		09/27/16 14:37	09/30/16 14:41	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-228461/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228761 — **Prep Batch: 228461**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Hexachlorobutadiene	ND		0.60	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Hexachlorocyclopentadiene	ND		2.0	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Hexachloroethane	ND		0.60	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Indeno[1,2,3-cd]pyrene	ND		0.060	0.020	ug/L		09/27/16 14:37	09/30/16 14:41	1
Isophorone	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Naphthalene	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Nitrobenzene	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
N-Nitrosodi-n-propylamine	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
N-Nitrosodiphenylamine	ND		0.40	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Pentachlorophenol	ND		0.70	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Phenanthrene	ND		0.080	0.020	ug/L		09/27/16 14:37	09/30/16 14:41	1
Phenol	ND		0.60	0.10	ug/L		09/27/16 14:37	09/30/16 14:41	1
Pyrene	ND		0.060	0.013	ug/L		09/27/16 14:37	09/30/16 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*57 - 132*	*09/27/16 14:37*	*09/30/16 14:41*	*1*
2-Fluorobiphenyl	*81*		*50 - 120*	*09/27/16 14:37*	*09/30/16 14:41*	*1*
2-Fluorophenol (Surr)	*74*		*50 - 113*	*09/27/16 14:37*	*09/30/16 14:41*	*1*
Nitrobenzene-d5 (Surr)	*83*		*59 - 120*	*09/27/16 14:37*	*09/30/16 14:41*	*1*
Phenol-d5 (Surr)	*78*		*52 - 120*	*09/27/16 14:37*	*09/30/16 14:41*	*1*
Terphenyl-d14 (Surr)	*98*		*72 - 140*	*09/27/16 14:37*	*09/30/16 14:41*	*1*

Lab Sample ID: LCS 580-228461/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228761 — **Prep Batch: 228461**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	2.00	1.37		ug/L		68	40 - 115
1,2-Dichlorobenzene	2.00	1.69		ug/L		85	44 - 119
1,3-Dichlorobenzene	2.00	1.49		ug/L		75	34 - 116
1,4-Dichlorobenzene	2.00	1.42		ug/L		71	40 - 118
1-Methylnaphthalene	2.00	1.89		ug/L		94	54 - 119
2,4,5-Trichlorophenol	2.00	1.91		ug/L		95	56 - 122
2,4,6-Trichlorophenol	2.00	1.89		ug/L		95	55 - 134
2,4-Dichlorophenol	2.00	1.71		ug/L		86	50 - 125
2,4-Dimethylphenol	2.00	1.04	J	ug/L		52	20 - 106
2,4-Dinitrophenol	4.00	2.94	J	ug/L		73	24 - 139
2,4-Dinitrotoluene	2.00	1.91		ug/L		96	40 - 143
2,6-Dinitrotoluene	2.00	2.07		ug/L		103	45 - 134
2-Chloronaphthalene	2.00	1.86		ug/L		93	55 - 125
2-Chlorophenol	2.00	2.11		ug/L		106	57 - 125
2-Methylnaphthalene	2.00	1.74		ug/L		87	56 - 117
2-Methylphenol	2.00	1.83		ug/L		92	53 - 118
2-Nitroaniline	2.00	2.25		ug/L		113	58 - 124
2-Nitrophenol	2.00	1.68		ug/L		84	20 - 150
3 & 4 Methylphenol	2.00	1.87		ug/L		93	54 - 112
3,3'-Dichlorobenzidine	4.00	0.215	J *	ug/L		5	20 - 121

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-228461/2-A
Matrix: Water
Analysis Batch: 228761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	2.00	0.773		ug/L		39	22 - 124
4,6-Dinitro-2-methylphenol	4.00	2.42	J	ug/L		60	20 - 150
4-Bromophenyl phenyl ether	2.00	2.00		ug/L		100	62 - 132
4-Chloro-3-methylphenol	2.00	1.82		ug/L		91	56 - 133
4-Chloroaniline	2.00	ND	*	ug/L		1	20 - 110
4-Chlorophenyl phenyl ether	2.00	1.96		ug/L		98	59 - 125
4-Nitroaniline	2.00	1.42		ug/L		71	40 - 118
4-Nitrophenol	4.00	3.86		ug/L		96	20 - 150
Acenaphthene	2.00	1.83		ug/L		91	55 - 113
Acenaphthylene	2.00	1.60		ug/L		80	24 - 135
Anthracene	2.00	1.44		ug/L		72	20 - 125
Benzo[a]anthracene	2.00	1.92		ug/L		96	49 - 115
Benzo[a]pyrene	2.00	1.19		ug/L		59	20 - 115
Benzo[b]fluoranthene	2.00	2.13		ug/L		107	63 - 129
Benzo[g,h,i]perylene	2.00	2.15		ug/L		108	58 - 127
Benzo[k]fluoranthene	2.00	2.06		ug/L		103	60 - 134
Benzoic acid	4.00	4.18		ug/L		105	20 - 150
Benzyl alcohol	2.00	1.89		ug/L		95	52 - 124
Bis(2-chloroethoxy)methane	2.00	1.89		ug/L		94	59 - 125
Bis(2-chloroethyl)ether	2.00	1.89		ug/L		94	55 - 125
Bis(2-ethylhexyl) phthalate	2.00	1.98	J	ug/L		99	22 - 150
bis(chloroisopropyl) ether	2.00	1.90		ug/L		95	44 - 123
Butyl benzyl phthalate	2.00	2.51		ug/L		125	46 - 150
Carbazole	2.00	2.29		ug/L		115	68 - 142
Chrysene	2.00	2.12		ug/L		106	57 - 131
Dibenz(a,h)anthracene	2.00	2.08		ug/L		104	56 - 124
Dibenzofuran	2.00	1.97		ug/L		98	60 - 125
Diethyl phthalate	2.00	1.99		ug/L		99	60 - 134
Dimethyl phthalate	2.00	2.04		ug/L		102	65 - 134
Di-n-butyl phthalate	2.00	2.22		ug/L		111	67 - 140
Di-n-octyl phthalate	2.00	2.24		ug/L		112	55 - 150
Fluoranthene	2.00	2.22		ug/L		111	70 - 135
Fluorene	2.00	2.02		ug/L		101	57 - 125
Hexachlorobenzene	2.00	1.96		ug/L		98	55 - 135
Hexachlorobutadiene	2.00	1.35		ug/L		68	25 - 125
Hexachlorocyclopentadiene	2.00	0.366	J *	ug/L		18	20 - 110
Hexachloroethane	2.00	1.40		ug/L		70	24 - 125
Indeno[1,2,3-cd]pyrene	2.00	2.32		ug/L		116	54 - 124
Isophorone	2.00	1.94		ug/L		97	64 - 125
Naphthalene	2.00	1.68		ug/L		84	56 - 119
Nitrobenzene	2.00	2.02		ug/L		101	62 - 125
N-Nitrosodi-n-propylamine	2.00	1.77		ug/L		88	54 - 120
N-Nitrosodiphenylamine	2.00	1.42		ug/L		71	40 - 124
Pentachlorophenol	4.00	3.96		ug/L		99	30 - 122
Phenanthrene	2.00	1.98		ug/L		99	57 - 125
Phenol	2.00	1.90		ug/L		95	53 - 113
Pyrene	2.00	2.21		ug/L		110	64 - 128

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-228461/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228761 — **Prep Batch: 228461**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	103		57 - 132
2-Fluorobiphenyl	89		50 - 120
2-Fluorophenol (Surr)	91		50 - 113
Nitrobenzene-d5 (Surr)	94		59 - 120
Phenol-d5 (Surr)	97		52 - 120
Terphenyl-d14 (Surr)	111		72 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE

Lab Sample ID: 580-62531-2 MS — **Client Sample ID: TPW-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228761 — **Prep Batch: 228461**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene - RE	ND	H	2.02	1.60	H	ug/L		79	40 - 115
1,2-Dichlorobenzene - RE	ND	H	2.02	1.78	H	ug/L		88	44 - 119
1,3-Dichlorobenzene - RE	ND	H	2.02	1.77	H	ug/L		88	34 - 116
1,4-Dichlorobenzene - RE	ND	H	2.02	1.74	H	ug/L		86	40 - 118
1-Methylnaphthalene - RE	ND	H	2.02	1.84	H	ug/L		91	54 - 119
2,4,5-Trichlorophenol - RE	ND	H	2.02	1.91	H	ug/L		94	56 - 122
2,4,6-Trichlorophenol - RE	ND	H	2.02	1.86	H	ug/L		92	55 - 134
2,4-Dichlorophenol - RE	ND	H	2.02	1.69	H	ug/L		83	50 - 125
2,4-Dimethylphenol - RE	ND	H	2.02	ND	H	ug/L		75	20 - 106
2,4-Dinitrophenol - RE	ND	H	4.05	ND	H	ug/L		114	24 - 139
2,4-Dinitrotoluene - RE	ND	H	2.02	2.11	H	ug/L		104	40 - 143
2,6-Dinitrotoluene - RE	0.42	H	2.02	2.42	H	ug/L		99	45 - 134
2-Chloronaphthalene - RE	ND	H	2.02	1.82	H	ug/L		90	55 - 125
2-Chlorophenol - RE	ND	H	2.02	1.88	H	ug/L		93	57 - 125
2-Methylnaphthalene - RE	ND	H	2.02	1.73	H	ug/L		86	56 - 117
2-Methylphenol - RE	ND	H	2.02	1.85	H	ug/L		91	53 - 118
2-Nitroaniline - RE	ND	H	2.02	2.41	H	ug/L		119	58 - 124
2-Nitrophenol - RE	ND	H	2.02	1.89	H	ug/L		93	20 - 150
3 & 4 Methylphenol - RE	ND	H	2.02	1.85	H	ug/L		91	54 - 112
3,3'-Dichlorobenzidine - RE	ND	H F1 F2	4.05	ND	H F1	ug/L		5	20 - 121
3-Nitroaniline - RE	ND	H F2	2.02	0.746	H	ug/L		37	22 - 124
4,6-Dinitro-2-methylphenol - RE	ND	H	4.05	4.02	H	ug/L		99	20 - 150
4-Bromophenyl phenyl ether - RE	ND	H	2.02	1.81	H	ug/L		89	62 - 132
4-Chloro-3-methylphenol - RE	ND	H	2.02	1.95	H	ug/L		96	56 - 133
4-Chloroaniline - RE	ND	H F1	2.02	ND	H F1	ug/L		0	20 - 110
4-Chlorophenyl phenyl ether - RE	ND	H	2.02	1.94	H	ug/L		96	59 - 125
4-Nitroaniline - RE	ND	H	2.02	1.24	H	ug/L		61	40 - 118
4-Nitrophenol - RE	ND	H	4.05	4.19	H	ug/L		103	20 - 150
Acenaphthene - RE	ND	H	2.02	1.75	H	ug/L		86	55 - 113
Acenaphthylene - RE	ND	H	2.02	1.74	H	ug/L		86	24 - 135
Anthracene - RE	ND	H	2.02	1.72	H	ug/L		85	20 - 125
Benzo[a]anthracene - RE	ND	H	2.02	2.01	H	ug/L		99	49 - 115
Benzo[a]pyrene - RE	ND	H	2.02	1.60	H	ug/L		79	20 - 115
Benzo[b]fluoranthene - RE	ND	H	2.02	2.06	H	ug/L		102	63 - 129

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Lab Sample ID: 580-62531-2 MS | **Client Sample ID: TPW-1-0916**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 228761 | **Prep Batch: 228461**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[g,h,i]perylene - RE	ND	H	2.02	2.26	H	ug/L		112	58 - 127
Benzo[k]fluoranthene - RE	ND	H	2.02	1.81	H	ug/L		90	60 - 134
Benzoic acid - RE	ND	H	4.05	5.03	H	ug/L		106	20 - 150
Benzyl alcohol - RE	ND	H	2.02	1.82	H	ug/L		90	52 - 124
Bis(2-chloroethoxy)methane - RE	ND	H	2.02	1.78	H	ug/L		88	59 - 125
Bis(2-chloroethyl)ether - RE	ND	H	2.02	1.76	H	ug/L		87	55 - 125
Bis(2-ethylhexyl) phthalate - RE	ND	H F1	2.02	3.50	H F1	ug/L		173	22 - 150
bis(chloroisopropyl) ether - RE	ND	H	2.02	1.86	H	ug/L		92	44 - 123
Butyl benzyl phthalate - RE	ND	H	2.02	2.45	H	ug/L		109	46 - 150
Carbazole - RE	ND	H	2.02	2.16	H	ug/L		107	68 - 142
Chrysene - RE	ND	H	2.02	2.21	H	ug/L		109	57 - 131
Dibenz(a,h)anthracene - RE	ND	H	2.02	2.26	H	ug/L		112	56 - 124
Dibenzofuran - RE	ND	H	2.02	1.92	H	ug/L		95	60 - 125
Diethyl phthalate - RE	ND	H	2.02	1.96	H	ug/L		91	60 - 134
Dimethyl phthalate - RE	ND	H	2.02	2.02	H	ug/L		100	65 - 134
Di-n-butyl phthalate - RE	ND	H	2.02	2.30	H	ug/L		101	67 - 140
Di-n-octyl phthalate - RE	ND	H	2.02	2.31	H	ug/L		114	55 - 150
Fluoranthene - RE	ND	H	2.02	2.21	H	ug/L		109	70 - 135
Fluorene - RE	ND	H	2.02	2.02	H	ug/L		100	57 - 125
Hexachlorobenzene - RE	ND	H	2.02	1.89	H	ug/L		93	55 - 135
Hexachlorobutadiene - RE	ND	H	2.02	1.65	H	ug/L		81	25 - 125
Hexachlorocyclopentadiene - RE	ND	H	2.02	ND	H	ug/L		53	20 - 110
Hexachloroethane - RE	ND	H	2.02	1.70	H	ug/L		84	24 - 125
Indeno[1,2,3-cd]pyrene - RE	ND	H	2.02	2.22	H	ug/L		109	54 - 124
Isophorone - RE	ND	H	2.02	1.91	H	ug/L		94	64 - 125
Naphthalene - RE	ND	H	2.02	1.71	H	ug/L		84	56 - 119
Nitrobenzene - RE	ND	H	2.02	1.89	H	ug/L		93	62 - 125
N-Nitrosodi-n-propylamine - RE	ND	H	2.02	2.01	H	ug/L		99	54 - 120
N-Nitrosodiphenylamine - RE	ND	H	2.02	1.57	H	ug/L		78	40 - 124
Pentachlorophenol - RE	ND	H	4.05	3.86	H	ug/L		95	30 - 122
Phenanthrene - RE	ND	H	2.02	1.82	H	ug/L		90	57 - 125
Phenol - RE	ND	H	2.02	1.75	H	ug/L		86	53 - 113
Pyrene - RE	ND	H	2.02	2.15	H	ug/L		105	64 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr) - RE	*101*		*57 - 132*
2-Fluorobiphenyl - RE	*82*		*50 - 120*
2-Fluorophenol (Surr) - RE	*83*		*50 - 113*
Nitrobenzene-d5 (Surr) - RE	*91*		*59 - 120*
Phenol-d5 (Surr) - RE	*87*		*52 - 120*
Terphenyl-d14 (Surr) - RE	*104*		*72 - 140*

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Lab Sample ID: 580-62531-2 MSD | **Client Sample ID: TPW-1-0916**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 228761 | **Prep Batch: 228461**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene - RE	ND	H	2.03	1.54	H	ug/L		76	40 - 115	4	35
1,2-Dichlorobenzene - RE	ND	H	2.03	1.71	H	ug/L		85	44 - 119	4	35
1,3-Dichlorobenzene - RE	ND	H	2.03	1.69	H	ug/L		84	34 - 116	5	35
1,4-Dichlorobenzene - RE	ND	H	2.03	1.66	H	ug/L		82	40 - 118	5	35
1-Methylnaphthalene - RE	ND	H	2.03	1.79	H	ug/L		88	54 - 119	3	35
2,4,5-Trichlorophenol - RE	ND	H	2.03	1.92	H	ug/L		95	56 - 122	0	35
2,4,6-Trichlorophenol - RE	ND	H	2.03	1.87	H	ug/L		92	55 - 134	1	35
2,4-Dichlorophenol - RE	ND	H	2.03	1.69	H	ug/L		84	50 - 125	0	35
2,4-Dimethylphenol - RE	ND	H	2.03	ND	H	ug/L		73	20 - 106	2	35
2,4-Dinitrophenol - RE	ND	H	4.05	ND	H	ug/L		110	24 - 139	4	35
2,4-Dinitrotoluene - RE	ND	H	2.03	1.97	H	ug/L		97	40 - 143	7	35
2,6-Dinitrotoluene - RE	0.42	H	2.03	2.28	H	ug/L		92	45 - 134	6	35
2-Chloronaphthalene - RE	ND	H	2.03	1.72	H	ug/L		85	55 - 125	6	35
2-Chlorophenol - RE	ND	H	2.03	1.86	H	ug/L		92	57 - 125	1	35
2-Methylnaphthalene - RE	ND	H	2.03	1.67	H	ug/L		82	56 - 117	4	35
2-Methylphenol - RE	ND	H	2.03	1.72	H	ug/L		85	53 - 118	7	35
2-Nitroaniline - RE	ND	H	2.03	2.20	H	ug/L		108	58 - 124	9	35
2-Nitrophenol - RE	ND	H	2.03	1.94	H	ug/L		96	20 - 150	3	35
3 & 4 Methylphenol - RE	ND	H	2.03	1.71	H	ug/L		85	54 - 112	8	35
3,3'-Dichlorobenzidine - RE	ND	H F1 F2	4.05	ND	H F1 F2	ug/L		12	20 - 121	88	35
3-Nitroaniline - RE	ND	H F2	2.03	1.25	H F2	ug/L		62	22 - 124	51	35
4,6-Dinitro-2-methylphenol - RE	ND	H	4.05	ND	H	ug/L		97	20 - 150	3	35
4-Bromophenyl phenyl ether - RE	ND	H	2.03	1.81	H	ug/L		89	62 - 132	0	35
4-Chloro-3-methylphenol - RE	ND	H	2.03	1.88	H	ug/L		93	56 - 133	4	35
4-Chloroaniline - RE	ND	H F1	2.03	ND	H F1	ug/L		0	20 - 110	NC	35
4-Chlorophenyl phenyl ether - RE	ND	H	2.03	1.73	H	ug/L		85	59 - 125	12	35
4-Nitroaniline - RE	ND	H	2.03	1.51	H	ug/L		75	40 - 118	20	35
4-Nitrophenol - RE	ND	H	4.05	4.07	H	ug/L		100	20 - 150	3	35
Acenaphthene - RE	ND	H	2.03	1.68	H	ug/L		83	55 - 113	4	35
Acenaphthylene - RE	ND	H	2.03	1.67	H	ug/L		82	24 - 135	4	35
Anthracene - RE	ND	H	2.03	1.65	H	ug/L		82	20 - 125	4	35
Benzo[a]anthracene - RE	ND	H	2.03	1.96	H	ug/L		97	49 - 115	2	35
Benzo[a]pyrene - RE	ND	H	2.03	1.48	H	ug/L		73	20 - 115	8	35
Benzo[b]fluoranthene - RE	ND	H	2.03	1.88	H	ug/L		93	63 - 129	9	35
Benzo[g,h,i]perylene - RE	ND	H	2.03	2.05	H	ug/L		101	58 - 127	10	35
Benzo[k]fluoranthene - RE	ND	H	2.03	1.81	H	ug/L		89	60 - 134	0	35
Benzoic acid - RE	ND	H	4.05	5.37	H	ug/L		115	20 - 150	7	35
Benzyl alcohol - RE	ND	H	2.03	1.67	H	ug/L		83	52 - 124	8	35
Bis(2-chloroethoxy)methane - RE	ND	H	2.03	1.75	H	ug/L		86	59 - 125	2	35
Bis(2-chloroethyl)ether - RE	ND	H	2.03	1.78	H	ug/L		88	55 - 125	1	35
Bis(2-ethylhexyl) phthalate - RE	ND	H F1	2.03	4.64	H F1	ug/L		229	22 - 150	28	35
bis(chloroisopropyl) ether - RE	ND	H	2.03	1.69	H	ug/L		83	44 - 123	10	35
Butyl benzyl phthalate - RE	ND	H	2.03	2.45	H	ug/L		109	46 - 150	0	35
Carbazole - RE	ND	H	2.03	2.11	H	ug/L		104	68 - 142	2	35
Chrysene - RE	ND	H	2.03	1.96	H	ug/L		97	57 - 131	12	35
Dibenz(a,h)anthracene - RE	ND	H	2.03	2.05	H	ug/L		101	56 - 124	10	35
Dibenzofuran - RE	ND	H	2.03	1.82	H	ug/L		90	60 - 125	6	35
Diethyl phthalate - RE	ND	H	2.03	1.89	H	ug/L		88	60 - 134	4	35

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - RE (Continued)

Lab Sample ID: 580-62531-2 MSD — **Client Sample ID: TPW-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228761 — **Prep Batch: 228461**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dimethyl phthalate - RE	ND	H	2.03	1.94	H	ug/L		96	65 - 134	4	35
Di-n-butyl phthalate - RE	ND	H	2.03	2.26	H	ug/L		99	67 - 140	2	35
Di-n-octyl phthalate - RE	ND	H	2.03	2.23	H	ug/L		110	55 - 150	4	35
Fluoranthene - RE	ND	H	2.03	2.05	H	ug/L		101	70 - 135	8	35
Fluorene - RE	ND	H	2.03	1.93	H	ug/L		95	57 - 125	5	35
Hexachlorobenzene - RE	ND	H	2.03	1.89	H	ug/L		93	55 - 135	0	35
Hexachlorobutadiene - RE	ND	H	2.03	1.60	H	ug/L		79	25 - 125	3	35
Hexachlorocyclopentadiene - RE	ND	H	2.03	ND	H	ug/L		56	20 - 110	6	35
Hexachloroethane - RE	ND	H	2.03	1.72	H	ug/L		85	24 - 125	1	35
Indeno[1,2,3-cd]pyrene - RE	ND	H	2.03	2.14	H	ug/L		106	54 - 124	3	35
Isophorone - RE	ND	H	2.03	1.81	H	ug/L		90	64 - 125	5	35
Naphthalene - RE	ND	H	2.03	1.64	H	ug/L		81	56 - 119	4	35
Nitrobenzene - RE	ND	H	2.03	1.74	H	ug/L		86	62 - 125	8	35
N-Nitrosodi-n-propylamine - RE	ND	H	2.03	1.72	H	ug/L		85	54 - 120	15	35
N-Nitrosodiphenylamine - RE	ND	H	2.03	1.63	H	ug/L		81	40 - 124	4	35
Pentachlorophenol - RE	ND	H	4.05	3.83	H	ug/L		95	30 - 122	1	35
Phenanthrene - RE	ND	H	2.03	1.78	H	ug/L		88	57 - 125	2	35
Phenol - RE	ND	H	2.03	1.70	H	ug/L		84	53 - 113	3	35
Pyrene - RE	ND	H	2.03	2.03	H	ug/L		100	64 - 128	5	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr) - RE	*99*		*57 - 132*
2-Fluorobiphenyl - RE	*77*		*50 - 120*
2-Fluorophenol (Surr) - RE	*82*		*50 - 113*
Nitrobenzene-d5 (Surr) - RE	*87*		*59 - 120*
Phenol-d5 (Surr) - RE	*86*		*52 - 120*
Terphenyl-d14 (Surr) - RE	*96*		*72 - 140*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-343163/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 343175 — **Prep Batch: 343163**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/21/16 16:50	09/21/16 18:25	1
1,2-Dibromoethane	ND		0.020		ug/L		09/21/16 16:50	09/21/16 18:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*113*		*70 - 130*	*09/21/16 16:50*	*09/21/16 18:25*	*1*

Lab Sample ID: LCS 280-343163/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 343175 — **Prep Batch: 343163**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	0.250	0.250		ug/L		100	70 - 130

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: LCS 280-343163/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 343175 — **Prep Batch: 343163**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2-Dibromoethane			0.250	0.228		ug/L		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*106*		*70 - 130*

Lab Sample ID: LCSD 280-343163/4-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 343175 — **Prep Batch: 343163**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane			0.250	0.247		ug/L		99	70 - 130	1	10
1,2-Dibromoethane			0.250	0.228		ug/L		91	70 - 130	0	10

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dibromopropane	*109*		*70 - 130*

Lab Sample ID: 580-62531-2 MS — **Client Sample ID: TPW-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 343175 — **Prep Batch: 343163**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,3-Trichloropropane	ND		0.254	0.261		ug/L		103	70 - 130		
1,2-Dibromoethane	ND		0.254	0.237		ug/L		93	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dibromopropane	*114*		*70 - 130*

Lab Sample ID: 580-62531-2 MSD — **Client Sample ID: TPW-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 343175 — **Prep Batch: 343163**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		0.258	0.260		ug/L		101	70 - 130	0	10
1,2-Dibromoethane	ND		0.258	0.237		ug/L		92	70 - 130	0	10

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dibromopropane	*112*		*70 - 130*

Lab Chronicle

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: TPW-2-0916 — Lab Sample ID: 580-62531-1

Date Collected: 09/12/16 10:05 — **Matrix: Water**
Date Received: 09/14/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	227748	09/19/16 15:59	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	227836	09/20/16 17:57	CJ	TAL SEA
Total/NA	Prep	3520C	RE		228461	09/27/16 14:37	DSO	TAL SEA
Total/NA	Analysis	8270D	RE	1	228761	09/30/16 15:32	ERB	TAL SEA
Total/NA	Prep	3520C			227786	09/19/16 11:31	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228091	09/22/16 17:40	D1R	TAL SEA
Total/NA	Prep	8011			343163	09/21/16 16:50	MPS	TAL DEN
Total/NA	Analysis	8011		1	343175	09/21/16 23:52	MPS	TAL DEN

Client Sample ID: TPW-1-0916 — Lab Sample ID: 580-62531-2

Date Collected: 09/12/16 11:57 — **Matrix: Water**
Date Received: 09/14/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	227748	09/19/16 19:20	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	227836	09/20/16 19:23	CJ	TAL SEA
Total/NA	Prep	3520C	RE		228461	09/27/16 14:37	DSO	TAL SEA
Total/NA	Analysis	8270D	RE	1	228761	09/30/16 15:57	ERB	TAL SEA
Total/NA	Prep	3520C			227786	09/19/16 11:31	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228091	09/22/16 18:05	D1R	TAL SEA
Total/NA	Prep	8011			343163	09/21/16 16:50	MPS	TAL DEN
Total/NA	Analysis	8011		1	343175	09/21/16 20:20	MPS	TAL DEN

Client Sample ID: TPW-9-0916 — Lab Sample ID: 580-62531-3

Date Collected: 09/12/16 11:57 — **Matrix: Water**
Date Received: 09/14/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	227748	09/19/16 16:27	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	227836	09/20/16 18:26	CJ	TAL SEA
Total/NA	Prep	3520C	RE		228461	09/27/16 14:37	DSO	TAL SEA
Total/NA	Analysis	8270D	RE	1	228761	09/30/16 17:13	ERB	TAL SEA
Total/NA	Prep	3520C			227786	09/19/16 11:31	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228091	09/22/16 19:20	D1R	TAL SEA
Total/NA	Prep	8011			343163	09/21/16 16:50	MPS	TAL DEN
Total/NA	Analysis	8011		1	343175	09/22/16 00:14	MPS	TAL DEN

Lab Chronicle

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Client Sample ID: PQ-W1-0916 — Lab Sample ID: 580-62531-4

Date Collected: 09/12/16 15:10 — **Matrix: Water**
Date Received: 09/14/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	227748	09/19/16 16:56	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	227836	09/20/16 18:55	CJ	TAL SEA
Total/NA	Prep	3520C	RE		228461	09/27/16 14:37	DSO	TAL SEA
Total/NA	Analysis	8270D	RE	1	228761	09/30/16 17:39	ERB	TAL SEA
Total/NA	Prep	3520C			227786	09/19/16 11:31	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228091	09/22/16 19:45	D1R	TAL SEA
Total/NA	Prep	8011			343163	09/21/16 16:50	MPS	TAL DEN
Total/NA	Analysis	8011		1	343175	09/22/16 00:33	MPS	TAL DEN

Client Sample ID: TPW-5-0916 — Lab Sample ID: 580-62531-5

Date Collected: 09/12/16 16:44 — **Matrix: Water**
Date Received: 09/14/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C	RE		228461	09/27/16 14:37	DSO	TAL SEA
Total/NA	Analysis	8270D	RE	1	228761	09/30/16 18:04	ERB	TAL SEA
Total/NA	Prep	3520C			227786	09/19/16 11:31	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228091	09/22/16 20:10	D1R	TAL SEA
Total/NA	Prep	8011			343163	09/21/16 16:50	MPS	TAL DEN
Total/NA	Analysis	8011		1	343175	09/22/16 01:13	MPS	TAL DEN

Client Sample ID: TB-2-0916 — Lab Sample ID: 580-62531-6

Date Collected: 09/12/16 10:05 — **Matrix: Water**
Date Received: 09/14/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	227748	09/19/16 12:39	TL1	TAL SEA
Total/NA	Analysis	8260C	RA	1	227836	09/20/16 13:40	CJ	TAL SEA

Client Sample ID: TB-1-0916 — Lab Sample ID: 580-62531-7

Date Collected: 09/12/16 10:05 — **Matrix: Water**
Date Received: 09/14/16 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			343163	09/21/16 16:50	MPS	TAL DEN
Total/NA	Analysis	8011		1	343175	09/22/16 01:34	MPS	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8270D	3520C	Water	1,2,4-Trichlorobenzene
8270D	3520C	Water	1,2-Dichlorobenzene
8270D	3520C	Water	1,3-Dichlorobenzene
8270D	3520C	Water	1,4-Dichlorobenzene
8270D	3520C	Water	2,4,5-Trichlorophenol
8270D	3520C	Water	2,4,6-Trichlorophenol
8270D	3520C	Water	2,4-Dichlorophenol
8270D	3520C	Water	2,4-Dimethylphenol
8270D	3520C	Water	2,4-Dinitrophenol
8270D	3520C	Water	2,4-Dinitrotoluene
8270D	3520C	Water	2,6-Dinitrotoluene
8270D	3520C	Water	2-Chloronaphthalene
8270D	3520C	Water	2-Chlorophenol
8270D	3520C	Water	2-Methylphenol
8270D	3520C	Water	2-Nitroaniline
8270D	3520C	Water	2-Nitrophenol
8270D	3520C	Water	3 & 4 Methylphenol
8270D	3520C	Water	3,3'-Dichlorobenzidine
8270D	3520C	Water	3-Nitroaniline
8270D	3520C	Water	4,6-Dinitro-2-methylphenol
8270D	3520C	Water	4-Bromophenyl phenyl ether
8270D	3520C	Water	4-Chloro-3-methylphenol
8270D	3520C	Water	4-Chloroaniline
8270D	3520C	Water	4-Chlorophenyl phenyl ether
8270D	3520C	Water	4-Nitroaniline
8270D	3520C	Water	4-Nitrophenol
8270D	3520C	Water	Benzoic acid
8270D	3520C	Water	Benzyl alcohol
8270D	3520C	Water	Bis(2-chloroethoxy)methane
8270D	3520C	Water	Bis(2-chloroethyl)ether
8270D	3520C	Water	Bis(2-ethylhexyl) phthalate
8270D	3520C	Water	bis(chloroisopropyl) ether
8270D	3520C	Water	Butyl benzyl phthalate
8270D	3520C	Water	Carbazole
8270D	3520C	Water	Dibenzofuran
8270D	3520C	Water	Diethyl phthalate
8270D	3520C	Water	Dimethyl phthalate
8270D	3520C	Water	Di-n-butyl phthalate
8270D	3520C	Water	Di-n-octyl phthalate
8270D	3520C	Water	Hexachlorobenzene
8270D	3520C	Water	Hexachlorobutadiene
8270D	3520C	Water	Hexachlorocyclopentadiene
8270D	3520C	Water	Hexachloroethane
8270D	3520C	Water	Isophorone
8270D	3520C	Water	Nitrobenzene
8270D	3520C	Water	N-Nitrosodi-n-propylamine

Certification Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62531-1

Laboratory: TestAmerica Seattle (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8270D	3520C	Water	N-Nitrosodiphenylamine
8270D	3520C	Water	Pentachlorophenol
8270D	3520C	Water	Phenol

L-A-B	DoD ELAP		L2236	01-19-19

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,3-Dichlorobenzene

Laboratory: TestAmerica Denver

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-17
A2LA	ISO/IEC 17025		2907.01	10-31-17
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	04-05-17
Arizona	State Program	9	AZ0713	12-19-16
Arkansas DEQ	State Program	6	88-0687	06-01-17
California	State Program	9	2513	08-31-16 *
Connecticut	State Program	1	PH-0686	09-30-18
Florida	NELAP	4	E87667	06-30-17
Georgia	State Program	4	N/A	01-09-17
Illinois	NELAP	5	200017	04-30-17
Iowa	State Program	7	370	11-30-16
Kansas	NELAP	7	E-10166	04-30-17
Louisiana	NELAP	6	02096	06-30-17
Maine	State Program	1	CO0002	03-03-17
Minnesota	NELAP	5	8-999-405	12-31-16
Nevada	State Program	9	CO0026	07-31-17
New Hampshire	NELAP	1	205310	04-28-17
New Jersey	NELAP	2	CO004	06-30-17
New York	NELAP	2	11964	04-01-17
North Carolina (WW/SW)	State Program	4	358	12-31-16
North Dakota	State Program	8	R-034	01-09-17
Oklahoma	State Program	6	8614	08-31-17
Oregon	NELAP	10	4025	01-09-17
Pennsylvania	NELAP	3	68-00664	07-31-17
South Carolina	State Program	4	72002001	01-09-17
Texas	NELAP	6	T104704183-15-11	09-30-17
USDA	Federal		P330-13-00369	12-17-16
Utah	NELAP	8	CO00026	07-31-17
Virginia	NELAP	3	460232	06-14-17
Washington	State Program	10	C583	08-03-17
West Virginia DEP	State Program	3	354	11-30-16
Wisconsin	State Program	5	999615430	08-31-17
Wyoming (UST)	A2LA	8	2907.01	10-31-17

* Certification renewal pending - certification considered valid.

Sample Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62531-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-62531-1	TPW-2-0916	Water	09/12/16 10:05	09/14/16 09:00
580-62531-2	TPW-1-0916	Water	09/12/16 11:57	09/14/16 09:00
580-62531-3	TPW-9-0916	Water	09/12/16 11:57	09/14/16 09:00
580-62531-4	PQ-W1-0916	Water	09/12/16 15:10	09/14/16 09:00
580-62531-5	TPW-5-0916	Water	09/12/16 16:44	09/14/16 09:00
580-62531-6	TB-2-0916	Water	09/12/16 10:05	09/14/16 09:00
580-62531-7	TB-1-0916	Water	09/12/16 10:05	09/14/16 09:00

TestAmerica Anchorage
2000 W International Airport Road
Suite A10
Anchorage, AK 99502-1117
phone 907.563.9200 fax 907.563.921[illegible]

580-62531 Chain of Custody

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

[illegible]m: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jason Gray	Site Contact: Kyle Johnson	Date: 9/12/16	COC No:
SLR International	Tel/Fax: (907) 862-6579	Lab Contact:	Carrier:	1 of 1 COCs
2700 Gambell Street, Suite 200	Analysis Turnaround Time			Sampler:
Anchorage, AK, 99503	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(907) 862-6579 (Cell)	TAT if different from Below _____			Walk-in Client:
(907) 264-6965 (Office phone)	☑ 2 weeks			Lab Sampling:
Project Name: Kenai Wells, Event 2	☐ 1 week			
Site: Nikiski, AK	☐ 2 days			Job / SDG No.:
P O # 105.00148.16001	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	SVOC by SW8270D	EDB and 123TCP by SW8011	VOC by 8260B	Sample Specific Notes: (8260 / 8011)
TPW-2-0916	9/12/16	1005	G	GW	8			X	X	X	2x1 Liters / 3VOA / 3VOA
TPW-1-0916	↓	1157	↓	↓	21		Y	X	X	X	6x1 Liter / 9VOA / 6 VOA MS/MSD
TPW-9-0916		1157			8			X	X	X	2x1 Liter / 3VOA / 3VOA
(Y5) ~~TP~~ PQ-W1-0916		1510			8			X	X	X	2x1 liter / 3VOA / 3VOA
9/12/16 TPW-5-0916		1649			5			X	X		2x1 liter / — / 3 VOA
TB-1-0916		1005	—	—	3				X		3VOA
TB-2-0916		1005	—	—	3					X	3VOA

TB A2 Cooler ____ Cor 0.6° Unc 0.8° TB A2 Cooler ____ Cor 0.3° Unc 0.5°
Cooler Dsc Lt. Red/White @Lab — Cooler Dsc Lt. Green/White @Lab —
Wet/Packs Packing Bubble Wet/Packs Packing Bubble
w/cs Gold w/cs Gold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: TPW-1-0916 Extra Volume for MS/MSD

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: 2.2, 3.0 | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Kyle Johnson 9/12/16	Fugro Consultants	9/12/16 2100	[signature]	TA-AK	9/13/16 1:20
[signature]	TA-AK	9/13/16 14:40	[signature]	TA-SLA	9/14/16 0900
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.7, dated 11/02/2015

Cooler #1

Confidential
LNG Facilities Groundwater Quality
Sampling and Testing Report - Event 2
USAL-FG-GRZZZ-00-002016-004 Rev. 0
16-Dec-16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America Anchorage Cooler Receipt Form for Direct Ship Samples

CLIENT: SLR **PROJECT:** Kenai Wells, Event 2

Date /Time Cooler Arrived 9 / 13 / 16 11 : 20 Cooler signed for by: Andrew Pilch (Print name)

Preliminary Examination Phase:

Date cooler opened: ☒ same as date received *or* ___/___/___ ☐ Cooler not opened

Cooler opened by (print) Andrew Pilch (sign) [signature]

1. Delivered by ☐ ALASKA AIRLINES ☐ Fed-Ex ☐ UPS ☐ NAC ☐ LYNDEN ☐ CLIENT ☒ Other: Raven

   Shipment Tracking # if applicable 808 7137466 (include copy of shipping papers in file)

2. Number of Custody Seals 2 Signed by ___ Date ___/___/___

   Were custody seals unbroken and intact on arrival? ☒ Yes ☐ No

3. Were custody papers sealed in a plastic bag? ☒ Yes ☐ No ☐ Not checked

4. Were custody papers filled out properly (ink, signed, etc.)? ☒ Yes ☐ No ☐ Not checked

5. Did you sign the custody papers in the appropriate place? ☒ Yes ☐ No ☐ Not checked

6. Was ice used? ☒ Yes ☐ No Type of ice: ☐ blue ice ☒ gel ice ☐ real ice ☐ dry ice Condition of Ice: hard

   Temperature by Digi-Thermo Probe 2.2 °C Thermometer # Rec #5
   Acceptance Criteria: 0 - 6°C 3.0

7. Was ice changed or added? ☒ Yes ☐ No ☐ Not checked

8. Packing in Cooler: ☒ bubble wrap ☐ styrofoam ☒ cardboard ☐ Other: ___

9. Did samples arrive in plastic bags? ☒ Yes ☐ No ☐ Not checked

10. Did all bottles arrive unbroken, and with labels in good condition? ☒ Yes ☐ No ☐ Not checked

Comments

Cooler #1 temp 2.2 - all going to Seattle

cooler #2 temp 3.0 - split between Tacoma and Denver

Form No. AK-FORM-SPL-003, June 2010

Confidential
LNG Facilities Groundwater Quality
Sampling and Testing Report - Event 2
USAL-FG-GRZZZ-00-002016-004 Rev. 0
16-Dec-16

Cooler #2

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Test America Anchorage Cooler Receipt Form for Direct Ship Samples

CLIENT: SLR **PROJECT:** Kenai Wells, Event 2

Date /Time Cooler Arrived 9 / 13 / 16 11 : 20 Cooler signed for by: Andrew Pilch (Print name)

Preliminary Examination Phase:

Date cooler opened: ☒ same as date received *or* ___/___/___ ☐ Cooler not opened

Cooler opened by (print) Andrew Pilch (sign) [signature]

1. Delivered by ☐ ALASKA AIRLINES ☐ Fed-Ex ☐ UPS ☐ NAC ☐ LYNDEN ☐ CLIENT ☒ Other: Raven

   Shipment Tracking # if applicable 808 7137466 (include copy of shipping papers in file)

2. Number of Custody Seals 2 Signed by _____ Date ___/___/___

   Were custody seals unbroken and intact on arrival? ☒ Yes ☐ No

3. Were custody papers sealed in a plastic bag? ☒ Yes ☐ No ☐ Not checked

4. Were custody papers filled out properly (ink, signed, etc.)? ☒ Yes ☐ No ☐ Not checked

5. Did you sign the custody papers in the appropriate place? ☒ Yes ☐ No ☐ Not checked

6. Was ice used? ☒ Yes ☐ No Type of ice: ☐ blue ice ☒ gel ice ☐ real ice ☐ dry ice Condition of Ice: hard

   Temperature by Digi-Thermo Probe 2.2 °C Thermometer # Rec #5
   Acceptance Criteria: 0 - 6°C 3.0

7. Was ice changed or added? ☒ Yes ☐ No ☐ Not checked

8. Packing in Cooler: ☒ bubble wrap ☐ styrofoam ☒ cardboard ☐ Other: _____

9. Did samples arrive in plastic bags? ☒ Yes ☐ No ☐ Not checked

10. Did all bottles arrive unbroken, and with labels in good condition? ☒ Yes ☐ No ☐ Not checked

Comments
Cooler #1 temp 2.2 - all going to Seattle
cooler #2 temp 3.0 - split between Tacoma and Denver

Form No. AK-FORM-SPL-003, June 2010

TestAmerica Anchorage
2000 W International Airport Road
Suite A10
Anchorage, AK 99502-1117
phone 907.563.9200 fax 907.563.9210

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Jason Gray	Site Contact: Kyle Johnson	Date: 9/12/16	COC No:
LR International	Tel/Fax: (907) 862-6579	Lab Contact:	Carrier:	1 of 1 COCs
700 Gambell Street, Suite 200	Analysis Turnaround Time			Sampler:
Anchorage, AK, 99503	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(907) 862-6579 (Cell)	TAT if different from Below			Walk-in Client:
(907) 264-6965 (Office phone)	☑ 2 weeks			Lab Sampling:
Project Name: Kenai Wells, Event 2	☐ 1 week			
Site: Nikiski, AK	☐ 2 days			Job / SDG No.:
P O # 105.00148.16001	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SVOC by SW8270D	EDB and 123TCP by SW8011	VOC by 8260B	Sample Specific Notes: 8260 / 8011
TPW-2-0916	9/12/16	1005	G	GW	8			X	X	X	2x1 Liters / 3 VOA / 3 VOA
TPW-1-0916		1157			21		Y	X	X	X	6x1 Liter / 9 VOA / 6 VOA MS/MSD
TPW-9-0916		1157			8			X	X	X	2x1 Liter / 3 VOA / 3 VOA
~~TP~~ PQ-W1-0916		1510			8			X	X	X	2x1 liter / 3 VOA / 3 VOA
9/12/16 TPW-5-0916		1649			5			X	X		2x1 liter / — / 3 VOA
TB-1-0916		1005	—	—	3				X		3 VOA
TB-2-0916		1005	—	—	3					X	3 VOA

580-62531 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: TPW-1-0916 Extra Volume for MS/MSD

5.5 IR5 0.0
14 Sep 16 Transfer

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: 2.2 3.0		Therm ID No.:
Relinquished by: Kyle Johnson 9/12/16	Company: Fugro Consultants	Date/Time: 9/12/16 2100	Received by:	Company: TA-AK	Date/Time: 9/13/16 11:20
Relinquished by:	Company: TA-AK	Date/Time: 9/13/16 14:40	Received by:	Company: TAD	Date/Time: 1220 14 Sep 16
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.7, dated 11/02/2015

Login Sample Receipt Checklist

Client: SLR International Corp

Job Number: 580-62531-1

Login Number: 62531
List Number: 1
Creator: Bean, Dennis L

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SLR International Corp

Job Number: 580-62531-1

Login Number: 62531
List Number: 2
Creator: Muniz, Ashley T

List Source: TestAmerica Denver
List Creation: 09/17/16 08:30 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-62627-1
Client Project/Site: Kenai Wells, Event 2

For:
SLR International Corp
2700 Gambell Street
Suite 200
Anchorage, Alaska 99503

Attn: Jason Gray

Authorized for release by:
10/11/2016 3:46:32 PM

Robert Greer, Project Manager II
(253)922-2310
robert.greer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Definitions 5
Client Sample Results 6
QC Sample Results 44
Chronicle 55
Certification Summary 58
Sample Summary 60
Chain of Custody 61
Receipt Checklists 66

Job ID: 580-62627-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-62627-1

Receipt
The samples were received on 9/20/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6º C.

Receipt Exceptions
One or more Soium Thiosulfate vials for the following samples were received broken on arrival at the Denver lab.: MW-82A-0916 (580-62627-1), MW-82B-0916 (580-62627-2), MW-27B-0916 (580-62627-3), MW-74A-0916 (580-62627-4), MW-74B-0916 (580-62627-5), MW-50A-0916 (580-62627-6), MW-50B-0916 (580-62627-7), MW-87B-0916 (580-62627-8), MW-87Z-0916 (580-62627-9) and TB-4-0916 (580-62627-10). All of the containers of sample MW-74A-0916 (580-62627-4) were broken. That sample is not logged in for 8011 analysis.

MW-82B-0916: 1 of 3 vials broken, 2 remain in good condition
MW-27B-0916: 1 of 3 vials broken, 2 remain in good condition
MW-74A-0916: 3 of 3 vials broken, none remain for analysis
MW-50A-0916: 2 of 3 vials broken, 1 remain in good condition
MW-87B-0916: 1 of 3 vials broken, 2 remain in good condition
MW-82B-0916: no sample time on containers, logged per COC

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-228277 recovered above the upper control limit for 2-Hexanone, 2-Butanone and 4-Methyl-2-pentanone. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-82A-0916 (580-62627-1), MW-82B-0916 (580-62627-2), MW-27B-0916 (580-62627-3), MW-74A-0916 (580-62627-4), MW-74B-0916 (580-62627-5), MW-50A-0916 (580-62627-6), MW-50B-0916 (580-62627-7), MW-87B-0916 (580-62627-8), MW-87Z-0916 (580-62627-9), TB-4-0916 (580-62627-10) and (CCVIS 580-228277/2).

Method(s) 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 580-228277 recovered outside control limits for the following analytes: trans-1,2-Dichloroethene. This analyte was biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following analyte(s) recovered outside control limits for the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) associated with preparation batch 580-228099 and analytical batch 580-228285: 4-Chloroaniline. The associated samples were non-detects for the affected analyte. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 580-228285 recovered above the upper control limit for Benzo[g,h,i]perylene and Di-n-octyl phthalate. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: MW-82A-0916 (580-62627-1), MW-82B-0916 (580-62627-2), MW-27B-0916 (580-62627-3), MW-74A-0916 (580-62627-4), MW-74B-0916 (580-62627-5), MW-50A-0916 (580-62627-6), MW-50B-0916 (580-62627-7), MW-87B-0916 (580-62627-8), MW-87Z-0916 (580-62627-9) and (CCVIS 580-228285/3).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 580-228285 recovered outside acceptance criteria, low biased, for 3,3'-Dichlorobenzidine. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Job ID: 580-62627-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-82A-0916
Date Collected: 09/16/16 10:37
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/26/16 12:57	1
Chloromethane	ND		5.0		ug/L			09/26/16 12:57	1
Vinyl chloride	ND		1.0		ug/L			09/26/16 12:57	1
Bromomethane	ND		5.0		ug/L			09/26/16 12:57	1
Chloroethane	ND		5.0		ug/L			09/26/16 12:57	1
Trichlorofluoromethane	ND		3.0		ug/L			09/26/16 12:57	1
1,1-Dichloroethene	ND		2.0		ug/L			09/26/16 12:57	1
Carbon disulfide	ND		1.0		ug/L			09/26/16 12:57	1
Acetone	ND		50		ug/L			09/26/16 12:57	1
Methylene Chloride	ND		5.0		ug/L			09/26/16 12:57	1
trans-1,2-Dichloroethene	ND	*	3.0		ug/L			09/26/16 12:57	1
1,1-Dichloroethane	ND		2.0		ug/L			09/26/16 12:57	1
2,2-Dichloropropane	ND		3.0		ug/L			09/26/16 12:57	1
2-Butanone	ND		20		ug/L			09/26/16 12:57	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/26/16 12:57	1
Bromochloromethane	ND		2.0		ug/L			09/26/16 12:57	1
Chloroform	ND		5.0		ug/L			09/26/16 12:57	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/26/16 12:57	1
Carbon tetrachloride	ND		3.0		ug/L			09/26/16 12:57	1
1,1-Dichloropropene	ND		3.0		ug/L			09/26/16 12:57	1
Benzene	ND		2.0		ug/L			09/26/16 12:57	1
1,2-Dichloroethane	ND		1.0		ug/L			09/26/16 12:57	1
Trichloroethene	ND		3.0		ug/L			09/26/16 12:57	1
1,2-Dichloropropane	ND		1.0		ug/L			09/26/16 12:57	1
Dibromomethane	ND		1.0		ug/L			09/26/16 12:57	1
Bromodichloromethane	ND		2.0		ug/L			09/26/16 12:57	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 12:57	1
4-Methyl-2-pentanone	ND		15		ug/L			09/26/16 12:57	1
Toluene	ND		2.0		ug/L			09/26/16 12:57	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 12:57	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/26/16 12:57	1
Tetrachloroethene	ND		3.0		ug/L			09/26/16 12:57	1
1,3-Dichloropropane	ND		1.0		ug/L			09/26/16 12:57	1
2-Hexanone	ND		20		ug/L			09/26/16 12:57	1
Dibromochloromethane	ND		1.0		ug/L			09/26/16 12:57	1
1,2-Dibromoethane	ND		1.0		ug/L			09/26/16 12:57	1
Chlorobenzene	ND		2.0		ug/L			09/26/16 12:57	1
Ethylbenzene	ND		3.0		ug/L			09/26/16 12:57	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/26/16 12:57	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/26/16 12:57	1
o-Xylene	ND		2.0		ug/L			09/26/16 12:57	1
Styrene	ND		5.0		ug/L			09/26/16 12:57	1
Bromoform	ND		1.0		ug/L			09/26/16 12:57	1
Isopropylbenzene	ND		2.0		ug/L			09/26/16 12:57	1
Bromobenzene	ND		2.0		ug/L			09/26/16 12:57	1
N-Propylbenzene	ND		3.0		ug/L			09/26/16 12:57	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/26/16 12:57	1
4-Chlorotoluene	ND		2.0		ug/L			09/26/16 12:57	1
t-Butylbenzene	ND		3.0		ug/L			09/26/16 12:57	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-82A-0916

Date Collected: 09/16/16 10:37
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/26/16 12:57	1
sec-Butylbenzene	ND		3.0		ug/L			09/26/16 12:57	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/26/16 12:57	1
4-Isopropyltoluene	ND		3.0		ug/L			09/26/16 12:57	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/26/16 12:57	1
n-Butylbenzene	ND		3.0		ug/L			09/26/16 12:57	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/26/16 12:57	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/26/16 12:57	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/26/16 12:57	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/26/16 12:57	1
Hexachlorobutadiene	ND		2.0		ug/L			09/26/16 12:57	1
Naphthalene	ND		2.0		ug/L			09/26/16 12:57	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/26/16 12:57	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/26/16 12:57	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/26/16 12:57	1
2-Chlorotoluene	ND		3.0		ug/L			09/26/16 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*82 - 122*		*09/26/16 12:57*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 125*		*09/26/16 12:57*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 118*		*09/26/16 12:57*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 141*		*09/26/16 12:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*65 - 143*		*09/26/16 12:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
1,2-Dichlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
1,3-Dichlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
1,4-Dichlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
1-Methylnaphthalene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 16:27	1
2,4,5-Trichlorophenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
2,4,6-Trichlorophenol	ND		0.57		ug/L		09/22/16 14:28	09/26/16 16:27	1
2,4-Dichlorophenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/22/16 14:28	09/26/16 16:27	1
2,4-Dinitrophenol	ND		4.8		ug/L		09/22/16 14:28	09/26/16 16:27	1
2,4-Dinitrotoluene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
2,6-Dinitrotoluene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
2-Chloronaphthalene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 16:27	1
2-Chlorophenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
2-Methylnaphthalene	ND		0.19		ug/L		09/22/16 14:28	09/26/16 16:27	1
2-Methylphenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
2-Nitroaniline	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
2-Nitrophenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
3 & 4 Methylphenol	ND		0.76		ug/L		09/22/16 14:28	09/26/16 16:27	1
3,3'-Dichlorobenzidine	ND		1.9		ug/L		09/22/16 14:28	09/26/16 16:27	1
3-Nitroaniline	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
4,6-Dinitro-2-methylphenol	ND		3.8		ug/L		09/22/16 14:28	09/26/16 16:27	1
4-Bromophenyl phenyl ether	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
4-Chloro-3-methylphenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-82A-0916

Date Collected: 09/16/16 10:37
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
4-Chlorophenyl phenyl ether	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
4-Nitroaniline	ND		0.57		ug/L		09/22/16 14:28	09/26/16 16:27	1
4-Nitrophenol	ND		2.9		ug/L		09/22/16 14:28	09/26/16 16:27	1
Acenaphthene	ND		0.095		ug/L		09/22/16 14:28	09/26/16 16:27	1
Acenaphthylene	ND		0.076		ug/L		09/22/16 14:28	09/26/16 16:27	1
Anthracene	ND		0.038		ug/L		09/22/16 14:28	09/26/16 16:27	1
Benzo[a]anthracene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 16:27	1
Benzo[a]pyrene	ND		0.038		ug/L		09/22/16 14:28	09/26/16 16:27	1
Benzo[b]fluoranthene	ND		0.076		ug/L		09/22/16 14:28	09/26/16 16:27	1
Benzo[g,h,i]perylene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 16:27	1
Benzo[k]fluoranthene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 16:27	1
Benzoic acid	ND		2.9		ug/L		09/22/16 14:28	09/26/16 16:27	1
Benzyl alcohol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Bis(2-chloroethoxy)methane	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Bis(2-chloroethyl)ether	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Bis(2-ethylhexyl) phthalate	ND		2.9		ug/L		09/22/16 14:28	09/26/16 16:27	1
bis(chloroisopropyl) ether	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Butyl benzyl phthalate	ND		0.57		ug/L		09/22/16 14:28	09/26/16 16:27	1
Carbazole	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Chrysene	ND		0.038		ug/L		09/22/16 14:28	09/26/16 16:27	1
Dibenz(a,h)anthracene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 16:27	1
Dibenzofuran	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Diethyl phthalate	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Dimethyl phthalate	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Di-n-butyl phthalate	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Di-n-octyl phthalate	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Fluoranthene	ND		0.048		ug/L		09/22/16 14:28	09/26/16 16:27	1
Fluorene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 16:27	1
Hexachlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Hexachlorobutadiene	ND		0.57		ug/L		09/22/16 14:28	09/26/16 16:27	1
Hexachlorocyclopentadiene	ND		1.9		ug/L		09/22/16 14:28	09/26/16 16:27	1
Hexachloroethane	ND		0.57		ug/L		09/22/16 14:28	09/26/16 16:27	1
Indeno[1,2,3-cd]pyrene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 16:27	1
Isophorone	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Naphthalene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Nitrobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
N-Nitrosodi-n-propylamine	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
N-Nitrosodiphenylamine	ND		0.38		ug/L		09/22/16 14:28	09/26/16 16:27	1
Pentachlorophenol	ND		0.67		ug/L		09/22/16 14:28	09/26/16 16:27	1
Phenanthrene	ND		0.076		ug/L		09/22/16 14:28	09/26/16 16:27	1
Phenol	ND		0.57		ug/L		09/22/16 14:28	09/26/16 16:27	1
Pyrene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 16:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*57 - 132*	*09/22/16 14:28*	*09/26/16 16:27*	*1*
2-Fluorobiphenyl	*79*		*50 - 120*	*09/22/16 14:28*	*09/26/16 16:27*	*1*
2-Fluorophenol (Surr)	*93*		*50 - 113*	*09/22/16 14:28*	*09/26/16 16:27*	*1*
Nitrobenzene-d5 (Surr)	*98*		*59 - 120*	*09/22/16 14:28*	*09/26/16 16:27*	*1*
Phenol-d5 (Surr)	*91*		*52 - 120*	*09/22/16 14:28*	*09/26/16 16:27*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-82A-0916

Date Collected: 09/16/16 10:37
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*77*		*72 - 140*	*09/22/16 14:28*	*09/26/16 16:27*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 19:12	1
1,2-Dibromoethane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*115*		*70 - 130*	*09/30/16 17:20*	*09/30/16 19:12*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-82B-0916

Date Collected: 09/16/16 13:31
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/26/16 13:26	1
Chloromethane	ND		5.0		ug/L			09/26/16 13:26	1
Vinyl chloride	ND		1.0		ug/L			09/26/16 13:26	1
Bromomethane	ND		5.0		ug/L			09/26/16 13:26	1
Chloroethane	ND		5.0		ug/L			09/26/16 13:26	1
Trichlorofluoromethane	ND		3.0		ug/L			09/26/16 13:26	1
1,1-Dichloroethene	ND		2.0		ug/L			09/26/16 13:26	1
Carbon disulfide	ND		1.0		ug/L			09/26/16 13:26	1
Acetone	ND		50		ug/L			09/26/16 13:26	1
Methylene Chloride	ND		5.0		ug/L			09/26/16 13:26	1
trans-1,2-Dichloroethene	ND	*	3.0		ug/L			09/26/16 13:26	1
1,1-Dichloroethane	ND		2.0		ug/L			09/26/16 13:26	1
2,2-Dichloropropane	ND		3.0		ug/L			09/26/16 13:26	1
2-Butanone	ND		20		ug/L			09/26/16 13:26	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/26/16 13:26	1
Bromochloromethane	ND		2.0		ug/L			09/26/16 13:26	1
Chloroform	ND		5.0		ug/L			09/26/16 13:26	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/26/16 13:26	1
Carbon tetrachloride	ND		3.0		ug/L			09/26/16 13:26	1
1,1-Dichloropropene	ND		3.0		ug/L			09/26/16 13:26	1
Benzene	ND		2.0		ug/L			09/26/16 13:26	1
1,2-Dichloroethane	ND		1.0		ug/L			09/26/16 13:26	1
Trichloroethene	ND		3.0		ug/L			09/26/16 13:26	1
1,2-Dichloropropane	ND		1.0		ug/L			09/26/16 13:26	1
Dibromomethane	ND		1.0		ug/L			09/26/16 13:26	1
Bromodichloromethane	ND		2.0		ug/L			09/26/16 13:26	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 13:26	1
4-Methyl-2-pentanone	ND		15		ug/L			09/26/16 13:26	1
Toluene	ND		2.0		ug/L			09/26/16 13:26	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 13:26	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/26/16 13:26	1
Tetrachloroethene	ND		3.0		ug/L			09/26/16 13:26	1
1,3-Dichloropropane	ND		1.0		ug/L			09/26/16 13:26	1
2-Hexanone	ND		20		ug/L			09/26/16 13:26	1
Dibromochloromethane	ND		1.0		ug/L			09/26/16 13:26	1
1,2-Dibromoethane	ND		1.0		ug/L			09/26/16 13:26	1
Chlorobenzene	ND		2.0		ug/L			09/26/16 13:26	1
Ethylbenzene	ND		3.0		ug/L			09/26/16 13:26	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/26/16 13:26	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/26/16 13:26	1
o-Xylene	ND		2.0		ug/L			09/26/16 13:26	1
Styrene	ND		5.0		ug/L			09/26/16 13:26	1
Bromoform	ND		1.0		ug/L			09/26/16 13:26	1
Isopropylbenzene	ND		2.0		ug/L			09/26/16 13:26	1
Bromobenzene	ND		2.0		ug/L			09/26/16 13:26	1
N-Propylbenzene	ND		3.0		ug/L			09/26/16 13:26	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/26/16 13:26	1
4-Chlorotoluene	ND		2.0		ug/L			09/26/16 13:26	1
t-Butylbenzene	ND		3.0		ug/L			09/26/16 13:26	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-82B-0916

Date Collected: 09/16/16 13:31
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/26/16 13:26	1
sec-Butylbenzene	ND		3.0		ug/L			09/26/16 13:26	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/26/16 13:26	1
4-Isopropyltoluene	ND		3.0		ug/L			09/26/16 13:26	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/26/16 13:26	1
n-Butylbenzene	ND		3.0		ug/L			09/26/16 13:26	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/26/16 13:26	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/26/16 13:26	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/26/16 13:26	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/26/16 13:26	1
Hexachlorobutadiene	ND		2.0		ug/L			09/26/16 13:26	1
Naphthalene	ND		2.0		ug/L			09/26/16 13:26	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/26/16 13:26	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/26/16 13:26	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/26/16 13:26	1
2-Chlorotoluene	ND		3.0		ug/L			09/26/16 13:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*82 - 122*		*09/26/16 13:26*	*1*
4-Bromofluorobenzene (Surr)	*96*		*75 - 125*		*09/26/16 13:26*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 118*		*09/26/16 13:26*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 141*		*09/26/16 13:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 143*		*09/26/16 13:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
1,2-Dichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
1,3-Dichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
1,4-Dichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
1-Methylnaphthalene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 16:52	1
2,4,5-Trichlorophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
2,4,6-Trichlorophenol	ND		0.58		ug/L		09/22/16 14:28	09/26/16 16:52	1
2,4-Dichlorophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/22/16 14:28	09/26/16 16:52	1
2,4-Dinitrophenol	ND		4.8		ug/L		09/22/16 14:28	09/26/16 16:52	1
2,4-Dinitrotoluene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
2,6-Dinitrotoluene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
2-Chloronaphthalene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 16:52	1
2-Chlorophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
2-Methylnaphthalene	ND		0.19		ug/L		09/22/16 14:28	09/26/16 16:52	1
2-Methylphenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
2-Nitroaniline	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
2-Nitrophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
3 & 4 Methylphenol	ND		0.77		ug/L		09/22/16 14:28	09/26/16 16:52	1
3,3'-Dichlorobenzidine	ND		1.9		ug/L		09/22/16 14:28	09/26/16 16:52	1
3-Nitroaniline	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
4,6-Dinitro-2-methylphenol	ND		3.9		ug/L		09/22/16 14:28	09/26/16 16:52	1
4-Bromophenyl phenyl ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
4-Chloro-3-methylphenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-82B-0916

Date Collected: 09/16/16 13:31
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
4-Chlorophenyl phenyl ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
4-Nitroaniline	ND		0.58		ug/L		09/22/16 14:28	09/26/16 16:52	1
4-Nitrophenol	ND		2.9		ug/L		09/22/16 14:28	09/26/16 16:52	1
Acenaphthene	ND		0.097		ug/L		09/22/16 14:28	09/26/16 16:52	1
Acenaphthylene	ND		0.077		ug/L		09/22/16 14:28	09/26/16 16:52	1
Anthracene	ND		0.039		ug/L		09/22/16 14:28	09/26/16 16:52	1
Benzo[a]anthracene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 16:52	1
Benzo[a]pyrene	ND		0.039		ug/L		09/22/16 14:28	09/26/16 16:52	1
Benzo[b]fluoranthene	ND		0.077		ug/L		09/22/16 14:28	09/26/16 16:52	1
Benzo[g,h,i]perylene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 16:52	1
Benzo[k]fluoranthene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 16:52	1
Benzoic acid	ND		2.9		ug/L		09/22/16 14:28	09/26/16 16:52	1
Benzyl alcohol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Bis(2-chloroethoxy)methane	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Bis(2-chloroethyl)ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Bis(2-ethylhexyl) phthalate	ND		2.9		ug/L		09/22/16 14:28	09/26/16 16:52	1
bis(chloroisopropyl) ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Butyl benzyl phthalate	ND		0.58		ug/L		09/22/16 14:28	09/26/16 16:52	1
Carbazole	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Chrysene	ND		0.039		ug/L		09/22/16 14:28	09/26/16 16:52	1
Dibenz(a,h)anthracene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 16:52	1
Dibenzofuran	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Diethyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Dimethyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Di-n-butyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Di-n-octyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Fluoranthene	ND		0.048		ug/L		09/22/16 14:28	09/26/16 16:52	1
Fluorene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 16:52	1
Hexachlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Hexachlorobutadiene	ND		0.58		ug/L		09/22/16 14:28	09/26/16 16:52	1
Hexachlorocyclopentadiene	ND		1.9		ug/L		09/22/16 14:28	09/26/16 16:52	1
Hexachloroethane	ND		0.58		ug/L		09/22/16 14:28	09/26/16 16:52	1
Indeno[1,2,3-cd]pyrene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 16:52	1
Isophorone	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Naphthalene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Nitrobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
N-Nitrosodi-n-propylamine	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
N-Nitrosodiphenylamine	ND		0.39		ug/L		09/22/16 14:28	09/26/16 16:52	1
Pentachlorophenol	ND		0.68		ug/L		09/22/16 14:28	09/26/16 16:52	1
Phenanthrene	ND		0.077		ug/L		09/22/16 14:28	09/26/16 16:52	1
Phenol	ND		0.58		ug/L		09/22/16 14:28	09/26/16 16:52	1
Pyrene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*57 - 132*	*09/22/16 14:28*	*09/26/16 16:52*	*1*
2-Fluorobiphenyl	*77*		*50 - 120*	*09/22/16 14:28*	*09/26/16 16:52*	*1*
2-Fluorophenol (Surr)	*85*		*50 - 113*	*09/22/16 14:28*	*09/26/16 16:52*	*1*
Nitrobenzene-d5 (Surr)	*91*		*59 - 120*	*09/22/16 14:28*	*09/26/16 16:52*	*1*
Phenol-d5 (Surr)	*83*		*52 - 120*	*09/22/16 14:28*	*09/26/16 16:52*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-82B-0916

Lab Sample ID: 580-62627-2
Date Collected: 09/16/16 13:31
Matrix: Water
Date Received: 09/20/16 09:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*81*		*72 - 140*	*09/22/16 14:28*	*09/26/16 16:52*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 19:31	1
1,2-Dibromoethane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*114*		*70 - 130*	*09/30/16 17:20*	*09/30/16 19:31*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-27B-0916

Date Collected: 09/16/16 16:55
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/26/16 13:55	1
Chloromethane	ND		5.0		ug/L			09/26/16 13:55	1
Vinyl chloride	ND		1.0		ug/L			09/26/16 13:55	1
Bromomethane	ND		5.0		ug/L			09/26/16 13:55	1
Chloroethane	ND		5.0		ug/L			09/26/16 13:55	1
Trichlorofluoromethane	ND		3.0		ug/L			09/26/16 13:55	1
1,1-Dichloroethene	ND		2.0		ug/L			09/26/16 13:55	1
Carbon disulfide	ND		1.0		ug/L			09/26/16 13:55	1
Acetone	ND		50		ug/L			09/26/16 13:55	1
Methylene Chloride	ND		5.0		ug/L			09/26/16 13:55	1
trans-1,2-Dichloroethene	ND	*	3.0		ug/L			09/26/16 13:55	1
1,1-Dichloroethane	ND		2.0		ug/L			09/26/16 13:55	1
2,2-Dichloropropane	ND		3.0		ug/L			09/26/16 13:55	1
2-Butanone	ND		20		ug/L			09/26/16 13:55	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/26/16 13:55	1
Bromochloromethane	ND		2.0		ug/L			09/26/16 13:55	1
Chloroform	ND		5.0		ug/L			09/26/16 13:55	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/26/16 13:55	1
Carbon tetrachloride	ND		3.0		ug/L			09/26/16 13:55	1
1,1-Dichloropropene	ND		3.0		ug/L			09/26/16 13:55	1
Benzene	ND		2.0		ug/L			09/26/16 13:55	1
1,2-Dichloroethane	ND		1.0		ug/L			09/26/16 13:55	1
Trichloroethene	ND		3.0		ug/L			09/26/16 13:55	1
1,2-Dichloropropane	ND		1.0		ug/L			09/26/16 13:55	1
Dibromomethane	ND		1.0		ug/L			09/26/16 13:55	1
Bromodichloromethane	ND		2.0		ug/L			09/26/16 13:55	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 13:55	1
4-Methyl-2-pentanone	ND		15		ug/L			09/26/16 13:55	1
Toluene	ND		2.0		ug/L			09/26/16 13:55	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 13:55	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/26/16 13:55	1
Tetrachloroethene	ND		3.0		ug/L			09/26/16 13:55	1
1,3-Dichloropropane	ND		1.0		ug/L			09/26/16 13:55	1
2-Hexanone	ND		20		ug/L			09/26/16 13:55	1
Dibromochloromethane	ND		1.0		ug/L			09/26/16 13:55	1
1,2-Dibromoethane	ND		1.0		ug/L			09/26/16 13:55	1
Chlorobenzene	ND		2.0		ug/L			09/26/16 13:55	1
Ethylbenzene	ND		3.0		ug/L			09/26/16 13:55	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/26/16 13:55	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/26/16 13:55	1
o-Xylene	ND		2.0		ug/L			09/26/16 13:55	1
Styrene	ND		5.0		ug/L			09/26/16 13:55	1
Bromoform	ND		1.0		ug/L			09/26/16 13:55	1
Isopropylbenzene	ND		2.0		ug/L			09/26/16 13:55	1
Bromobenzene	ND		2.0		ug/L			09/26/16 13:55	1
N-Propylbenzene	ND		3.0		ug/L			09/26/16 13:55	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/26/16 13:55	1
4-Chlorotoluene	ND		2.0		ug/L			09/26/16 13:55	1
t-Butylbenzene	ND		3.0		ug/L			09/26/16 13:55	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-27B-0916

Date Collected: 09/16/16 16:55
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/26/16 13:55	1
sec-Butylbenzene	ND		3.0		ug/L			09/26/16 13:55	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/26/16 13:55	1
4-Isopropyltoluene	ND		3.0		ug/L			09/26/16 13:55	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/26/16 13:55	1
n-Butylbenzene	ND		3.0		ug/L			09/26/16 13:55	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/26/16 13:55	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/26/16 13:55	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/26/16 13:55	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/26/16 13:55	1
Hexachlorobutadiene	ND		2.0		ug/L			09/26/16 13:55	1
Naphthalene	ND		2.0		ug/L			09/26/16 13:55	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/26/16 13:55	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/26/16 13:55	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/26/16 13:55	1
2-Chlorotoluene	ND		3.0		ug/L			09/26/16 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*82 - 122*		*09/26/16 13:55*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 125*		*09/26/16 13:55*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 118*		*09/26/16 13:55*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 141*		*09/26/16 13:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*65 - 143*		*09/26/16 13:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
1,2-Dichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
1,3-Dichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
1,4-Dichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
1-Methylnaphthalene	ND		0.059		ug/L		09/22/16 14:28	09/26/16 17:17	1
2,4,5-Trichlorophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
2,4,6-Trichlorophenol	ND		0.59		ug/L		09/22/16 14:28	09/26/16 17:17	1
2,4-Dichlorophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/22/16 14:28	09/26/16 17:17	1
2,4-Dinitrophenol	ND		4.9		ug/L		09/22/16 14:28	09/26/16 17:17	1
2,4-Dinitrotoluene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
2,6-Dinitrotoluene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
2-Chloronaphthalene	ND		0.059		ug/L		09/22/16 14:28	09/26/16 17:17	1
2-Chlorophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
2-Methylnaphthalene	ND		0.20		ug/L		09/22/16 14:28	09/26/16 17:17	1
2-Methylphenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
2-Nitroaniline	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
2-Nitrophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
3 & 4 Methylphenol	ND		0.78		ug/L		09/22/16 14:28	09/26/16 17:17	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/22/16 14:28	09/26/16 17:17	1
3-Nitroaniline	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
4,6-Dinitro-2-methylphenol	ND		3.9		ug/L		09/22/16 14:28	09/26/16 17:17	1
4-Bromophenyl phenyl ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
4-Chloro-3-methylphenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-27B-0916

Date Collected: 09/16/16 16:55
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
4-Chlorophenyl phenyl ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
4-Nitroaniline	ND		0.59		ug/L		09/22/16 14:28	09/26/16 17:17	1
4-Nitrophenol	ND		2.9		ug/L		09/22/16 14:28	09/26/16 17:17	1
Acenaphthene	ND		0.098		ug/L		09/22/16 14:28	09/26/16 17:17	1
Acenaphthylene	ND		0.078		ug/L		09/22/16 14:28	09/26/16 17:17	1
Anthracene	ND		0.039		ug/L		09/22/16 14:28	09/26/16 17:17	1
Benzo[a]anthracene	ND		0.059		ug/L		09/22/16 14:28	09/26/16 17:17	1
Benzo[a]pyrene	ND		0.039		ug/L		09/22/16 14:28	09/26/16 17:17	1
Benzo[b]fluoranthene	ND		0.078		ug/L		09/22/16 14:28	09/26/16 17:17	1
Benzo[g,h,i]perylene	ND		0.059		ug/L		09/22/16 14:28	09/26/16 17:17	1
Benzo[k]fluoranthene	ND		0.059		ug/L		09/22/16 14:28	09/26/16 17:17	1
Benzoic acid	ND		2.9		ug/L		09/22/16 14:28	09/26/16 17:17	1
Benzyl alcohol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Bis(2-chloroethoxy)methane	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Bis(2-chloroethyl)ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Bis(2-ethylhexyl) phthalate	ND		2.9		ug/L		09/22/16 14:28	09/26/16 17:17	1
bis(chloroisopropyl) ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Butyl benzyl phthalate	ND		0.59		ug/L		09/22/16 14:28	09/26/16 17:17	1
Carbazole	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Chrysene	ND		0.039		ug/L		09/22/16 14:28	09/26/16 17:17	1
Dibenz(a,h)anthracene	ND		0.059		ug/L		09/22/16 14:28	09/26/16 17:17	1
Dibenzofuran	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Diethyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Dimethyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Di-n-butyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Di-n-octyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Fluoranthene	ND		0.049		ug/L		09/22/16 14:28	09/26/16 17:17	1
Fluorene	ND		0.059		ug/L		09/22/16 14:28	09/26/16 17:17	1
Hexachlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Hexachlorobutadiene	ND		0.59		ug/L		09/22/16 14:28	09/26/16 17:17	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/22/16 14:28	09/26/16 17:17	1
Hexachloroethane	ND		0.59		ug/L		09/22/16 14:28	09/26/16 17:17	1
Indeno[1,2,3-cd]pyrene	ND		0.059		ug/L		09/22/16 14:28	09/26/16 17:17	1
Isophorone	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Naphthalene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Nitrobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
N-Nitrosodi-n-propylamine	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
N-Nitrosodiphenylamine	ND		0.39		ug/L		09/22/16 14:28	09/26/16 17:17	1
Pentachlorophenol	ND		0.69		ug/L		09/22/16 14:28	09/26/16 17:17	1
Phenanthrene	ND		0.078		ug/L		09/22/16 14:28	09/26/16 17:17	1
Phenol	ND		0.59		ug/L		09/22/16 14:28	09/26/16 17:17	1
Pyrene	ND		0.059		ug/L		09/22/16 14:28	09/26/16 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*57 - 132*	*09/22/16 14:28*	*09/26/16 17:17*	*1*
2-Fluorobiphenyl	*80*		*50 - 120*	*09/22/16 14:28*	*09/26/16 17:17*	*1*
2-Fluorophenol (Surr)	*94*		*50 - 113*	*09/22/16 14:28*	*09/26/16 17:17*	*1*
Nitrobenzene-d5 (Surr)	*93*		*59 - 120*	*09/22/16 14:28*	*09/26/16 17:17*	*1*
Phenol-d5 (Surr)	*90*		*52 - 120*	*09/22/16 14:28*	*09/26/16 17:17*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-27B-0916

Date Collected: 09/16/16 16:55
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*79*		*72 - 140*	*09/22/16 14:28*	*09/26/16 17:17*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 19:50	1
1,2-Dibromoethane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*118*		*70 - 130*	*09/30/16 17:20*	*09/30/16 19:50*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-74A-0916

Date Collected: 09/17/16 10:37
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/26/16 14:24	1
Chloromethane	ND		5.0		ug/L			09/26/16 14:24	1
Vinyl chloride	ND		1.0		ug/L			09/26/16 14:24	1
Bromomethane	ND		5.0		ug/L			09/26/16 14:24	1
Chloroethane	ND		5.0		ug/L			09/26/16 14:24	1
Trichlorofluoromethane	ND		3.0		ug/L			09/26/16 14:24	1
1,1-Dichloroethene	ND		2.0		ug/L			09/26/16 14:24	1
Carbon disulfide	ND		1.0		ug/L			09/26/16 14:24	1
Acetone	ND		50		ug/L			09/26/16 14:24	1
Methylene Chloride	ND		5.0		ug/L			09/26/16 14:24	1
trans-1,2-Dichloroethene	ND	*	3.0		ug/L			09/26/16 14:24	1
1,1-Dichloroethane	ND		2.0		ug/L			09/26/16 14:24	1
2,2-Dichloropropane	ND		3.0		ug/L			09/26/16 14:24	1
2-Butanone	ND		20		ug/L			09/26/16 14:24	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/26/16 14:24	1
Bromochloromethane	ND		2.0		ug/L			09/26/16 14:24	1
Chloroform	ND		5.0		ug/L			09/26/16 14:24	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/26/16 14:24	1
Carbon tetrachloride	ND		3.0		ug/L			09/26/16 14:24	1
1,1-Dichloropropene	ND		3.0		ug/L			09/26/16 14:24	1
Benzene	ND		2.0		ug/L			09/26/16 14:24	1
1,2-Dichloroethane	ND		1.0		ug/L			09/26/16 14:24	1
Trichloroethene	ND		3.0		ug/L			09/26/16 14:24	1
1,2-Dichloropropane	ND		1.0		ug/L			09/26/16 14:24	1
Dibromomethane	ND		1.0		ug/L			09/26/16 14:24	1
Bromodichloromethane	ND		2.0		ug/L			09/26/16 14:24	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 14:24	1
4-Methyl-2-pentanone	ND		15		ug/L			09/26/16 14:24	1
Toluene	ND		2.0		ug/L			09/26/16 14:24	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 14:24	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/26/16 14:24	1
Tetrachloroethene	ND		3.0		ug/L			09/26/16 14:24	1
1,3-Dichloropropane	ND		1.0		ug/L			09/26/16 14:24	1
2-Hexanone	ND		20		ug/L			09/26/16 14:24	1
Dibromochloromethane	ND		1.0		ug/L			09/26/16 14:24	1
1,2-Dibromoethane	ND		1.0		ug/L			09/26/16 14:24	1
Chlorobenzene	ND		2.0		ug/L			09/26/16 14:24	1
Ethylbenzene	ND		3.0		ug/L			09/26/16 14:24	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/26/16 14:24	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/26/16 14:24	1
o-Xylene	ND		2.0		ug/L			09/26/16 14:24	1
Styrene	ND		5.0		ug/L			09/26/16 14:24	1
Bromoform	ND		1.0		ug/L			09/26/16 14:24	1
Isopropylbenzene	ND		2.0		ug/L			09/26/16 14:24	1
Bromobenzene	ND		2.0		ug/L			09/26/16 14:24	1
N-Propylbenzene	ND		3.0		ug/L			09/26/16 14:24	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/26/16 14:24	1
4-Chlorotoluene	ND		2.0		ug/L			09/26/16 14:24	1
t-Butylbenzene	ND		3.0		ug/L			09/26/16 14:24	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-74A-0916

Date Collected: 09/17/16 10:37
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/26/16 14:24	1
sec-Butylbenzene	ND		3.0		ug/L			09/26/16 14:24	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/26/16 14:24	1
4-Isopropyltoluene	ND		3.0		ug/L			09/26/16 14:24	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/26/16 14:24	1
n-Butylbenzene	ND		3.0		ug/L			09/26/16 14:24	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/26/16 14:24	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/26/16 14:24	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/26/16 14:24	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/26/16 14:24	1
Hexachlorobutadiene	ND		2.0		ug/L			09/26/16 14:24	1
Naphthalene	ND		2.0		ug/L			09/26/16 14:24	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/26/16 14:24	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/26/16 14:24	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/26/16 14:24	1
2-Chlorotoluene	ND		3.0		ug/L			09/26/16 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*82 - 122*		*09/26/16 14:24*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 125*		*09/26/16 14:24*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 118*		*09/26/16 14:24*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 141*		*09/26/16 14:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 143*		*09/26/16 14:24*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
1,2-Dichlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
1,3-Dichlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
1,4-Dichlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
1-Methylnaphthalene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 17:42	1
2,4,5-Trichlorophenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
2,4,6-Trichlorophenol	ND		0.57		ug/L		09/22/16 14:28	09/26/16 17:42	1
2,4-Dichlorophenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/22/16 14:28	09/26/16 17:42	1
2,4-Dinitrophenol	ND		4.8		ug/L		09/22/16 14:28	09/26/16 17:42	1
2,4-Dinitrotoluene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
2,6-Dinitrotoluene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
2-Chloronaphthalene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 17:42	1
2-Chlorophenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
2-Methylnaphthalene	ND		0.19		ug/L		09/22/16 14:28	09/26/16 17:42	1
2-Methylphenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
2-Nitroaniline	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
2-Nitrophenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
3 & 4 Methylphenol	ND		0.77		ug/L		09/22/16 14:28	09/26/16 17:42	1
3,3'-Dichlorobenzidine	ND		1.9		ug/L		09/22/16 14:28	09/26/16 17:42	1
3-Nitroaniline	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
4,6-Dinitro-2-methylphenol	ND		3.8		ug/L		09/22/16 14:28	09/26/16 17:42	1
4-Bromophenyl phenyl ether	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
4-Chloro-3-methylphenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-74A-0916

Date Collected: 09/17/16 10:37
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
4-Chlorophenyl phenyl ether	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
4-Nitroaniline	ND		0.57		ug/L		09/22/16 14:28	09/26/16 17:42	1
4-Nitrophenol	ND		2.9		ug/L		09/22/16 14:28	09/26/16 17:42	1
Acenaphthene	ND		0.096		ug/L		09/22/16 14:28	09/26/16 17:42	1
Acenaphthylene	ND		0.077		ug/L		09/22/16 14:28	09/26/16 17:42	1
Anthracene	ND		0.038		ug/L		09/22/16 14:28	09/26/16 17:42	1
Benzo[a]anthracene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 17:42	1
Benzo[a]pyrene	ND		0.038		ug/L		09/22/16 14:28	09/26/16 17:42	1
Benzo[b]fluoranthene	ND		0.077		ug/L		09/22/16 14:28	09/26/16 17:42	1
Benzo[g,h,i]perylene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 17:42	1
Benzo[k]fluoranthene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 17:42	1
Benzoic acid	ND		2.9		ug/L		09/22/16 14:28	09/26/16 17:42	1
Benzyl alcohol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Bis(2-chloroethoxy)methane	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Bis(2-chloroethyl)ether	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Bis(2-ethylhexyl) phthalate	ND		2.9		ug/L		09/22/16 14:28	09/26/16 17:42	1
bis(chloroisopropyl) ether	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Butyl benzyl phthalate	ND		0.57		ug/L		09/22/16 14:28	09/26/16 17:42	1
Carbazole	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Chrysene	ND		0.038		ug/L		09/22/16 14:28	09/26/16 17:42	1
Dibenz(a,h)anthracene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 17:42	1
Dibenzofuran	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Diethyl phthalate	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Dimethyl phthalate	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Di-n-butyl phthalate	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Di-n-octyl phthalate	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Fluoranthene	ND		0.048		ug/L		09/22/16 14:28	09/26/16 17:42	1
Fluorene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 17:42	1
Hexachlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Hexachlorobutadiene	ND		0.57		ug/L		09/22/16 14:28	09/26/16 17:42	1
Hexachlorocyclopentadiene	ND		1.9		ug/L		09/22/16 14:28	09/26/16 17:42	1
Hexachloroethane	ND		0.57		ug/L		09/22/16 14:28	09/26/16 17:42	1
Indeno[1,2,3-cd]pyrene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 17:42	1
Isophorone	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Naphthalene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Nitrobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
N-Nitrosodi-n-propylamine	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
N-Nitrosodiphenylamine	ND		0.38		ug/L		09/22/16 14:28	09/26/16 17:42	1
Pentachlorophenol	ND		0.67		ug/L		09/22/16 14:28	09/26/16 17:42	1
Phenanthrene	ND		0.077		ug/L		09/22/16 14:28	09/26/16 17:42	1
Phenol	ND		0.57		ug/L		09/22/16 14:28	09/26/16 17:42	1
Pyrene	ND		0.057		ug/L		09/22/16 14:28	09/26/16 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*82*		*57 - 132*	*09/22/16 14:28*	*09/26/16 17:42*	*1*
2-Fluorobiphenyl	*89*		*50 - 120*	*09/22/16 14:28*	*09/26/16 17:42*	*1*
2-Fluorophenol (Surr)	*103*		*50 - 113*	*09/22/16 14:28*	*09/26/16 17:42*	*1*
Nitrobenzene-d5 (Surr)	*103*		*59 - 120*	*09/22/16 14:28*	*09/26/16 17:42*	*1*
Phenol-d5 (Surr)	*96*		*52 - 120*	*09/22/16 14:28*	*09/26/16 17:42*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-74A-0916

Date Collected: 09/17/16 10:37
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	88		72 - 140	09/22/16 14:28	09/26/16 17:42	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-74B-0916

Date Collected: 09/17/16 12:41
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/26/16 14:52	1
Chloromethane	ND		5.0		ug/L			09/26/16 14:52	1
Vinyl chloride	ND		1.0		ug/L			09/26/16 14:52	1
Bromomethane	ND		5.0		ug/L			09/26/16 14:52	1
Chloroethane	ND		5.0		ug/L			09/26/16 14:52	1
Trichlorofluoromethane	ND		3.0		ug/L			09/26/16 14:52	1
1,1-Dichloroethene	ND		2.0		ug/L			09/26/16 14:52	1
Carbon disulfide	ND		1.0		ug/L			09/26/16 14:52	1
Acetone	ND		50		ug/L			09/26/16 14:52	1
Methylene Chloride	ND		5.0		ug/L			09/26/16 14:52	1
trans-1,2-Dichloroethene	ND	*	3.0		ug/L			09/26/16 14:52	1
1,1-Dichloroethane	ND		2.0		ug/L			09/26/16 14:52	1
2,2-Dichloropropane	ND		3.0		ug/L			09/26/16 14:52	1
2-Butanone	ND		20		ug/L			09/26/16 14:52	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/26/16 14:52	1
Bromochloromethane	ND		2.0		ug/L			09/26/16 14:52	1
Chloroform	ND		5.0		ug/L			09/26/16 14:52	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/26/16 14:52	1
Carbon tetrachloride	ND		3.0		ug/L			09/26/16 14:52	1
1,1-Dichloropropene	ND		3.0		ug/L			09/26/16 14:52	1
Benzene	ND		2.0		ug/L			09/26/16 14:52	1
1,2-Dichloroethane	ND		1.0		ug/L			09/26/16 14:52	1
Trichloroethene	ND		3.0		ug/L			09/26/16 14:52	1
1,2-Dichloropropane	ND		1.0		ug/L			09/26/16 14:52	1
Dibromomethane	ND		1.0		ug/L			09/26/16 14:52	1
Bromodichloromethane	ND		2.0		ug/L			09/26/16 14:52	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 14:52	1
4-Methyl-2-pentanone	ND		15		ug/L			09/26/16 14:52	1
Toluene	ND		2.0		ug/L			09/26/16 14:52	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 14:52	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/26/16 14:52	1
Tetrachloroethene	ND		3.0		ug/L			09/26/16 14:52	1
1,3-Dichloropropane	ND		1.0		ug/L			09/26/16 14:52	1
2-Hexanone	ND		20		ug/L			09/26/16 14:52	1
Dibromochloromethane	ND		1.0		ug/L			09/26/16 14:52	1
1,2-Dibromoethane	ND		1.0		ug/L			09/26/16 14:52	1
Chlorobenzene	ND		2.0		ug/L			09/26/16 14:52	1
Ethylbenzene	ND		3.0		ug/L			09/26/16 14:52	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/26/16 14:52	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/26/16 14:52	1
o-Xylene	ND		2.0		ug/L			09/26/16 14:52	1
Styrene	ND		5.0		ug/L			09/26/16 14:52	1
Bromoform	ND		1.0		ug/L			09/26/16 14:52	1
Isopropylbenzene	ND		2.0		ug/L			09/26/16 14:52	1
Bromobenzene	ND		2.0		ug/L			09/26/16 14:52	1
N-Propylbenzene	ND		3.0		ug/L			09/26/16 14:52	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/26/16 14:52	1
4-Chlorotoluene	ND		2.0		ug/L			09/26/16 14:52	1
t-Butylbenzene	ND		3.0		ug/L			09/26/16 14:52	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-74B-0916

Date Collected: 09/17/16 12:41
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/26/16 14:52	1
sec-Butylbenzene	ND		3.0		ug/L			09/26/16 14:52	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/26/16 14:52	1
4-Isopropyltoluene	ND		3.0		ug/L			09/26/16 14:52	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/26/16 14:52	1
n-Butylbenzene	ND		3.0		ug/L			09/26/16 14:52	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/26/16 14:52	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/26/16 14:52	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/26/16 14:52	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/26/16 14:52	1
Hexachlorobutadiene	ND		2.0		ug/L			09/26/16 14:52	1
Naphthalene	ND		2.0		ug/L			09/26/16 14:52	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/26/16 14:52	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/26/16 14:52	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/26/16 14:52	1
2-Chlorotoluene	ND		3.0		ug/L			09/26/16 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*82 - 122*		*09/26/16 14:52*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 125*		*09/26/16 14:52*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 118*		*09/26/16 14:52*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 141*		*09/26/16 14:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*65 - 143*		*09/26/16 14:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
1,2-Dichlorobenzene	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
1,3-Dichlorobenzene	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
1,4-Dichlorobenzene	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
1-Methylnaphthalene	ND		0.065		ug/L		09/22/16 14:28	09/26/16 18:06	1
2,4,5-Trichlorophenol	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
2,4,6-Trichlorophenol	ND		0.65		ug/L		09/22/16 14:28	09/26/16 18:06	1
2,4-Dichlorophenol	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
2,4-Dimethylphenol	ND		2.2		ug/L		09/22/16 14:28	09/26/16 18:06	1
2,4-Dinitrophenol	ND		5.4		ug/L		09/22/16 14:28	09/26/16 18:06	1
2,4-Dinitrotoluene	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
2,6-Dinitrotoluene	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
2-Chloronaphthalene	ND		0.065		ug/L		09/22/16 14:28	09/26/16 18:06	1
2-Chlorophenol	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
2-Methylnaphthalene	ND		0.22		ug/L		09/22/16 14:28	09/26/16 18:06	1
2-Methylphenol	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
2-Nitroaniline	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
2-Nitrophenol	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
3 & 4 Methylphenol	ND		0.86		ug/L		09/22/16 14:28	09/26/16 18:06	1
3,3'-Dichlorobenzidine	ND		2.2		ug/L		09/22/16 14:28	09/26/16 18:06	1
3-Nitroaniline	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
4,6-Dinitro-2-methylphenol	ND		4.3		ug/L		09/22/16 14:28	09/26/16 18:06	1
4-Bromophenyl phenyl ether	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
4-Chloro-3-methylphenol	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-74B-0916

Date Collected: 09/17/16 12:41
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
4-Chlorophenyl phenyl ether	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
4-Nitroaniline	ND		0.65		ug/L		09/22/16 14:28	09/26/16 18:06	1
4-Nitrophenol	ND		3.2		ug/L		09/22/16 14:28	09/26/16 18:06	1
Acenaphthene	ND		0.11		ug/L		09/22/16 14:28	09/26/16 18:06	1
Acenaphthylene	ND		0.086		ug/L		09/22/16 14:28	09/26/16 18:06	1
Anthracene	ND		0.043		ug/L		09/22/16 14:28	09/26/16 18:06	1
Benzo[a]anthracene	ND		0.065		ug/L		09/22/16 14:28	09/26/16 18:06	1
Benzo[a]pyrene	ND		0.043		ug/L		09/22/16 14:28	09/26/16 18:06	1
Benzo[b]fluoranthene	ND		0.086		ug/L		09/22/16 14:28	09/26/16 18:06	1
Benzo[g,h,i]perylene	ND		0.065		ug/L		09/22/16 14:28	09/26/16 18:06	1
Benzo[k]fluoranthene	ND		0.065		ug/L		09/22/16 14:28	09/26/16 18:06	1
Benzoic acid	ND		3.2		ug/L		09/22/16 14:28	09/26/16 18:06	1
Benzyl alcohol	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Bis(2-chloroethoxy)methane	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Bis(2-chloroethyl)ether	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Bis(2-ethylhexyl) phthalate	**7.7**		3.2		ug/L		09/22/16 14:28	09/26/16 18:06	1
bis(chloroisopropyl) ether	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Butyl benzyl phthalate	ND		0.65		ug/L		09/22/16 14:28	09/26/16 18:06	1
Carbazole	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Chrysene	ND		0.043		ug/L		09/22/16 14:28	09/26/16 18:06	1
Dibenz(a,h)anthracene	ND		0.065		ug/L		09/22/16 14:28	09/26/16 18:06	1
Dibenzofuran	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Diethyl phthalate	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Dimethyl phthalate	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Di-n-butyl phthalate	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Di-n-octyl phthalate	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Fluoranthene	ND		0.054		ug/L		09/22/16 14:28	09/26/16 18:06	1
Fluorene	ND		0.065		ug/L		09/22/16 14:28	09/26/16 18:06	1
Hexachlorobenzene	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Hexachlorobutadiene	ND		0.65		ug/L		09/22/16 14:28	09/26/16 18:06	1
Hexachlorocyclopentadiene	ND		2.2		ug/L		09/22/16 14:28	09/26/16 18:06	1
Hexachloroethane	ND		0.65		ug/L		09/22/16 14:28	09/26/16 18:06	1
Indeno[1,2,3-cd]pyrene	ND		0.065		ug/L		09/22/16 14:28	09/26/16 18:06	1
Isophorone	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Naphthalene	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Nitrobenzene	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
N-Nitrosodi-n-propylamine	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
N-Nitrosodiphenylamine	ND		0.43		ug/L		09/22/16 14:28	09/26/16 18:06	1
Pentachlorophenol	ND		0.76		ug/L		09/22/16 14:28	09/26/16 18:06	1
Phenanthrene	ND		0.086		ug/L		09/22/16 14:28	09/26/16 18:06	1
Phenol	ND		0.65		ug/L		09/22/16 14:28	09/26/16 18:06	1
Pyrene	ND		0.065		ug/L		09/22/16 14:28	09/26/16 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*57 - 132*	*09/22/16 14:28*	*09/26/16 18:06*	*1*
2-Fluorobiphenyl	*84*		*50 - 120*	*09/22/16 14:28*	*09/26/16 18:06*	*1*
2-Fluorophenol (Surr)	*93*		*50 - 113*	*09/22/16 14:28*	*09/26/16 18:06*	*1*
Nitrobenzene-d5 (Surr)	*96*		*59 - 120*	*09/22/16 14:28*	*09/26/16 18:06*	*1*
Phenol-d5 (Surr)	*89*		*52 - 120*	*09/22/16 14:28*	*09/26/16 18:06*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-74B-0916

Date Collected: 09/17/16 12:41
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*88*		*72 - 140*	*09/22/16 14:28*	*09/26/16 18:06*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 20:09	1
1,2-Dibromoethane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*115*		*70 - 130*	*09/30/16 17:20*	*09/30/16 20:09*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-50A-0916

Date Collected: 09/18/16 12:46
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/26/16 15:20	1
Chloromethane	ND		5.0		ug/L			09/26/16 15:20	1
Vinyl chloride	ND		1.0		ug/L			09/26/16 15:20	1
Bromomethane	ND		5.0		ug/L			09/26/16 15:20	1
Chloroethane	ND		5.0		ug/L			09/26/16 15:20	1
Trichlorofluoromethane	ND		3.0		ug/L			09/26/16 15:20	1
1,1-Dichloroethene	ND		2.0		ug/L			09/26/16 15:20	1
Carbon disulfide	ND		1.0		ug/L			09/26/16 15:20	1
Acetone	ND		50		ug/L			09/26/16 15:20	1
Methylene Chloride	ND		5.0		ug/L			09/26/16 15:20	1
trans-1,2-Dichloroethene	ND	*	3.0		ug/L			09/26/16 15:20	1
1,1-Dichloroethane	ND		2.0		ug/L			09/26/16 15:20	1
2,2-Dichloropropane	ND		3.0		ug/L			09/26/16 15:20	1
2-Butanone	ND		20		ug/L			09/26/16 15:20	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/26/16 15:20	1
Bromochloromethane	ND		2.0		ug/L			09/26/16 15:20	1
Chloroform	ND		5.0		ug/L			09/26/16 15:20	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/26/16 15:20	1
Carbon tetrachloride	ND		3.0		ug/L			09/26/16 15:20	1
1,1-Dichloropropene	ND		3.0		ug/L			09/26/16 15:20	1
Benzene	ND		2.0		ug/L			09/26/16 15:20	1
1,2-Dichloroethane	ND		1.0		ug/L			09/26/16 15:20	1
Trichloroethene	ND		3.0		ug/L			09/26/16 15:20	1
1,2-Dichloropropane	ND		1.0		ug/L			09/26/16 15:20	1
Dibromomethane	ND		1.0		ug/L			09/26/16 15:20	1
Bromodichloromethane	ND		2.0		ug/L			09/26/16 15:20	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 15:20	1
4-Methyl-2-pentanone	ND		15		ug/L			09/26/16 15:20	1
Toluene	ND		2.0		ug/L			09/26/16 15:20	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 15:20	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/26/16 15:20	1
Tetrachloroethene	ND		3.0		ug/L			09/26/16 15:20	1
1,3-Dichloropropane	ND		1.0		ug/L			09/26/16 15:20	1
2-Hexanone	ND		20		ug/L			09/26/16 15:20	1
Dibromochloromethane	ND		1.0		ug/L			09/26/16 15:20	1
1,2-Dibromoethane	ND		1.0		ug/L			09/26/16 15:20	1
Chlorobenzene	ND		2.0		ug/L			09/26/16 15:20	1
Ethylbenzene	ND		3.0		ug/L			09/26/16 15:20	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/26/16 15:20	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/26/16 15:20	1
o-Xylene	ND		2.0		ug/L			09/26/16 15:20	1
Styrene	ND		5.0		ug/L			09/26/16 15:20	1
Bromoform	ND		1.0		ug/L			09/26/16 15:20	1
Isopropylbenzene	ND		2.0		ug/L			09/26/16 15:20	1
Bromobenzene	ND		2.0		ug/L			09/26/16 15:20	1
N-Propylbenzene	ND		3.0		ug/L			09/26/16 15:20	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/26/16 15:20	1
4-Chlorotoluene	ND		2.0		ug/L			09/26/16 15:20	1
t-Butylbenzene	ND		3.0		ug/L			09/26/16 15:20	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-50A-0916

Date Collected: 09/18/16 12:46
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/26/16 15:20	1
sec-Butylbenzene	ND		3.0		ug/L			09/26/16 15:20	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/26/16 15:20	1
4-Isopropyltoluene	ND		3.0		ug/L			09/26/16 15:20	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/26/16 15:20	1
n-Butylbenzene	ND		3.0		ug/L			09/26/16 15:20	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/26/16 15:20	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/26/16 15:20	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/26/16 15:20	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/26/16 15:20	1
Hexachlorobutadiene	ND		2.0		ug/L			09/26/16 15:20	1
Naphthalene	ND		2.0		ug/L			09/26/16 15:20	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/26/16 15:20	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/26/16 15:20	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/26/16 15:20	1
2-Chlorotoluene	ND		3.0		ug/L			09/26/16 15:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*82 - 122*		*09/26/16 15:20*	*1*
4-Bromofluorobenzene (Surr)	*96*		*75 - 125*		*09/26/16 15:20*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 118*		*09/26/16 15:20*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 141*		*09/26/16 15:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*65 - 143*		*09/26/16 15:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
1,2-Dichlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
1,3-Dichlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
1,4-Dichlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
1-Methylnaphthalene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 18:31	1
2,4,5-Trichlorophenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
2,4,6-Trichlorophenol	ND		0.58		ug/L		09/22/16 14:28	09/26/16 18:31	1
2,4-Dichlorophenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/22/16 14:28	09/26/16 18:31	1
2,4-Dinitrophenol	ND		4.8		ug/L		09/22/16 14:28	09/26/16 18:31	1
2,4-Dinitrotoluene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
2,6-Dinitrotoluene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
2-Chloronaphthalene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 18:31	1
2-Chlorophenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
2-Methylnaphthalene	ND		0.19		ug/L		09/22/16 14:28	09/26/16 18:31	1
2-Methylphenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
2-Nitroaniline	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
2-Nitrophenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
3 & 4 Methylphenol	ND		0.77		ug/L		09/22/16 14:28	09/26/16 18:31	1
3,3'-Dichlorobenzidine	ND		1.9		ug/L		09/22/16 14:28	09/26/16 18:31	1
3-Nitroaniline	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
4,6-Dinitro-2-methylphenol	ND		3.8		ug/L		09/22/16 14:28	09/26/16 18:31	1
4-Bromophenyl phenyl ether	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
4-Chloro-3-methylphenol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-50A-0916

Date Collected: 09/18/16 12:46
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
4-Chlorophenyl phenyl ether	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
4-Nitroaniline	ND		0.58		ug/L		09/22/16 14:28	09/26/16 18:31	1
4-Nitrophenol	ND		2.9		ug/L		09/22/16 14:28	09/26/16 18:31	1
Acenaphthene	ND		0.096		ug/L		09/22/16 14:28	09/26/16 18:31	1
Acenaphthylene	ND		0.077		ug/L		09/22/16 14:28	09/26/16 18:31	1
Anthracene	ND		0.038		ug/L		09/22/16 14:28	09/26/16 18:31	1
Benzo[a]anthracene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 18:31	1
Benzo[a]pyrene	ND		0.038		ug/L		09/22/16 14:28	09/26/16 18:31	1
Benzo[b]fluoranthene	ND		0.077		ug/L		09/22/16 14:28	09/26/16 18:31	1
Benzo[g,h,i]perylene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 18:31	1
Benzo[k]fluoranthene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 18:31	1
Benzoic acid	ND		2.9		ug/L		09/22/16 14:28	09/26/16 18:31	1
Benzyl alcohol	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Bis(2-chloroethoxy)methane	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Bis(2-chloroethyl)ether	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Bis(2-ethylhexyl) phthalate	ND		2.9		ug/L		09/22/16 14:28	09/26/16 18:31	1
bis(chloroisopropyl) ether	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Butyl benzyl phthalate	ND		0.58		ug/L		09/22/16 14:28	09/26/16 18:31	1
Carbazole	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Chrysene	ND		0.038		ug/L		09/22/16 14:28	09/26/16 18:31	1
Dibenz(a,h)anthracene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 18:31	1
Dibenzofuran	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Diethyl phthalate	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Dimethyl phthalate	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Di-n-butyl phthalate	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Di-n-octyl phthalate	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Fluoranthene	ND		0.048		ug/L		09/22/16 14:28	09/26/16 18:31	1
Fluorene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 18:31	1
Hexachlorobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Hexachlorobutadiene	ND		0.58		ug/L		09/22/16 14:28	09/26/16 18:31	1
Hexachlorocyclopentadiene	ND		1.9		ug/L		09/22/16 14:28	09/26/16 18:31	1
Hexachloroethane	ND		0.58		ug/L		09/22/16 14:28	09/26/16 18:31	1
Indeno[1,2,3-cd]pyrene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 18:31	1
Isophorone	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Naphthalene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Nitrobenzene	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
N-Nitrosodi-n-propylamine	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
N-Nitrosodiphenylamine	ND		0.38		ug/L		09/22/16 14:28	09/26/16 18:31	1
Pentachlorophenol	ND		0.67		ug/L		09/22/16 14:28	09/26/16 18:31	1
Phenanthrene	ND		0.077		ug/L		09/22/16 14:28	09/26/16 18:31	1
Phenol	ND		0.58		ug/L		09/22/16 14:28	09/26/16 18:31	1
Pyrene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*57 - 132*	*09/22/16 14:28*	*09/26/16 18:31*	*1*
2-Fluorobiphenyl	*84*		*50 - 120*	*09/22/16 14:28*	*09/26/16 18:31*	*1*
2-Fluorophenol (Surr)	*89*		*50 - 113*	*09/22/16 14:28*	*09/26/16 18:31*	*1*
Nitrobenzene-d5 (Surr)	*92*		*59 - 120*	*09/22/16 14:28*	*09/26/16 18:31*	*1*
Phenol-d5 (Surr)	*86*		*52 - 120*	*09/22/16 14:28*	*09/26/16 18:31*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-50A-0916

Lab Sample ID: 580-62627-6

Date Collected: 09/18/16 12:46
Matrix: Water
Date Received: 09/20/16 09:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*82*		*72 - 140*	*09/22/16 14:28*	*09/26/16 18:31*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 20:28	1
1,2-Dibromoethane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 20:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*119*		*70 - 130*	*09/30/16 17:20*	*09/30/16 20:28*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-50B-0916

Date Collected: 09/18/16 09:41
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/26/16 15:48	1
Chloromethane	ND		5.0		ug/L			09/26/16 15:48	1
Vinyl chloride	ND		1.0		ug/L			09/26/16 15:48	1
Bromomethane	ND		5.0		ug/L			09/26/16 15:48	1
Chloroethane	ND		5.0		ug/L			09/26/16 15:48	1
Trichlorofluoromethane	ND		3.0		ug/L			09/26/16 15:48	1
1,1-Dichloroethene	ND		2.0		ug/L			09/26/16 15:48	1
Carbon disulfide	ND		1.0		ug/L			09/26/16 15:48	1
Acetone	ND		50		ug/L			09/26/16 15:48	1
Methylene Chloride	ND		5.0		ug/L			09/26/16 15:48	1
trans-1,2-Dichloroethene	ND	*	3.0		ug/L			09/26/16 15:48	1
1,1-Dichloroethane	ND		2.0		ug/L			09/26/16 15:48	1
2,2-Dichloropropane	ND		3.0		ug/L			09/26/16 15:48	1
2-Butanone	ND		20		ug/L			09/26/16 15:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/26/16 15:48	1
Bromochloromethane	ND		2.0		ug/L			09/26/16 15:48	1
Chloroform	ND		5.0		ug/L			09/26/16 15:48	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/26/16 15:48	1
Carbon tetrachloride	ND		3.0		ug/L			09/26/16 15:48	1
1,1-Dichloropropene	ND		3.0		ug/L			09/26/16 15:48	1
Benzene	ND		2.0		ug/L			09/26/16 15:48	1
1,2-Dichloroethane	ND		1.0		ug/L			09/26/16 15:48	1
Trichloroethene	ND		3.0		ug/L			09/26/16 15:48	1
1,2-Dichloropropane	ND		1.0		ug/L			09/26/16 15:48	1
Dibromomethane	ND		1.0		ug/L			09/26/16 15:48	1
Bromodichloromethane	ND		2.0		ug/L			09/26/16 15:48	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 15:48	1
4-Methyl-2-pentanone	ND		15		ug/L			09/26/16 15:48	1
Toluene	ND		2.0		ug/L			09/26/16 15:48	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 15:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/26/16 15:48	1
Tetrachloroethene	ND		3.0		ug/L			09/26/16 15:48	1
1,3-Dichloropropane	ND		1.0		ug/L			09/26/16 15:48	1
2-Hexanone	ND		20		ug/L			09/26/16 15:48	1
Dibromochloromethane	ND		1.0		ug/L			09/26/16 15:48	1
1,2-Dibromoethane	ND		1.0		ug/L			09/26/16 15:48	1
Chlorobenzene	ND		2.0		ug/L			09/26/16 15:48	1
Ethylbenzene	ND		3.0		ug/L			09/26/16 15:48	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/26/16 15:48	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/26/16 15:48	1
o-Xylene	ND		2.0		ug/L			09/26/16 15:48	1
Styrene	ND		5.0		ug/L			09/26/16 15:48	1
Bromoform	ND		1.0		ug/L			09/26/16 15:48	1
Isopropylbenzene	ND		2.0		ug/L			09/26/16 15:48	1
Bromobenzene	ND		2.0		ug/L			09/26/16 15:48	1
N-Propylbenzene	ND		3.0		ug/L			09/26/16 15:48	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/26/16 15:48	1
4-Chlorotoluene	ND		2.0		ug/L			09/26/16 15:48	1
t-Butylbenzene	ND		3.0		ug/L			09/26/16 15:48	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-50B-0916

Date Collected: 09/18/16 09:41
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/26/16 15:48	1
sec-Butylbenzene	ND		3.0		ug/L			09/26/16 15:48	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/26/16 15:48	1
4-Isopropyltoluene	ND		3.0		ug/L			09/26/16 15:48	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/26/16 15:48	1
n-Butylbenzene	ND		3.0		ug/L			09/26/16 15:48	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/26/16 15:48	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/26/16 15:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/26/16 15:48	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/26/16 15:48	1
Hexachlorobutadiene	ND		2.0		ug/L			09/26/16 15:48	1
Naphthalene	ND		2.0		ug/L			09/26/16 15:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/26/16 15:48	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/26/16 15:48	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/26/16 15:48	1
2-Chlorotoluene	ND		3.0		ug/L			09/26/16 15:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*82 - 122*		*09/26/16 15:48*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 125*		*09/26/16 15:48*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 118*		*09/26/16 15:48*	*1*
Trifluorotoluene (Surr)	*104*		*80 - 141*		*09/26/16 15:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 143*		*09/26/16 15:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
1,2-Dichlorobenzene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
1,3-Dichlorobenzene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
1,4-Dichlorobenzene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
1-Methylnaphthalene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 18:56	1
2,4,5-Trichlorophenol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
2,4,6-Trichlorophenol	ND		0.60		ug/L		09/22/16 14:28	09/26/16 18:56	1
2,4-Dichlorophenol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/22/16 14:28	09/26/16 18:56	1
2,4-Dinitrophenol	ND		5.0		ug/L		09/22/16 14:28	09/26/16 18:56	1
2,4-Dinitrotoluene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
2,6-Dinitrotoluene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
2-Chloronaphthalene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 18:56	1
2-Chlorophenol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
2-Methylnaphthalene	ND		0.20		ug/L		09/22/16 14:28	09/26/16 18:56	1
2-Methylphenol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
2-Nitroaniline	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
2-Nitrophenol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
3 & 4 Methylphenol	ND		0.80		ug/L		09/22/16 14:28	09/26/16 18:56	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/22/16 14:28	09/26/16 18:56	1
3-Nitroaniline	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
4,6-Dinitro-2-methylphenol	ND		4.0		ug/L		09/22/16 14:28	09/26/16 18:56	1
4-Bromophenyl phenyl ether	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
4-Chloro-3-methylphenol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-50B-0916

Date Collected: 09/18/16 09:41
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-7

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
4-Chlorophenyl phenyl ether	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
4-Nitroaniline	ND		0.60		ug/L		09/22/16 14:28	09/26/16 18:56	1
4-Nitrophenol	ND		3.0		ug/L		09/22/16 14:28	09/26/16 18:56	1
Acenaphthene	ND		0.10		ug/L		09/22/16 14:28	09/26/16 18:56	1
Acenaphthylene	ND		0.080		ug/L		09/22/16 14:28	09/26/16 18:56	1
Anthracene	ND		0.040		ug/L		09/22/16 14:28	09/26/16 18:56	1
Benzo[a]anthracene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 18:56	1
Benzo[a]pyrene	ND		0.040		ug/L		09/22/16 14:28	09/26/16 18:56	1
Benzo[b]fluoranthene	ND		0.080		ug/L		09/22/16 14:28	09/26/16 18:56	1
Benzo[g,h,i]perylene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 18:56	1
Benzo[k]fluoranthene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 18:56	1
Benzoic acid	ND		3.0		ug/L		09/22/16 14:28	09/26/16 18:56	1
Benzyl alcohol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Bis(2-chloroethoxy)methane	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Bis(2-chloroethyl)ether	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Bis(2-ethylhexyl) phthalate	ND		3.0		ug/L		09/22/16 14:28	09/26/16 18:56	1
bis(chloroisopropyl) ether	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Butyl benzyl phthalate	ND		0.60		ug/L		09/22/16 14:28	09/26/16 18:56	1
Carbazole	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Chrysene	ND		0.040		ug/L		09/22/16 14:28	09/26/16 18:56	1
Dibenz(a,h)anthracene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 18:56	1
Dibenzofuran	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Diethyl phthalate	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Dimethyl phthalate	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Di-n-butyl phthalate	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Di-n-octyl phthalate	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Fluoranthene	ND		0.050		ug/L		09/22/16 14:28	09/26/16 18:56	1
Fluorene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 18:56	1
Hexachlorobenzene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Hexachlorobutadiene	ND		0.60		ug/L		09/22/16 14:28	09/26/16 18:56	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/22/16 14:28	09/26/16 18:56	1
Hexachloroethane	ND		0.60		ug/L		09/22/16 14:28	09/26/16 18:56	1
Indeno[1,2,3-cd]pyrene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 18:56	1
Isophorone	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Naphthalene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Nitrobenzene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
N-Nitrosodi-n-propylamine	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
N-Nitrosodiphenylamine	ND		0.40		ug/L		09/22/16 14:28	09/26/16 18:56	1
Pentachlorophenol	ND		0.70		ug/L		09/22/16 14:28	09/26/16 18:56	1
Phenanthrene	ND		0.080		ug/L		09/22/16 14:28	09/26/16 18:56	1
Phenol	ND		0.60		ug/L		09/22/16 14:28	09/26/16 18:56	1
Pyrene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*57 - 132*	*09/22/16 14:28*	*09/26/16 18:56*	*1*
2-Fluorobiphenyl	*75*		*50 - 120*	*09/22/16 14:28*	*09/26/16 18:56*	*1*
2-Fluorophenol (Surr)	*84*		*50 - 113*	*09/22/16 14:28*	*09/26/16 18:56*	*1*
Nitrobenzene-d5 (Surr)	*90*		*59 - 120*	*09/22/16 14:28*	*09/26/16 18:56*	*1*
Phenol-d5 (Surr)	*82*		*52 - 120*	*09/22/16 14:28*	*09/26/16 18:56*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-50B-0916

Lab Sample ID: 580-62627-7

Date Collected: 09/18/16 09:41
Matrix: Water
Date Received: 09/20/16 09:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*81*		*72 - 140*	*09/22/16 14:28*	*09/26/16 18:56*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 20:47	1
1,2-Dibromoethane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 20:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*119*		*70 - 130*	*09/30/16 17:20*	*09/30/16 20:47*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-87B-0916

Date Collected: 09/18/16 15:10
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/26/16 16:17	1
Chloromethane	ND		5.0		ug/L			09/26/16 16:17	1
Vinyl chloride	ND		1.0		ug/L			09/26/16 16:17	1
Bromomethane	ND		5.0		ug/L			09/26/16 16:17	1
Chloroethane	ND		5.0		ug/L			09/26/16 16:17	1
Trichlorofluoromethane	ND		3.0		ug/L			09/26/16 16:17	1
1,1-Dichloroethene	ND		2.0		ug/L			09/26/16 16:17	1
Carbon disulfide	ND		1.0		ug/L			09/26/16 16:17	1
Acetone	ND		50		ug/L			09/26/16 16:17	1
Methylene Chloride	ND		5.0		ug/L			09/26/16 16:17	1
trans-1,2-Dichloroethene	ND	*	3.0		ug/L			09/26/16 16:17	1
1,1-Dichloroethane	ND		2.0		ug/L			09/26/16 16:17	1
2,2-Dichloropropane	ND		3.0		ug/L			09/26/16 16:17	1
2-Butanone	ND		20		ug/L			09/26/16 16:17	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/26/16 16:17	1
Bromochloromethane	ND		2.0		ug/L			09/26/16 16:17	1
Chloroform	ND		5.0		ug/L			09/26/16 16:17	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/26/16 16:17	1
Carbon tetrachloride	ND		3.0		ug/L			09/26/16 16:17	1
1,1-Dichloropropene	ND		3.0		ug/L			09/26/16 16:17	1
Benzene	ND		2.0		ug/L			09/26/16 16:17	1
1,2-Dichloroethane	ND		1.0		ug/L			09/26/16 16:17	1
Trichloroethene	ND		3.0		ug/L			09/26/16 16:17	1
1,2-Dichloropropane	ND		1.0		ug/L			09/26/16 16:17	1
Dibromomethane	ND		1.0		ug/L			09/26/16 16:17	1
Bromodichloromethane	ND		2.0		ug/L			09/26/16 16:17	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 16:17	1
4-Methyl-2-pentanone	ND		15		ug/L			09/26/16 16:17	1
Toluene	ND		2.0		ug/L			09/26/16 16:17	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 16:17	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/26/16 16:17	1
Tetrachloroethene	ND		3.0		ug/L			09/26/16 16:17	1
1,3-Dichloropropane	ND		1.0		ug/L			09/26/16 16:17	1
2-Hexanone	ND		20		ug/L			09/26/16 16:17	1
Dibromochloromethane	ND		1.0		ug/L			09/26/16 16:17	1
1,2-Dibromoethane	ND		1.0		ug/L			09/26/16 16:17	1
Chlorobenzene	ND		2.0		ug/L			09/26/16 16:17	1
Ethylbenzene	ND		3.0		ug/L			09/26/16 16:17	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/26/16 16:17	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/26/16 16:17	1
o-Xylene	ND		2.0		ug/L			09/26/16 16:17	1
Styrene	ND		5.0		ug/L			09/26/16 16:17	1
Bromoform	ND		1.0		ug/L			09/26/16 16:17	1
Isopropylbenzene	ND		2.0		ug/L			09/26/16 16:17	1
Bromobenzene	ND		2.0		ug/L			09/26/16 16:17	1
N-Propylbenzene	ND		3.0		ug/L			09/26/16 16:17	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/26/16 16:17	1
4-Chlorotoluene	ND		2.0		ug/L			09/26/16 16:17	1
t-Butylbenzene	ND		3.0		ug/L			09/26/16 16:17	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-87B-0916

Date Collected: 09/18/16 15:10
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/26/16 16:17	1
sec-Butylbenzene	ND		3.0		ug/L			09/26/16 16:17	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/26/16 16:17	1
4-Isopropyltoluene	ND		3.0		ug/L			09/26/16 16:17	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/26/16 16:17	1
n-Butylbenzene	ND		3.0		ug/L			09/26/16 16:17	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/26/16 16:17	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/26/16 16:17	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/26/16 16:17	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/26/16 16:17	1
Hexachlorobutadiene	ND		2.0		ug/L			09/26/16 16:17	1
Naphthalene	ND		2.0		ug/L			09/26/16 16:17	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/26/16 16:17	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/26/16 16:17	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/26/16 16:17	1
2-Chlorotoluene	ND		3.0		ug/L			09/26/16 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*82 - 122*		*09/26/16 16:17*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 125*		*09/26/16 16:17*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 118*		*09/26/16 16:17*	*1*
Trifluorotoluene (Surr)	*102*		*80 - 141*		*09/26/16 16:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*65 - 143*		*09/26/16 16:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
1,2-Dichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
1,3-Dichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
1,4-Dichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
1-Methylnaphthalene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:21	1
2,4,5-Trichlorophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
2,4,6-Trichlorophenol	ND		0.58		ug/L		09/22/16 14:28	09/26/16 19:21	1
2,4-Dichlorophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/22/16 14:28	09/26/16 19:21	1
2,4-Dinitrophenol	ND		4.9		ug/L		09/22/16 14:28	09/26/16 19:21	1
2,4-Dinitrotoluene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
2,6-Dinitrotoluene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
2-Chloronaphthalene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:21	1
2-Chlorophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
2-Methylnaphthalene	ND		0.19		ug/L		09/22/16 14:28	09/26/16 19:21	1
2-Methylphenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
2-Nitroaniline	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
2-Nitrophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
3 & 4 Methylphenol	ND		0.78		ug/L		09/22/16 14:28	09/26/16 19:21	1
3,3'-Dichlorobenzidine	ND		1.9		ug/L		09/22/16 14:28	09/26/16 19:21	1
3-Nitroaniline	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
4,6-Dinitro-2-methylphenol	ND		3.9		ug/L		09/22/16 14:28	09/26/16 19:21	1
4-Bromophenyl phenyl ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
4-Chloro-3-methylphenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-87B-0916

Date Collected: 09/18/16 15:10
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-8

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
4-Chlorophenyl phenyl ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
4-Nitroaniline	ND		0.58		ug/L		09/22/16 14:28	09/26/16 19:21	1
4-Nitrophenol	ND		2.9		ug/L		09/22/16 14:28	09/26/16 19:21	1
Acenaphthene	ND		0.097		ug/L		09/22/16 14:28	09/26/16 19:21	1
Acenaphthylene	ND		0.078		ug/L		09/22/16 14:28	09/26/16 19:21	1
Anthracene	ND		0.039		ug/L		09/22/16 14:28	09/26/16 19:21	1
Benzo[a]anthracene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:21	1
Benzo[a]pyrene	ND		0.039		ug/L		09/22/16 14:28	09/26/16 19:21	1
Benzo[b]fluoranthene	ND		0.078		ug/L		09/22/16 14:28	09/26/16 19:21	1
Benzo[g,h,i]perylene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:21	1
Benzo[k]fluoranthene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:21	1
Benzoic acid	ND		2.9		ug/L		09/22/16 14:28	09/26/16 19:21	1
Benzyl alcohol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Bis(2-chloroethoxy)methane	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Bis(2-chloroethyl)ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Bis(2-ethylhexyl) phthalate	ND		2.9		ug/L		09/22/16 14:28	09/26/16 19:21	1
bis(chloroisopropyl) ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Butyl benzyl phthalate	ND		0.58		ug/L		09/22/16 14:28	09/26/16 19:21	1
Carbazole	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Chrysene	ND		0.039		ug/L		09/22/16 14:28	09/26/16 19:21	1
Dibenz(a,h)anthracene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:21	1
Dibenzofuran	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Diethyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Dimethyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Di-n-butyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Di-n-octyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Fluoranthene	ND		0.049		ug/L		09/22/16 14:28	09/26/16 19:21	1
Fluorene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:21	1
Hexachlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Hexachlorobutadiene	ND		0.58		ug/L		09/22/16 14:28	09/26/16 19:21	1
Hexachlorocyclopentadiene	ND		1.9		ug/L		09/22/16 14:28	09/26/16 19:21	1
Hexachloroethane	ND		0.58		ug/L		09/22/16 14:28	09/26/16 19:21	1
Indeno[1,2,3-cd]pyrene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:21	1
Isophorone	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Naphthalene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Nitrobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
N-Nitrosodi-n-propylamine	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
N-Nitrosodiphenylamine	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:21	1
Pentachlorophenol	ND		0.68		ug/L		09/22/16 14:28	09/26/16 19:21	1
Phenanthrene	ND		0.078		ug/L		09/22/16 14:28	09/26/16 19:21	1
Phenol	ND		0.58		ug/L		09/22/16 14:28	09/26/16 19:21	1
Pyrene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*57 - 132*	*09/22/16 14:28*	*09/26/16 19:21*	*1*
2-Fluorobiphenyl	*79*		*50 - 120*	*09/22/16 14:28*	*09/26/16 19:21*	*1*
2-Fluorophenol (Surr)	*82*		*50 - 113*	*09/22/16 14:28*	*09/26/16 19:21*	*1*
Nitrobenzene-d5 (Surr)	*84*		*59 - 120*	*09/22/16 14:28*	*09/26/16 19:21*	*1*
Phenol-d5 (Surr)	*77*		*52 - 120*	*09/22/16 14:28*	*09/26/16 19:21*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-87B-0916

Date Collected: 09/18/16 15:10
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-8

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*78*		*72 - 140*	*09/22/16 14:28*	*09/26/16 19:21*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 21:06	1
1,2-Dibromoethane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*117*		*70 - 130*	*09/30/16 17:20*	*09/30/16 21:06*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-87Z-0916
Date Collected: 09/18/16 15:10
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/26/16 16:45	1
Chloromethane	ND		5.0		ug/L			09/26/16 16:45	1
Vinyl chloride	ND		1.0		ug/L			09/26/16 16:45	1
Bromomethane	ND		5.0		ug/L			09/26/16 16:45	1
Chloroethane	ND		5.0		ug/L			09/26/16 16:45	1
Trichlorofluoromethane	ND		3.0		ug/L			09/26/16 16:45	1
1,1-Dichloroethene	ND		2.0		ug/L			09/26/16 16:45	1
Carbon disulfide	ND		1.0		ug/L			09/26/16 16:45	1
Acetone	ND		50		ug/L			09/26/16 16:45	1
Methylene Chloride	ND		5.0		ug/L			09/26/16 16:45	1
trans-1,2-Dichloroethene	ND	*	3.0		ug/L			09/26/16 16:45	1
1,1-Dichloroethane	ND		2.0		ug/L			09/26/16 16:45	1
2,2-Dichloropropane	ND		3.0		ug/L			09/26/16 16:45	1
2-Butanone	ND		20		ug/L			09/26/16 16:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/26/16 16:45	1
Bromochloromethane	ND		2.0		ug/L			09/26/16 16:45	1
Chloroform	ND		5.0		ug/L			09/26/16 16:45	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/26/16 16:45	1
Carbon tetrachloride	ND		3.0		ug/L			09/26/16 16:45	1
1,1-Dichloropropene	ND		3.0		ug/L			09/26/16 16:45	1
Benzene	ND		2.0		ug/L			09/26/16 16:45	1
1,2-Dichloroethane	ND		1.0		ug/L			09/26/16 16:45	1
Trichloroethene	ND		3.0		ug/L			09/26/16 16:45	1
1,2-Dichloropropane	ND		1.0		ug/L			09/26/16 16:45	1
Dibromomethane	ND		1.0		ug/L			09/26/16 16:45	1
Bromodichloromethane	ND		2.0		ug/L			09/26/16 16:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 16:45	1
4-Methyl-2-pentanone	ND		15		ug/L			09/26/16 16:45	1
Toluene	ND		2.0		ug/L			09/26/16 16:45	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 16:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/26/16 16:45	1
Tetrachloroethene	ND		3.0		ug/L			09/26/16 16:45	1
1,3-Dichloropropane	ND		1.0		ug/L			09/26/16 16:45	1
2-Hexanone	ND		20		ug/L			09/26/16 16:45	1
Dibromochloromethane	ND		1.0		ug/L			09/26/16 16:45	1
1,2-Dibromoethane	ND		1.0		ug/L			09/26/16 16:45	1
Chlorobenzene	ND		2.0		ug/L			09/26/16 16:45	1
Ethylbenzene	ND		3.0		ug/L			09/26/16 16:45	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/26/16 16:45	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/26/16 16:45	1
o-Xylene	ND		2.0		ug/L			09/26/16 16:45	1
Styrene	ND		5.0		ug/L			09/26/16 16:45	1
Bromoform	ND		1.0		ug/L			09/26/16 16:45	1
Isopropylbenzene	ND		2.0		ug/L			09/26/16 16:45	1
Bromobenzene	ND		2.0		ug/L			09/26/16 16:45	1
N-Propylbenzene	ND		3.0		ug/L			09/26/16 16:45	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/26/16 16:45	1
4-Chlorotoluene	ND		2.0		ug/L			09/26/16 16:45	1
t-Butylbenzene	ND		3.0		ug/L			09/26/16 16:45	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-87Z-0916

Date Collected: 09/18/16 15:10
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-9

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/26/16 16:45	1
sec-Butylbenzene	ND		3.0		ug/L			09/26/16 16:45	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/26/16 16:45	1
4-Isopropyltoluene	ND		3.0		ug/L			09/26/16 16:45	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/26/16 16:45	1
n-Butylbenzene	ND		3.0		ug/L			09/26/16 16:45	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/26/16 16:45	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/26/16 16:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/26/16 16:45	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/26/16 16:45	1
Hexachlorobutadiene	ND		2.0		ug/L			09/26/16 16:45	1
Naphthalene	ND		2.0		ug/L			09/26/16 16:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/26/16 16:45	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/26/16 16:45	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/26/16 16:45	1
2-Chlorotoluene	ND		3.0		ug/L			09/26/16 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*82 - 122*		*09/26/16 16:45*	*1*
4-Bromofluorobenzene (Surr)	*97*		*75 - 125*		*09/26/16 16:45*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 118*		*09/26/16 16:45*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 141*		*09/26/16 16:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*65 - 143*		*09/26/16 16:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
1,2-Dichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
1,3-Dichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
1,4-Dichlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
1-Methylnaphthalene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:46	1
2,4,5-Trichlorophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
2,4,6-Trichlorophenol	ND		0.58		ug/L		09/22/16 14:28	09/26/16 19:46	1
2,4-Dichlorophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/22/16 14:28	09/26/16 19:46	1
2,4-Dinitrophenol	ND		4.9		ug/L		09/22/16 14:28	09/26/16 19:46	1
2,4-Dinitrotoluene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
2,6-Dinitrotoluene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
2-Chloronaphthalene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:46	1
2-Chlorophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
2-Methylnaphthalene	ND		0.19		ug/L		09/22/16 14:28	09/26/16 19:46	1
2-Methylphenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
2-Nitroaniline	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
2-Nitrophenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
3 & 4 Methylphenol	ND		0.78		ug/L		09/22/16 14:28	09/26/16 19:46	1
3,3'-Dichlorobenzidine	ND		1.9		ug/L		09/22/16 14:28	09/26/16 19:46	1
3-Nitroaniline	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
4,6-Dinitro-2-methylphenol	ND		3.9		ug/L		09/22/16 14:28	09/26/16 19:46	1
4-Bromophenyl phenyl ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
4-Chloro-3-methylphenol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-87Z-0916

Date Collected: 09/18/16 15:10
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-9

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
4-Chlorophenyl phenyl ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
4-Nitroaniline	ND		0.58		ug/L		09/22/16 14:28	09/26/16 19:46	1
4-Nitrophenol	ND		2.9		ug/L		09/22/16 14:28	09/26/16 19:46	1
Acenaphthene	ND		0.097		ug/L		09/22/16 14:28	09/26/16 19:46	1
Acenaphthylene	ND		0.078		ug/L		09/22/16 14:28	09/26/16 19:46	1
Anthracene	ND		0.039		ug/L		09/22/16 14:28	09/26/16 19:46	1
Benzo[a]anthracene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:46	1
Benzo[a]pyrene	ND		0.039		ug/L		09/22/16 14:28	09/26/16 19:46	1
Benzo[b]fluoranthene	ND		0.078		ug/L		09/22/16 14:28	09/26/16 19:46	1
Benzo[g,h,i]perylene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:46	1
Benzo[k]fluoranthene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:46	1
Benzoic acid	ND		2.9		ug/L		09/22/16 14:28	09/26/16 19:46	1
Benzyl alcohol	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Bis(2-chloroethoxy)methane	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Bis(2-chloroethyl)ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Bis(2-ethylhexyl) phthalate	ND		2.9		ug/L		09/22/16 14:28	09/26/16 19:46	1
bis(chloroisopropyl) ether	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Butyl benzyl phthalate	ND		0.58		ug/L		09/22/16 14:28	09/26/16 19:46	1
Carbazole	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Chrysene	ND		0.039		ug/L		09/22/16 14:28	09/26/16 19:46	1
Dibenz(a,h)anthracene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:46	1
Dibenzofuran	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Diethyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Dimethyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Di-n-butyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Di-n-octyl phthalate	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Fluoranthene	ND		0.049		ug/L		09/22/16 14:28	09/26/16 19:46	1
Fluorene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:46	1
Hexachlorobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Hexachlorobutadiene	ND		0.58		ug/L		09/22/16 14:28	09/26/16 19:46	1
Hexachlorocyclopentadiene	ND		1.9		ug/L		09/22/16 14:28	09/26/16 19:46	1
Hexachloroethane	ND		0.58		ug/L		09/22/16 14:28	09/26/16 19:46	1
Indeno[1,2,3-cd]pyrene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:46	1
Isophorone	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Naphthalene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Nitrobenzene	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
N-Nitrosodi-n-propylamine	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
N-Nitrosodiphenylamine	ND		0.39		ug/L		09/22/16 14:28	09/26/16 19:46	1
Pentachlorophenol	ND		0.68		ug/L		09/22/16 14:28	09/26/16 19:46	1
Phenanthrene	ND		0.078		ug/L		09/22/16 14:28	09/26/16 19:46	1
Phenol	ND		0.58		ug/L		09/22/16 14:28	09/26/16 19:46	1
Pyrene	ND		0.058		ug/L		09/22/16 14:28	09/26/16 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*57 - 132*	*09/22/16 14:28*	*09/26/16 19:46*	*1*
2-Fluorobiphenyl	*81*		*50 - 120*	*09/22/16 14:28*	*09/26/16 19:46*	*1*
2-Fluorophenol (Surr)	*90*		*50 - 113*	*09/22/16 14:28*	*09/26/16 19:46*	*1*
Nitrobenzene-d5 (Surr)	*90*		*59 - 120*	*09/22/16 14:28*	*09/26/16 19:46*	*1*
Phenol-d5 (Surr)	*87*		*52 - 120*	*09/22/16 14:28*	*09/26/16 19:46*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-87Z-0916

Lab Sample ID: 580-62627-9

Date Collected: 09/18/16 15:10
Matrix: Water
Date Received: 09/20/16 09:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*80*		*72 - 140*	*09/22/16 14:28*	*09/26/16 19:46*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 22:03	1
1,2-Dibromoethane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 22:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*113*		*70 - 130*	*09/30/16 17:20*	*09/30/16 22:03*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: TB-4-0916

Date Collected: 09/16/16 10:37
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-10

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/26/16 12:29	1
Chloromethane	ND		5.0		ug/L			09/26/16 12:29	1
Vinyl chloride	ND		1.0		ug/L			09/26/16 12:29	1
Bromomethane	ND		5.0		ug/L			09/26/16 12:29	1
Chloroethane	ND		5.0		ug/L			09/26/16 12:29	1
Trichlorofluoromethane	ND		3.0		ug/L			09/26/16 12:29	1
1,1-Dichloroethene	ND		2.0		ug/L			09/26/16 12:29	1
Carbon disulfide	ND		1.0		ug/L			09/26/16 12:29	1
Acetone	ND		50		ug/L			09/26/16 12:29	1
Methylene Chloride	ND		5.0		ug/L			09/26/16 12:29	1
trans-1,2-Dichloroethene	ND	*	3.0		ug/L			09/26/16 12:29	1
1,1-Dichloroethane	ND		2.0		ug/L			09/26/16 12:29	1
2,2-Dichloropropane	ND		3.0		ug/L			09/26/16 12:29	1
2-Butanone	ND		20		ug/L			09/26/16 12:29	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/26/16 12:29	1
Bromochloromethane	ND		2.0		ug/L			09/26/16 12:29	1
Chloroform	ND		5.0		ug/L			09/26/16 12:29	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/26/16 12:29	1
Carbon tetrachloride	ND		3.0		ug/L			09/26/16 12:29	1
1,1-Dichloropropene	ND		3.0		ug/L			09/26/16 12:29	1
Benzene	ND		2.0		ug/L			09/26/16 12:29	1
1,2-Dichloroethane	ND		1.0		ug/L			09/26/16 12:29	1
Trichloroethene	ND		3.0		ug/L			09/26/16 12:29	1
1,2-Dichloropropane	ND		1.0		ug/L			09/26/16 12:29	1
Dibromomethane	ND		1.0		ug/L			09/26/16 12:29	1
Bromodichloromethane	ND		2.0		ug/L			09/26/16 12:29	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 12:29	1
4-Methyl-2-pentanone	ND		15		ug/L			09/26/16 12:29	1
Toluene	ND		2.0		ug/L			09/26/16 12:29	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 12:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/26/16 12:29	1
Tetrachloroethene	ND		3.0		ug/L			09/26/16 12:29	1
1,3-Dichloropropane	ND		1.0		ug/L			09/26/16 12:29	1
2-Hexanone	ND		20		ug/L			09/26/16 12:29	1
Dibromochloromethane	ND		1.0		ug/L			09/26/16 12:29	1
1,2-Dibromoethane	ND		1.0		ug/L			09/26/16 12:29	1
Chlorobenzene	ND		2.0		ug/L			09/26/16 12:29	1
Ethylbenzene	ND		3.0		ug/L			09/26/16 12:29	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/26/16 12:29	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/26/16 12:29	1
o-Xylene	ND		2.0		ug/L			09/26/16 12:29	1
Styrene	ND		5.0		ug/L			09/26/16 12:29	1
Bromoform	ND		1.0		ug/L			09/26/16 12:29	1
Isopropylbenzene	ND		2.0		ug/L			09/26/16 12:29	1
Bromobenzene	ND		2.0		ug/L			09/26/16 12:29	1
N-Propylbenzene	ND		3.0		ug/L			09/26/16 12:29	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/26/16 12:29	1
4-Chlorotoluene	ND		2.0		ug/L			09/26/16 12:29	1
t-Butylbenzene	ND		3.0		ug/L			09/26/16 12:29	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: TB-4-0916

Date Collected: 09/16/16 10:37
Date Received: 09/20/16 09:30

Lab Sample ID: 580-62627-10

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/26/16 12:29	1
sec-Butylbenzene	ND		3.0		ug/L			09/26/16 12:29	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/26/16 12:29	1
4-Isopropyltoluene	ND		3.0		ug/L			09/26/16 12:29	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/26/16 12:29	1
n-Butylbenzene	ND		3.0		ug/L			09/26/16 12:29	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/26/16 12:29	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/26/16 12:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/26/16 12:29	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/26/16 12:29	1
Hexachlorobutadiene	ND		2.0		ug/L			09/26/16 12:29	1
Naphthalene	ND		2.0		ug/L			09/26/16 12:29	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/26/16 12:29	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/26/16 12:29	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/26/16 12:29	1
2-Chlorotoluene	ND		3.0		ug/L			09/26/16 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*82 - 122*		*09/26/16 12:29*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 125*		*09/26/16 12:29*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 118*		*09/26/16 12:29*	*1*
Trifluorotoluene (Surr)	*105*		*80 - 141*		*09/26/16 12:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*65 - 143*		*09/26/16 12:29*	*1*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 21:25	1
1,2-Dibromoethane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*123*		*70 - 130*	*09/30/16 17:20*	*09/30/16 21:25*	*1*

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-228277/4
Matrix: Water
Analysis Batch: 228277

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/26/16 10:35	1
Chloromethane	ND		5.0		ug/L			09/26/16 10:35	1
Vinyl chloride	ND		1.0		ug/L			09/26/16 10:35	1
Bromomethane	ND		5.0		ug/L			09/26/16 10:35	1
Chloroethane	ND		5.0		ug/L			09/26/16 10:35	1
Trichlorofluoromethane	ND		3.0		ug/L			09/26/16 10:35	1
1,1-Dichloroethene	ND		2.0		ug/L			09/26/16 10:35	1
Carbon disulfide	ND		1.0		ug/L			09/26/16 10:35	1
Acetone	ND		50		ug/L			09/26/16 10:35	1
Methylene Chloride	ND		5.0		ug/L			09/26/16 10:35	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/26/16 10:35	1
1,1-Dichloroethane	ND		2.0		ug/L			09/26/16 10:35	1
2,2-Dichloropropane	ND		3.0		ug/L			09/26/16 10:35	1
2-Butanone	ND		20		ug/L			09/26/16 10:35	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/26/16 10:35	1
Bromochloromethane	ND		2.0		ug/L			09/26/16 10:35	1
Chloroform	ND		5.0		ug/L			09/26/16 10:35	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/26/16 10:35	1
Carbon tetrachloride	ND		3.0		ug/L			09/26/16 10:35	1
1,1-Dichloropropene	ND		3.0		ug/L			09/26/16 10:35	1
Benzene	ND		2.0		ug/L			09/26/16 10:35	1
1,2-Dichloroethane	ND		1.0		ug/L			09/26/16 10:35	1
Trichloroethene	ND		3.0		ug/L			09/26/16 10:35	1
1,2-Dichloropropane	ND		1.0		ug/L			09/26/16 10:35	1
Dibromomethane	ND		1.0		ug/L			09/26/16 10:35	1
Bromodichloromethane	ND		2.0		ug/L			09/26/16 10:35	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 10:35	1
4-Methyl-2-pentanone	ND		15		ug/L			09/26/16 10:35	1
Toluene	ND		2.0		ug/L			09/26/16 10:35	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/26/16 10:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/26/16 10:35	1
Tetrachloroethene	ND		3.0		ug/L			09/26/16 10:35	1
1,3-Dichloropropane	ND		1.0		ug/L			09/26/16 10:35	1
2-Hexanone	ND		20		ug/L			09/26/16 10:35	1
Dibromochloromethane	ND		1.0		ug/L			09/26/16 10:35	1
1,2-Dibromoethane	ND		1.0		ug/L			09/26/16 10:35	1
Chlorobenzene	ND		2.0		ug/L			09/26/16 10:35	1
Ethylbenzene	ND		3.0		ug/L			09/26/16 10:35	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/26/16 10:35	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/26/16 10:35	1
o-Xylene	ND		2.0		ug/L			09/26/16 10:35	1
Styrene	ND		5.0		ug/L			09/26/16 10:35	1
Bromoform	ND		1.0		ug/L			09/26/16 10:35	1
Isopropylbenzene	ND		2.0		ug/L			09/26/16 10:35	1
Bromobenzene	ND		2.0		ug/L			09/26/16 10:35	1
N-Propylbenzene	ND		3.0		ug/L			09/26/16 10:35	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/26/16 10:35	1
4-Chlorotoluene	ND		2.0		ug/L			09/26/16 10:35	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-228277/4
Matrix: Water
Analysis Batch: 228277

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butylbenzene	ND		3.0		ug/L			09/26/16 10:35	1
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/26/16 10:35	1
sec-Butylbenzene	ND		3.0		ug/L			09/26/16 10:35	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/26/16 10:35	1
4-Isopropyltoluene	ND		3.0		ug/L			09/26/16 10:35	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/26/16 10:35	1
n-Butylbenzene	ND		3.0		ug/L			09/26/16 10:35	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/26/16 10:35	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/26/16 10:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/26/16 10:35	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/26/16 10:35	1
Hexachlorobutadiene	ND		2.0		ug/L			09/26/16 10:35	1
Naphthalene	ND		2.0		ug/L			09/26/16 10:35	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/26/16 10:35	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/26/16 10:35	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/26/16 10:35	1
2-Chlorotoluene	ND		3.0		ug/L			09/26/16 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*82 - 122*		*09/26/16 10:35*	*1*
4-Bromofluorobenzene (Surr)	*95*		*75 - 125*		*09/26/16 10:35*	*1*
Dibromofluoromethane (Surr)	*91*		*77 - 118*		*09/26/16 10:35*	*1*
Trifluorotoluene (Surr)	*103*		*80 - 141*		*09/26/16 10:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*65 - 143*		*09/26/16 10:35*	*1*

Lab Sample ID: LCS 580-228277/5
Matrix: Water
Analysis Batch: 228277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	9.29		ug/L		93	20 - 141
Chloromethane	10.0	11.3		ug/L		113	40 - 149
Vinyl chloride	10.0	9.85		ug/L		98	56 - 114
Bromomethane	10.0	8.73		ug/L		87	55 - 125
Chloroethane	10.0	9.59		ug/L		96	60 - 126
Trichlorofluoromethane	10.0	7.43		ug/L		74	49 - 130
1,1-Dichloroethene	10.1	10.6		ug/L		106	70 - 117
Carbon disulfide	10.0	11.5		ug/L		115	63 - 122
Acetone	50.0	51.9		ug/L		104	20 - 150
Methylene Chloride	10.0	11.1		ug/L		111	70 - 115
trans-1,2-Dichloroethene	10.0	11.2		ug/L		111	72 - 113
1,1-Dichloroethane	10.0	10.8		ug/L		108	70 - 135
2,2-Dichloropropane	10.0	8.69		ug/L		87	50 - 140
2-Butanone	50.0	70.4		ug/L		141	30 - 150
cis-1,2-Dichloroethene	10.0	10.6		ug/L		106	70 - 111
Bromochloromethane	10.0	10.1		ug/L		101	65 - 120
Chloroform	10.0	9.90		ug/L		99	80 - 119
1,1,1-Trichloroethane	10.0	9.02		ug/L		90	65 - 130

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-228277/5
Matrix: Water
Analysis Batch: 228277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	10.0	8.68		ug/L		87	65 - 124
1,1-Dichloropropene	10.0	10.6		ug/L		106	75 - 120
Benzene	10.0	11.7		ug/L		117	80 - 120
1,2-Dichloroethane	10.0	9.07		ug/L		91	58 - 143
Trichloroethene	10.0	10.8		ug/L		108	70 - 125
1,2-Dichloropropane	10.0	11.5		ug/L		115	58 - 150
Dibromomethane	10.0	9.63		ug/L		96	61 - 142
Bromodichloromethane	10.0	9.65		ug/L		96	75 - 120
cis-1,3-Dichloropropene	10.0	11.1		ug/L		111	77 - 117
4-Methyl-2-pentanone	50.0	58.6		ug/L		117	20 - 150
Toluene	10.0	10.6		ug/L		106	75 - 120
trans-1,3-Dichloropropene	10.0	10.5		ug/L		104	73 - 122
1,1,2-Trichloroethane	10.0	10.3		ug/L		102	69 - 135
Tetrachloroethene	10.0	9.87		ug/L		98	70 - 124
1,3-Dichloropropane	10.0	10.2		ug/L		102	69 - 134
2-Hexanone	50.0	57.2		ug/L		114	20 - 150
Dibromochloromethane	10.0	9.02		ug/L		90	71 - 118
1,2-Dibromoethane	10.0	9.87		ug/L		99	66 - 133
Chlorobenzene	10.0	10.6		ug/L		105	80 - 120
Ethylbenzene	10.0	10.9		ug/L		109	75 - 119
1,1,1,2-Tetrachloroethane	10.0	9.47		ug/L		94	64 - 130
m-Xylene & p-Xylene	10.0	10.1		ug/L		101	75 - 119
o-Xylene	10.0	10.3		ug/L		102	74 - 120
Styrene	10.0	10.4		ug/L		104	76 - 116
Bromoform	10.0	8.55		ug/L		85	55 - 130
Isopropylbenzene	10.0	10.3		ug/L		103	75 - 125
Bromobenzene	10.0	10.0		ug/L		100	75 - 115
N-Propylbenzene	10.0	11.2		ug/L		112	70 - 124
1,1,2,2-Tetrachloroethane	10.0	11.6		ug/L		116	65 - 130
4-Chlorotoluene	10.0	10.3		ug/L		103	68 - 121
t-Butylbenzene	10.0	10.1		ug/L		101	70 - 121
1,2,4-Trimethylbenzene	10.0	10.3		ug/L		103	75 - 121
sec-Butylbenzene	10.0	10.3		ug/L		103	70 - 125
1,3-Dichlorobenzene	10.0	10.0		ug/L		100	72 - 116
4-Isopropyltoluene	10.0	10.0		ug/L		100	66 - 120
1,4-Dichlorobenzene	10.0	9.65		ug/L		96	75 - 117
n-Butylbenzene	10.0	9.57		ug/L		96	70 - 120
1,2-Dichlorobenzene	10.0	9.84		ug/L		98	70 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.2		ug/L		102	58 - 141
1,2,4-Trichlorobenzene	10.0	9.23		ug/L		92	56 - 129
1,2,3-Trichlorobenzene	10.0	8.81		ug/L		88	55 - 133
Hexachlorobutadiene	10.0	8.28		ug/L		83	56 - 125
Naphthalene	10.0	10.4		ug/L		103	55 - 134
Methyl tert-butyl ether	10.0	11.2		ug/L		112	65 - 125
1,2,3-Trichloropropane	10.0	10.3		ug/L		103	65 - 135
1,3,5-Trimethylbenzene	10.0	10.2		ug/L		102	75 - 122
2-Chlorotoluene	10.0	10.5		ug/L		105	69 - 125

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62627-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-228277/5
Matrix: Water
Analysis Batch: 228277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*82 - 122*
4-Bromofluorobenzene (Surr)	*96*		*75 - 125*
Dibromofluoromethane (Surr)	*90*		*77 - 118*
Trifluorotoluene (Surr)	*103*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*84*		*65 - 143*

Lab Sample ID: LCSD 580-228277/6
Matrix: Water
Analysis Batch: 228277

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	10.0	9.98		ug/L		100	20 - 141	7	35
Chloromethane	10.0	11.5		ug/L		115	40 - 149	2	22
Vinyl chloride	10.0	9.96		ug/L		100	56 - 114	1	23
Bromomethane	10.0	9.42		ug/L		94	55 - 125	8	30
Chloroethane	10.0	10.1		ug/L		101	60 - 126	5	30
Trichlorofluoromethane	10.0	7.63		ug/L		76	49 - 130	3	35
1,1-Dichloroethene	10.1	11.6		ug/L		115	70 - 117	8	21
Carbon disulfide	10.0	12.0		ug/L		120	63 - 122	4	20
Acetone	50.0	55.0		ug/L		110	20 - 150	6	35
Methylene Chloride	10.0	11.4		ug/L		113	70 - 115	2	19
trans-1,2-Dichloroethene	10.0	11.6	*	ug/L		116	72 - 113	4	21
1,1-Dichloroethane	10.0	10.7		ug/L		107	70 - 135	1	20
2,2-Dichloropropane	10.0	9.45		ug/L		94	50 - 140	8	20
2-Butanone	50.0	71.4		ug/L		143	30 - 150	1	35
cis-1,2-Dichloroethene	10.0	10.9		ug/L		109	70 - 111	3	15
Bromochloromethane	10.0	10.2		ug/L		102	65 - 120	1	17
Chloroform	10.0	10.2		ug/L		102	80 - 119	3	15
1,1,1-Trichloroethane	10.0	9.03		ug/L		90	65 - 130	0	18
Carbon tetrachloride	10.0	8.96		ug/L		89	65 - 124	3	19
1,1-Dichloropropene	10.0	10.8		ug/L		108	75 - 120	2	20
Benzene	10.0	11.8		ug/L		117	80 - 120	1	14
1,2-Dichloroethane	10.0	9.27		ug/L		93	58 - 143	2	17
Trichloroethene	10.0	10.8		ug/L		108	70 - 125	0	23
1,2-Dichloropropane	10.0	12.2		ug/L		122	58 - 150	5	15
Dibromomethane	10.0	10.1		ug/L		101	61 - 142	5	15
Bromodichloromethane	10.0	10.2		ug/L		102	75 - 120	6	14
cis-1,3-Dichloropropene	10.0	11.0		ug/L		110	77 - 117	1	24
4-Methyl-2-pentanone	50.0	59.1		ug/L		118	20 - 150	1	30
Toluene	10.0	10.5		ug/L		105	75 - 120	1	19
trans-1,3-Dichloropropene	10.0	10.7		ug/L		107	73 - 122	2	30
1,1,2-Trichloroethane	10.0	10.3		ug/L		103	69 - 135	0	24
Tetrachloroethene	10.0	9.88		ug/L		98	70 - 124	0	20
1,3-Dichloropropane	10.0	10.3		ug/L		102	69 - 134	1	23
2-Hexanone	50.0	63.1		ug/L		126	20 - 150	10	30
Dibromochloromethane	10.0	8.95		ug/L		89	71 - 118	1	21
1,2-Dibromoethane	10.0	10.1		ug/L		101	66 - 133	2	17
Chlorobenzene	10.0	10.3		ug/L		102	80 - 120	3	15

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-228277/6
Matrix: Water
Analysis Batch: 228277

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	10.0	10.7		ug/L		106	75 - 119	2	14
1,1,1,2-Tetrachloroethane	10.0	9.60		ug/L		96	64 - 130	1	20
m-Xylene & p-Xylene	10.0	10.2		ug/L		102	75 - 119	1	14
o-Xylene	10.0	10.2		ug/L		102	74 - 120	0	16
Styrene	10.0	10.5		ug/L		104	76 - 116	0	16
Bromoform	10.0	8.83		ug/L		88	55 - 130	3	20
Isopropylbenzene	10.0	10.4		ug/L		104	75 - 125	1	20
Bromobenzene	10.0	10.0		ug/L		100	75 - 115	0	13
N-Propylbenzene	10.0	11.2		ug/L		112	70 - 124	0	13
1,1,2,2-Tetrachloroethane	10.0	11.6		ug/L		116	65 - 130	0	18
4-Chlorotoluene	10.0	10.4		ug/L		104	68 - 121	1	15
t-Butylbenzene	10.0	10.3		ug/L		103	70 - 121	2	14
1,2,4-Trimethylbenzene	10.0	10.5		ug/L		105	75 - 121	2	16
sec-Butylbenzene	10.0	10.5		ug/L		105	70 - 125	2	15
1,3-Dichlorobenzene	10.0	9.94		ug/L		99	72 - 116	1	14
4-Isopropyltoluene	10.0	10.2		ug/L		102	66 - 120	2	13
1,4-Dichlorobenzene	10.0	10.0		ug/L		100	75 - 117	4	17
n-Butylbenzene	10.0	9.93		ug/L		99	70 - 120	4	20
1,2-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 120	5	15
1,2-Dibromo-3-Chloropropane	10.0	10.6		ug/L		106	58 - 141	4	30
1,2,4-Trichlorobenzene	10.0	10.1		ug/L		101	56 - 129	9	22
1,2,3-Trichlorobenzene	10.0	9.45		ug/L		94	55 - 133	7	35
Hexachlorobutadiene	10.0	9.21		ug/L		92	56 - 125	11	19
Naphthalene	10.0	11.1		ug/L		111	55 - 134	7	30
Methyl tert-butyl ether	10.0	11.2		ug/L		112	65 - 125	0	18
1,2,3-Trichloropropane	10.0	10.4		ug/L		104	65 - 135	1	22
1,3,5-Trimethylbenzene	10.0	10.3		ug/L		103	75 - 122	1	14
2-Chlorotoluene	10.0	10.2		ug/L		102	69 - 125	3	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*82 - 122*
4-Bromofluorobenzene (Surr)	*95*		*75 - 125*
Dibromofluoromethane (Surr)	*91*		*77 - 118*
Trifluorotoluene (Surr)	*104*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*86*		*65 - 143*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-228099/1-A
Matrix: Water
Analysis Batch: 228285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 228099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
1,2-Dichlorobenzene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
1,3-Dichlorobenzene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
1,4-Dichlorobenzene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
1-Methylnaphthalene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 13:33	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62627-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-228099/1-A
Matrix: Water
Analysis Batch: 228285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 228099

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
2,4,6-Trichlorophenol	ND		0.60		ug/L		09/22/16 14:28	09/26/16 13:33	1
2,4-Dichlorophenol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/22/16 14:28	09/26/16 13:33	1
2,4-Dinitrophenol	ND		5.0		ug/L		09/22/16 14:28	09/26/16 13:33	1
2,4-Dinitrotoluene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
2,6-Dinitrotoluene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
2-Chloronaphthalene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 13:33	1
2-Chlorophenol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
2-Methylnaphthalene	ND		0.20		ug/L		09/22/16 14:28	09/26/16 13:33	1
2-Methylphenol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
2-Nitroaniline	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
2-Nitrophenol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
3 & 4 Methylphenol	ND		0.80		ug/L		09/22/16 14:28	09/26/16 13:33	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/22/16 14:28	09/26/16 13:33	1
3-Nitroaniline	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
4,6-Dinitro-2-methylphenol	ND		4.0		ug/L		09/22/16 14:28	09/26/16 13:33	1
4-Bromophenyl phenyl ether	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
4-Chloro-3-methylphenol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
4-Chloroaniline	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
4-Chlorophenyl phenyl ether	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
4-Nitroaniline	ND		0.60		ug/L		09/22/16 14:28	09/26/16 13:33	1
4-Nitrophenol	ND		3.0		ug/L		09/22/16 14:28	09/26/16 13:33	1
Acenaphthene	ND		0.10		ug/L		09/22/16 14:28	09/26/16 13:33	1
Acenaphthylene	ND		0.080		ug/L		09/22/16 14:28	09/26/16 13:33	1
Anthracene	ND		0.040		ug/L		09/22/16 14:28	09/26/16 13:33	1
Benzo[a]anthracene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 13:33	1
Benzo[a]pyrene	ND		0.040		ug/L		09/22/16 14:28	09/26/16 13:33	1
Benzo[b]fluoranthene	ND		0.080		ug/L		09/22/16 14:28	09/26/16 13:33	1
Benzo[g,h,i]perylene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 13:33	1
Benzo[k]fluoranthene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 13:33	1
Benzoic acid	ND		3.0		ug/L		09/22/16 14:28	09/26/16 13:33	1
Benzyl alcohol	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Bis(2-chloroethoxy)methane	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Bis(2-chloroethyl)ether	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Bis(2-ethylhexyl) phthalate	ND		3.0		ug/L		09/22/16 14:28	09/26/16 13:33	1
bis(chloroisopropyl) ether	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Butyl benzyl phthalate	ND		0.60		ug/L		09/22/16 14:28	09/26/16 13:33	1
Carbazole	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Chrysene	ND		0.040		ug/L		09/22/16 14:28	09/26/16 13:33	1
Dibenz(a,h)anthracene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 13:33	1
Dibenzofuran	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Diethyl phthalate	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Dimethyl phthalate	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Di-n-butyl phthalate	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Di-n-octyl phthalate	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Fluoranthene	ND		0.050		ug/L		09/22/16 14:28	09/26/16 13:33	1
Fluorene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 13:33	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-228099/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228285 — **Prep Batch: 228099**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Hexachlorobutadiene	ND		0.60		ug/L		09/22/16 14:28	09/26/16 13:33	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/22/16 14:28	09/26/16 13:33	1
Hexachloroethane	ND		0.60		ug/L		09/22/16 14:28	09/26/16 13:33	1
Indeno[1,2,3-cd]pyrene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 13:33	1
Isophorone	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Naphthalene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Nitrobenzene	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
N-Nitrosodi-n-propylamine	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
N-Nitrosodiphenylamine	ND		0.40		ug/L		09/22/16 14:28	09/26/16 13:33	1
Pentachlorophenol	ND		0.70		ug/L		09/22/16 14:28	09/26/16 13:33	1
Phenanthrene	ND		0.080		ug/L		09/22/16 14:28	09/26/16 13:33	1
Phenol	ND		0.60		ug/L		09/22/16 14:28	09/26/16 13:33	1
Pyrene	ND		0.060		ug/L		09/22/16 14:28	09/26/16 13:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*57 - 132*	*09/22/16 14:28*	*09/26/16 13:33*	*1*
2-Fluorobiphenyl	*82*		*50 - 120*	*09/22/16 14:28*	*09/26/16 13:33*	*1*
2-Fluorophenol (Surr)	*95*		*50 - 113*	*09/22/16 14:28*	*09/26/16 13:33*	*1*
Nitrobenzene-d5 (Surr)	*87*		*59 - 120*	*09/22/16 14:28*	*09/26/16 13:33*	*1*
Phenol-d5 (Surr)	*91*		*52 - 120*	*09/22/16 14:28*	*09/26/16 13:33*	*1*
Terphenyl-d14 (Surr)	*75*		*72 - 140*	*09/22/16 14:28*	*09/26/16 13:33*	*1*

Lab Sample ID: LCS 580-228099/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228285 — **Prep Batch: 228099**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	2.00	1.65		ug/L		82	40 - 115
1,2-Dichlorobenzene	2.00	1.77		ug/L		88	44 - 119
1,3-Dichlorobenzene	2.00	1.58		ug/L		79	34 - 116
1,4-Dichlorobenzene	2.00	1.59		ug/L		79	40 - 118
1-Methylnaphthalene	2.00	1.69		ug/L		85	54 - 119
2,4,5-Trichlorophenol	2.00	1.69		ug/L		85	56 - 122
2,4,6-Trichlorophenol	2.00	1.52		ug/L		76	55 - 134
2,4-Dichlorophenol	2.00	1.77		ug/L		88	50 - 125
2,4-Dimethylphenol	2.00	1.41	J	ug/L		71	20 - 106
2,4-Dinitrophenol	4.00	1.74	J	ug/L		44	24 - 139
2,4-Dinitrotoluene	2.00	1.72		ug/L		86	40 - 143
2,6-Dinitrotoluene	2.00	1.72		ug/L		86	45 - 134
2-Chloronaphthalene	2.00	1.67		ug/L		83	55 - 125
2-Chlorophenol	2.00	1.96		ug/L		98	57 - 125
2-Methylnaphthalene	2.00	1.69		ug/L		85	56 - 117
2-Methylphenol	2.00	1.86		ug/L		93	53 - 118
2-Nitroaniline	2.00	1.96		ug/L		98	58 - 124
2-Nitrophenol	2.00	1.42		ug/L		71	20 - 150
3 & 4 Methylphenol	2.00	1.90		ug/L		95	54 - 112
3,3'-Dichlorobenzidine	4.00	0.883	J	ug/L		22	20 - 121

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62627-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-228099/2-A
Matrix: Water
Analysis Batch: 228285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228099

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	2.00	0.734		ug/L		37	22 - 124
4,6-Dinitro-2-methylphenol	4.00	1.94	J	ug/L		49	20 - 150
4-Bromophenyl phenyl ether	2.00	1.68		ug/L		84	62 - 132
4-Chloro-3-methylphenol	2.00	1.90		ug/L		95	56 - 133
4-Chloroaniline	2.00	ND	*	ug/L		1	20 - 110
4-Chlorophenyl phenyl ether	2.00	1.66		ug/L		83	59 - 125
4-Nitroaniline	2.00	1.48		ug/L		74	40 - 118
4-Nitrophenol	4.00	3.76		ug/L		94	20 - 150
Acenaphthene	2.00	1.78		ug/L		89	55 - 113
Acenaphthylene	2.00	1.50		ug/L		75	24 - 135
Anthracene	2.00	1.46		ug/L		73	20 - 125
Benzo[a]anthracene	2.00	1.63		ug/L		82	49 - 115
Benzo[a]pyrene	2.00	1.58		ug/L		79	20 - 115
Benzo[b]fluoranthene	2.00	1.89		ug/L		94	63 - 129
Benzo[g,h,i]perylene	2.00	2.26		ug/L		113	58 - 127
Benzo[k]fluoranthene	2.00	2.03		ug/L		101	60 - 134
Benzoic acid	4.00	3.41		ug/L		85	20 - 150
Benzyl alcohol	2.00	1.82		ug/L		91	52 - 124
Bis(2-chloroethoxy)methane	2.00	2.06		ug/L		103	59 - 125
Bis(2-chloroethyl)ether	2.00	1.99		ug/L		99	55 - 125
Bis(2-ethylhexyl) phthalate	2.00	2.27	J	ug/L		114	22 - 150
bis(chloroisopropyl) ether	2.00	1.58		ug/L		79	44 - 123
Butyl benzyl phthalate	2.00	2.27		ug/L		114	46 - 150
Carbazole	2.00	1.72		ug/L		86	68 - 142
Chrysene	2.00	1.73		ug/L		86	57 - 131
Dibenz(a,h)anthracene	2.00	2.25		ug/L		113	56 - 124
Dibenzofuran	2.00	1.71		ug/L		85	60 - 125
Diethyl phthalate	2.00	1.91		ug/L		95	60 - 134
Dimethyl phthalate	2.00	1.76		ug/L		88	65 - 134
Di-n-butyl phthalate	2.00	2.03		ug/L		102	67 - 140
Di-n-octyl phthalate	2.00	2.37		ug/L		119	55 - 150
Fluoranthene	2.00	1.73		ug/L		87	70 - 135
Fluorene	2.00	1.73		ug/L		86	57 - 125
Hexachlorobenzene	2.00	1.63		ug/L		82	55 - 135
Hexachlorobutadiene	2.00	1.48		ug/L		74	25 - 125
Hexachlorocyclopentadiene	2.00	0.565	J	ug/L		28	20 - 110
Hexachloroethane	2.00	1.70		ug/L		85	24 - 125
Indeno[1,2,3-cd]pyrene	2.00	2.16		ug/L		108	54 - 124
Isophorone	2.00	2.02		ug/L		101	64 - 125
Naphthalene	2.00	1.76		ug/L		88	56 - 119
Nitrobenzene	2.00	1.94		ug/L		97	62 - 125
N-Nitrosodi-n-propylamine	2.00	1.73		ug/L		87	54 - 120
N-Nitrosodiphenylamine	2.00	1.35		ug/L		68	40 - 124
Pentachlorophenol	4.00	2.48		ug/L		62	30 - 122
Phenanthrene	2.00	1.84		ug/L		92	57 - 125
Phenol	2.00	1.76		ug/L		88	53 - 113
Pyrene	2.00	1.71		ug/L		86	64 - 128

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62627-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-228099/2-A
Matrix: Water
Analysis Batch: 228285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228099

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*75*		*57 - 132*
2-Fluorobiphenyl	*71*		*50 - 120*
2-Fluorophenol (Surr)	*94*		*50 - 113*
Nitrobenzene-d5 (Surr)	*88*		*59 - 120*
Phenol-d5 (Surr)	*88*		*52 - 120*
Terphenyl-d14 (Surr)	*79*		*72 - 140*

Lab Sample ID: LCSD 580-228099/3-A
Matrix: Water
Analysis Batch: 228285

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 228099

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	2.00	1.82		ug/L		91	40 - 115	10	20
1,2-Dichlorobenzene	2.00	2.04		ug/L		102	44 - 119	14	20
1,3-Dichlorobenzene	2.00	1.85		ug/L		92	34 - 116	15	29
1,4-Dichlorobenzene	2.00	1.82		ug/L		91	40 - 118	14	20
1-Methylnaphthalene	2.00	1.75		ug/L		87	54 - 119	3	20
2,4,5-Trichlorophenol	2.00	1.80		ug/L		90	56 - 122	6	20
2,4,6-Trichlorophenol	2.00	1.64		ug/L		82	55 - 134	7	20
2,4-Dichlorophenol	2.00	1.83		ug/L		92	50 - 125	3	26
2,4-Dimethylphenol	2.00	1.42	J	ug/L		71	20 - 106	0	35
2,4-Dinitrophenol	4.00	2.22	J	ug/L		55	24 - 139	24	35
2,4-Dinitrotoluene	2.00	1.80		ug/L		90	40 - 143	4	29
2,6-Dinitrotoluene	2.00	1.86		ug/L		93	45 - 134	8	31
2-Chloronaphthalene	2.00	1.77		ug/L		88	55 - 125	6	20
2-Chlorophenol	2.00	2.03		ug/L		102	57 - 125	4	20
2-Methylnaphthalene	2.00	1.79		ug/L		90	56 - 117	6	20
2-Methylphenol	2.00	1.92		ug/L		96	53 - 118	3	33
2-Nitroaniline	2.00	1.91		ug/L		96	58 - 124	2	20
2-Nitrophenol	2.00	1.59		ug/L		80	20 - 150	12	35
3 & 4 Methylphenol	2.00	1.98		ug/L		99	54 - 112	4	20
3,3'-Dichlorobenzidine	4.00	0.946	J	ug/L		24	20 - 121	7	35
3-Nitroaniline	2.00	0.635		ug/L		32	22 - 124	14	35
4,6-Dinitro-2-methylphenol	4.00	2.63	J	ug/L		66	20 - 150	30	30
4-Bromophenyl phenyl ether	2.00	1.69		ug/L		84	62 - 132	0	20
4-Chloro-3-methylphenol	2.00	1.91		ug/L		95	56 - 133	0	20
4-Chloroaniline	2.00	ND	*	ug/L		1	20 - 110	15	35
4-Chlorophenyl phenyl ether	2.00	1.73		ug/L		87	59 - 125	4	20
4-Nitroaniline	2.00	1.46		ug/L		73	40 - 118	2	20
4-Nitrophenol	4.00	3.94		ug/L		99	20 - 150	5	29
Acenaphthene	2.00	1.89		ug/L		94	55 - 113	6	20
Acenaphthylene	2.00	1.65		ug/L		83	24 - 135	10	20
Anthracene	2.00	1.55		ug/L		77	20 - 125	6	26
Benzo[a]anthracene	2.00	1.71		ug/L		85	49 - 115	5	20
Benzo[a]pyrene	2.00	1.64		ug/L		82	20 - 115	4	35
Benzo[b]fluoranthene	2.00	2.19		ug/L		110	63 - 129	15	20
Benzo[g,h,i]perylene	2.00	2.35		ug/L		117	58 - 127	4	20
Benzo[k]fluoranthene	2.00	2.00		ug/L		100	60 - 134	1	20

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 580-228099/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228285 — **Prep Batch: 228099**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzoic acid	4.00	3.84		ug/L		96	20 - 150	12	35
Benzyl alcohol	2.00	1.87		ug/L		93	52 - 124	2	20
Bis(2-chloroethoxy)methane	2.00	2.08		ug/L		104	59 - 125	1	20
Bis(2-chloroethyl)ether	2.00	2.01		ug/L		101	55 - 125	1	20
Bis(2-ethylhexyl) phthalate	2.00	2.30	J	ug/L		115	22 - 150	1	20
bis(chloroisopropyl) ether	2.00	1.66		ug/L		83	44 - 123	5	20
Butyl benzyl phthalate	2.00	2.27		ug/L		114	46 - 150	0	20
Carbazole	2.00	1.73		ug/L		87	68 - 142	1	20
Chrysene	2.00	1.74		ug/L		87	57 - 131	1	20
Dibenz(a,h)anthracene	2.00	2.40		ug/L		120	56 - 124	6	20
Dibenzofuran	2.00	1.84		ug/L		92	60 - 125	7	20
Diethyl phthalate	2.00	1.97		ug/L		98	60 - 134	3	20
Dimethyl phthalate	2.00	1.87		ug/L		93	65 - 134	6	20
Di-n-butyl phthalate	2.00	2.04		ug/L		102	67 - 140	0	20
Di-n-octyl phthalate	2.00	2.51		ug/L		125	55 - 150	6	20
Fluoranthene	2.00	1.76		ug/L		88	70 - 135	2	20
Fluorene	2.00	1.82		ug/L		91	57 - 125	6	20
Hexachlorobenzene	2.00	1.68		ug/L		84	55 - 135	3	20
Hexachlorobutadiene	2.00	1.63		ug/L		82	25 - 125	10	31
Hexachlorocyclopentadiene	2.00	0.664	J	ug/L		33	20 - 110	16	35
Hexachloroethane	2.00	2.00		ug/L		100	24 - 125	16	35
Indeno[1,2,3-cd]pyrene	2.00	2.24		ug/L		112	54 - 124	4	20
Isophorone	2.00	2.10		ug/L		105	64 - 125	4	20
Naphthalene	2.00	1.86		ug/L		93	56 - 119	6	20
Nitrobenzene	2.00	2.01		ug/L		100	62 - 125	3	20
N-Nitrosodi-n-propylamine	2.00	1.84		ug/L		92	54 - 120	6	20
N-Nitrosodiphenylamine	2.00	1.41		ug/L		70	40 - 124	4	20
Pentachlorophenol	4.00	2.56		ug/L		64	30 - 122	3	35
Phenanthrene	2.00	1.86		ug/L		93	57 - 125	1	20
Phenol	2.00	1.76		ug/L		88	53 - 113	0	20
Pyrene	2.00	1.79		ug/L		90	64 - 128	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*77*		*57 - 132*
2-Fluorobiphenyl	*80*		*50 - 120*
2-Fluorophenol (Surr)	*101*		*50 - 113*
Nitrobenzene-d5 (Surr)	*95*		*59 - 120*
Phenol-d5 (Surr)	*95*		*52 - 120*
Terphenyl-d14 (Surr)	*80*		*72 - 140*

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-344550/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 344564 — **Prep Batch: 344550**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 18:34	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62627-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 280-344550/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 344564 — **Prep Batch: 344550**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020		ug/L		09/30/16 17:20	09/30/16 18:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*118*		*70 - 130*	*09/30/16 17:20*	*09/30/16 18:34*	*1*

Lab Sample ID: LCS 280-344550/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 344564 — **Prep Batch: 344550**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	0.250	0.261		ug/L		104	70 - 130
1,2-Dibromoethane	0.250	0.244		ug/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*117*		*70 - 130*

Lab Chronicle

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-82A-0916 — Lab Sample ID: 580-62627-1

Date Collected: 09/16/16 10:37 — **Matrix: Water**
Date Received: 09/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228277	09/26/16 12:57	TL1	TAL SEA
Total/NA	Prep	3520C			228099	09/22/16 14:28	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228285	09/26/16 16:27	ERZ	TAL SEA
Total/NA	Prep	8011			344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1	344564	09/30/16 19:12	MPS	TAL DEN

Client Sample ID: MW-82B-0916 — Lab Sample ID: 580-62627-2

Date Collected: 09/16/16 13:31 — **Matrix: Water**
Date Received: 09/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228277	09/26/16 13:26	TL1	TAL SEA
Total/NA	Prep	3520C			228099	09/22/16 14:28	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228285	09/26/16 16:52	ERZ	TAL SEA
Total/NA	Prep	8011			344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1	344564	09/30/16 19:31	MPS	TAL DEN

Client Sample ID: MW-27B-0916 — Lab Sample ID: 580-62627-3

Date Collected: 09/16/16 16:55 — **Matrix: Water**
Date Received: 09/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228277	09/26/16 13:55	TL1	TAL SEA
Total/NA	Prep	3520C			228099	09/22/16 14:28	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228285	09/26/16 17:17	ERZ	TAL SEA
Total/NA	Prep	8011			344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1	344564	09/30/16 19:50	MPS	TAL DEN

Client Sample ID: MW-74A-0916 — Lab Sample ID: 580-62627-4

Date Collected: 09/17/16 10:37 — **Matrix: Water**
Date Received: 09/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228277	09/26/16 14:24	TL1	TAL SEA
Total/NA	Prep	3520C			228099	09/22/16 14:28	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228285	09/26/16 17:42	ERZ	TAL SEA

Lab Chronicle

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-74B-0916 — Lab Sample ID: 580-62627-5

Date Collected: 09/17/16 12:41 — **Matrix: Water**
Date Received: 09/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228277	09/26/16 14:52	TL1	TAL SEA
Total/NA	Prep	3520C			228099	09/22/16 14:28	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228285	09/26/16 18:06	ERZ	TAL SEA
Total/NA	Prep	8011			344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1	344564	09/30/16 20:09	MPS	TAL DEN

Client Sample ID: MW-50A-0916 — Lab Sample ID: 580-62627-6

Date Collected: 09/18/16 12:46 — **Matrix: Water**
Date Received: 09/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228277	09/26/16 15:20	TL1	TAL SEA
Total/NA	Prep	3520C			228099	09/22/16 14:28	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228285	09/26/16 18:31	ERZ	TAL SEA
Total/NA	Prep	8011			344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1	344564	09/30/16 20:28	MPS	TAL DEN

Client Sample ID: MW-50B-0916 — Lab Sample ID: 580-62627-7

Date Collected: 09/18/16 09:41 — **Matrix: Water**
Date Received: 09/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228277	09/26/16 15:48	TL1	TAL SEA
Total/NA	Prep	3520C			228099	09/22/16 14:28	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228285	09/26/16 18:56	ERZ	TAL SEA
Total/NA	Prep	8011			344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1	344564	09/30/16 20:47	MPS	TAL DEN

Client Sample ID: MW-87B-0916 — Lab Sample ID: 580-62627-8

Date Collected: 09/18/16 15:10 — **Matrix: Water**
Date Received: 09/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228277	09/26/16 16:17	TL1	TAL SEA
Total/NA	Prep	3520C			228099	09/22/16 14:28	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228285	09/26/16 19:21	ERZ	TAL SEA
Total/NA	Prep	8011			344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1	344564	09/30/16 21:06	MPS	TAL DEN

Lab Chronicle

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Client Sample ID: MW-87Z-0916 — Lab Sample ID: 580-62627-9

Date Collected: 09/18/16 15:10 — **Matrix: Water**
Date Received: 09/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228277	09/26/16 16:45	TL1	TAL SEA
Total/NA	Prep	3520C			228099	09/22/16 14:28	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228285	09/26/16 19:46	ERZ	TAL SEA
Total/NA	Prep	8011			344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1	344564	09/30/16 22:03	MPS	TAL DEN

Client Sample ID: TB-4-0916 — Lab Sample ID: 580-62627-10

Date Collected: 09/16/16 10:37 — **Matrix: Water**
Date Received: 09/20/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228277	09/26/16 12:29	TL1	TAL SEA
Total/NA	Prep	8011			344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1	344564	09/30/16 21:25	MPS	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8270D	3520C	Water	1,2,4-Trichlorobenzene
8270D	3520C	Water	1,2-Dichlorobenzene
8270D	3520C	Water	1,3-Dichlorobenzene
8270D	3520C	Water	1,4-Dichlorobenzene
8270D	3520C	Water	2,4,5-Trichlorophenol
8270D	3520C	Water	2,4,6-Trichlorophenol
8270D	3520C	Water	2,4-Dichlorophenol
8270D	3520C	Water	2,4-Dimethylphenol
8270D	3520C	Water	2,4-Dinitrophenol
8270D	3520C	Water	2,4-Dinitrotoluene
8270D	3520C	Water	2,6-Dinitrotoluene
8270D	3520C	Water	2-Chloronaphthalene
8270D	3520C	Water	2-Chlorophenol
8270D	3520C	Water	2-Methylphenol
8270D	3520C	Water	2-Nitroaniline
8270D	3520C	Water	2-Nitrophenol
8270D	3520C	Water	3 & 4 Methylphenol
8270D	3520C	Water	3,3'-Dichlorobenzidine
8270D	3520C	Water	3-Nitroaniline
8270D	3520C	Water	4,6-Dinitro-2-methylphenol
8270D	3520C	Water	4-Bromophenyl phenyl ether
8270D	3520C	Water	4-Chloro-3-methylphenol
8270D	3520C	Water	4-Chloroaniline
8270D	3520C	Water	4-Chlorophenyl phenyl ether
8270D	3520C	Water	4-Nitroaniline
8270D	3520C	Water	4-Nitrophenol
8270D	3520C	Water	Benzoic acid
8270D	3520C	Water	Benzyl alcohol
8270D	3520C	Water	Bis(2-chloroethoxy)methane
8270D	3520C	Water	Bis(2-chloroethyl)ether
8270D	3520C	Water	Bis(2-ethylhexyl) phthalate
8270D	3520C	Water	bis(chloroisopropyl) ether
8270D	3520C	Water	Butyl benzyl phthalate
8270D	3520C	Water	Carbazole
8270D	3520C	Water	Dibenzofuran
8270D	3520C	Water	Diethyl phthalate
8270D	3520C	Water	Dimethyl phthalate
8270D	3520C	Water	Di-n-butyl phthalate
8270D	3520C	Water	Di-n-octyl phthalate
8270D	3520C	Water	Hexachlorobenzene
8270D	3520C	Water	Hexachlorobutadiene
8270D	3520C	Water	Hexachlorocyclopentadiene
8270D	3520C	Water	Hexachloroethane
8270D	3520C	Water	Isophorone
8270D	3520C	Water	Nitrobenzene
8270D	3520C	Water	N-Nitrosodi-n-propylamine

Certification Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Laboratory: TestAmerica Seattle (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8270D	3520C	Water	N-Nitrosodiphenylamine
8270D	3520C	Water	Pentachlorophenol
8270D	3520C	Water	Phenol

L-A-B	DoD ELAP		L2236	01-19-19

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,3-Dichlorobenzene

Laboratory: TestAmerica Denver

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-17
A2LA	ISO/IEC 17025		2907.01	10-31-17
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	04-05-17
Arizona	State Program	9	AZ0713	12-19-16
Arkansas DEQ	State Program	6	88-0687	06-01-17
California	State Program	9	2513	08-31-16 *
Connecticut	State Program	1	PH-0686	09-30-18
Florida	NELAP	4	E87667	06-30-17
Georgia	State Program	4	N/A	01-09-17
Illinois	NELAP	5	200017	04-30-17
Iowa	State Program	7	370	11-30-16
Kansas	NELAP	7	E-10166	04-30-17
Louisiana	NELAP	6	02096	06-30-17
Maine	State Program	1	CO0002	03-03-17
Minnesota	NELAP	5	8-999-405	12-31-16
Nevada	State Program	9	CO0026	07-31-17
New Hampshire	NELAP	1	205310	04-28-17
New Jersey	NELAP	2	CO004	06-30-17
New York	NELAP	2	11964	04-01-17
North Carolina (WW/SW)	State Program	4	358	12-31-16
North Dakota	State Program	8	R-034	01-09-17
Oklahoma	State Program	6	8614	08-31-17
Oregon	NELAP	10	4025	01-09-17
Pennsylvania	NELAP	3	68-00664	07-31-17
South Carolina	State Program	4	72002001	01-09-17
Texas	NELAP	6	T104704183-15-11	09-30-17
USDA	Federal		P330-13-00369	12-17-16
Utah	NELAP	8	CO00026	07-31-17
Virginia	NELAP	3	460232	06-14-17
Washington	State Program	10	C583	08-03-17
West Virginia DEP	State Program	3	354	11-30-16
Wisconsin	State Program	5	999615430	08-31-17
Wyoming (UST)	A2LA	8	2907.01	10-31-17

* Certification renewal pending - certification considered valid.

Sample Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62627-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-62627-1	MW-82A-0916	Water	09/16/16 10:37	09/20/16 09:30
580-62627-2	MW-82B-0916	Water	09/16/16 13:31	09/20/16 09:30
580-62627-3	MW-27B-0916	Water	09/16/16 16:55	09/20/16 09:30
580-62627-4	MW-74A-0916	Water	09/17/16 10:37	09/20/16 09:30
580-62627-5	MW-74B-0916	Water	09/17/16 12:41	09/20/16 09:30
580-62627-6	MW-50A-0916	Water	09/18/16 12:46	09/20/16 09:30
580-62627-7	MW-50B-0916	Water	09/18/16 09:41	09/20/16 09:30
580-62627-8	MW-87B-0916	Water	09/18/16 15:10	09/20/16 09:30
580-62627-9	MW-87Z-0916	Water	09/18/16 15:10	09/20/16 09:30
580-62627-10	TB-4-0916	Water	09/16/16 10:37	09/20/16 09:30

TestAmerica Anchorage
2000 W International Airport Road
Suite A10
Anchorage, AK 99502-1117
phone 907.563.9200 fax 907.563.9210

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

626627

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jason Gray	Site Contact:	Date:	COC No: 5
SLR International	Tel/Fax: (907) 862-6579	Lab Contact:	Carrier:	1 of 1 COCs
2700 Gambell Street, Suite 200	Analysis Turnaround Time			Sampler:
Anchorage, AK, 99503	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(907) 862-6579 (Cell)	TAT if different from Below			Walk-in Client:
(907) 264-6965 (Office phone)	☐ 2 weeks			Lab Sampling:
Project Name: Kenai Wells, Event 2	☐ 1 week			
Site: Nikiski, AK	☐ 2 days			Job / SDG No.:
P O # 105.00148.16001	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SVOC by SW8270D	VOC by 8260B	Sample Specific Notes:
-1	MW-82A-0916	09/16/16	10:37	G	GW	5	N	N	X	X	
	MW-82B-0916	09/16/16	13:31	G	GW	5	N	N	X	X	
-3	MW-27B-0916	09/16/16	16:55	G	GW	5	N	N	X	X	
	MW-74A-0916	09/17/16	10:37	G	GW	5	N	N	X	X	
-5	MW-74B-0916	09/17/16	12:41	G	GW	5	N	N	X	X	
	MW-50A -0916	09/18/16	14:46	G	GW	3	N	N		X	
-7	MW-50B -0916	09/18/16	9:41	G	GW	3	N	N		X	
	MW-87B -0916	09/18/16	15:10	G	GW	3	N	N		X	
-9	MW-87Z -0916	09/18/16	15:10	G	GW	3	N	N		X	
	TB-4-0916	09/16/16	10:37	G	GW	3	N	N		X	

580-62627 Chain of Custody

TB A2 Cooler ___ Cor 2.6 Unc 2.8
Cooler Dsc Lg Blue/light @Lab —
Wet/Packs Packing Bubble
w/ics

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ___ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: ___ Corr'd: 1.0 | Therm ID No.: ___

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	SLR	09:00 9-19	[signature]	TA-AK	9/19/16 13:40
[signature]	TA-AK	9/19/16 15:32	[signature]	TA SP.11	9/20/16 0430
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.7, dated 11/02/2015

TestAmerica Anchorage
2000 W International Airport Road
Suite A10
Anchorage, AK 99502-1117
phone 907.563.9200 fax 907.563.9210

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

62627

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Jason Gray	Site Contact:	Date:	COC No: 6
SLR International	Tel/Fax: (907) 862-6579	Lab Contact:	Carrier:	1 of 1 COCs
2700 Gambell Street, Suite 200	Analysis Turnaround Time			Sampler:
Anchorage, AK, 99503	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(907) 862-6579 (Cell)	TAT if different from Below _____			Walk-in Client:
(907) 264-6965 (Office phone)	☑ 2 weeks			Lab Sampling:
Project Name: Kenai Wells, Event 2	☐ 1 week			
Site: Nikiski, AK	☐ 2 days			Job / SDG No.:
P O # 105.00148.16001	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SVOC by SW8270D	Sample Specific Notes:
-6 MW-50A -0916	09/18/16	14:46	G	GW	2	N	N	X	
MW-50B -0916	09/18/16	9:41	G	GW	2	N	N	X	
-8 MW-87B -0916	09/18/16	15:10	G	GW	2	N	N	X	
MW-87Z -0916	09/18/16	15:10	G	GW	2	N	N	X	

TB Air Cooler ____ Cor 1.2° Unc 1.4°
Cooler Dsc Lg Bubble @ Lab —
Wet/Packs Packing Bubble
w/ice

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: 2.3		Therm ID No.:
Relinquished by: Jason Gray	Company: SLR	Date/Time: 9:00 9-19	Received by:	Company: TA-AK	Date/Time: 09/19/16 13:40
Relinquished by:	Company: TA-AK	Date/Time: 9/19/16 15:30	Received by:	Company: TA-SEA	Date/Time: 9/20/16 0930
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.7, dated 11/02/2015

REVISED COC

Chain of Custody Record

TestAmerica Anchorage
2000 W International Airport Road
Suite A10
Anchorage, AK 99502-1117
phone 907.563.9200 fax 907.563.9210

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

626627

Client Contact	Project Manager: Jason Gray	Site Contact:	Date:	COC No: 5
SLR International	Tel/Fax: (907) 862-6579	Lab Contact:	Carrier:	1 of 1 COCs
2700 Gambell Street, Suite 200	Analysis Turnaround Time			Sampler:
Anchorage, AK, 99503	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(907) 862-6579 (Cell)	TAT if different from Below _____			Walk-In Client:
(907) 264-6985 (Office phone)	2 weeks			Lab Sampling:
Project Name: Kenai Wells, Event 2	1 week			
Site: Nikiski, AK	☐ 2 days			Job / SDG No.:
P O # 105.00148.18001	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	SVOC by SW8270D	VOC by 8260B	Sample Specific Notes:
-1	MW-82A-0916	09/16/16	10:37	G	GW	5	N	N	X	X	
	MW-82B-0916	09/16/16	13:31	G	GW	5	N	N	X	X	
-3	MW-27B-0916	09/16/16	16:55	G	GW	5	N	N	X	X	
	MW-74A-0916	09/17/16	10:37	G	GW	5	N	N	X	X	
-5	MW-74B-0916	09/17/16	12:41	G	GW	5	N	N	X	X	
	MW-50A -0916	09/18/16	~~14:46~~	G	GW	3	N	N		X	
-7	MW-50B -0916	09/18/16	9:41	G	GW	3	N	N		X	
	MW-87B -0916	09/18/16	15:10	G	GW	3	N	N		X	
-9	MW-87Z -0916	09/18/16	15:10	G	GW	3	N	N		X	
	TB-4-0916	09/16/16	10:37	G	GW	3	N	N		X	

Revise Sample MW-50A-0916 collection time to 12:46 pm per bottle label. -J.G. 9/22/16

580-62627 Chain of Custody

TB A2 Cooler ____ Cor Rlb Unc 2.5°
Cooler Dsc Lg Bln/Int @Lab ____
Wet/Packs Packing Bubble
w/ics

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: 1.0		Therm ID No.: ____
Relinquished by:	Company: SLR	Date/Time: 09:00 9-19	Received by:	Company: TA-AK	Date/Time: 9/19/16 1540
Relinquished by:	Company: TA-AK	Date/Time: 9/19/16 15:30	Received by:	Company: TA SPH	Date/Time: 9/20/16 0930
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.7, dated 11/02/2015

Revised CoC

TestAmerica Anchorage
2000 W International Airport Road
Suite A10
Anchorage, AK 99502-1117
phone 907.563.9200 fax 907.563.9210

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

62627

Client Contact	Project Manager: Jason Gray	Site Contact:	Date:	COC No: 6
SLR International	Tel/Fax: (907) 882-6579	Lab Contact:	Carrier:	1 of 1 COCs
2700 Gambell Street, Suite 200	Analysis Turnaround Time			Sampler:
Anchorage, AK, 99503	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(907) 882-6579 (Cell)	TAT if different from Below			Walk-in Client:
(907) 264-6965 (Office phone)	☑ 2 weeks			Lab Sampling:
Project Name: Kenai Wells, Event 2	☐ 1 week			
Site: Nikiski, AK	☐ 2 days			Job / SDG No.:
P O # 105.00148.16001	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SVOC by SW8270D	Sample Specific Notes:
-6 MW-50A -0916	09/18/16	14:46	G	GW	2	N	N	X	
MW-50B -0916	09/18/16	9:41	G	GW	2	N	N	X	
-8 MW-87B -0916	09/18/16	15:10	G	GW	2	N	N	X	
MW-87Z -0916	09/18/16	15:10	G	GW	2	N	N	X	

TB #2 Cooler Cor 1.2° Unc 1.4°
Cooler Dsc Lg Bl dotted @ Lab —
Wet/Packs Packing Bubble
w/ice

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: Corr'd: 2.3		Therm ID No.:
Relinquished by: Jason Gray	Company: SLR	Date/Time: 9:20 9-19	Received by:	Company: TA-AK	Date/Time: 09/19/16 1310
Relinquished by:	Company: TA-AK	Date/Time: 9/19/16 1510	Received by:	Company: TA-SEA	Date/Time: 9/20/16 0930
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.7, dated 11/02/2015

TestAmerica Anchorage
2000 W International Airport Road
Suite A10
Anchorage, AK 99502-1117
phone 907.563.9200 fax 907.563.9210

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jason Gray	Site Contact:	Date:	COC No: 7
SLR International	Tel/Fax: (907) 862-6579	Lab Contact:	Carrier:	1 of 1 COCs
2700 Gambell Street, Suite 200	Analysis Turnaround Time			Sampler:
Anchorage, AK, 99503	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(907) 862-6579 (Cell)	TAT if different from Below _____			Walk-in Client:
(907) 264-6965 (Office phone)	☑ 2 weeks			Lab Sampling:
Project Name: Kenai Wells, Event 2	☐ 1 week			
Site: Nikiski, AK	☐ 2 days			Job / SDG No.:
P O # 105.00148.16001	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EDB and 123TCP by SW8011	Sample Specific Notes:
MW-82A-0916	09/16/16	10:37	G	GW	3	N	N	X	
MW-82B-0916	09/16/16	13:31	G	GW	3	N	N	X	
MW-27B-0916	09/16/16	16:55	G	GW	3	N	N	X	
MW-74A-0916	09/17/16	10:37	G	GW	3	N	N	X	
MW-74B-0916	09/17/16	12:41	G	GW	3	N	N	X	
MW-50A -0916	09/18/16	14:46	G	GW	3	N	N	X	
MW-50B -0916	09/18/16	9:41	G	GW	3	N	N	X	
MW-87B -0916	09/18/16	15:10	G	GW	3	N	N	X	
MW-87Z -0916	09/18/16	15:10	G	GW	3	N	N	X	
TB-5-0916	09/16/16	10:37	G	W	3	N	N	X	

580-62627 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

IRS-0.0 21Sep16

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 0.4 Corr'd: 3.1 0.4	Therm ID No.: 5

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	SLR	1730 9-19		TA-AK	9/17/16 13:40
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TA-AK	9/20/16 10:00	Keith Pitts	TAA	9-21-16 0950
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.7, dated 11/02/2015

Login Sample Receipt Checklist

Client: SLR International Corp

Job Number: 580-62627-1

Login Number: 62627
List Number: 1
Creator: Blankinship, Tom X

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Refer to Job Narrative for details.
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: SLR International Corp

Job Number: 580-62627-1

Login Number: 62627
List Number: 2
Creator: Muniz, Ashley T

List Source: TestAmerica Denver
List Creation: 09/23/16 06:13 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Times on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers received broken. No volume could be salvaged for analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-62712-1
Client Project/Site: Kenai Wells

For:
SLR International Corp
2700 Gambell Street
Suite 200
Anchorage, Alaska 99503

Attn: Jason Gray

Authorized for release by:
10/6/2016 1:56:16 PM
Kim Presley, Project Management Assistant I
(253)922-2310
kim.presley@testamericainc.com

Designee for

Robert Greer, Project Manager II
(253)922-2310
robert.greer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Definitions 5
Client Sample Results 6
QC Sample Results 32
Chronicle 47
Certification Summary 49
Sample Summary 51
Chain of Custody 52
Receipt Checklists 54

Case Narrative

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Job ID: 580-62712-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-62712-1

Receipt
The samples were received on 9/22/2016 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.8º C and 1.9º C.

Receipt Exceptions

The Field Sampler was not listed on the Chain of Custody.

GC/MS VOA
Method(s) 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 580-228478 recovered outside control limits for the following analytes: N-Propylbenzene and Vinyl chloride. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 580-228478 recovered outside control limits for the following analytes: 1,2-Dibromo-3-Chloropropane and Dichlorodifluoromethane. Spike recovery for the LCS and LCSD for these analytes are within control limits.

Method(s) 8260C: The matrix spike (MS) and matrix spike duplicate (MS/MSD) recoveries for analytical batch 580-228478 were outside control limits for multiple analytes. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The method blank for preparation batch 580-228351 and analytical batch 580-228682 contained Benzyl alcohol above the reporting limit (RL). This target analyte concentration above the reporting limit but was less than the project-specific action limit; therefore, re-extraction and/or re-analysis of samples was not performed. Associated laboratory samples have been qualifed and reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 580-228682 recovered outside acceptance criteria, low biased, for 4-Nitroaniline. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The method blank for preparation batch 580-228351 and analytical batch 580-228822 contained Benzyl alcohol above the reporting limit (RL). The associated samples with this method blank did not contain the target compound; therefore, re-extraction and/or re-analysis of samples were not performed.

Method(s) 8270D: The following analyte(s) recovered outside control limits for the laboratory control sample (LCS) associated with preparation batch 580-228351 and analytical batch 580-228682: 3,3'-Dichlorobenzidine, 4-Chloroaniline and Hexachlorocyclopentadiene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8270D: The matrix spike (MS) and matrix spike duplicate (MS/MSD) recovery and precision for preparation batch 580-228351 and analytical batch 580-228682 was outside control limits for the following analyes: 3,3-Dichlorobenzidine, 4-Chloroaniline, Bis(2-ethylhexyl) phthalate, N-Nitrosodiphenylamine, and 3-Nitroaniline (%RPD only). Sample matrix interference and/or non-homogeneity are suspected.

Method(s) 8270D: The following samples was diluted due to the nature of the sample matrix: MW-39B-0916 (580-62712-2), MW-62A-0916 (580-62712-3) and APT-1-0916 (580-62712-4). Elevated reporting limits (RLs) are provided.

Job ID: 580-62712-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: MW-39A-0916

Date Collected: 09/19/16 10:31
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*	2.0		ug/L			09/27/16 20:22	1
Chloromethane	ND		5.0		ug/L			09/27/16 20:22	1
Vinyl chloride	ND	*	1.0		ug/L			09/27/16 20:22	1
Bromomethane	ND		5.0		ug/L			09/27/16 20:22	1
Chloroethane	ND		5.0		ug/L			09/27/16 20:22	1
Trichlorofluoromethane	ND		3.0		ug/L			09/27/16 20:22	1
1,1-Dichloroethene	ND		2.0		ug/L			09/27/16 20:22	1
Carbon disulfide	ND		1.0		ug/L			09/27/16 20:22	1
Acetone	ND		50		ug/L			09/27/16 20:22	1
Methylene Chloride	ND		5.0		ug/L			09/27/16 20:22	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/27/16 20:22	1
1,1-Dichloroethane	ND		2.0		ug/L			09/27/16 20:22	1
2,2-Dichloropropane	ND		3.0		ug/L			09/27/16 20:22	1
2-Butanone	ND		20		ug/L			09/27/16 20:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/27/16 20:22	1
Bromochloromethane	ND		2.0		ug/L			09/27/16 20:22	1
Chloroform	ND		5.0		ug/L			09/27/16 20:22	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/27/16 20:22	1
Carbon tetrachloride	ND		3.0		ug/L			09/27/16 20:22	1
1,1-Dichloropropene	ND		3.0		ug/L			09/27/16 20:22	1
Benzene	ND		2.0		ug/L			09/27/16 20:22	1
1,2-Dichloroethane	ND		1.0		ug/L			09/27/16 20:22	1
Trichloroethene	ND		3.0		ug/L			09/27/16 20:22	1
1,2-Dichloropropane	ND		1.0		ug/L			09/27/16 20:22	1
Dibromomethane	ND		1.0		ug/L			09/27/16 20:22	1
Bromodichloromethane	ND		2.0		ug/L			09/27/16 20:22	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 20:22	1
4-Methyl-2-pentanone	ND		15		ug/L			09/27/16 20:22	1
Toluene	ND		2.0		ug/L			09/27/16 20:22	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 20:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/27/16 20:22	1
Tetrachloroethene	ND		3.0		ug/L			09/27/16 20:22	1
1,3-Dichloropropane	ND		1.0		ug/L			09/27/16 20:22	1
2-Hexanone	ND		20		ug/L			09/27/16 20:22	1
Dibromochloromethane	ND		1.0		ug/L			09/27/16 20:22	1
1,2-Dibromoethane	ND		1.0		ug/L			09/27/16 20:22	1
Chlorobenzene	ND		2.0		ug/L			09/27/16 20:22	1
Ethylbenzene	ND		3.0		ug/L			09/27/16 20:22	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/27/16 20:22	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/27/16 20:22	1
o-Xylene	ND		2.0		ug/L			09/27/16 20:22	1
Styrene	ND		5.0		ug/L			09/27/16 20:22	1
Bromoform	ND		1.0		ug/L			09/27/16 20:22	1
Isopropylbenzene	ND		2.0		ug/L			09/27/16 20:22	1
Bromobenzene	ND		2.0		ug/L			09/27/16 20:22	1
N-Propylbenzene	ND	*	3.0		ug/L			09/27/16 20:22	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/27/16 20:22	1
4-Chlorotoluene	ND		2.0		ug/L			09/27/16 20:22	1
t-Butylbenzene	ND		3.0		ug/L			09/27/16 20:22	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: MW-39A-0916

Date Collected: 09/19/16 10:31
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/27/16 20:22	1
sec-Butylbenzene	ND		3.0		ug/L			09/27/16 20:22	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/27/16 20:22	1
4-Isopropyltoluene	ND		3.0		ug/L			09/27/16 20:22	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/27/16 20:22	1
n-Butylbenzene	ND		3.0		ug/L			09/27/16 20:22	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/27/16 20:22	1
1,2-Dibromo-3-Chloropropane	ND	*	10		ug/L			09/27/16 20:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/27/16 20:22	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/27/16 20:22	1
Hexachlorobutadiene	ND		2.0		ug/L			09/27/16 20:22	1
Naphthalene	ND		2.0		ug/L			09/27/16 20:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/27/16 20:22	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/27/16 20:22	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/27/16 20:22	1
2-Chlorotoluene	ND		3.0		ug/L			09/27/16 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*82 - 122*		*09/27/16 20:22*	*1*
4-Bromofluorobenzene (Surr)	*98*		*75 - 125*		*09/27/16 20:22*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 118*		*09/27/16 20:22*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 141*		*09/27/16 20:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 143*		*09/27/16 20:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
1,2-Dichlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
1,3-Dichlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
1,4-Dichlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
1-Methylnaphthalene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 16:09	1
2,4,5-Trichlorophenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
2,4,6-Trichlorophenol	ND		0.60		ug/L		09/26/16 15:04	09/29/16 16:09	1
2,4-Dichlorophenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/26/16 15:04	09/29/16 16:09	1
2,4-Dinitrophenol	ND		5.0		ug/L		09/26/16 15:04	09/29/16 16:09	1
2,4-Dinitrotoluene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
2,6-Dinitrotoluene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
2-Chloronaphthalene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 16:09	1
2-Chlorophenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
2-Methylnaphthalene	ND		0.20		ug/L		09/26/16 15:04	09/29/16 16:09	1
2-Methylphenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
2-Nitroaniline	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
2-Nitrophenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
3 & 4 Methylphenol	ND		0.80		ug/L		09/26/16 15:04	09/29/16 16:09	1
3,3'-Dichlorobenzidine	ND	*	2.0		ug/L		09/26/16 15:04	09/29/16 16:09	1
3-Nitroaniline	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
4,6-Dinitro-2-methylphenol	ND		4.0		ug/L		09/26/16 15:04	09/29/16 16:09	1
4-Bromophenyl phenyl ether	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
4-Chloro-3-methylphenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: MW-39A-0916

Date Collected: 09/19/16 10:31
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
4-Chlorophenyl phenyl ether	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
4-Nitroaniline	ND	*	0.60		ug/L		09/26/16 15:04	09/29/16 16:09	1
4-Nitrophenol	ND		3.0		ug/L		09/26/16 15:04	09/29/16 16:09	1
Acenaphthene	ND		0.10		ug/L		09/26/16 15:04	09/29/16 16:09	1
Acenaphthylene	ND		0.080		ug/L		09/26/16 15:04	09/29/16 16:09	1
Anthracene	ND		0.040		ug/L		09/26/16 15:04	09/29/16 16:09	1
Benzo[a]anthracene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 16:09	1
Benzo[a]pyrene	ND		0.040		ug/L		09/26/16 15:04	09/29/16 16:09	1
Benzo[b]fluoranthene	ND		0.080		ug/L		09/26/16 15:04	09/29/16 16:09	1
Benzo[g,h,i]perylene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 16:09	1
Benzo[k]fluoranthene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 16:09	1
Benzoic acid	ND		3.0		ug/L		09/26/16 15:04	09/29/16 16:09	1
Benzyl alcohol	ND	*	0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Bis(2-chloroethoxy)methane	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Bis(2-chloroethyl)ether	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Bis(2-ethylhexyl) phthalate	ND	*	3.0		ug/L		09/26/16 15:04	09/29/16 16:09	1
bis(chloroisopropyl) ether	ND	*	0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Butyl benzyl phthalate	ND		0.60		ug/L		09/26/16 15:04	09/29/16 16:09	1
Carbazole	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Chrysene	ND		0.040		ug/L		09/26/16 15:04	09/29/16 16:09	1
Dibenz(a,h)anthracene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 16:09	1
Dibenzofuran	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Diethyl phthalate	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Dimethyl phthalate	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Di-n-butyl phthalate	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Di-n-octyl phthalate	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Fluoranthene	ND		0.050		ug/L		09/26/16 15:04	09/29/16 16:09	1
Fluorene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 16:09	1
Hexachlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Hexachlorobutadiene	ND		0.60		ug/L		09/26/16 15:04	09/29/16 16:09	1
Hexachlorocyclopentadiene	ND	*	2.0		ug/L		09/26/16 15:04	09/29/16 16:09	1
Hexachloroethane	ND		0.60		ug/L		09/26/16 15:04	09/29/16 16:09	1
Indeno[1,2,3-cd]pyrene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 16:09	1
Isophorone	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Naphthalene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Nitrobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
N-Nitrosodi-n-propylamine	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
N-Nitrosodiphenylamine	ND		0.40		ug/L		09/26/16 15:04	09/29/16 16:09	1
Pentachlorophenol	ND		0.70		ug/L		09/26/16 15:04	09/29/16 16:09	1
Phenanthrene	ND		0.080		ug/L		09/26/16 15:04	09/29/16 16:09	1
Phenol	ND		0.60		ug/L		09/26/16 15:04	09/29/16 16:09	1
Pyrene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*80*		*57 - 132*	*09/26/16 15:04*	*09/29/16 16:09*	*1*
2-Fluorobiphenyl	*80*		*50 - 120*	*09/26/16 15:04*	*09/29/16 16:09*	*1*
2-Fluorophenol (Surr)	*81*		*50 - 113*	*09/26/16 15:04*	*09/29/16 16:09*	*1*
Nitrobenzene-d5 (Surr)	*83*		*59 - 120*	*09/26/16 15:04*	*09/29/16 16:09*	*1*
Phenol-d5 (Surr)	*81*		*52 - 120*	*09/26/16 15:04*	*09/29/16 16:09*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

16-Dec-16
TestAmerica Job ID: 580-62712-1

Client Sample ID: MW-39A-0916

Date Collected: 09/19/16 10:31
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	92		72 - 140	09/26/16 15:04	09/29/16 16:09	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: MW-39B-0916

Date Collected: 09/19/16 12:42
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*	2.0		ug/L			09/27/16 20:48	1
Chloromethane	ND		5.0		ug/L			09/27/16 20:48	1
Vinyl chloride	ND	*	1.0		ug/L			09/27/16 20:48	1
Bromomethane	ND		5.0		ug/L			09/27/16 20:48	1
Chloroethane	ND		5.0		ug/L			09/27/16 20:48	1
Trichlorofluoromethane	ND		3.0		ug/L			09/27/16 20:48	1
1,1-Dichloroethene	ND		2.0		ug/L			09/27/16 20:48	1
Carbon disulfide	ND		1.0		ug/L			09/27/16 20:48	1
Acetone	ND		50		ug/L			09/27/16 20:48	1
Methylene Chloride	ND		5.0		ug/L			09/27/16 20:48	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/27/16 20:48	1
1,1-Dichloroethane	ND		2.0		ug/L			09/27/16 20:48	1
2,2-Dichloropropane	ND		3.0		ug/L			09/27/16 20:48	1
2-Butanone	ND		20		ug/L			09/27/16 20:48	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/27/16 20:48	1
Bromochloromethane	ND		2.0		ug/L			09/27/16 20:48	1
Chloroform	ND		5.0		ug/L			09/27/16 20:48	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/27/16 20:48	1
Carbon tetrachloride	ND		3.0		ug/L			09/27/16 20:48	1
1,1-Dichloropropene	ND		3.0		ug/L			09/27/16 20:48	1
Benzene	ND		2.0		ug/L			09/27/16 20:48	1
1,2-Dichloroethane	ND		1.0		ug/L			09/27/16 20:48	1
Trichloroethene	ND		3.0		ug/L			09/27/16 20:48	1
1,2-Dichloropropane	ND		1.0		ug/L			09/27/16 20:48	1
Dibromomethane	ND		1.0		ug/L			09/27/16 20:48	1
Bromodichloromethane	ND		2.0		ug/L			09/27/16 20:48	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 20:48	1
4-Methyl-2-pentanone	ND		15		ug/L			09/27/16 20:48	1
Toluene	ND		2.0		ug/L			09/27/16 20:48	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 20:48	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/27/16 20:48	1
Tetrachloroethene	ND		3.0		ug/L			09/27/16 20:48	1
1,3-Dichloropropane	ND		1.0		ug/L			09/27/16 20:48	1
2-Hexanone	ND		20		ug/L			09/27/16 20:48	1
Dibromochloromethane	ND		1.0		ug/L			09/27/16 20:48	1
1,2-Dibromoethane	ND		1.0		ug/L			09/27/16 20:48	1
Chlorobenzene	ND		2.0		ug/L			09/27/16 20:48	1
Ethylbenzene	ND		3.0		ug/L			09/27/16 20:48	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/27/16 20:48	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/27/16 20:48	1
o-Xylene	ND		2.0		ug/L			09/27/16 20:48	1
Styrene	ND		5.0		ug/L			09/27/16 20:48	1
Bromoform	ND		1.0		ug/L			09/27/16 20:48	1
Isopropylbenzene	ND		2.0		ug/L			09/27/16 20:48	1
Bromobenzene	ND		2.0		ug/L			09/27/16 20:48	1
N-Propylbenzene	ND	*	3.0		ug/L			09/27/16 20:48	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/27/16 20:48	1
4-Chlorotoluene	ND		2.0		ug/L			09/27/16 20:48	1
t-Butylbenzene	ND		3.0		ug/L			09/27/16 20:48	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: MW-39B-0916

Date Collected: 09/19/16 12:42
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/27/16 20:48	1
sec-Butylbenzene	ND		3.0		ug/L			09/27/16 20:48	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/27/16 20:48	1
4-Isopropyltoluene	ND		3.0		ug/L			09/27/16 20:48	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/27/16 20:48	1
n-Butylbenzene	ND		3.0		ug/L			09/27/16 20:48	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/27/16 20:48	1
1,2-Dibromo-3-Chloropropane	ND	*	10		ug/L			09/27/16 20:48	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/27/16 20:48	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/27/16 20:48	1
Hexachlorobutadiene	ND		2.0		ug/L			09/27/16 20:48	1
Naphthalene	ND		2.0		ug/L			09/27/16 20:48	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/27/16 20:48	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/27/16 20:48	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/27/16 20:48	1
2-Chlorotoluene	ND		3.0		ug/L			09/27/16 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*82 - 122*		*09/27/16 20:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 125*		*09/27/16 20:48*	*1*
Dibromofluoromethane (Surr)	*95*		*77 - 118*		*09/27/16 20:48*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 141*		*09/27/16 20:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 143*		*09/27/16 20:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
1,2-Dichlorobenzene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
1,3-Dichlorobenzene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
1,4-Dichlorobenzene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
1-Methylnaphthalene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:34	1
2,4,5-Trichlorophenol	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
2,4,6-Trichlorophenol	ND		0.58		ug/L		09/26/16 15:04	09/29/16 16:34	1
2,4-Dichlorophenol	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/26/16 15:04	09/29/16 16:34	1
2,4-Dinitrophenol	ND		4.9		ug/L		09/26/16 15:04	09/29/16 16:34	1
2,4-Dinitrotoluene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
2,6-Dinitrotoluene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
2-Chloronaphthalene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:34	1
2-Chlorophenol	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
2-Methylnaphthalene	ND		0.19		ug/L		09/26/16 15:04	09/29/16 16:34	1
2-Methylphenol	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
2-Nitroaniline	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
2-Nitrophenol	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
3 & 4 Methylphenol	ND		0.78		ug/L		09/26/16 15:04	09/29/16 16:34	1
3,3'-Dichlorobenzidine	ND	*	1.9		ug/L		09/26/16 15:04	09/29/16 16:34	1
3-Nitroaniline	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
4,6-Dinitro-2-methylphenol	ND		3.9		ug/L		09/26/16 15:04	09/29/16 16:34	1
4-Bromophenyl phenyl ether	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
4-Chloro-3-methylphenol	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

16-Dec-16
TestAmerica Job ID: 580-62712-1

Client Sample ID: MW-39B-0916
Date Collected: 09/19/16 12:42
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
4-Chlorophenyl phenyl ether	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
4-Nitroaniline	ND	*	0.58		ug/L		09/26/16 15:04	09/29/16 16:34	1
4-Nitrophenol	ND		2.9		ug/L		09/26/16 15:04	09/29/16 16:34	1
Acenaphthene	ND		0.097		ug/L		09/26/16 15:04	09/29/16 16:34	1
Acenaphthylene	ND		0.078		ug/L		09/26/16 15:04	09/29/16 16:34	1
Anthracene	ND		0.039		ug/L		09/26/16 15:04	09/29/16 16:34	1
Benzo[a]anthracene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:34	1
Benzo[a]pyrene	ND		0.039		ug/L		09/26/16 15:04	09/29/16 16:34	1
Benzo[b]fluoranthene	ND		0.078		ug/L		09/26/16 15:04	09/29/16 16:34	1
Benzo[g,h,i]perylene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:34	1
Benzo[k]fluoranthene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:34	1
Benzoic acid	ND		2.9		ug/L		09/26/16 15:04	09/29/16 16:34	1
Bis(2-chloroethoxy)methane	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
Bis(2-chloroethyl)ether	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
Bis(2-ethylhexyl) phthalate	ND	*	2.9		ug/L		09/26/16 15:04	09/29/16 16:34	1
bis(chloroisopropyl) ether	ND	*	0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
Butyl benzyl phthalate	ND		0.58		ug/L		09/26/16 15:04	09/29/16 16:34	1
Carbazole	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
Chrysene	ND		0.039		ug/L		09/26/16 15:04	09/29/16 16:34	1
Dibenz(a,h)anthracene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:34	1
Dibenzofuran	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
Diethyl phthalate	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
Dimethyl phthalate	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
Di-n-butyl phthalate	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
Di-n-octyl phthalate	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
Fluoranthene	ND		0.049		ug/L		09/26/16 15:04	09/29/16 16:34	1
Fluorene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:34	1
Hexachlorobenzene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
Hexachlorobutadiene	ND		0.58		ug/L		09/26/16 15:04	09/29/16 16:34	1
Hexachlorocyclopentadiene	ND	*	1.9		ug/L		09/26/16 15:04	09/29/16 16:34	1
Hexachloroethane	ND		0.58		ug/L		09/26/16 15:04	09/29/16 16:34	1
Indeno[1,2,3-cd]pyrene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:34	1
Isophorone	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
Naphthalene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
Nitrobenzene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
N-Nitrosodi-n-propylamine	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
N-Nitrosodiphenylamine	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:34	1
Pentachlorophenol	ND		0.68		ug/L		09/26/16 15:04	09/29/16 16:34	1
Phenanthrene	ND		0.078		ug/L		09/26/16 15:04	09/29/16 16:34	1
Phenol	ND		0.58		ug/L		09/26/16 15:04	09/29/16 16:34	1
Pyrene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*57 - 132*	*09/26/16 15:04*	*09/29/16 16:34*	*1*
2-Fluorobiphenyl	*83*		*50 - 120*	*09/26/16 15:04*	*09/29/16 16:34*	*1*
2-Fluorophenol (Surr)	*95*		*50 - 113*	*09/26/16 15:04*	*09/29/16 16:34*	*1*
Nitrobenzene-d5 (Surr)	*94*		*59 - 120*	*09/26/16 15:04*	*09/29/16 16:34*	*1*
Phenol-d5 (Surr)	*93*		*52 - 120*	*09/26/16 15:04*	*09/29/16 16:34*	*1*
Terphenyl-d14 (Surr)	*96*		*72 - 140*	*09/26/16 15:04*	*09/29/16 16:34*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	ND	*	1.9		ug/L		09/26/16 15:04	10/01/16 19:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*57 - 132*	*09/26/16 15:04*	*10/01/16 19:47*	*5*
2-Fluorobiphenyl	*97*		*50 - 120*	*09/26/16 15:04*	*10/01/16 19:47*	*5*
2-Fluorophenol (Surr)	*89*		*50 - 113*	*09/26/16 15:04*	*10/01/16 19:47*	*5*
Nitrobenzene-d5 (Surr)	*91*		*59 - 120*	*09/26/16 15:04*	*10/01/16 19:47*	*5*
Phenol-d5 (Surr)	*85*		*52 - 120*	*09/26/16 15:04*	*10/01/16 19:47*	*5*
Terphenyl-d14 (Surr)	*104*		*72 - 140*	*09/26/16 15:04*	*10/01/16 19:47*	*5*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: MW-62A-0916

Date Collected: 09/19/16 15:03
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*	2.0		ug/L			09/27/16 21:14	1
Chloromethane	ND		5.0		ug/L			09/27/16 21:14	1
Vinyl chloride	ND	*	1.0		ug/L			09/27/16 21:14	1
Bromomethane	ND		5.0		ug/L			09/27/16 21:14	1
Chloroethane	ND		5.0		ug/L			09/27/16 21:14	1
Trichlorofluoromethane	ND		3.0		ug/L			09/27/16 21:14	1
1,1-Dichloroethene	ND		2.0		ug/L			09/27/16 21:14	1
Carbon disulfide	ND		1.0		ug/L			09/27/16 21:14	1
Acetone	ND		50		ug/L			09/27/16 21:14	1
Methylene Chloride	ND		5.0		ug/L			09/27/16 21:14	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/27/16 21:14	1
1,1-Dichloroethane	ND		2.0		ug/L			09/27/16 21:14	1
2,2-Dichloropropane	ND		3.0		ug/L			09/27/16 21:14	1
2-Butanone	ND		20		ug/L			09/27/16 21:14	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/27/16 21:14	1
Bromochloromethane	ND		2.0		ug/L			09/27/16 21:14	1
Chloroform	ND		5.0		ug/L			09/27/16 21:14	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/27/16 21:14	1
Carbon tetrachloride	ND		3.0		ug/L			09/27/16 21:14	1
1,1-Dichloropropene	ND		3.0		ug/L			09/27/16 21:14	1
Benzene	ND		2.0		ug/L			09/27/16 21:14	1
1,2-Dichloroethane	ND		1.0		ug/L			09/27/16 21:14	1
Trichloroethene	ND		3.0		ug/L			09/27/16 21:14	1
1,2-Dichloropropane	ND		1.0		ug/L			09/27/16 21:14	1
Dibromomethane	ND		1.0		ug/L			09/27/16 21:14	1
Bromodichloromethane	ND		2.0		ug/L			09/27/16 21:14	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 21:14	1
4-Methyl-2-pentanone	ND		15		ug/L			09/27/16 21:14	1
Toluene	ND		2.0		ug/L			09/27/16 21:14	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 21:14	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/27/16 21:14	1
Tetrachloroethene	ND		3.0		ug/L			09/27/16 21:14	1
1,3-Dichloropropane	ND		1.0		ug/L			09/27/16 21:14	1
2-Hexanone	ND		20		ug/L			09/27/16 21:14	1
Dibromochloromethane	ND		1.0		ug/L			09/27/16 21:14	1
1,2-Dibromoethane	ND		1.0		ug/L			09/27/16 21:14	1
Chlorobenzene	ND		2.0		ug/L			09/27/16 21:14	1
Ethylbenzene	ND		3.0		ug/L			09/27/16 21:14	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/27/16 21:14	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/27/16 21:14	1
o-Xylene	ND		2.0		ug/L			09/27/16 21:14	1
Styrene	ND		5.0		ug/L			09/27/16 21:14	1
Bromoform	ND		1.0		ug/L			09/27/16 21:14	1
Isopropylbenzene	ND		2.0		ug/L			09/27/16 21:14	1
Bromobenzene	ND		2.0		ug/L			09/27/16 21:14	1
N-Propylbenzene	ND	*	3.0		ug/L			09/27/16 21:14	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/27/16 21:14	1
4-Chlorotoluene	ND		2.0		ug/L			09/27/16 21:14	1
t-Butylbenzene	ND		3.0		ug/L			09/27/16 21:14	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: MW-62A-0916

Date Collected: 09/19/16 15:03
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/27/16 21:14	1
sec-Butylbenzene	ND		3.0		ug/L			09/27/16 21:14	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/27/16 21:14	1
4-Isopropyltoluene	ND		3.0		ug/L			09/27/16 21:14	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/27/16 21:14	1
n-Butylbenzene	ND		3.0		ug/L			09/27/16 21:14	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/27/16 21:14	1
1,2-Dibromo-3-Chloropropane	ND	*	10		ug/L			09/27/16 21:14	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/27/16 21:14	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/27/16 21:14	1
Hexachlorobutadiene	ND		2.0		ug/L			09/27/16 21:14	1
Naphthalene	ND		2.0		ug/L			09/27/16 21:14	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/27/16 21:14	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/27/16 21:14	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/27/16 21:14	1
2-Chlorotoluene	ND		3.0		ug/L			09/27/16 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*82 - 122*		*09/27/16 21:14*	*1*
4-Bromofluorobenzene (Surr)	*96*		*75 - 125*		*09/27/16 21:14*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 118*		*09/27/16 21:14*	*1*
Trifluorotoluene (Surr)	*94*		*80 - 141*		*09/27/16 21:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*65 - 143*		*09/27/16 21:14*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
1,2-Dichlorobenzene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
1,3-Dichlorobenzene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
1,4-Dichlorobenzene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
1-Methylnaphthalene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:59	1
2,4,5-Trichlorophenol	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
2,4,6-Trichlorophenol	ND		0.58		ug/L		09/26/16 15:04	09/29/16 16:59	1
2,4-Dichlorophenol	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/26/16 15:04	09/29/16 16:59	1
2,4-Dinitrophenol	ND		4.8		ug/L		09/26/16 15:04	09/29/16 16:59	1
2,4-Dinitrotoluene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
2,6-Dinitrotoluene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
2-Chloronaphthalene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:59	1
2-Chlorophenol	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
2-Methylnaphthalene	ND		0.19		ug/L		09/26/16 15:04	09/29/16 16:59	1
2-Methylphenol	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
2-Nitroaniline	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
2-Nitrophenol	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
3 & 4 Methylphenol	ND		0.77		ug/L		09/26/16 15:04	09/29/16 16:59	1
3,3'-Dichlorobenzidine	ND	*	1.9		ug/L		09/26/16 15:04	09/29/16 16:59	1
3-Nitroaniline	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
4,6-Dinitro-2-methylphenol	ND		3.9		ug/L		09/26/16 15:04	09/29/16 16:59	1
4-Bromophenyl phenyl ether	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
4-Chloro-3-methylphenol	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: MW-62A-0916

Date Collected: 09/19/16 15:03
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
4-Chlorophenyl phenyl ether	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
4-Nitroaniline	ND	*	0.58		ug/L		09/26/16 15:04	09/29/16 16:59	1
4-Nitrophenol	ND		2.9		ug/L		09/26/16 15:04	09/29/16 16:59	1
Acenaphthene	ND		0.096		ug/L		09/26/16 15:04	09/29/16 16:59	1
Acenaphthylene	ND		0.077		ug/L		09/26/16 15:04	09/29/16 16:59	1
Anthracene	ND		0.039		ug/L		09/26/16 15:04	09/29/16 16:59	1
Benzo[a]anthracene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:59	1
Benzo[a]pyrene	ND		0.039		ug/L		09/26/16 15:04	09/29/16 16:59	1
Benzo[b]fluoranthene	ND		0.077		ug/L		09/26/16 15:04	09/29/16 16:59	1
Benzo[g,h,i]perylene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:59	1
Benzo[k]fluoranthene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:59	1
Benzoic acid	ND		2.9		ug/L		09/26/16 15:04	09/29/16 16:59	1
Bis(2-chloroethoxy)methane	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
Bis(2-chloroethyl)ether	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
Bis(2-ethylhexyl) phthalate	ND	*	2.9		ug/L		09/26/16 15:04	09/29/16 16:59	1
bis(chloroisopropyl) ether	ND	*	0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
Butyl benzyl phthalate	ND		0.58		ug/L		09/26/16 15:04	09/29/16 16:59	1
Carbazole	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
Chrysene	ND		0.039		ug/L		09/26/16 15:04	09/29/16 16:59	1
Dibenz(a,h)anthracene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:59	1
Dibenzofuran	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
Diethyl phthalate	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
Dimethyl phthalate	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
Di-n-butyl phthalate	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
Di-n-octyl phthalate	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
Fluoranthene	ND		0.048		ug/L		09/26/16 15:04	09/29/16 16:59	1
Fluorene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:59	1
Hexachlorobenzene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
Hexachlorobutadiene	ND		0.58		ug/L		09/26/16 15:04	09/29/16 16:59	1
Hexachlorocyclopentadiene	ND	*	1.9		ug/L		09/26/16 15:04	09/29/16 16:59	1
Hexachloroethane	ND		0.58		ug/L		09/26/16 15:04	09/29/16 16:59	1
Indeno[1,2,3-cd]pyrene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:59	1
Isophorone	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
Naphthalene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
Nitrobenzene	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
N-Nitrosodi-n-propylamine	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
N-Nitrosodiphenylamine	ND		0.39		ug/L		09/26/16 15:04	09/29/16 16:59	1
Pentachlorophenol	ND		0.67		ug/L		09/26/16 15:04	09/29/16 16:59	1
Phenanthrene	ND		0.077		ug/L		09/26/16 15:04	09/29/16 16:59	1
Phenol	ND		0.58		ug/L		09/26/16 15:04	09/29/16 16:59	1
Pyrene	ND		0.058		ug/L		09/26/16 15:04	09/29/16 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*57 - 132*	*09/26/16 15:04*	*09/29/16 16:59*	*1*
2-Fluorobiphenyl	*85*		*50 - 120*	*09/26/16 15:04*	*09/29/16 16:59*	*1*
2-Fluorophenol (Surr)	*95*		*50 - 113*	*09/26/16 15:04*	*09/29/16 16:59*	*1*
Nitrobenzene-d5 (Surr)	*98*		*59 - 120*	*09/26/16 15:04*	*09/29/16 16:59*	*1*
Phenol-d5 (Surr)	*93*		*52 - 120*	*09/26/16 15:04*	*09/29/16 16:59*	*1*
Terphenyl-d14 (Surr)	*100*		*72 - 140*	*09/26/16 15:04*	*09/29/16 16:59*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	ND	*	1.9		ug/L		09/26/16 15:04	10/01/16 20:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*57 - 132*	*09/26/16 15:04*	*10/01/16 20:37*	*5*
2-Fluorobiphenyl	*85*		*50 - 120*	*09/26/16 15:04*	*10/01/16 20:37*	*5*
2-Fluorophenol (Surr)	*89*		*50 - 113*	*09/26/16 15:04*	*10/01/16 20:37*	*5*
Nitrobenzene-d5 (Surr)	*96*		*59 - 120*	*09/26/16 15:04*	*10/01/16 20:37*	*5*
Phenol-d5 (Surr)	*84*		*52 - 120*	*09/26/16 15:04*	*10/01/16 20:37*	*5*
Terphenyl-d14 (Surr)	*106*		*72 - 140*	*09/26/16 15:04*	*10/01/16 20:37*	*5*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: APT-1-0916

Date Collected: 09/20/16 10:32
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*	2.0		ug/L			09/27/16 22:34	1
Chloromethane	ND		5.0		ug/L			09/27/16 22:34	1
Vinyl chloride	ND	F1 *	1.0		ug/L			09/27/16 22:34	1
Bromomethane	ND		5.0		ug/L			09/27/16 22:34	1
Chloroethane	ND		5.0		ug/L			09/27/16 22:34	1
Trichlorofluoromethane	ND		3.0		ug/L			09/27/16 22:34	1
1,1-Dichloroethene	ND		2.0		ug/L			09/27/16 22:34	1
Carbon disulfide	ND	F1	1.0		ug/L			09/27/16 22:34	1
Acetone	ND		50		ug/L			09/27/16 22:34	1
Methylene Chloride	ND		5.0		ug/L			09/27/16 22:34	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/27/16 22:34	1
1,1-Dichloroethane	ND		2.0		ug/L			09/27/16 22:34	1
2,2-Dichloropropane	ND		3.0		ug/L			09/27/16 22:34	1
2-Butanone	ND		20		ug/L			09/27/16 22:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/27/16 22:34	1
Bromochloromethane	ND		2.0		ug/L			09/27/16 22:34	1
Chloroform	ND		5.0		ug/L			09/27/16 22:34	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/27/16 22:34	1
Carbon tetrachloride	ND		3.0		ug/L			09/27/16 22:34	1
1,1-Dichloropropene	ND	F1	3.0		ug/L			09/27/16 22:34	1
Benzene	ND		2.0		ug/L			09/27/16 22:34	1
1,2-Dichloroethane	ND		1.0		ug/L			09/27/16 22:34	1
Trichloroethene	**39**	**F1**	3.0		ug/L			09/27/16 22:34	1
1,2-Dichloropropane	ND		1.0		ug/L			09/27/16 22:34	1
Dibromomethane	ND		1.0		ug/L			09/27/16 22:34	1
Bromodichloromethane	ND		2.0		ug/L			09/27/16 22:34	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 22:34	1
4-Methyl-2-pentanone	ND		15		ug/L			09/27/16 22:34	1
Toluene	ND	F1	2.0		ug/L			09/27/16 22:34	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 22:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/27/16 22:34	1
Tetrachloroethene	ND		3.0		ug/L			09/27/16 22:34	1
1,3-Dichloropropane	ND		1.0		ug/L			09/27/16 22:34	1
2-Hexanone	ND		20		ug/L			09/27/16 22:34	1
Dibromochloromethane	ND		1.0		ug/L			09/27/16 22:34	1
1,2-Dibromoethane	ND		1.0		ug/L			09/27/16 22:34	1
Chlorobenzene	ND		2.0		ug/L			09/27/16 22:34	1
Ethylbenzene	ND	F1	3.0		ug/L			09/27/16 22:34	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/27/16 22:34	1
m-Xylene & p-Xylene	ND	F1	3.0		ug/L			09/27/16 22:34	1
o-Xylene	ND		2.0		ug/L			09/27/16 22:34	1
Styrene	ND		5.0		ug/L			09/27/16 22:34	1
Bromoform	ND		1.0		ug/L			09/27/16 22:34	1
Isopropylbenzene	ND		2.0		ug/L			09/27/16 22:34	1
Bromobenzene	ND		2.0		ug/L			09/27/16 22:34	1
N-Propylbenzene	ND	F1 *	3.0		ug/L			09/27/16 22:34	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/27/16 22:34	1
4-Chlorotoluene	ND		2.0		ug/L			09/27/16 22:34	1
t-Butylbenzene	ND		3.0		ug/L			09/27/16 22:34	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: APT-1-0916

Date Collected: 09/20/16 10:32
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/27/16 22:34	1
sec-Butylbenzene	ND	F1	3.0		ug/L			09/27/16 22:34	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/27/16 22:34	1
4-Isopropyltoluene	ND		3.0		ug/L			09/27/16 22:34	1
1,4-Dichlorobenzene	ND	F1	4.0		ug/L			09/27/16 22:34	1
n-Butylbenzene	ND		3.0		ug/L			09/27/16 22:34	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/27/16 22:34	1
1,2-Dibromo-3-Chloropropane	ND	*	10		ug/L			09/27/16 22:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/27/16 22:34	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/27/16 22:34	1
Hexachlorobutadiene	ND		2.0		ug/L			09/27/16 22:34	1
Naphthalene	ND		2.0		ug/L			09/27/16 22:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/27/16 22:34	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/27/16 22:34	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/27/16 22:34	1
2-Chlorotoluene	ND		3.0		ug/L			09/27/16 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*82 - 122*		*09/27/16 22:34*	*1*
4-Bromofluorobenzene (Surr)	*102*		*75 - 125*		*09/27/16 22:34*	*1*
Dibromofluoromethane (Surr)	*96*		*77 - 118*		*09/27/16 22:34*	*1*
Trifluorotoluene (Surr)	*94*		*80 - 141*		*09/27/16 22:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*65 - 143*		*09/27/16 22:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
1,2-Dichlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
1,3-Dichlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
1,4-Dichlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
1-Methylnaphthalene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 17:24	1
2,4,5-Trichlorophenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
2,4,6-Trichlorophenol	ND		0.60		ug/L		09/26/16 15:04	09/29/16 17:24	1
2,4-Dichlorophenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/26/16 15:04	09/29/16 17:24	1
2,4-Dinitrophenol	ND		5.0		ug/L		09/26/16 15:04	09/29/16 17:24	1
2,4-Dinitrotoluene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
2,6-Dinitrotoluene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
2-Chloronaphthalene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 17:24	1
2-Chlorophenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
2-Methylnaphthalene	ND		0.20		ug/L		09/26/16 15:04	09/29/16 17:24	1
2-Methylphenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
2-Nitroaniline	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
2-Nitrophenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
3 & 4 Methylphenol	ND		0.81		ug/L		09/26/16 15:04	09/29/16 17:24	1
3,3'-Dichlorobenzidine	ND	*	2.0		ug/L		09/26/16 15:04	09/29/16 17:24	1
3-Nitroaniline	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
4,6-Dinitro-2-methylphenol	ND		4.0		ug/L		09/26/16 15:04	09/29/16 17:24	1
4-Bromophenyl phenyl ether	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
4-Chloro-3-methylphenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

16-Dec-16
TestAmerica Job ID: 580-62712-1

Client Sample ID: APT-1-0916
Date Collected: 09/20/16 10:32
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
4-Chlorophenyl phenyl ether	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
4-Nitroaniline	ND	*	0.60		ug/L		09/26/16 15:04	09/29/16 17:24	1
4-Nitrophenol	ND		3.0		ug/L		09/26/16 15:04	09/29/16 17:24	1
Acenaphthene	ND		0.10		ug/L		09/26/16 15:04	09/29/16 17:24	1
Acenaphthylene	ND		0.081		ug/L		09/26/16 15:04	09/29/16 17:24	1
Anthracene	ND		0.040		ug/L		09/26/16 15:04	09/29/16 17:24	1
Benzo[a]anthracene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 17:24	1
Benzo[a]pyrene	ND		0.040		ug/L		09/26/16 15:04	09/29/16 17:24	1
Benzo[b]fluoranthene	ND		0.081		ug/L		09/26/16 15:04	09/29/16 17:24	1
Benzo[g,h,i]perylene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 17:24	1
Benzo[k]fluoranthene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 17:24	1
Benzoic acid	ND		3.0		ug/L		09/26/16 15:04	09/29/16 17:24	1
Bis(2-chloroethoxy)methane	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
Bis(2-chloroethyl)ether	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
Bis(2-ethylhexyl) phthalate	ND	*	3.0		ug/L		09/26/16 15:04	09/29/16 17:24	1
bis(chloroisopropyl) ether	ND	*	0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
Butyl benzyl phthalate	**0.60**		0.60		ug/L		09/26/16 15:04	09/29/16 17:24	1
Carbazole	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
Chrysene	ND		0.040		ug/L		09/26/16 15:04	09/29/16 17:24	1
Dibenz(a,h)anthracene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 17:24	1
Dibenzofuran	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
Diethyl phthalate	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
Dimethyl phthalate	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
Di-n-butyl phthalate	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
Di-n-octyl phthalate	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
Fluoranthene	ND		0.050		ug/L		09/26/16 15:04	09/29/16 17:24	1
Fluorene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 17:24	1
Hexachlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
Hexachlorobutadiene	ND		0.60		ug/L		09/26/16 15:04	09/29/16 17:24	1
Hexachlorocyclopentadiene	ND	*	2.0		ug/L		09/26/16 15:04	09/29/16 17:24	1
Hexachloroethane	ND		0.60		ug/L		09/26/16 15:04	09/29/16 17:24	1
Indeno[1,2,3-cd]pyrene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 17:24	1
Isophorone	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
Naphthalene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
Nitrobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
N-Nitrosodi-n-propylamine	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
N-Nitrosodiphenylamine	ND		0.40		ug/L		09/26/16 15:04	09/29/16 17:24	1
Pentachlorophenol	ND		0.71		ug/L		09/26/16 15:04	09/29/16 17:24	1
Phenanthrene	ND		0.081		ug/L		09/26/16 15:04	09/29/16 17:24	1
Phenol	ND		0.60		ug/L		09/26/16 15:04	09/29/16 17:24	1
Pyrene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 17:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*57 - 132*	*09/26/16 15:04*	*09/29/16 17:24*	*1*
2-Fluorobiphenyl	*75*		*50 - 120*	*09/26/16 15:04*	*09/29/16 17:24*	*1*
2-Fluorophenol (Surr)	*81*		*50 - 113*	*09/26/16 15:04*	*09/29/16 17:24*	*1*
Nitrobenzene-d5 (Surr)	*88*		*59 - 120*	*09/26/16 15:04*	*09/29/16 17:24*	*1*
Phenol-d5 (Surr)	*81*		*52 - 120*	*09/26/16 15:04*	*09/29/16 17:24*	*1*
Terphenyl-d14 (Surr)	*89*		*72 - 140*	*09/26/16 15:04*	*09/29/16 17:24*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	ND	*	2.0		ug/L		09/26/16 15:04	10/01/16 21:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*57 - 132*	*09/26/16 15:04*	*10/01/16 21:27*	*5*
2-Fluorobiphenyl	*87*		*50 - 120*	*09/26/16 15:04*	*10/01/16 21:27*	*5*
2-Fluorophenol (Surr)	*84*		*50 - 113*	*09/26/16 15:04*	*10/01/16 21:27*	*5*
Nitrobenzene-d5 (Surr)	*85*		*59 - 120*	*09/26/16 15:04*	*10/01/16 21:27*	*5*
Phenol-d5 (Surr)	*86*		*52 - 120*	*09/26/16 15:04*	*10/01/16 21:27*	*5*
Terphenyl-d14 (Surr)	*112*		*72 - 140*	*09/26/16 15:04*	*10/01/16 21:27*	*5*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: APT-9-0916

Date Collected: 09/20/16 10:32
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*	2.0		ug/L			09/27/16 21:41	1
Chloromethane	ND		5.0		ug/L			09/27/16 21:41	1
Vinyl chloride	ND	*	1.0		ug/L			09/27/16 21:41	1
Bromomethane	ND		5.0		ug/L			09/27/16 21:41	1
Chloroethane	ND		5.0		ug/L			09/27/16 21:41	1
Trichlorofluoromethane	ND		3.0		ug/L			09/27/16 21:41	1
1,1-Dichloroethene	ND		2.0		ug/L			09/27/16 21:41	1
Carbon disulfide	ND		1.0		ug/L			09/27/16 21:41	1
Acetone	ND		50		ug/L			09/27/16 21:41	1
Methylene Chloride	ND		5.0		ug/L			09/27/16 21:41	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/27/16 21:41	1
1,1-Dichloroethane	ND		2.0		ug/L			09/27/16 21:41	1
2,2-Dichloropropane	ND		3.0		ug/L			09/27/16 21:41	1
2-Butanone	ND		20		ug/L			09/27/16 21:41	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/27/16 21:41	1
Bromochloromethane	ND		2.0		ug/L			09/27/16 21:41	1
Chloroform	ND		5.0		ug/L			09/27/16 21:41	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/27/16 21:41	1
Carbon tetrachloride	ND		3.0		ug/L			09/27/16 21:41	1
1,1-Dichloropropene	ND		3.0		ug/L			09/27/16 21:41	1
Benzene	ND		2.0		ug/L			09/27/16 21:41	1
1,2-Dichloroethane	ND		1.0		ug/L			09/27/16 21:41	1
Trichloroethene	**43**		3.0		ug/L			09/27/16 21:41	1
1,2-Dichloropropane	ND		1.0		ug/L			09/27/16 21:41	1
Dibromomethane	ND		1.0		ug/L			09/27/16 21:41	1
Bromodichloromethane	ND		2.0		ug/L			09/27/16 21:41	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 21:41	1
4-Methyl-2-pentanone	ND		15		ug/L			09/27/16 21:41	1
Toluene	ND		2.0		ug/L			09/27/16 21:41	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 21:41	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/27/16 21:41	1
Tetrachloroethene	ND		3.0		ug/L			09/27/16 21:41	1
1,3-Dichloropropane	ND		1.0		ug/L			09/27/16 21:41	1
2-Hexanone	ND		20		ug/L			09/27/16 21:41	1
Dibromochloromethane	ND		1.0		ug/L			09/27/16 21:41	1
1,2-Dibromoethane	ND		1.0		ug/L			09/27/16 21:41	1
Chlorobenzene	ND		2.0		ug/L			09/27/16 21:41	1
Ethylbenzene	ND		3.0		ug/L			09/27/16 21:41	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/27/16 21:41	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/27/16 21:41	1
o-Xylene	ND		2.0		ug/L			09/27/16 21:41	1
Styrene	ND		5.0		ug/L			09/27/16 21:41	1
Bromoform	ND		1.0		ug/L			09/27/16 21:41	1
Isopropylbenzene	ND		2.0		ug/L			09/27/16 21:41	1
Bromobenzene	ND		2.0		ug/L			09/27/16 21:41	1
N-Propylbenzene	ND	*	3.0		ug/L			09/27/16 21:41	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/27/16 21:41	1
4-Chlorotoluene	ND		2.0		ug/L			09/27/16 21:41	1
t-Butylbenzene	ND		3.0		ug/L			09/27/16 21:41	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: APT-9-0916

Date Collected: 09/20/16 10:32
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/27/16 21:41	1
sec-Butylbenzene	ND		3.0		ug/L			09/27/16 21:41	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/27/16 21:41	1
4-Isopropyltoluene	ND		3.0		ug/L			09/27/16 21:41	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/27/16 21:41	1
n-Butylbenzene	ND		3.0		ug/L			09/27/16 21:41	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/27/16 21:41	1
1,2-Dibromo-3-Chloropropane	ND	*	10		ug/L			09/27/16 21:41	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/27/16 21:41	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/27/16 21:41	1
Hexachlorobutadiene	ND		2.0		ug/L			09/27/16 21:41	1
Naphthalene	ND		2.0		ug/L			09/27/16 21:41	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/27/16 21:41	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/27/16 21:41	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/27/16 21:41	1
2-Chlorotoluene	ND		3.0		ug/L			09/27/16 21:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*82 - 122*		*09/27/16 21:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 125*		*09/27/16 21:41*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 118*		*09/27/16 21:41*	*1*
Trifluorotoluene (Surr)	*94*		*80 - 141*		*09/27/16 21:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 143*		*09/27/16 21:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
1,2-Dichlorobenzene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
1,3-Dichlorobenzene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
1,4-Dichlorobenzene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
1-Methylnaphthalene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 18:40	1
2,4,5-Trichlorophenol	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
2,4,6-Trichlorophenol	ND		0.57		ug/L		09/26/16 15:04	09/29/16 18:40	1
2,4-Dichlorophenol	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/26/16 15:04	09/29/16 18:40	1
2,4-Dinitrophenol	ND		4.7		ug/L		09/26/16 15:04	09/29/16 18:40	1
2,4-Dinitrotoluene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
2,6-Dinitrotoluene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
2-Chloronaphthalene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 18:40	1
2-Chlorophenol	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
2-Methylnaphthalene	ND		0.19		ug/L		09/26/16 15:04	09/29/16 18:40	1
2-Methylphenol	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
2-Nitroaniline	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
2-Nitrophenol	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
3 & 4 Methylphenol	ND		0.76		ug/L		09/26/16 15:04	09/29/16 18:40	1
3,3'-Dichlorobenzidine	ND	*	1.9		ug/L		09/26/16 15:04	09/29/16 18:40	1
3-Nitroaniline	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
4,6-Dinitro-2-methylphenol	ND		3.8		ug/L		09/26/16 15:04	09/29/16 18:40	1
4-Bromophenyl phenyl ether	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
4-Chloro-3-methylphenol	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: APT-9-0916

Date Collected: 09/20/16 10:32
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
4-Chlorophenyl phenyl ether	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
4-Nitroaniline	ND	*	0.57		ug/L		09/26/16 15:04	09/29/16 18:40	1
4-Nitrophenol	ND		2.8		ug/L		09/26/16 15:04	09/29/16 18:40	1
Acenaphthene	ND		0.095		ug/L		09/26/16 15:04	09/29/16 18:40	1
Acenaphthylene	ND		0.076		ug/L		09/26/16 15:04	09/29/16 18:40	1
Anthracene	ND		0.038		ug/L		09/26/16 15:04	09/29/16 18:40	1
Benzo[a]anthracene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 18:40	1
Benzo[a]pyrene	ND		0.038		ug/L		09/26/16 15:04	09/29/16 18:40	1
Benzo[b]fluoranthene	ND		0.076		ug/L		09/26/16 15:04	09/29/16 18:40	1
Benzo[g,h,i]perylene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 18:40	1
Benzo[k]fluoranthene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 18:40	1
Benzoic acid	**4.5**		2.8		ug/L		09/26/16 15:04	09/29/16 18:40	1
Benzyl alcohol	ND	*	0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Bis(2-chloroethoxy)methane	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Bis(2-chloroethyl)ether	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Bis(2-ethylhexyl) phthalate	ND	*	2.8		ug/L		09/26/16 15:04	09/29/16 18:40	1
bis(chloroisopropyl) ether	ND	*	0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Butyl benzyl phthalate	ND		0.57		ug/L		09/26/16 15:04	09/29/16 18:40	1
Carbazole	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Chrysene	ND		0.038		ug/L		09/26/16 15:04	09/29/16 18:40	1
Dibenz(a,h)anthracene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 18:40	1
Dibenzofuran	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Diethyl phthalate	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Dimethyl phthalate	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Di-n-butyl phthalate	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Di-n-octyl phthalate	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Fluoranthene	ND		0.047		ug/L		09/26/16 15:04	09/29/16 18:40	1
Fluorene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 18:40	1
Hexachlorobenzene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Hexachlorobutadiene	ND		0.57		ug/L		09/26/16 15:04	09/29/16 18:40	1
Hexachlorocyclopentadiene	ND	*	1.9		ug/L		09/26/16 15:04	09/29/16 18:40	1
Hexachloroethane	ND		0.57		ug/L		09/26/16 15:04	09/29/16 18:40	1
Indeno[1,2,3-cd]pyrene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 18:40	1
Isophorone	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Naphthalene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Nitrobenzene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
N-Nitrosodi-n-propylamine	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
N-Nitrosodiphenylamine	ND		0.38		ug/L		09/26/16 15:04	09/29/16 18:40	1
Pentachlorophenol	ND		0.66		ug/L		09/26/16 15:04	09/29/16 18:40	1
Phenanthrene	ND		0.076		ug/L		09/26/16 15:04	09/29/16 18:40	1
Phenol	ND		0.57		ug/L		09/26/16 15:04	09/29/16 18:40	1
Pyrene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*93*		*57 - 132*	*09/26/16 15:04*	*09/29/16 18:40*	*1*
2-Fluorobiphenyl	*81*		*50 - 120*	*09/26/16 15:04*	*09/29/16 18:40*	*1*
2-Fluorophenol (Surr)	*91*		*50 - 113*	*09/26/16 15:04*	*09/29/16 18:40*	*1*
Nitrobenzene-d5 (Surr)	*100*		*59 - 120*	*09/26/16 15:04*	*09/29/16 18:40*	*1*
Phenol-d5 (Surr)	*89*		*52 - 120*	*09/26/16 15:04*	*09/29/16 18:40*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

16-Dec-16
TestAmerica Job ID: 580-62712-1

Client Sample ID: APT-9-0916

Date Collected: 09/20/16 10:32
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	86		72 - 140	09/26/16 15:04	09/29/16 18:40	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: APT-3-0916

Date Collected: 09/20/16 12:10
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*	2.0		ug/L			09/27/16 22:07	1
Chloromethane	ND		5.0		ug/L			09/27/16 22:07	1
Vinyl chloride	ND	*	1.0		ug/L			09/27/16 22:07	1
Bromomethane	ND		5.0		ug/L			09/27/16 22:07	1
Chloroethane	ND		5.0		ug/L			09/27/16 22:07	1
Trichlorofluoromethane	ND		3.0		ug/L			09/27/16 22:07	1
1,1-Dichloroethene	ND		2.0		ug/L			09/27/16 22:07	1
Carbon disulfide	ND		1.0		ug/L			09/27/16 22:07	1
Acetone	ND		50		ug/L			09/27/16 22:07	1
Methylene Chloride	ND		5.0		ug/L			09/27/16 22:07	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/27/16 22:07	1
1,1-Dichloroethane	ND		2.0		ug/L			09/27/16 22:07	1
2,2-Dichloropropane	ND		3.0		ug/L			09/27/16 22:07	1
2-Butanone	ND		20		ug/L			09/27/16 22:07	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/27/16 22:07	1
Bromochloromethane	ND		2.0		ug/L			09/27/16 22:07	1
Chloroform	ND		5.0		ug/L			09/27/16 22:07	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/27/16 22:07	1
Carbon tetrachloride	ND		3.0		ug/L			09/27/16 22:07	1
1,1-Dichloropropene	ND		3.0		ug/L			09/27/16 22:07	1
Benzene	ND		2.0		ug/L			09/27/16 22:07	1
1,2-Dichloroethane	ND		1.0		ug/L			09/27/16 22:07	1
Trichloroethene	**15**		3.0		ug/L			09/27/16 22:07	1
1,2-Dichloropropane	ND		1.0		ug/L			09/27/16 22:07	1
Dibromomethane	ND		1.0		ug/L			09/27/16 22:07	1
Bromodichloromethane	ND		2.0		ug/L			09/27/16 22:07	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 22:07	1
4-Methyl-2-pentanone	ND		15		ug/L			09/27/16 22:07	1
Toluene	**2.9**		2.0		ug/L			09/27/16 22:07	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 22:07	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/27/16 22:07	1
Tetrachloroethene	ND		3.0		ug/L			09/27/16 22:07	1
1,3-Dichloropropane	ND		1.0		ug/L			09/27/16 22:07	1
2-Hexanone	ND		20		ug/L			09/27/16 22:07	1
Dibromochloromethane	ND		1.0		ug/L			09/27/16 22:07	1
1,2-Dibromoethane	ND		1.0		ug/L			09/27/16 22:07	1
Chlorobenzene	ND		2.0		ug/L			09/27/16 22:07	1
Ethylbenzene	ND		3.0		ug/L			09/27/16 22:07	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/27/16 22:07	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/27/16 22:07	1
o-Xylene	ND		2.0		ug/L			09/27/16 22:07	1
Styrene	ND		5.0		ug/L			09/27/16 22:07	1
Bromoform	ND		1.0		ug/L			09/27/16 22:07	1
Isopropylbenzene	ND		2.0		ug/L			09/27/16 22:07	1
Bromobenzene	ND		2.0		ug/L			09/27/16 22:07	1
N-Propylbenzene	ND	*	3.0		ug/L			09/27/16 22:07	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/27/16 22:07	1
4-Chlorotoluene	ND		2.0		ug/L			09/27/16 22:07	1
t-Butylbenzene	ND		3.0		ug/L			09/27/16 22:07	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: APT-3-0916

Date Collected: 09/20/16 12:10
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/27/16 22:07	1
sec-Butylbenzene	ND		3.0		ug/L			09/27/16 22:07	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/27/16 22:07	1
4-Isopropyltoluene	ND		3.0		ug/L			09/27/16 22:07	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/27/16 22:07	1
n-Butylbenzene	ND		3.0		ug/L			09/27/16 22:07	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/27/16 22:07	1
1,2-Dibromo-3-Chloropropane	ND	*	10		ug/L			09/27/16 22:07	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/27/16 22:07	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/27/16 22:07	1
Hexachlorobutadiene	ND		2.0		ug/L			09/27/16 22:07	1
Naphthalene	ND		2.0		ug/L			09/27/16 22:07	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/27/16 22:07	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/27/16 22:07	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/27/16 22:07	1
2-Chlorotoluene	ND		3.0		ug/L			09/27/16 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*82 - 122*		*09/27/16 22:07*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 125*		*09/27/16 22:07*	*1*
Dibromofluoromethane (Surr)	*97*		*77 - 118*		*09/27/16 22:07*	*1*
Trifluorotoluene (Surr)	*94*		*80 - 141*		*09/27/16 22:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*65 - 143*		*09/27/16 22:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
1,2-Dichlorobenzene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
1,3-Dichlorobenzene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
1,4-Dichlorobenzene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
1-Methylnaphthalene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 19:05	1
2,4,5-Trichlorophenol	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
2,4,6-Trichlorophenol	ND		0.57		ug/L		09/26/16 15:04	09/29/16 19:05	1
2,4-Dichlorophenol	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/26/16 15:04	09/29/16 19:05	1
2,4-Dinitrophenol	ND		4.8		ug/L		09/26/16 15:04	09/29/16 19:05	1
2,4-Dinitrotoluene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
2,6-Dinitrotoluene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
2-Chloronaphthalene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 19:05	1
2-Chlorophenol	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
2-Methylnaphthalene	ND		0.19		ug/L		09/26/16 15:04	09/29/16 19:05	1
2-Methylphenol	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
2-Nitroaniline	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
2-Nitrophenol	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
3 & 4 Methylphenol	ND		0.76		ug/L		09/26/16 15:04	09/29/16 19:05	1
3,3'-Dichlorobenzidine	ND	*	1.9		ug/L		09/26/16 15:04	09/29/16 19:05	1
3-Nitroaniline	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
4,6-Dinitro-2-methylphenol	ND		3.8		ug/L		09/26/16 15:04	09/29/16 19:05	1
4-Bromophenyl phenyl ether	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
4-Chloro-3-methylphenol	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: APT-3-0916

Date Collected: 09/20/16 12:10
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND	*	0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
4-Chlorophenyl phenyl ether	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
4-Nitroaniline	ND	*	0.57		ug/L		09/26/16 15:04	09/29/16 19:05	1
4-Nitrophenol	ND		2.9		ug/L		09/26/16 15:04	09/29/16 19:05	1
Acenaphthene	ND		0.095		ug/L		09/26/16 15:04	09/29/16 19:05	1
Acenaphthylene	ND		0.076		ug/L		09/26/16 15:04	09/29/16 19:05	1
Anthracene	ND		0.038		ug/L		09/26/16 15:04	09/29/16 19:05	1
Benzo[a]anthracene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 19:05	1
Benzo[a]pyrene	ND		0.038		ug/L		09/26/16 15:04	09/29/16 19:05	1
Benzo[b]fluoranthene	ND		0.076		ug/L		09/26/16 15:04	09/29/16 19:05	1
Benzo[g,h,i]perylene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 19:05	1
Benzo[k]fluoranthene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 19:05	1
Benzoic acid	ND		2.9		ug/L		09/26/16 15:04	09/29/16 19:05	1
Benzyl alcohol	ND	*	0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Bis(2-chloroethoxy)methane	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Bis(2-chloroethyl)ether	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Bis(2-ethylhexyl) phthalate	ND	*	2.9		ug/L		09/26/16 15:04	09/29/16 19:05	1
bis(chloroisopropyl) ether	ND	*	0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Butyl benzyl phthalate	ND		0.57		ug/L		09/26/16 15:04	09/29/16 19:05	1
Carbazole	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Chrysene	ND		0.038		ug/L		09/26/16 15:04	09/29/16 19:05	1
Dibenz(a,h)anthracene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 19:05	1
Dibenzofuran	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Diethyl phthalate	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Dimethyl phthalate	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Di-n-butyl phthalate	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Di-n-octyl phthalate	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Fluoranthene	ND		0.048		ug/L		09/26/16 15:04	09/29/16 19:05	1
Fluorene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 19:05	1
Hexachlorobenzene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Hexachlorobutadiene	ND		0.57		ug/L		09/26/16 15:04	09/29/16 19:05	1
Hexachlorocyclopentadiene	ND	*	1.9		ug/L		09/26/16 15:04	09/29/16 19:05	1
Hexachloroethane	ND		0.57		ug/L		09/26/16 15:04	09/29/16 19:05	1
Indeno[1,2,3-cd]pyrene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 19:05	1
Isophorone	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Naphthalene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Nitrobenzene	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
N-Nitrosodi-n-propylamine	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
N-Nitrosodiphenylamine	ND		0.38		ug/L		09/26/16 15:04	09/29/16 19:05	1
Pentachlorophenol	ND		0.67		ug/L		09/26/16 15:04	09/29/16 19:05	1
Phenanthrene	ND		0.076		ug/L		09/26/16 15:04	09/29/16 19:05	1
Phenol	ND		0.57		ug/L		09/26/16 15:04	09/29/16 19:05	1
Pyrene	ND		0.057		ug/L		09/26/16 15:04	09/29/16 19:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*102*		*57 - 132*	*09/26/16 15:04*	*09/29/16 19:05*	*1*
2-Fluorobiphenyl	*88*		*50 - 120*	*09/26/16 15:04*	*09/29/16 19:05*	*1*
2-Fluorophenol (Surr)	*101*		*50 - 113*	*09/26/16 15:04*	*09/29/16 19:05*	*1*
Nitrobenzene-d5 (Surr)	*101*		*59 - 120*	*09/26/16 15:04*	*09/29/16 19:05*	*1*
Phenol-d5 (Surr)	*98*		*52 - 120*	*09/26/16 15:04*	*09/29/16 19:05*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: APT-3-0916

Date Collected: 09/20/16 12:10
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	96		72 - 140	09/26/16 15:04	09/29/16 19:05	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: TB-07-0916

Date Collected: 09/19/16 10:31
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND	*	2.0		ug/L			09/27/16 19:29	1
Chloromethane	ND		5.0		ug/L			09/27/16 19:29	1
Vinyl chloride	ND	*	1.0		ug/L			09/27/16 19:29	1
Bromomethane	ND		5.0		ug/L			09/27/16 19:29	1
Chloroethane	ND		5.0		ug/L			09/27/16 19:29	1
Trichlorofluoromethane	ND		3.0		ug/L			09/27/16 19:29	1
1,1-Dichloroethene	ND		2.0		ug/L			09/27/16 19:29	1
Carbon disulfide	ND		1.0		ug/L			09/27/16 19:29	1
Acetone	ND		50		ug/L			09/27/16 19:29	1
Methylene Chloride	ND		5.0		ug/L			09/27/16 19:29	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/27/16 19:29	1
1,1-Dichloroethane	ND		2.0		ug/L			09/27/16 19:29	1
2,2-Dichloropropane	ND		3.0		ug/L			09/27/16 19:29	1
2-Butanone	ND		20		ug/L			09/27/16 19:29	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/27/16 19:29	1
Bromochloromethane	ND		2.0		ug/L			09/27/16 19:29	1
Chloroform	ND		5.0		ug/L			09/27/16 19:29	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/27/16 19:29	1
Carbon tetrachloride	ND		3.0		ug/L			09/27/16 19:29	1
1,1-Dichloropropene	ND		3.0		ug/L			09/27/16 19:29	1
Benzene	ND		2.0		ug/L			09/27/16 19:29	1
1,2-Dichloroethane	ND		1.0		ug/L			09/27/16 19:29	1
Trichloroethene	ND		3.0		ug/L			09/27/16 19:29	1
1,2-Dichloropropane	ND		1.0		ug/L			09/27/16 19:29	1
Dibromomethane	ND		1.0		ug/L			09/27/16 19:29	1
Bromodichloromethane	ND		2.0		ug/L			09/27/16 19:29	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 19:29	1
4-Methyl-2-pentanone	ND		15		ug/L			09/27/16 19:29	1
Toluene	ND		2.0		ug/L			09/27/16 19:29	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 19:29	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/27/16 19:29	1
Tetrachloroethene	ND		3.0		ug/L			09/27/16 19:29	1
1,3-Dichloropropane	ND		1.0		ug/L			09/27/16 19:29	1
2-Hexanone	ND		20		ug/L			09/27/16 19:29	1
Dibromochloromethane	ND		1.0		ug/L			09/27/16 19:29	1
1,2-Dibromoethane	ND		1.0		ug/L			09/27/16 19:29	1
Chlorobenzene	ND		2.0		ug/L			09/27/16 19:29	1
Ethylbenzene	ND		3.0		ug/L			09/27/16 19:29	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/27/16 19:29	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/27/16 19:29	1
o-Xylene	ND		2.0		ug/L			09/27/16 19:29	1
Styrene	ND		5.0		ug/L			09/27/16 19:29	1
Bromoform	ND		1.0		ug/L			09/27/16 19:29	1
Isopropylbenzene	ND		2.0		ug/L			09/27/16 19:29	1
Bromobenzene	ND		2.0		ug/L			09/27/16 19:29	1
N-Propylbenzene	ND	*	3.0		ug/L			09/27/16 19:29	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/27/16 19:29	1
4-Chlorotoluene	ND		2.0		ug/L			09/27/16 19:29	1
t-Butylbenzene	ND		3.0		ug/L			09/27/16 19:29	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: TB-07-0916

Date Collected: 09/19/16 10:31
Date Received: 09/22/16 09:30

Lab Sample ID: 580-62712-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/27/16 19:29	1
sec-Butylbenzene	ND		3.0		ug/L			09/27/16 19:29	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/27/16 19:29	1
4-Isopropyltoluene	ND		3.0		ug/L			09/27/16 19:29	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/27/16 19:29	1
n-Butylbenzene	ND		3.0		ug/L			09/27/16 19:29	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/27/16 19:29	1
1,2-Dibromo-3-Chloropropane	ND	*	10		ug/L			09/27/16 19:29	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/27/16 19:29	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/27/16 19:29	1
Hexachlorobutadiene	ND		2.0		ug/L			09/27/16 19:29	1
Naphthalene	ND		2.0		ug/L			09/27/16 19:29	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/27/16 19:29	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/27/16 19:29	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/27/16 19:29	1
2-Chlorotoluene	ND		3.0		ug/L			09/27/16 19:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*82 - 122*		*09/27/16 19:29*	*1*
4-Bromofluorobenzene (Surr)	*103*		*75 - 125*		*09/27/16 19:29*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 118*		*09/27/16 19:29*	*1*
Trifluorotoluene (Surr)	*94*		*80 - 141*		*09/27/16 19:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 143*		*09/27/16 19:29*	*1*

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-228478/5
Matrix: Water
Analysis Batch: 228478

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/27/16 17:34	1
Chloromethane	ND		5.0		ug/L			09/27/16 17:34	1
Vinyl chloride	ND		1.0		ug/L			09/27/16 17:34	1
Bromomethane	ND		5.0		ug/L			09/27/16 17:34	1
Chloroethane	ND		5.0		ug/L			09/27/16 17:34	1
Trichlorofluoromethane	ND		3.0		ug/L			09/27/16 17:34	1
1,1-Dichloroethene	ND		2.0		ug/L			09/27/16 17:34	1
Carbon disulfide	ND		1.0		ug/L			09/27/16 17:34	1
Acetone	ND		50		ug/L			09/27/16 17:34	1
Methylene Chloride	ND		5.0		ug/L			09/27/16 17:34	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/27/16 17:34	1
1,1-Dichloroethane	ND		2.0		ug/L			09/27/16 17:34	1
2,2-Dichloropropane	ND		3.0		ug/L			09/27/16 17:34	1
2-Butanone	ND		20		ug/L			09/27/16 17:34	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/27/16 17:34	1
Bromochloromethane	ND		2.0		ug/L			09/27/16 17:34	1
Chloroform	ND		5.0		ug/L			09/27/16 17:34	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/27/16 17:34	1
Carbon tetrachloride	ND		3.0		ug/L			09/27/16 17:34	1
1,1-Dichloropropene	ND		3.0		ug/L			09/27/16 17:34	1
Benzene	ND		2.0		ug/L			09/27/16 17:34	1
1,2-Dichloroethane	ND		1.0		ug/L			09/27/16 17:34	1
Trichloroethene	ND		3.0		ug/L			09/27/16 17:34	1
1,2-Dichloropropane	ND		1.0		ug/L			09/27/16 17:34	1
Dibromomethane	ND		1.0		ug/L			09/27/16 17:34	1
Bromodichloromethane	ND		2.0		ug/L			09/27/16 17:34	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 17:34	1
4-Methyl-2-pentanone	ND		15		ug/L			09/27/16 17:34	1
Toluene	ND		2.0		ug/L			09/27/16 17:34	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/27/16 17:34	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/27/16 17:34	1
Tetrachloroethene	ND		3.0		ug/L			09/27/16 17:34	1
1,3-Dichloropropane	ND		1.0		ug/L			09/27/16 17:34	1
2-Hexanone	ND		20		ug/L			09/27/16 17:34	1
Dibromochloromethane	ND		1.0		ug/L			09/27/16 17:34	1
1,2-Dibromoethane	ND		1.0		ug/L			09/27/16 17:34	1
Chlorobenzene	ND		2.0		ug/L			09/27/16 17:34	1
Ethylbenzene	ND		3.0		ug/L			09/27/16 17:34	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/27/16 17:34	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/27/16 17:34	1
o-Xylene	ND		2.0		ug/L			09/27/16 17:34	1
Styrene	ND		5.0		ug/L			09/27/16 17:34	1
Bromoform	ND		1.0		ug/L			09/27/16 17:34	1
Isopropylbenzene	ND		2.0		ug/L			09/27/16 17:34	1
Bromobenzene	ND		2.0		ug/L			09/27/16 17:34	1
N-Propylbenzene	ND		3.0		ug/L			09/27/16 17:34	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/27/16 17:34	1
4-Chlorotoluene	ND		2.0		ug/L			09/27/16 17:34	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-228478/5
Matrix: Water
Analysis Batch: 228478

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butylbenzene	ND		3.0		ug/L			09/27/16 17:34	1
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/27/16 17:34	1
sec-Butylbenzene	ND		3.0		ug/L			09/27/16 17:34	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/27/16 17:34	1
4-Isopropyltoluene	ND		3.0		ug/L			09/27/16 17:34	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/27/16 17:34	1
n-Butylbenzene	ND		3.0		ug/L			09/27/16 17:34	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/27/16 17:34	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/27/16 17:34	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/27/16 17:34	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/27/16 17:34	1
Hexachlorobutadiene	ND		2.0		ug/L			09/27/16 17:34	1
Naphthalene	ND		2.0		ug/L			09/27/16 17:34	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/27/16 17:34	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/27/16 17:34	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/27/16 17:34	1
2-Chlorotoluene	ND		3.0		ug/L			09/27/16 17:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*82 - 122*		*09/27/16 17:34*	*1*
4-Bromofluorobenzene (Surr)	*99*		*75 - 125*		*09/27/16 17:34*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 118*		*09/27/16 17:34*	*1*
Trifluorotoluene (Surr)	*94*		*80 - 141*		*09/27/16 17:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*65 - 143*		*09/27/16 17:34*	*1*

Lab Sample ID: LCS 580-228478/6
Matrix: Water
Analysis Batch: 228478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	4.12		ug/L		41	20 - 141
Chloromethane	10.0	10.5		ug/L		105	40 - 149
Vinyl chloride	10.0	11.0		ug/L		110	56 - 114
Bromomethane	10.0	9.85		ug/L		98	55 - 125
Chloroethane	10.0	9.39		ug/L		94	60 - 126
Trichlorofluoromethane	10.0	9.94		ug/L		99	49 - 130
1,1-Dichloroethene	10.1	10.1		ug/L		100	70 - 117
Carbon disulfide	10.0	10.9		ug/L		109	63 - 122
Acetone	50.0	48.8	J	ug/L		98	20 - 150
Methylene Chloride	10.0	9.68		ug/L		96	70 - 115
trans-1,2-Dichloroethene	10.0	9.77		ug/L		98	72 - 113
1,1-Dichloroethane	10.0	10.2		ug/L		102	70 - 135
2,2-Dichloropropane	10.0	10.4		ug/L		104	50 - 140
2-Butanone	50.0	49.8		ug/L		100	30 - 150
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	70 - 111
Bromochloromethane	10.0	9.46		ug/L		94	65 - 120
Chloroform	10.0	10.2		ug/L		102	80 - 119
1,1,1-Trichloroethane	10.0	9.89		ug/L		99	65 - 130

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-228478/6
Matrix: Water
Analysis Batch: 228478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	10.0	10.1		ug/L		101	65 - 124
1,1-Dichloropropene	10.0	11.2		ug/L		112	75 - 120
Benzene	10.0	10.9		ug/L		109	80 - 120
1,2-Dichloroethane	10.0	10.7		ug/L		106	58 - 143
Trichloroethene	10.0	10.1		ug/L		101	70 - 125
1,2-Dichloropropane	10.0	10.9		ug/L		109	58 - 150
Dibromomethane	10.0	9.90		ug/L		99	61 - 142
Bromodichloromethane	10.0	9.66		ug/L		96	75 - 120
cis-1,3-Dichloropropene	10.0	10.7		ug/L		107	77 - 117
4-Methyl-2-pentanone	50.0	55.8		ug/L		112	20 - 150
Toluene	10.0	11.2		ug/L		112	75 - 120
trans-1,3-Dichloropropene	10.0	10.4		ug/L		104	73 - 122
1,1,2-Trichloroethane	10.0	10.7		ug/L		106	69 - 135
Tetrachloroethene	10.0	10.2		ug/L		101	70 - 124
1,3-Dichloropropane	10.0	11.4		ug/L		114	69 - 134
2-Hexanone	50.0	57.3		ug/L		115	20 - 150
Dibromochloromethane	10.0	10.2		ug/L		102	71 - 118
1,2-Dibromoethane	10.0	10.6		ug/L		106	66 - 133
Chlorobenzene	10.0	10.5		ug/L		105	80 - 120
Ethylbenzene	10.0	11.5		ug/L		114	75 - 119
1,1,1,2-Tetrachloroethane	10.0	9.78		ug/L		97	64 - 130
m-Xylene & p-Xylene	10.0	10.9		ug/L		109	75 - 119
o-Xylene	10.0	10.8		ug/L		108	74 - 120
Styrene	10.0	10.3		ug/L		103	76 - 116
Bromoform	10.0	9.69		ug/L		97	55 - 130
Isopropylbenzene	10.0	11.2		ug/L		112	75 - 125
Bromobenzene	10.0	10.1		ug/L		101	75 - 115
N-Propylbenzene	10.0	11.8		ug/L		118	70 - 124
1,1,2,2-Tetrachloroethane	10.0	11.0		ug/L		110	65 - 130
4-Chlorotoluene	10.0	10.6		ug/L		105	68 - 121
t-Butylbenzene	10.0	10.6		ug/L		106	70 - 121
1,2,4-Trimethylbenzene	10.0	10.9		ug/L		109	75 - 121
sec-Butylbenzene	10.0	11.3		ug/L		113	70 - 125
1,3-Dichlorobenzene	10.0	10.3		ug/L		102	72 - 116
4-Isopropyltoluene	10.0	11.0		ug/L		110	66 - 120
1,4-Dichlorobenzene	10.0	10.4		ug/L		104	75 - 117
n-Butylbenzene	10.0	9.46		ug/L		94	70 - 120
1,2-Dichlorobenzene	10.0	10.3		ug/L		103	70 - 120
1,2-Dibromo-3-Chloropropane	10.0	6.54	J	ug/L		65	58 - 141
1,2,4-Trichlorobenzene	10.0	9.78		ug/L		98	56 - 129
1,2,3-Trichlorobenzene	10.0	9.74		ug/L		97	55 - 133
Hexachlorobutadiene	10.0	9.31		ug/L		93	56 - 125
Naphthalene	10.0	11.0		ug/L		110	55 - 134
Methyl tert-butyl ether	10.0	10.3		ug/L		102	65 - 125
1,2,3-Trichloropropane	10.0	10.3		ug/L		103	65 - 135
1,3,5-Trimethylbenzene	10.0	11.0		ug/L		110	75 - 122
2-Chlorotoluene	10.0	9.83		ug/L		98	69 - 125

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-228478/6
Matrix: Water
Analysis Batch: 228478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*82 - 122*
4-Bromofluorobenzene (Surr)	*99*		*75 - 125*
Dibromofluoromethane (Surr)	*97*		*77 - 118*
Trifluorotoluene (Surr)	*98*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*104*		*65 - 143*

Lab Sample ID: LCSD 580-228478/7
Matrix: Water
Analysis Batch: 228478

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	10.0	10.8	*	ug/L		108	20 - 141	90	35
Chloromethane	10.0	10.8		ug/L		108	40 - 149	2	22
Vinyl chloride	10.0	12.0	*	ug/L		120	56 - 114	8	23
Bromomethane	10.0	11.5		ug/L		115	55 - 125	16	30
Chloroethane	10.0	11.1		ug/L		111	60 - 126	16	30
Trichlorofluoromethane	10.0	10.9		ug/L		109	49 - 130	9	35
1,1-Dichloroethene	10.1	9.82		ug/L		97	70 - 117	2	21
Carbon disulfide	10.0	11.1		ug/L		111	63 - 122	2	20
Acetone	50.0	38.8	J	ug/L		78	20 - 150	23	35
Methylene Chloride	10.0	9.16		ug/L		91	70 - 115	6	19
trans-1,2-Dichloroethene	10.0	10.6		ug/L		105	72 - 113	8	21
1,1-Dichloroethane	10.0	10.9		ug/L		109	70 - 135	7	20
2,2-Dichloropropane	10.0	11.7		ug/L		117	50 - 140	12	20
2-Butanone	50.0	42.3		ug/L		85	30 - 150	16	35
cis-1,2-Dichloroethene	10.0	10.7		ug/L		106	70 - 111	5	15
Bromochloromethane	10.0	10.5		ug/L		104	65 - 120	10	17
Chloroform	10.0	11.0		ug/L		110	80 - 119	8	15
1,1,1-Trichloroethane	10.0	11.0		ug/L		110	65 - 130	11	18
Carbon tetrachloride	10.0	10.5		ug/L		105	65 - 124	4	19
1,1-Dichloropropene	10.0	11.8		ug/L		118	75 - 120	5	20
Benzene	10.0	11.4		ug/L		113	80 - 120	4	14
1,2-Dichloroethane	10.0	10.7		ug/L		107	58 - 143	0	17
Trichloroethene	10.0	10.2		ug/L		102	70 - 125	1	23
1,2-Dichloropropane	10.0	10.9		ug/L		108	58 - 150	1	15
Dibromomethane	10.0	9.76		ug/L		97	61 - 142	1	15
Bromodichloromethane	10.0	10.2		ug/L		102	75 - 120	6	14
cis-1,3-Dichloropropene	10.0	11.1		ug/L		111	77 - 117	4	24
4-Methyl-2-pentanone	50.0	50.9		ug/L		102	20 - 150	9	30
Toluene	10.0	11.7		ug/L		117	75 - 120	4	19
trans-1,3-Dichloropropene	10.0	10.3		ug/L		103	73 - 122	1	30
1,1,2-Trichloroethane	10.0	10.1		ug/L		101	69 - 135	5	24
Tetrachloroethene	10.0	10.4		ug/L		104	70 - 124	2	20
1,3-Dichloropropane	10.0	10.9		ug/L		109	69 - 134	5	23
2-Hexanone	50.0	48.6		ug/L		97	20 - 150	16	30
Dibromochloromethane	10.0	10.1		ug/L		101	71 - 118	1	21
1,2-Dibromoethane	10.0	9.95		ug/L		99	66 - 133	6	17
Chlorobenzene	10.0	10.6		ug/L		106	80 - 120	1	15

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-228478/7
Matrix: Water
Analysis Batch: 228478

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	10.0	11.9		ug/L		118	75 - 119	3	14
1,1,1,2-Tetrachloroethane	10.0	10.7		ug/L		107	64 - 130	9	20
m-Xylene & p-Xylene	10.0	11.3		ug/L		112	75 - 119	3	14
o-Xylene	10.0	11.9		ug/L		119	74 - 120	9	16
Styrene	10.0	10.7		ug/L		107	76 - 116	4	16
Bromoform	10.0	9.42		ug/L		94	55 - 130	3	20
Isopropylbenzene	10.0	12.3		ug/L		122	75 - 125	9	20
Bromobenzene	10.0	10.3		ug/L		103	75 - 115	2	13
N-Propylbenzene	10.0	12.6	*	ug/L		126	70 - 124	6	13
1,1,2,2-Tetrachloroethane	10.0	10.9		ug/L		109	65 - 130	1	18
4-Chlorotoluene	10.0	10.3		ug/L		103	68 - 121	2	15
t-Butylbenzene	10.0	11.3		ug/L		113	70 - 121	7	14
1,2,4-Trimethylbenzene	10.0	11.8		ug/L		118	75 - 121	8	16
sec-Butylbenzene	10.0	12.2		ug/L		122	70 - 125	8	15
1,3-Dichlorobenzene	10.0	10.5		ug/L		105	72 - 116	3	14
4-Isopropyltoluene	10.0	11.8		ug/L		118	66 - 120	7	13
1,4-Dichlorobenzene	10.0	10.5		ug/L		105	75 - 117	1	17
n-Butylbenzene	10.0	10.5		ug/L		105	70 - 120	10	20
1,2-Dichlorobenzene	10.0	10.7		ug/L		107	70 - 120	4	15
1,2-Dibromo-3-Chloropropane	10.0	9.88	J *	ug/L		99	58 - 141	41	30
1,2,4-Trichlorobenzene	10.0	11.1		ug/L		110	56 - 129	12	22
1,2,3-Trichlorobenzene	10.0	11.2		ug/L		112	55 - 133	14	35
Hexachlorobutadiene	10.0	10.8		ug/L		107	56 - 125	14	19
Naphthalene	10.0	11.8		ug/L		118	55 - 134	6	30
Methyl tert-butyl ether	10.0	10.9		ug/L		108	65 - 125	6	18
1,2,3-Trichloropropane	10.0	10.2		ug/L		102	65 - 135	1	22
1,3,5-Trimethylbenzene	10.0	11.7		ug/L		117	75 - 122	6	14
2-Chlorotoluene	10.0	10.9		ug/L		109	69 - 125	10	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*82 - 122*
4-Bromofluorobenzene (Surr)	*97*		*75 - 125*
Dibromofluoromethane (Surr)	*102*		*77 - 118*
Trifluorotoluene (Surr)	*97*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*103*		*65 - 143*

Lab Sample ID: 580-62712-4MS
Matrix: Water
Analysis Batch: 228478

Client Sample ID: APT-1-0916
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	ND	*	10.0	12.9		ug/L		129	20 - 141
Chloromethane	ND		10.0	12.8		ug/L		128	40 - 149
Vinyl chloride	ND	F1 *	10.0	13.7	F1	ug/L		137	56 - 114
Bromomethane	ND		10.0	11.3		ug/L		113	55 - 125
Chloroethane	ND		10.0	11.1		ug/L		111	60 - 126
Trichlorofluoromethane	ND		10.0	11.1		ug/L		111	49 - 130
1,1-Dichloroethene	ND		10.1	11.5		ug/L		114	70 - 117

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-62712-4MS **Client Sample ID: APT-1-0916**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 228478

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	ND	F1	10.0	12.4	F1	ug/L		123	63 - 122
Acetone	ND		50.0	56.2		ug/L		112	20 - 150
Methylene Chloride	ND		10.0	10.5		ug/L		104	70 - 115
trans-1,2-Dichloroethene	ND		10.0	10.3		ug/L		103	72 - 113
1,1-Dichloroethane	ND		10.0	11.4		ug/L		114	70 - 135
2,2-Dichloropropane	ND		10.0	11.2		ug/L		112	50 - 140
2-Butanone	ND		50.0	38.8		ug/L		78	30 - 150
cis-1,2-Dichloroethene	ND		10.0	10.7		ug/L		107	70 - 111
Bromochloromethane	ND		10.0	10.2		ug/L		102	65 - 120
Chloroform	ND		10.0	11.9		ug/L		119	80 - 119
1,1,1-Trichloroethane	ND		10.0	11.8		ug/L		118	65 - 130
Carbon tetrachloride	ND		10.0	11.3		ug/L		113	65 - 124
1,1-Dichloropropene	ND	F1	10.0	12.2	F1	ug/L		122	75 - 120
Benzene	ND		10.0	12.1		ug/L		120	80 - 120
1,2-Dichloroethane	ND		10.0	11.1		ug/L		111	58 - 143
Trichloroethene	39	F1	10.0	52.9	F1	ug/L		143	70 - 125
1,2-Dichloropropane	ND		10.0	11.6		ug/L		116	58 - 150
Dibromomethane	ND		10.0	10.7		ug/L		107	61 - 142
Bromodichloromethane	ND		10.0	10.9		ug/L		109	75 - 120
cis-1,3-Dichloropropene	ND		10.0	11.2		ug/L		112	77 - 117
4-Methyl-2-pentanone	ND		50.0	59.3		ug/L		119	20 - 150
Toluene	ND	F1	10.0	12.9	F1	ug/L		121	75 - 120
trans-1,3-Dichloropropene	ND		10.0	11.2		ug/L		112	73 - 122
1,1,2-Trichloroethane	ND		10.0	11.0		ug/L		110	69 - 135
Tetrachloroethene	ND		10.0	11.0		ug/L		110	70 - 124
1,3-Dichloropropane	ND		10.0	11.9		ug/L		118	69 - 134
2-Hexanone	ND		50.0	62.4		ug/L		125	20 - 150
Dibromochloromethane	ND		10.0	10.8		ug/L		108	71 - 118
1,2-Dibromoethane	ND		10.0	10.6		ug/L		106	66 - 133
Chlorobenzene	ND		10.0	11.2		ug/L		111	80 - 120
Ethylbenzene	ND	F1	10.0	12.6	F1	ug/L		125	75 - 119
1,1,1,2-Tetrachloroethane	ND		10.0	10.6		ug/L		106	64 - 130
m-Xylene & p-Xylene	ND	F1	10.0	12.0	F1	ug/L		120	75 - 119
o-Xylene	ND		10.0	11.9		ug/L		118	74 - 120
Styrene	ND		10.0	11.2		ug/L		112	76 - 116
Bromoform	ND		10.0	10.2		ug/L		101	55 - 130
Isopropylbenzene	ND		10.0	12.1		ug/L		121	75 - 125
Bromobenzene	ND		10.0	10.8		ug/L		108	75 - 115
N-Propylbenzene	ND	F1 *	10.0	13.3	F1	ug/L		133	70 - 124
1,1,2,2-Tetrachloroethane	ND		10.0	12.4		ug/L		124	65 - 130
4-Chlorotoluene	ND		10.0	10.8		ug/L		108	68 - 121
t-Butylbenzene	ND		10.0	11.8		ug/L		118	70 - 121
1,2,4-Trimethylbenzene	ND		10.0	12.1		ug/L		121	75 - 121
sec-Butylbenzene	ND	F1	10.0	12.2		ug/L		122	70 - 125
1,3-Dichlorobenzene	ND		10.0	11.2		ug/L		112	72 - 116
4-Isopropyltoluene	ND		10.0	12.0		ug/L		120	66 - 120
1,4-Dichlorobenzene	ND	F1	10.0	11.8	F1	ug/L		118	75 - 117
n-Butylbenzene	ND		10.0	10.4		ug/L		104	70 - 120

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-62712-4MS **Client Sample ID: APT-1-0916**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 228478

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		10.0	10.9		ug/L		109	70 - 120
1,2-Dibromo-3-Chloropropane	ND	*	10.0	10.6		ug/L		106	58 - 141
1,2,4-Trichlorobenzene	ND		10.0	10.1		ug/L		101	56 - 129
1,2,3-Trichlorobenzene	ND		10.0	10.3		ug/L		103	55 - 133
Hexachlorobutadiene	ND		10.0	7.76		ug/L		78	56 - 125
Naphthalene	ND		10.0	11.9		ug/L		119	55 - 134
Methyl tert-butyl ether	ND		10.0	11.4		ug/L		114	65 - 125
1,2,3-Trichloropropane	ND		10.0	8.21		ug/L		82	65 - 135
1,3,5-Trimethylbenzene	ND		10.0	12.2		ug/L		122	75 - 122
2-Chlorotoluene	ND		10.0	10.9		ug/L		109	69 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*82 - 122*
4-Bromofluorobenzene (Surr)	*101*		*75 - 125*
Dibromofluoromethane (Surr)	*96*		*77 - 118*
Trifluorotoluene (Surr)	*95*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 143*

Lab Sample ID: 580-62712-4MSD **Client Sample ID: APT-1-0916**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 228478

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	ND	*	10.0	11.2		ug/L		112	20 - 141	15	35
Chloromethane	ND		10.0	12.6		ug/L		126	40 - 149	2	35
Vinyl chloride	ND	F1 *	10.0	13.9	F1	ug/L		139	56 - 114	1	35
Bromomethane	ND		10.0	10.4		ug/L		104	55 - 125	8	35
Chloroethane	ND		10.0	10.7		ug/L		107	60 - 126	4	35
Trichlorofluoromethane	ND		10.0	11.3		ug/L		113	49 - 130	2	35
1,1-Dichloroethene	ND		10.1	10.8		ug/L		107	70 - 117	6	35
Carbon disulfide	ND	F1	10.0	12.4	F1	ug/L		124	63 - 122	0	35
Acetone	ND		50.0	54.8		ug/L		110	20 - 150	2	35
Methylene Chloride	ND		10.0	10.3		ug/L		102	70 - 115	2	35
trans-1,2-Dichloroethene	ND		10.0	10.5		ug/L		105	72 - 113	2	35
1,1-Dichloroethane	ND		10.0	11.6		ug/L		116	70 - 135	2	35
2,2-Dichloropropane	ND		10.0	11.4		ug/L		114	50 - 140	2	35
2-Butanone	ND		50.0	49.5		ug/L		99	30 - 150	24	35
cis-1,2-Dichloroethene	ND		10.0	10.6		ug/L		105	70 - 111	1	35
Bromochloromethane	ND		10.0	10.4		ug/L		104	65 - 120	2	35
Chloroform	ND		10.0	11.7		ug/L		117	80 - 119	2	35
1,1,1-Trichloroethane	ND		10.0	11.4		ug/L		113	65 - 130	4	35
Carbon tetrachloride	ND		10.0	11.0		ug/L		110	65 - 124	3	35
1,1-Dichloropropene	ND	F1	10.0	12.3	F1	ug/L		123	75 - 120	1	35
Benzene	ND		10.0	11.6		ug/L		115	80 - 120	4	35
1,2-Dichloroethane	ND		10.0	11.8		ug/L		118	58 - 143	6	35
Trichloroethene	39	F1	10.0	50.3		ug/L		118	70 - 125	5	35
1,2-Dichloropropane	ND		10.0	10.9		ug/L		109	58 - 150	7	35
Dibromomethane	ND		10.0	10.7		ug/L		106	61 - 142	1	35

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 580-62712-4MSD **Client Sample ID: APT-1-0916**
Matrix: Water **Prep Type: Total/NA**
Analysis Batch: 228478

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromodichloromethane	ND		10.0	11.0		ug/L		110	75 - 120	1	35
cis-1,3-Dichloropropene	ND		10.0	11.4		ug/L		113	77 - 117	2	35
4-Methyl-2-pentanone	ND		50.0	56.9		ug/L		114	20 - 150	4	35
Toluene	ND	F1	10.0	12.9	F1	ug/L		121	75 - 120	0	35
trans-1,3-Dichloropropene	ND		10.0	11.5		ug/L		115	73 - 122	3	35
1,1,2-Trichloroethane	ND		10.0	10.6		ug/L		106	69 - 135	4	35
Tetrachloroethene	ND		10.0	11.0		ug/L		110	70 - 124	0	35
1,3-Dichloropropane	ND		10.0	12.0		ug/L		120	69 - 134	1	35
2-Hexanone	ND		50.0	57.5		ug/L		115	20 - 150	8	35
Dibromochloromethane	ND		10.0	11.1		ug/L		110	71 - 118	2	35
1,2-Dibromoethane	ND		10.0	11.0		ug/L		110	66 - 133	4	35
Chlorobenzene	ND		10.0	11.2		ug/L		112	80 - 120	1	35
Ethylbenzene	ND	F1	10.0	12.3	F1	ug/L		123	75 - 119	2	35
1,1,1,2-Tetrachloroethane	ND		10.0	10.6		ug/L		106	64 - 130	0	35
m-Xylene & p-Xylene	ND	F1	10.0	12.2	F1	ug/L		122	75 - 119	2	35
o-Xylene	ND		10.0	11.9		ug/L		119	74 - 120	0	35
Styrene	ND		10.0	10.9		ug/L		109	76 - 116	3	35
Bromoform	ND		10.0	9.98		ug/L		100	55 - 130	2	35
Isopropylbenzene	ND		10.0	12.3		ug/L		123	75 - 125	2	35
Bromobenzene	ND		10.0	10.8		ug/L		108	75 - 115	0	35
N-Propylbenzene	ND	F1 *	10.0	13.1	F1	ug/L		131	70 - 124	2	35
1,1,2,2-Tetrachloroethane	ND		10.0	12.1		ug/L		121	65 - 130	3	35
4-Chlorotoluene	ND		10.0	10.7		ug/L		107	68 - 121	1	35
t-Butylbenzene	ND		10.0	11.7		ug/L		117	70 - 121	1	35
1,2,4-Trimethylbenzene	ND		10.0	12.0		ug/L		120	75 - 121	1	35
sec-Butylbenzene	ND	F1	10.0	12.7	F1	ug/L		127	70 - 125	4	35
1,3-Dichlorobenzene	ND		10.0	11.1		ug/L		110	72 - 116	2	35
4-Isopropyltoluene	ND		10.0	12.0		ug/L		120	66 - 120	0	35
1,4-Dichlorobenzene	ND	F1	10.0	11.5		ug/L		114	75 - 117	3	35
n-Butylbenzene	ND		10.0	10.1		ug/L		100	70 - 120	3	35
1,2-Dichlorobenzene	ND		10.0	11.2		ug/L		112	70 - 120	2	35
1,2-Dibromo-3-Chloropropane	ND	*	10.0	10.8		ug/L		107	58 - 141	2	35
1,2,4-Trichlorobenzene	ND		10.0	10.7		ug/L		107	56 - 129	6	35
1,2,3-Trichlorobenzene	ND		10.0	10.7		ug/L		107	55 - 133	4	35
Hexachlorobutadiene	ND		10.0	10.2		ug/L		102	56 - 125	28	35
Naphthalene	ND		10.0	12.4		ug/L		124	55 - 134	5	35
Methyl tert-butyl ether	ND		10.0	11.8		ug/L		118	65 - 125	3	35
1,2,3-Trichloropropane	ND		10.0	10.9		ug/L		109	65 - 135	28	35
1,3,5-Trimethylbenzene	ND		10.0	12.0		ug/L		120	75 - 122	2	35
2-Chlorotoluene	ND		10.0	10.6		ug/L		106	69 - 125	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*82 - 122*
4-Bromofluorobenzene (Surr)	*97*		*75 - 125*
Dibromofluoromethane (Surr)	*95*		*77 - 118*
Trifluorotoluene (Surr)	*90*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*105*		*65 - 143*

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-228351/1-A
Matrix: Water
Analysis Batch: 228682

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 228351

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
1,2-Dichlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
1,3-Dichlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
1,4-Dichlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
1-Methylnaphthalene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 14:54	1
2,4,5-Trichlorophenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
2,4,6-Trichlorophenol	ND		0.60		ug/L		09/26/16 15:04	09/29/16 14:54	1
2,4-Dichlorophenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/26/16 15:04	09/29/16 14:54	1
2,4-Dinitrophenol	ND		5.0		ug/L		09/26/16 15:04	09/29/16 14:54	1
2,4-Dinitrotoluene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
2,6-Dinitrotoluene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
2-Chloronaphthalene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 14:54	1
2-Chlorophenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
2-Methylnaphthalene	ND		0.20		ug/L		09/26/16 15:04	09/29/16 14:54	1
2-Methylphenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
2-Nitroaniline	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
2-Nitrophenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
3 & 4 Methylphenol	ND		0.80		ug/L		09/26/16 15:04	09/29/16 14:54	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/26/16 15:04	09/29/16 14:54	1
3-Nitroaniline	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
4,6-Dinitro-2-methylphenol	ND		4.0		ug/L		09/26/16 15:04	09/29/16 14:54	1
4-Bromophenyl phenyl ether	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
4-Chloro-3-methylphenol	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
4-Chloroaniline	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
4-Chlorophenyl phenyl ether	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
4-Nitroaniline	ND		0.60		ug/L		09/26/16 15:04	09/29/16 14:54	1
4-Nitrophenol	ND		3.0		ug/L		09/26/16 15:04	09/29/16 14:54	1
Acenaphthene	ND		0.10		ug/L		09/26/16 15:04	09/29/16 14:54	1
Acenaphthylene	ND		0.080		ug/L		09/26/16 15:04	09/29/16 14:54	1
Anthracene	ND		0.040		ug/L		09/26/16 15:04	09/29/16 14:54	1
Benzo[a]anthracene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 14:54	1
Benzo[a]pyrene	ND		0.040		ug/L		09/26/16 15:04	09/29/16 14:54	1
Benzo[b]fluoranthene	ND		0.080		ug/L		09/26/16 15:04	09/29/16 14:54	1
Benzo[g,h,i]perylene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 14:54	1
Benzo[k]fluoranthene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 14:54	1
Benzoic acid	ND		3.0		ug/L		09/26/16 15:04	09/29/16 14:54	1
Benzyl alcohol	0.585		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
Bis(2-chloroethoxy)methane	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
Bis(2-chloroethyl)ether	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
Bis(2-ethylhexyl) phthalate	ND		3.0		ug/L		09/26/16 15:04	09/29/16 14:54	1
bis(chloroisopropyl) ether	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
Butyl benzyl phthalate	ND		0.60		ug/L		09/26/16 15:04	09/29/16 14:54	1
Carbazole	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
Chrysene	ND		0.040		ug/L		09/26/16 15:04	09/29/16 14:54	1
Dibenz(a,h)anthracene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 14:54	1
Dibenzofuran	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
Diethyl phthalate	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-228351/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228682 — **Prep Batch: 228351**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dimethyl phthalate	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
Di-n-butyl phthalate	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
Di-n-octyl phthalate	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
Fluoranthene	ND		0.050		ug/L		09/26/16 15:04	09/29/16 14:54	1
Fluorene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 14:54	1
Hexachlorobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
Hexachlorobutadiene	ND		0.60		ug/L		09/26/16 15:04	09/29/16 14:54	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/26/16 15:04	09/29/16 14:54	1
Hexachloroethane	ND		0.60		ug/L		09/26/16 15:04	09/29/16 14:54	1
Indeno[1,2,3-cd]pyrene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 14:54	1
Isophorone	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
Naphthalene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
Nitrobenzene	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
N-Nitrosodi-n-propylamine	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
N-Nitrosodiphenylamine	ND		0.40		ug/L		09/26/16 15:04	09/29/16 14:54	1
Pentachlorophenol	ND		0.70		ug/L		09/26/16 15:04	09/29/16 14:54	1
Phenanthrene	ND		0.080		ug/L		09/26/16 15:04	09/29/16 14:54	1
Phenol	ND		0.60		ug/L		09/26/16 15:04	09/29/16 14:54	1
Pyrene	ND		0.060		ug/L		09/26/16 15:04	09/29/16 14:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*57 - 132*	*09/26/16 15:04*	*09/29/16 14:54*	*1*
2-Fluorobiphenyl	*80*		*50 - 120*	*09/26/16 15:04*	*09/29/16 14:54*	*1*
2-Fluorophenol (Surr)	*85*		*50 - 113*	*09/26/16 15:04*	*09/29/16 14:54*	*1*
Nitrobenzene-d5 (Surr)	*89*		*59 - 120*	*09/26/16 15:04*	*09/29/16 14:54*	*1*
Phenol-d5 (Surr)	*85*		*52 - 120*	*09/26/16 15:04*	*09/29/16 14:54*	*1*
Terphenyl-d14 (Surr)	*95*		*72 - 140*	*09/26/16 15:04*	*09/29/16 14:54*	*1*

Lab Sample ID: MB 580-228351/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228822 — **Prep Batch: 228351**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzyl alcohol	0.796		0.40		ug/L		09/26/16 15:04	10/01/16 18:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*57 - 132*	*09/26/16 15:04*	*10/01/16 18:57*	*1*
2-Fluorobiphenyl	*81*		*50 - 120*	*09/26/16 15:04*	*10/01/16 18:57*	*1*
2-Fluorophenol (Surr)	*83*		*50 - 113*	*09/26/16 15:04*	*10/01/16 18:57*	*1*
Nitrobenzene-d5 (Surr)	*83*		*59 - 120*	*09/26/16 15:04*	*10/01/16 18:57*	*1*
Phenol-d5 (Surr)	*86*		*52 - 120*	*09/26/16 15:04*	*10/01/16 18:57*	*1*
Terphenyl-d14 (Surr)	*97*		*72 - 140*	*09/26/16 15:04*	*10/01/16 18:57*	*1*

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

16-Dec-16
TestAmerica Job ID: 580-62712-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-228351/2-A
Matrix: Water
Analysis Batch: 228682

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228351

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	2.00	1.73		ug/L		87	40 - 115
1,2-Dichlorobenzene	2.00	1.93		ug/L		97	44 - 119
1,3-Dichlorobenzene	2.00	1.67		ug/L		84	34 - 116
1,4-Dichlorobenzene	2.00	1.63		ug/L		81	40 - 118
1-Methylnaphthalene	2.00	1.73		ug/L		86	54 - 119
2,4,5-Trichlorophenol	2.00	1.82		ug/L		91	56 - 122
2,4,6-Trichlorophenol	2.00	1.66		ug/L		83	55 - 134
2,4-Dichlorophenol	2.00	1.94		ug/L		97	50 - 125
2,4-Dimethylphenol	2.00	1.08	J	ug/L		54	20 - 106
2,4-Dinitrophenol	4.00	1.76	J	ug/L		44	24 - 139
2,4-Dinitrotoluene	2.00	1.76		ug/L		88	40 - 143
2,6-Dinitrotoluene	2.00	1.88		ug/L		94	45 - 134
2-Chloronaphthalene	2.00	1.73		ug/L		86	55 - 125
2-Chlorophenol	2.00	1.99		ug/L		99	57 - 125
2-Methylnaphthalene	2.00	1.75		ug/L		88	56 - 117
2-Methylphenol	2.00	1.79		ug/L		90	53 - 118
2-Nitroaniline	2.00	1.83		ug/L		92	58 - 124
2-Nitrophenol	2.00	1.39		ug/L		69	20 - 150
3 & 4 Methylphenol	2.00	1.88		ug/L		94	54 - 112
3,3'-Dichlorobenzidine	4.00	0.434	J *	ug/L		11	20 - 121
3-Nitroaniline	2.00	0.710		ug/L		35	22 - 124
4,6-Dinitro-2-methylphenol	4.00	1.95	J	ug/L		49	20 - 150
4-Bromophenyl phenyl ether	2.00	1.88		ug/L		94	62 - 132
4-Chloro-3-methylphenol	2.00	1.76		ug/L		88	56 - 133
4-Chloroaniline	2.00	ND	*	ug/L		2	20 - 110
4-Chlorophenyl phenyl ether	2.00	1.86		ug/L		93	59 - 125
4-Nitroaniline	2.00	1.31		ug/L		65	40 - 118
4-Nitrophenol	4.00	3.78		ug/L		95	20 - 150
Acenaphthene	2.00	1.78		ug/L		89	55 - 113
Acenaphthylene	2.00	1.40		ug/L		70	24 - 135
Anthracene	2.00	1.25		ug/L		63	20 - 125
Benzo[a]anthracene	2.00	1.77		ug/L		88	49 - 115
Benzo[a]pyrene	2.00	1.34		ug/L		67	20 - 115
Benzo[b]fluoranthene	2.00	2.36		ug/L		118	63 - 129
Benzo[g,h,i]perylene	2.00	2.25		ug/L		112	58 - 127
Benzo[k]fluoranthene	2.00	2.22		ug/L		111	60 - 134
Benzoic acid	4.00	3.68		ug/L		92	20 - 150
Benzyl alcohol	2.00	1.98		ug/L		99	52 - 124
Bis(2-chloroethoxy)methane	2.00	2.04		ug/L		102	59 - 125
Bis(2-chloroethyl)ether	2.00	1.98		ug/L		99	55 - 125
Bis(2-ethylhexyl) phthalate	2.00	2.18	J	ug/L		109	22 - 150
bis(chloroisopropyl) ether	2.00	2.43		ug/L		121	44 - 123
Butyl benzyl phthalate	2.00	2.37		ug/L		119	46 - 150
Carbazole	2.00	1.94		ug/L		97	68 - 142
Chrysene	2.00	1.92		ug/L		96	57 - 131
Dibenz(a,h)anthracene	2.00	2.06		ug/L		103	56 - 124
Dibenzofuran	2.00	1.86		ug/L		93	60 - 125
Diethyl phthalate	2.00	1.97		ug/L		99	60 - 134

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

16-Dec-16
TestAmerica Job ID: 580-62712-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-228351/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228682 — **Prep Batch: 228351**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dimethyl phthalate	2.00	1.93		ug/L		96	65 - 134
Di-n-butyl phthalate	2.00	2.17		ug/L		108	67 - 140
Di-n-octyl phthalate	2.00	2.37		ug/L		118	55 - 150
Fluoranthene	2.00	1.97		ug/L		99	70 - 135
Fluorene	2.00	1.85		ug/L		92	57 - 125
Hexachlorobenzene	2.00	1.75		ug/L		87	55 - 135
Hexachlorobutadiene	2.00	1.63		ug/L		82	25 - 125
Hexachlorocyclopentadiene	2.00	0.362	J *	ug/L		18	20 - 110
Hexachloroethane	2.00	1.61		ug/L		80	24 - 125
Indeno[1,2,3-cd]pyrene	2.00	2.05		ug/L		103	54 - 124
Isophorone	2.00	2.00		ug/L		100	64 - 125
Naphthalene	2.00	1.79		ug/L		89	56 - 119
Nitrobenzene	2.00	2.01		ug/L		101	62 - 125
N-Nitrosodi-n-propylamine	2.00	1.83		ug/L		91	54 - 120
N-Nitrosodiphenylamine	2.00	1.38		ug/L		69	40 - 124
Pentachlorophenol	4.00	2.82		ug/L		71	30 - 122
Phenanthrene	2.00	1.91		ug/L		96	57 - 125
Phenol	2.00	1.84		ug/L		92	53 - 113
Pyrene	2.00	2.11		ug/L		105	64 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*80*		*57 - 132*
2-Fluorobiphenyl	*81*		*50 - 120*
2-Fluorophenol (Surr)	*94*		*50 - 113*
Nitrobenzene-d5 (Surr)	*89*		*59 - 120*
Phenol-d5 (Surr)	*90*		*52 - 120*
Terphenyl-d14 (Surr)	*93*		*72 - 140*

Lab Sample ID: 580-62712-4MS — **Client Sample ID: APT-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228682 — **Prep Batch: 228351**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	ND		1.92	1.40		ug/L		73	40 - 115
1,2-Dichlorobenzene	ND		1.92	1.51		ug/L		79	44 - 119
1,3-Dichlorobenzene	ND		1.92	1.26		ug/L		66	34 - 116
1,4-Dichlorobenzene	ND		1.92	1.34		ug/L		69	40 - 118
1-Methylnaphthalene	ND		1.92	1.58		ug/L		82	54 - 119
2,4,5-Trichlorophenol	ND		1.92	1.95		ug/L		101	56 - 122
2,4,6-Trichlorophenol	ND		1.92	1.92		ug/L		100	55 - 134
2,4-Dichlorophenol	ND		1.92	1.88		ug/L		98	50 - 125
2,4-Dimethylphenol	ND		1.92	ND		ug/L		80	20 - 106
2,4-Dinitrophenol	ND		3.85	ND		ug/L		80	24 - 139
2,4-Dinitrotoluene	ND		1.92	1.87		ug/L		97	40 - 143
2,6-Dinitrotoluene	ND		1.92	1.96		ug/L		102	45 - 134
2-Chloronaphthalene	ND		1.92	1.61		ug/L		83	55 - 125
2-Chlorophenol	ND		1.92	1.79		ug/L		93	57 - 125
2-Methylnaphthalene	ND		1.92	1.60		ug/L		83	56 - 117

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

16-Dec-16
TestAmerica Job ID: 580-62712-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-62712-4MS | **Client Sample ID: APT-1-0916**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 228682 | **Prep Batch: 228351**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	ND		1.92	1.70		ug/L		88	53 - 118
2-Nitroaniline	ND		1.92	1.83		ug/L		95	58 - 124
2-Nitrophenol	ND		1.92	1.59		ug/L		83	20 - 150
3 & 4 Methylphenol	ND		1.92	1.78		ug/L		93	54 - 112
3,3'-Dichlorobenzidine	ND	* F1	3.85	ND	F1	ug/L		5	20 - 121
3-Nitroaniline	ND	F2	1.92	1.06		ug/L		55	22 - 124
4,6-Dinitro-2-methylphenol	ND		3.85	ND		ug/L		90	20 - 150
4-Bromophenyl phenyl ether	ND		1.92	1.95		ug/L		101	62 - 132
4-Chloro-3-methylphenol	ND		1.92	1.84		ug/L		96	56 - 133
4-Chloroaniline	ND	* F1	1.92	ND	F1	ug/L		17	20 - 110
4-Chlorophenyl phenyl ether	ND		1.92	1.76		ug/L		91	59 - 125
4-Nitroaniline	ND	*	1.92	0.926		ug/L		48	40 - 118
4-Nitrophenol	ND		3.85	4.17		ug/L		108	20 - 150
Acenaphthene	ND		1.92	1.69		ug/L		88	55 - 113
Acenaphthylene	ND		1.92	1.44		ug/L		75	24 - 135
Anthracene	ND		1.92	1.49		ug/L		77	20 - 125
Benzo[a]anthracene	ND		1.92	1.87		ug/L		97	49 - 115
Benzo[a]pyrene	ND		1.92	1.67		ug/L		87	20 - 115
Benzo[b]fluoranthene	ND		1.92	2.04		ug/L		106	63 - 129
Benzo[g,h,i]perylene	ND		1.92	2.02		ug/L		105	58 - 127
Benzo[k]fluoranthene	ND		1.92	1.96		ug/L		102	60 - 134
Benzoic acid	ND		3.85	4.83		ug/L		100	20 - 150
Benzyl alcohol	0.65	B *	1.92	1.89		ug/L		64	52 - 124
Bis(2-chloroethoxy)methane	ND		1.92	1.85		ug/L		96	59 - 125
Bis(2-chloroethyl)ether	ND		1.92	1.67		ug/L		87	55 - 125
Bis(2-ethylhexyl) phthalate	ND	F2 F1 *	1.92	5.54	F1	ug/L		288	22 - 150
bis(chloroisopropyl) ether	ND	*	1.92	2.25		ug/L		117	44 - 123
Butyl benzyl phthalate	0.69	B	1.92	2.54		ug/L		96	46 - 150
Carbazole	ND		1.92	2.05		ug/L		107	68 - 142
Chrysene	ND		1.92	1.85		ug/L		96	57 - 131
Dibenz(a,h)anthracene	ND		1.92	1.93		ug/L		100	56 - 124
Dibenzofuran	ND		1.92	1.73		ug/L		90	60 - 125
Diethyl phthalate	ND		1.92	2.03		ug/L		98	60 - 134
Dimethyl phthalate	ND		1.92	1.93		ug/L		100	65 - 134
Di-n-butyl phthalate	ND		1.92	2.17		ug/L		96	67 - 140
Di-n-octyl phthalate	ND		1.92	2.37		ug/L		123	55 - 150
Fluoranthene	ND		1.92	1.80		ug/L		94	70 - 135
Fluorene	ND		1.92	1.85		ug/L		96	57 - 125
Hexachlorobenzene	ND		1.92	1.80		ug/L		94	55 - 135
Hexachlorobutadiene	ND		1.92	1.14		ug/L		59	25 - 125
Hexachlorocyclopentadiene	ND	*	1.92	ND		ug/L		23	20 - 110
Hexachloroethane	ND		1.92	1.22		ug/L		63	24 - 125
Indeno[1,2,3-cd]pyrene	ND		1.92	1.90		ug/L		99	54 - 124
Isophorone	ND		1.92	1.76		ug/L		91	64 - 125
Naphthalene	ND		1.92	1.64		ug/L		85	56 - 119
Nitrobenzene	ND		1.92	1.79		ug/L		93	62 - 125
N-Nitrosodi-n-propylamine	ND		1.92	1.54		ug/L		80	54 - 120
N-Nitrosodiphenylamine	ND	F1	1.92	0.687	F1	ug/L		36	40 - 124

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-62712-4MS — **Client Sample ID: APT-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228682 — **Prep Batch: 228351**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Pentachlorophenol	ND		3.85	3.52		ug/L		92	30 - 122
Phenanthrene	ND		1.92	1.98		ug/L		103	57 - 125
Phenol	ND		1.92	1.72		ug/L		77	53 - 113
Pyrene	ND		1.92	1.85		ug/L		96	64 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*95*		*57 - 132*
2-Fluorobiphenyl	*80*		*50 - 120*
2-Fluorophenol (Surr)	*88*		*50 - 113*
Nitrobenzene-d5 (Surr)	*87*		*59 - 120*
Phenol-d5 (Surr)	*83*		*52 - 120*
Terphenyl-d14 (Surr)	*87*		*72 - 140*

Lab Sample ID: 580-62712-4MSD — **Client Sample ID: APT-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 228682 — **Prep Batch: 228351**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	ND		1.97	1.47		ug/L		75	40 - 115	5	35
1,2-Dichlorobenzene	ND		1.97	1.63		ug/L		83	44 - 119	7	35
1,3-Dichlorobenzene	ND		1.97	1.38		ug/L		70	34 - 116	9	35
1,4-Dichlorobenzene	ND		1.97	1.41		ug/L		71	40 - 118	5	35
1-Methylnaphthalene	ND		1.97	1.61		ug/L		82	54 - 119	2	35
2,4,5-Trichlorophenol	ND		1.97	1.83		ug/L		93	56 - 122	6	35
2,4,6-Trichlorophenol	ND		1.97	1.87		ug/L		95	55 - 134	3	35
2,4-Dichlorophenol	ND		1.97	1.90		ug/L		96	50 - 125	1	35
2,4-Dimethylphenol	ND		1.97	ND		ug/L		81	20 - 106	3	35
2,4-Dinitrophenol	ND		3.94	ND		ug/L		81	24 - 139	4	35
2,4-Dinitrotoluene	ND		1.97	1.75		ug/L		89	40 - 143	7	35
2,6-Dinitrotoluene	ND		1.97	1.86		ug/L		94	45 - 134	5	35
2-Chloronaphthalene	ND		1.97	1.60		ug/L		81	55 - 125	1	35
2-Chlorophenol	ND		1.97	1.84		ug/L		94	57 - 125	3	35
2-Methylnaphthalene	ND		1.97	1.65		ug/L		84	56 - 117	3	35
2-Methylphenol	ND		1.97	1.79		ug/L		91	53 - 118	5	35
2-Nitroaniline	ND		1.97	1.90		ug/L		97	58 - 124	4	35
2-Nitrophenol	ND		1.97	1.60		ug/L		81	20 - 150	0	35
3 & 4 Methylphenol	ND		1.97	1.81		ug/L		92	54 - 112	1	35
3,3'-Dichlorobenzidine	ND	* F1	3.94	ND	F1	ug/L		0	20 - 121	NC	35
3-Nitroaniline	ND	F2	1.97	0.701	F2	ug/L		36	22 - 124	40	35
4,6-Dinitro-2-methylphenol	ND		3.94	ND		ug/L		94	20 - 150	6	35
4-Bromophenyl phenyl ether	ND		1.97	1.86		ug/L		95	62 - 132	5	35
4-Chloro-3-methylphenol	ND		1.97	1.77		ug/L		90	56 - 133	4	35
4-Chloroaniline	ND	* F1	1.97	ND	F1	ug/L		0	20 - 110	NC	35
4-Chlorophenyl phenyl ether	ND		1.97	1.70		ug/L		86	59 - 125	3	35
4-Nitroaniline	ND	*	1.97	1.19		ug/L		60	40 - 118	25	35
4-Nitrophenol	ND		3.94	3.97		ug/L		101	20 - 150	5	35
Acenaphthene	ND		1.97	1.64		ug/L		83	55 - 113	3	35
Acenaphthylene	ND		1.97	1.46		ug/L		74	24 - 135	1	35

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 580-62712-4MSD | **Client Sample ID: APT-1-0916**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 228682 | **Prep Batch: 228351**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	ND		1.97	1.43		ug/L		73	20 - 125	4	35
Benzo[a]anthracene	ND		1.97	1.74		ug/L		88	49 - 115	7	35
Benzo[a]pyrene	ND		1.97	1.59		ug/L		81	20 - 115	5	35
Benzo[b]fluoranthene	ND		1.97	1.95		ug/L		99	63 - 129	5	35
Benzo[g,h,i]perylene	ND		1.97	1.83		ug/L		93	58 - 127	10	35
Benzo[k]fluoranthene	ND		1.97	1.93		ug/L		98	60 - 134	2	35
Benzoic acid	ND		3.94	4.92		ug/L		100	20 - 150	2	35
Benzyl alcohol	0.65	B *	1.97	2.04		ug/L		71	52 - 124	8	35
Bis(2-chloroethoxy)methane	ND		1.97	1.94		ug/L		99	59 - 125	5	35
Bis(2-chloroethyl)ether	ND		1.97	1.79		ug/L		91	55 - 125	7	35
Bis(2-ethylhexyl) phthalate	ND	F2 F1 *	1.97	3.07	F1 F2	ug/L		156	22 - 150	57	35
bis(chloroisopropyl) ether	ND	*	1.97	2.36		ug/L		120	44 - 123	4	35
Butyl benzyl phthalate	0.69	B	1.97	2.50		ug/L		92	46 - 150	1	35
Carbazole	ND		1.97	1.96		ug/L		100	68 - 142	4	35
Chrysene	ND		1.97	1.82		ug/L		92	57 - 131	2	35
Dibenz(a,h)anthracene	ND		1.97	1.73		ug/L		88	56 - 124	11	35
Dibenzofuran	ND		1.97	1.63		ug/L		83	60 - 125	6	35
Diethyl phthalate	ND		1.97	1.97		ug/L		92	60 - 134	3	35
Dimethyl phthalate	ND		1.97	1.85		ug/L		94	65 - 134	4	35
Di-n-butyl phthalate	ND		1.97	2.12		ug/L		91	67 - 140	2	35
Di-n-octyl phthalate	ND		1.97	2.16		ug/L		110	55 - 150	9	35
Fluoranthene	ND		1.97	1.74		ug/L		88	70 - 135	4	35
Fluorene	ND		1.97	1.79		ug/L		91	57 - 125	4	35
Hexachlorobenzene	ND		1.97	1.76		ug/L		89	55 - 135	2	35
Hexachlorobutadiene	ND		1.97	1.23		ug/L		62	25 - 125	8	35
Hexachlorocyclopentadiene	ND	*	1.97	ND		ug/L		31	20 - 110	34	35
Hexachloroethane	ND		1.97	1.32		ug/L		67	24 - 125	9	35
Indeno[1,2,3-cd]pyrene	ND		1.97	2.11		ug/L		107	54 - 124	10	35
Isophorone	ND		1.97	1.85		ug/L		94	64 - 125	5	35
Naphthalene	ND		1.97	1.66		ug/L		84	56 - 119	2	35
Nitrobenzene	ND		1.97	1.85		ug/L		94	62 - 125	3	35
N-Nitrosodi-n-propylamine	ND		1.97	1.69		ug/L		86	54 - 120	9	35
N-Nitrosodiphenylamine	ND	F1	1.97	0.792		ug/L		40	40 - 124	14	35
Pentachlorophenol	ND		3.94	3.34		ug/L		85	30 - 122	5	35
Phenanthrene	ND		1.97	1.86		ug/L		95	57 - 125	6	35
Phenol	ND		1.97	1.82		ug/L		81	53 - 113	6	35
Pyrene	ND		1.97	1.77		ug/L		90	64 - 128	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*95*		*57 - 132*
2-Fluorobiphenyl	*77*		*50 - 120*
2-Fluorophenol (Surr)	*91*		*50 - 113*
Nitrobenzene-d5 (Surr)	*91*		*59 - 120*
Phenol-d5 (Surr)	*87*		*52 - 120*
Terphenyl-d14 (Surr)	*83*		*72 - 140*

Lab Chronicle

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: MW-39A-0916 — Lab Sample ID: 580-62712-1

Date Collected: 09/19/16 10:31 — **Matrix: Water**
Date Received: 09/22/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228478	09/27/16 20:22	TL1	TAL SEA
Total/NA	Prep	3520C			228351	09/26/16 15:04	JDR	TAL SEA
Total/NA	Analysis	8270D		1	228682	09/29/16 16:09	D1R	TAL SEA

Client Sample ID: MW-39B-0916 — Lab Sample ID: 580-62712-2

Date Collected: 09/19/16 12:42 — **Matrix: Water**
Date Received: 09/22/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228478	09/27/16 20:48	TL1	TAL SEA
Total/NA	Prep	3520C	DL		228351	09/26/16 15:04	JDR	TAL SEA
Total/NA	Analysis	8270D	DL	5	228822	10/01/16 19:47	D1R	TAL SEA
Total/NA	Prep	3520C			228351	09/26/16 15:04	JDR	TAL SEA
Total/NA	Analysis	8270D		1	228682	09/29/16 16:34	D1R	TAL SEA

Client Sample ID: MW-62A-0916 — Lab Sample ID: 580-62712-3

Date Collected: 09/19/16 15:03 — **Matrix: Water**
Date Received: 09/22/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228478	09/27/16 21:14	TL1	TAL SEA
Total/NA	Prep	3520C	DL		228351	09/26/16 15:04	JDR	TAL SEA
Total/NA	Analysis	8270D	DL	5	228822	10/01/16 20:37	D1R	TAL SEA
Total/NA	Prep	3520C			228351	09/26/16 15:04	JDR	TAL SEA
Total/NA	Analysis	8270D		1	228682	09/29/16 16:59	D1R	TAL SEA

Client Sample ID: APT-1-0916 — Lab Sample ID: 580-62712-4

Date Collected: 09/20/16 10:32 — **Matrix: Water**
Date Received: 09/22/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228478	09/27/16 22:34	TL1	TAL SEA
Total/NA	Prep	3520C	DL		228351	09/26/16 15:04	JDR	TAL SEA
Total/NA	Analysis	8270D	DL	5	228822	10/01/16 21:27	D1R	TAL SEA
Total/NA	Prep	3520C			228351	09/26/16 15:04	JDR	TAL SEA
Total/NA	Analysis	8270D		1	228682	09/29/16 17:24	D1R	TAL SEA

Lab Chronicle

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Client Sample ID: APT-9-0916 — Lab Sample ID: 580-62712-5

Date Collected: 09/20/16 10:32 — **Matrix: Water**
Date Received: 09/22/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228478	09/27/16 21:41	TL1	TAL SEA
Total/NA	Prep	3520C			228351	09/26/16 15:04	JDR	TAL SEA
Total/NA	Analysis	8270D		1	228682	09/29/16 18:40	D1R	TAL SEA

Client Sample ID: APT-3-0916 — Lab Sample ID: 580-62712-6

Date Collected: 09/20/16 12:10 — **Matrix: Water**
Date Received: 09/22/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228478	09/27/16 22:07	TL1	TAL SEA
Total/NA	Prep	3520C			228351	09/26/16 15:04	JDR	TAL SEA
Total/NA	Analysis	8270D		1	228682	09/29/16 19:05	D1R	TAL SEA

Client Sample ID: TB-07-0916 — Lab Sample ID: 580-62712-7

Date Collected: 09/19/16 10:31 — **Matrix: Water**
Date Received: 09/22/16 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228478	09/27/16 19:29	TL1	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8270D	3520C	Water	1,2,4-Trichlorobenzene
8270D	3520C	Water	1,2-Dichlorobenzene
8270D	3520C	Water	1,3-Dichlorobenzene
8270D	3520C	Water	1,4-Dichlorobenzene
8270D	3520C	Water	2,4,5-Trichlorophenol
8270D	3520C	Water	2,4,6-Trichlorophenol
8270D	3520C	Water	2,4-Dichlorophenol
8270D	3520C	Water	2,4-Dimethylphenol
8270D	3520C	Water	2,4-Dinitrophenol
8270D	3520C	Water	2,4-Dinitrotoluene
8270D	3520C	Water	2,6-Dinitrotoluene
8270D	3520C	Water	2-Chloronaphthalene
8270D	3520C	Water	2-Chlorophenol
8270D	3520C	Water	2-Methylphenol
8270D	3520C	Water	2-Nitroaniline
8270D	3520C	Water	2-Nitrophenol
8270D	3520C	Water	3 & 4 Methylphenol
8270D	3520C	Water	3,3'-Dichlorobenzidine
8270D	3520C	Water	3-Nitroaniline
8270D	3520C	Water	4,6-Dinitro-2-methylphenol
8270D	3520C	Water	4-Bromophenyl phenyl ether
8270D	3520C	Water	4-Chloro-3-methylphenol
8270D	3520C	Water	4-Chloroaniline
8270D	3520C	Water	4-Chlorophenyl phenyl ether
8270D	3520C	Water	4-Nitroaniline
8270D	3520C	Water	4-Nitrophenol
8270D	3520C	Water	Benzoic acid
8270D	3520C	Water	Benzyl alcohol
8270D	3520C	Water	Bis(2-chloroethoxy)methane
8270D	3520C	Water	Bis(2-chloroethyl)ether
8270D	3520C	Water	Bis(2-ethylhexyl) phthalate
8270D	3520C	Water	bis(chloroisopropyl) ether
8270D	3520C	Water	Butyl benzyl phthalate
8270D	3520C	Water	Carbazole
8270D	3520C	Water	Dibenzofuran
8270D	3520C	Water	Diethyl phthalate
8270D	3520C	Water	Dimethyl phthalate
8270D	3520C	Water	Di-n-butyl phthalate
8270D	3520C	Water	Di-n-octyl phthalate
8270D	3520C	Water	Hexachlorobenzene
8270D	3520C	Water	Hexachlorobutadiene
8270D	3520C	Water	Hexachlorocyclopentadiene
8270D	3520C	Water	Hexachloroethane
8270D	3520C	Water	Isophorone
8270D	3520C	Water	Nitrobenzene
8270D	3520C	Water	N-Nitrosodi-n-propylamine

Certification Summary

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Laboratory: TestAmerica Seattle (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8270D	3520C	Water	N-Nitrosodiphenylamine
8270D	3520C	Water	Pentachlorophenol
8270D	3520C	Water	Phenol

L-A-B	DoD ELAP		L2236	01-19-19

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,3-Dichlorobenzene

Sample Summary

Client: SLR International Corp
Project/Site: Kenai Wells

TestAmerica Job ID: 580-62712-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-62712-1	MW-39A-0916	Water	09/19/16 10:31	09/22/16 09:30
580-62712-2	MW-39B-0916	Water	09/19/16 12:42	09/22/16 09:30
580-62712-3	MW-62A-0916	Water	09/19/16 15:03	09/22/16 09:30
580-62712-4	APT-1-0916	Water	09/20/16 10:32	09/22/16 09:30
580-62712-5	APT-9-0916	Water	09/20/16 10:32	09/22/16 09:30
580-62712-6	APT-3-0916	Water	09/20/16 12:10	09/22/16 09:30
580-62712-7	TB-07-0916	Water	09/19/16 10:31	09/22/16 09:30

TestAmerica Anchorage
2000 W International Airport Road
Suite A10
Anchorage, AK 99502-1117
phone 907.563.9200 fax 907.563.9210

Chain of Custody Record

62712

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Jason Gray	Site Contact:	Date:	COC No: 10
SLR International	Tel/Fax: (907) 862-6579	Lab Contact:	Carrier:	1 of 1 COCs
2700 Gambell Street, Suite 200	Analysis Turnaround Time			Sampler:
Anchorage, AK, 99503	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(907) 862-6579 (Cell)	TAT if different from Below _____			Walk-in Client:
(907) 264-6965 (Office phone)	☑ 2 weeks			Lab Sampling:
Project Name: Kenai Wells, Event 2	☐ 1 week			
Site: Nikiski, AK	☐ 2 days			Job / SDG No.:
P O # 105.00148.16001	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SVOC by SW8270D	VOC by SW8260B	Sample Specific Notes:
-1	MW-39A-0916	09/19/16	10:31	G	GW	3	N	N		X	
-2	MW-39B-0916	09/19/16	12:42	G	GW	3	N	N		X	
-3	MW-62A-0916	09/19/16	15:03	G	GW	3	N	N		X	
-4	APT-1-0916	09/20/16	10:32	G	GW	15	N	Y	X	X	MS/MSD
-5	APT-9-0916	09/20/16	10:32	G	GW	5	N	N	X	X	
-6	APT-3-0916	09/20/16	12:10	G	GW	3	N	N		X	
-7	TB-07-0916	09/19/16	10:31	TB	W	3	N	N		X	

580-62712 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd: 3.1 | Therm ID No.:_____

Relinquished by:	Company: SLR	Date/Time: 9-21-16 0800	Received by:	Company: TA-AK	Date/Time: 9/21/16 1430
Relinquished by:	Company: TA-AK	Date/Time: 9/21/16 15:45	Received by:	Company: TA SFA	Date/Time: 9/22/16 0930
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.7, dated 11/02/2015

TestAmerica Anchorage
2000 W International Airport Road
Suite A10
Anchorage, AK 99502-1117
phone 907.563.9200 fax 907.563.9210

Chain of Custody Record

62712

TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Jason Gray	Site Contact:	Date:	COC No: 11
SLR International	Tel/Fax: (907) 862-6579	Lab Contact:	Carrier:	1 of 1 COCs
2700 Gambell Street, Suite 200	Analysis Turnaround Time			Sampler:
Anchorage, AK, 99503	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(907) 862-6579 (Cell)	TAT if different from Below _____			Walk-in Client:
(907) 264-6965 (Office phone)	☑ 2 weeks			Lab Sampling:
Project Name: Kenai Wells, Event 2	☐ 1 week			
Site: Nikiski, AK	☐ 2 days			Job / SDG No.:
P O # 105.00148.16001	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SVOC by SW8270D	Sample Specific Notes:
-1	MW-39A-0916	09/19/16	10:31	G	GW	2	N	N	X	
-2	MW-39B-0916	09/19/16	12:42	G	GW	2	N	N	X	
-3	MW-62A-0916	09/19/16	15:03	G	GW	2	N	N	X	
-6	APT-3-0916	09/20/16	12:10	G	GW	2	N	N	X	

TB A2 Cooler ___ Cor 1.9° Unc 2.1°
Cooler Dsc Lg Blue/Lt @Lab —
Wet/Packs Packing Bubble
w/cs

TB A2 Cooler ___ Cor 0.8° Unc 1.0°
Cooler Dsc Lg Blue/Lt @Lab ___
Wet/Packs Packing Bubble
w/cs

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
Please login and report together in same SDG with all samples of COC #10 containing associated VOC samples.

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: 3.7 | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	SLR	9-21 09:00	[signature]	TA-AK	9/21/16 14:30
[signature]	TA-AK	9/21/16 15:45	[signature]	TA-SEA	9/22/16 0430
			Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.7, dated 11/02/2015

Login Sample Receipt Checklist

Client: SLR International Corp

Job Number: 580-62712-1

Login Number: 62712
List Number: 1
Creator: Torres, Terri L

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-62759-1
Client Project/Site: Kenai Wells, Event 2

For:
SLR International Corp
2700 Gambell Street
Suite 200
Anchorage, Alaska 99503

Attn: Jason Gray

Authorized for release by:
10/14/2016 1:23:49 PM

Robert Greer, Project Manager II
(253)922-2310
robert.greer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Definitions 4
Client Sample Results 5
QC Sample Results 27
Chronicle 36
Certification Summary 38
Sample Summary 40
Chain of Custody 41
Receipt Checklists 43

Case Narrative

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Job ID: 580-62759-1

Laboratory: TestAmerica Seattle

Narrative

Job Narrative
580-62759-1

Comments
No additional comments.

Receipt
The samples were received on 9/26/2016 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.9º C and 3.0º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 580-228501 recovered above the upper control limit for 1,1,2,2-Tetrachloroethane and Chloromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: APT-2-0916 (580-62759-1), MW-138B-0916 (580-62759-2), OW-1-0916 (580-62759-3), OW-2-0916 (580-62759-4), OW-3-0916 (580-62759-5), OW-4-0916 (580-62759-6), MW-91A-0916 (580-62759-7), TB-12-0916 (580-62759-8) and (CCVIS 580-228501/2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 580-228761 recovered above the upper control limit for Hexachlorocyclopentadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: APT-2-0916 (580-62759-1), MW-138B-0916 (580-62759-2), OW-1-0916 (580-62759-3), OW-2-0916 (580-62759-4), OW-3-0916 (580-62759-5), OW-4-0916 (580-62759-6), MW-91A-0916 (580-62759-7) and (CCVIS 580-228761/3).

Method(s) 8270D: The minimum response factor (RF) criteria for the continuing calibration verification (CCV) analyzed in batch 580-228761 was outside criteria for the following analyte: N-Nitrosodi-n-propylamine. As indicated in the reference method, sample analysis may proceed; however, any detection or non-detection for the affected analyte(s) is considered estimated.

Method(s) 8270D: The following analyte(s) recovered outside control limits for LCS/LCSD associated with preparation batch 580-228461 and analytical batch 580-228761: 3,3'-Dichlorobenzidine, Hexachlorocyclopentadiene and 4-Chloroaniline. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: APT-2-0916

Date Collected: 09/21/16 14:00
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/28/16 12:45	1
Chloromethane	ND		5.0		ug/L			09/28/16 12:45	1
Vinyl chloride	ND		1.0		ug/L			09/28/16 12:45	1
Bromomethane	ND		5.0		ug/L			09/28/16 12:45	1
Chloroethane	ND		5.0		ug/L			09/28/16 12:45	1
Trichlorofluoromethane	ND		3.0		ug/L			09/28/16 12:45	1
1,1-Dichloroethene	ND		2.0		ug/L			09/28/16 12:45	1
Carbon disulfide	ND		1.0		ug/L			09/28/16 12:45	1
Acetone	ND		50		ug/L			09/28/16 12:45	1
Methylene Chloride	ND		5.0		ug/L			09/28/16 12:45	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/28/16 12:45	1
1,1-Dichloroethane	ND		2.0		ug/L			09/28/16 12:45	1
2,2-Dichloropropane	ND		3.0		ug/L			09/28/16 12:45	1
2-Butanone	ND		20		ug/L			09/28/16 12:45	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/28/16 12:45	1
Bromochloromethane	ND		2.0		ug/L			09/28/16 12:45	1
Chloroform	ND		5.0		ug/L			09/28/16 12:45	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/28/16 12:45	1
Carbon tetrachloride	ND		3.0		ug/L			09/28/16 12:45	1
1,1-Dichloropropene	ND		3.0		ug/L			09/28/16 12:45	1
Benzene	ND		2.0		ug/L			09/28/16 12:45	1
1,2-Dichloroethane	ND		1.0		ug/L			09/28/16 12:45	1
Trichloroethene	ND		3.0		ug/L			09/28/16 12:45	1
1,2-Dichloropropane	ND		1.0		ug/L			09/28/16 12:45	1
Dibromomethane	ND		1.0		ug/L			09/28/16 12:45	1
Bromodichloromethane	ND		2.0		ug/L			09/28/16 12:45	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/28/16 12:45	1
4-Methyl-2-pentanone	ND		15		ug/L			09/28/16 12:45	1
Toluene	**2.7**		2.0		ug/L			09/28/16 12:45	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/28/16 12:45	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/28/16 12:45	1
Tetrachloroethene	ND		3.0		ug/L			09/28/16 12:45	1
1,3-Dichloropropane	ND		1.0		ug/L			09/28/16 12:45	1
2-Hexanone	ND		20		ug/L			09/28/16 12:45	1
Dibromochloromethane	ND		1.0		ug/L			09/28/16 12:45	1
1,2-Dibromoethane	ND		1.0		ug/L			09/28/16 12:45	1
Chlorobenzene	ND		2.0		ug/L			09/28/16 12:45	1
Ethylbenzene	ND		3.0		ug/L			09/28/16 12:45	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/28/16 12:45	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/28/16 12:45	1
o-Xylene	ND		2.0		ug/L			09/28/16 12:45	1
Styrene	ND		5.0		ug/L			09/28/16 12:45	1
Bromoform	ND		1.0		ug/L			09/28/16 12:45	1
Isopropylbenzene	ND		2.0		ug/L			09/28/16 12:45	1
Bromobenzene	ND		2.0		ug/L			09/28/16 12:45	1
N-Propylbenzene	ND		3.0		ug/L			09/28/16 12:45	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/28/16 12:45	1
4-Chlorotoluene	ND		2.0		ug/L			09/28/16 12:45	1
t-Butylbenzene	ND		3.0		ug/L			09/28/16 12:45	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: APT-2-0916

Date Collected: 09/21/16 14:00
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/28/16 12:45	1
sec-Butylbenzene	ND		3.0		ug/L			09/28/16 12:45	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/28/16 12:45	1
4-Isopropyltoluene	ND		3.0		ug/L			09/28/16 12:45	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/28/16 12:45	1
n-Butylbenzene	ND		3.0		ug/L			09/28/16 12:45	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/28/16 12:45	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/28/16 12:45	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/28/16 12:45	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/28/16 12:45	1
Hexachlorobutadiene	ND		2.0		ug/L			09/28/16 12:45	1
Naphthalene	ND		2.0		ug/L			09/28/16 12:45	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/28/16 12:45	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/28/16 12:45	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/28/16 12:45	1
2-Chlorotoluene	ND		3.0		ug/L			09/28/16 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*82 - 122*		*09/28/16 12:45*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 125*		*09/28/16 12:45*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 118*		*09/28/16 12:45*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 141*		*09/28/16 12:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 143*		*09/28/16 12:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
1,2-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
1,3-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
1,4-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
1-Methylnaphthalene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:20	1
2,4,5-Trichlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
2,4,6-Trichlorophenol	ND		0.58		ug/L		09/27/16 14:37	09/30/16 19:20	1
2,4-Dichlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/27/16 14:37	09/30/16 19:20	1
2,4-Dinitrophenol	ND		4.8		ug/L		09/27/16 14:37	09/30/16 19:20	1
2,4-Dinitrotoluene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
2,6-Dinitrotoluene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
2-Chloronaphthalene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:20	1
2-Chlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
2-Methylnaphthalene	ND		0.19		ug/L		09/27/16 14:37	09/30/16 19:20	1
2-Methylphenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
2-Nitroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
2-Nitrophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
3 & 4 Methylphenol	ND		0.77		ug/L		09/27/16 14:37	09/30/16 19:20	1
3,3'-Dichlorobenzidine	ND		1.9		ug/L		09/27/16 14:37	09/30/16 19:20	1
3-Nitroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
4,6-Dinitro-2-methylphenol	ND		3.9		ug/L		09/27/16 14:37	09/30/16 19:20	1
4-Bromophenyl phenyl ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
4-Chloro-3-methylphenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: APT-2-0916

Date Collected: 09/21/16 14:00
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-1

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
4-Chlorophenyl phenyl ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
4-Nitroaniline	ND		0.58		ug/L		09/27/16 14:37	09/30/16 19:20	1
4-Nitrophenol	ND		2.9		ug/L		09/27/16 14:37	09/30/16 19:20	1
Acenaphthene	ND		0.096		ug/L		09/27/16 14:37	09/30/16 19:20	1
Acenaphthylene	ND		0.077		ug/L		09/27/16 14:37	09/30/16 19:20	1
Anthracene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 19:20	1
Benzo[a]anthracene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:20	1
Benzo[a]pyrene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 19:20	1
Benzo[b]fluoranthene	ND		0.077		ug/L		09/27/16 14:37	09/30/16 19:20	1
Benzo[g,h,i]perylene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:20	1
Benzo[k]fluoranthene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:20	1
Benzoic acid	ND		2.9		ug/L		09/27/16 14:37	09/30/16 19:20	1
Benzyl alcohol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Bis(2-chloroethoxy)methane	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Bis(2-chloroethyl)ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Bis(2-ethylhexyl) phthalate	ND		2.9		ug/L		09/27/16 14:37	09/30/16 19:20	1
bis(chloroisopropyl) ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Butyl benzyl phthalate	ND		0.58		ug/L		09/27/16 14:37	09/30/16 19:20	1
Carbazole	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Chrysene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 19:20	1
Dibenz(a,h)anthracene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:20	1
Dibenzofuran	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Diethyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Dimethyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Di-n-butyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Di-n-octyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Fluoranthene	ND		0.048		ug/L		09/27/16 14:37	09/30/16 19:20	1
Fluorene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:20	1
Hexachlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Hexachlorobutadiene	ND		0.58		ug/L		09/27/16 14:37	09/30/16 19:20	1
Hexachlorocyclopentadiene	ND		1.9		ug/L		09/27/16 14:37	09/30/16 19:20	1
Hexachloroethane	ND		0.58		ug/L		09/27/16 14:37	09/30/16 19:20	1
Indeno[1,2,3-cd]pyrene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:20	1
Isophorone	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Naphthalene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Nitrobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
N-Nitrosodi-n-propylamine	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
N-Nitrosodiphenylamine	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:20	1
Pentachlorophenol	ND		0.67		ug/L		09/27/16 14:37	09/30/16 19:20	1
Phenanthrene	ND		0.077		ug/L		09/27/16 14:37	09/30/16 19:20	1
Phenol	ND		0.58		ug/L		09/27/16 14:37	09/30/16 19:20	1
Pyrene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*114*		*57 - 132*	*09/27/16 14:37*	*09/30/16 19:20*	*1*
2-Fluorobiphenyl	*90*		*50 - 120*	*09/27/16 14:37*	*09/30/16 19:20*	*1*
2-Fluorophenol (Surr)	*100*		*50 - 113*	*09/27/16 14:37*	*09/30/16 19:20*	*1*
Nitrobenzene-d5 (Surr)	*98*		*59 - 120*	*09/27/16 14:37*	*09/30/16 19:20*	*1*
Phenol-d5 (Surr)	*98*		*52 - 120*	*09/27/16 14:37*	*09/30/16 19:20*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62759-1

Client Sample ID: APT-2-0916 | **Lab Sample ID: 580-62759-1**

Date Collected: 09/21/16 14:00 | **Matrix: Water**

Date Received: 09/26/16 10:30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	119		72 - 140	09/27/16 14:37	09/30/16 19:20	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: MW-138B-0916

Date Collected: 09/21/16 10:25
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/28/16 13:13	1
Chloromethane	ND		5.0		ug/L			09/28/16 13:13	1
Vinyl chloride	ND		1.0		ug/L			09/28/16 13:13	1
Bromomethane	ND		5.0		ug/L			09/28/16 13:13	1
Chloroethane	ND		5.0		ug/L			09/28/16 13:13	1
Trichlorofluoromethane	ND		3.0		ug/L			09/28/16 13:13	1
1,1-Dichloroethene	ND		2.0		ug/L			09/28/16 13:13	1
Carbon disulfide	ND		1.0		ug/L			09/28/16 13:13	1
Acetone	ND		50		ug/L			09/28/16 13:13	1
Methylene Chloride	ND		5.0		ug/L			09/28/16 13:13	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/28/16 13:13	1
1,1-Dichloroethane	ND		2.0		ug/L			09/28/16 13:13	1
2,2-Dichloropropane	ND		3.0		ug/L			09/28/16 13:13	1
2-Butanone	ND		20		ug/L			09/28/16 13:13	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/28/16 13:13	1
Bromochloromethane	ND		2.0		ug/L			09/28/16 13:13	1
Chloroform	ND		5.0		ug/L			09/28/16 13:13	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/28/16 13:13	1
Carbon tetrachloride	ND		3.0		ug/L			09/28/16 13:13	1
1,1-Dichloropropene	ND		3.0		ug/L			09/28/16 13:13	1
Benzene	ND		2.0		ug/L			09/28/16 13:13	1
1,2-Dichloroethane	ND		1.0		ug/L			09/28/16 13:13	1
Trichloroethene	ND		3.0		ug/L			09/28/16 13:13	1
1,2-Dichloropropane	ND		1.0		ug/L			09/28/16 13:13	1
Dibromomethane	ND		1.0		ug/L			09/28/16 13:13	1
Bromodichloromethane	ND		2.0		ug/L			09/28/16 13:13	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/28/16 13:13	1
4-Methyl-2-pentanone	ND		15		ug/L			09/28/16 13:13	1
Toluene	ND		2.0		ug/L			09/28/16 13:13	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/28/16 13:13	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/28/16 13:13	1
Tetrachloroethene	ND		3.0		ug/L			09/28/16 13:13	1
1,3-Dichloropropane	ND		1.0		ug/L			09/28/16 13:13	1
2-Hexanone	ND		20		ug/L			09/28/16 13:13	1
Dibromochloromethane	ND		1.0		ug/L			09/28/16 13:13	1
1,2-Dibromoethane	ND		1.0		ug/L			09/28/16 13:13	1
Chlorobenzene	ND		2.0		ug/L			09/28/16 13:13	1
Ethylbenzene	ND		3.0		ug/L			09/28/16 13:13	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/28/16 13:13	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/28/16 13:13	1
o-Xylene	ND		2.0		ug/L			09/28/16 13:13	1
Styrene	ND		5.0		ug/L			09/28/16 13:13	1
Bromoform	ND		1.0		ug/L			09/28/16 13:13	1
Isopropylbenzene	ND		2.0		ug/L			09/28/16 13:13	1
Bromobenzene	ND		2.0		ug/L			09/28/16 13:13	1
N-Propylbenzene	ND		3.0		ug/L			09/28/16 13:13	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/28/16 13:13	1
4-Chlorotoluene	ND		2.0		ug/L			09/28/16 13:13	1
t-Butylbenzene	ND		3.0		ug/L			09/28/16 13:13	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: MW-138B-0916

Date Collected: 09/21/16 10:25
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/28/16 13:13	1
sec-Butylbenzene	ND		3.0		ug/L			09/28/16 13:13	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/28/16 13:13	1
4-Isopropyltoluene	ND		3.0		ug/L			09/28/16 13:13	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/28/16 13:13	1
n-Butylbenzene	ND		3.0		ug/L			09/28/16 13:13	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/28/16 13:13	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/28/16 13:13	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/28/16 13:13	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/28/16 13:13	1
Hexachlorobutadiene	ND		2.0		ug/L			09/28/16 13:13	1
Naphthalene	ND		2.0		ug/L			09/28/16 13:13	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/28/16 13:13	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/28/16 13:13	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/28/16 13:13	1
2-Chlorotoluene	ND		3.0		ug/L			09/28/16 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*82 - 122*		*09/28/16 13:13*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 125*		*09/28/16 13:13*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 118*		*09/28/16 13:13*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 141*		*09/28/16 13:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*65 - 143*		*09/28/16 13:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
1,2-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
1,3-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
1,4-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
1-Methylnaphthalene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:45	1
2,4,5-Trichlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
2,4,6-Trichlorophenol	ND		0.58		ug/L		09/27/16 14:37	09/30/16 19:45	1
2,4-Dichlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/27/16 14:37	09/30/16 19:45	1
2,4-Dinitrophenol	ND		4.8		ug/L		09/27/16 14:37	09/30/16 19:45	1
2,4-Dinitrotoluene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
2,6-Dinitrotoluene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
2-Chloronaphthalene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:45	1
2-Chlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
2-Methylnaphthalene	ND		0.19		ug/L		09/27/16 14:37	09/30/16 19:45	1
2-Methylphenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
2-Nitroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
2-Nitrophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
3 & 4 Methylphenol	ND		0.78		ug/L		09/27/16 14:37	09/30/16 19:45	1
3,3'-Dichlorobenzidine	ND		1.9		ug/L		09/27/16 14:37	09/30/16 19:45	1
3-Nitroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
4,6-Dinitro-2-methylphenol	ND		3.9		ug/L		09/27/16 14:37	09/30/16 19:45	1
4-Bromophenyl phenyl ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
4-Chloro-3-methylphenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: MW-138B-0916

Date Collected: 09/21/16 10:25
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
4-Chlorophenyl phenyl ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
4-Nitroaniline	ND		0.58		ug/L		09/27/16 14:37	09/30/16 19:45	1
4-Nitrophenol	ND		2.9		ug/L		09/27/16 14:37	09/30/16 19:45	1
Acenaphthene	ND		0.097		ug/L		09/27/16 14:37	09/30/16 19:45	1
Acenaphthylene	ND		0.078		ug/L		09/27/16 14:37	09/30/16 19:45	1
Anthracene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 19:45	1
Benzo[a]anthracene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:45	1
Benzo[a]pyrene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 19:45	1
Benzo[b]fluoranthene	ND		0.078		ug/L		09/27/16 14:37	09/30/16 19:45	1
Benzo[g,h,i]perylene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:45	1
Benzo[k]fluoranthene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:45	1
Benzoic acid	ND		2.9		ug/L		09/27/16 14:37	09/30/16 19:45	1
Benzyl alcohol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Bis(2-chloroethoxy)methane	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Bis(2-chloroethyl)ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Bis(2-ethylhexyl) phthalate	ND		2.9		ug/L		09/27/16 14:37	09/30/16 19:45	1
bis(chloroisopropyl) ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Butyl benzyl phthalate	ND		0.58		ug/L		09/27/16 14:37	09/30/16 19:45	1
Carbazole	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Chrysene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 19:45	1
Dibenz(a,h)anthracene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:45	1
Dibenzofuran	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Diethyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Dimethyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Di-n-butyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Di-n-octyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Fluoranthene	ND		0.048		ug/L		09/27/16 14:37	09/30/16 19:45	1
Fluorene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:45	1
Hexachlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Hexachlorobutadiene	ND		0.58		ug/L		09/27/16 14:37	09/30/16 19:45	1
Hexachlorocyclopentadiene	ND		1.9		ug/L		09/27/16 14:37	09/30/16 19:45	1
Hexachloroethane	ND		0.58		ug/L		09/27/16 14:37	09/30/16 19:45	1
Indeno[1,2,3-cd]pyrene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:45	1
Isophorone	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Naphthalene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Nitrobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
N-Nitrosodi-n-propylamine	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
N-Nitrosodiphenylamine	ND		0.39		ug/L		09/27/16 14:37	09/30/16 19:45	1
Pentachlorophenol	ND		0.68		ug/L		09/27/16 14:37	09/30/16 19:45	1
Phenanthrene	ND		0.078		ug/L		09/27/16 14:37	09/30/16 19:45	1
Phenol	ND		0.58		ug/L		09/27/16 14:37	09/30/16 19:45	1
Pyrene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*108*		*57 - 132*	*09/27/16 14:37*	*09/30/16 19:45*	*1*
2-Fluorobiphenyl	*84*		*50 - 120*	*09/27/16 14:37*	*09/30/16 19:45*	*1*
2-Fluorophenol (Surr)	*92*		*50 - 113*	*09/27/16 14:37*	*09/30/16 19:45*	*1*
Nitrobenzene-d5 (Surr)	*92*		*59 - 120*	*09/27/16 14:37*	*09/30/16 19:45*	*1*
Phenol-d5 (Surr)	*95*		*52 - 120*	*09/27/16 14:37*	*09/30/16 19:45*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: MW-138B-0916

Date Collected: 09/21/16 10:25
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-2

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	117		72 - 140	09/27/16 14:37	09/30/16 19:45	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: OW-1-0916

Date Collected: 09/22/16 11:19
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0		ug/L			09/28/16 13:42	1
Vinyl chloride	ND		1.0		ug/L			09/28/16 13:42	1
1,1-Dichloroethene	ND		2.0		ug/L			09/28/16 13:42	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/28/16 13:42	1
1,1-Dichloroethane	ND		2.0		ug/L			09/28/16 13:42	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/28/16 13:42	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/28/16 13:42	1
1,2-Dichloroethane	ND		1.0		ug/L			09/28/16 13:42	1
Trichloroethene	ND		3.0		ug/L			09/28/16 13:42	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/28/16 13:42	1
Tetrachloroethene	ND		3.0		ug/L			09/28/16 13:42	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/28/16 13:42	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/28/16 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*82 - 122*		*09/28/16 13:42*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 125*		*09/28/16 13:42*	*1*
Dibromofluoromethane (Surr)	*92*		*77 - 118*		*09/28/16 13:42*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 141*		*09/28/16 13:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 143*		*09/28/16 13:42*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
1,2-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
1,3-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
1,4-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
1-Methylnaphthalene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 20:11	1
2,4,5-Trichlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
2,4,6-Trichlorophenol	ND		0.59		ug/L		09/27/16 14:37	09/30/16 20:11	1
2,4-Dichlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/27/16 14:37	09/30/16 20:11	1
2,4-Dinitrophenol	ND		4.9		ug/L		09/27/16 14:37	09/30/16 20:11	1
2,4-Dinitrotoluene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
2,6-Dinitrotoluene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
2-Chloronaphthalene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 20:11	1
2-Chlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
2-Methylnaphthalene	ND		0.20		ug/L		09/27/16 14:37	09/30/16 20:11	1
2-Methylphenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
2-Nitroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
2-Nitrophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
3 & 4 Methylphenol	ND		0.78		ug/L		09/27/16 14:37	09/30/16 20:11	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/27/16 14:37	09/30/16 20:11	1
3-Nitroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
4,6-Dinitro-2-methylphenol	ND		3.9		ug/L		09/27/16 14:37	09/30/16 20:11	1
4-Bromophenyl phenyl ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
4-Chloro-3-methylphenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
4-Chloroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
4-Chlorophenyl phenyl ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
4-Nitroaniline	ND		0.59		ug/L		09/27/16 14:37	09/30/16 20:11	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: OW-1-0916

Date Collected: 09/22/16 11:19
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-3

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		2.9		ug/L		09/27/16 14:37	09/30/16 20:11	1
Acenaphthene	ND		0.098		ug/L		09/27/16 14:37	09/30/16 20:11	1
Acenaphthylene	ND		0.078		ug/L		09/27/16 14:37	09/30/16 20:11	1
Anthracene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 20:11	1
Benzo[a]anthracene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 20:11	1
Benzo[a]pyrene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 20:11	1
Benzo[b]fluoranthene	ND		0.078		ug/L		09/27/16 14:37	09/30/16 20:11	1
Benzo[g,h,i]perylene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 20:11	1
Benzo[k]fluoranthene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 20:11	1
Benzoic acid	ND		2.9		ug/L		09/27/16 14:37	09/30/16 20:11	1
Benzyl alcohol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Bis(2-chloroethoxy)methane	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Bis(2-chloroethyl)ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Bis(2-ethylhexyl) phthalate	ND		2.9		ug/L		09/27/16 14:37	09/30/16 20:11	1
bis(chloroisopropyl) ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Butyl benzyl phthalate	ND		0.59		ug/L		09/27/16 14:37	09/30/16 20:11	1
Carbazole	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Chrysene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 20:11	1
Dibenz(a,h)anthracene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 20:11	1
Dibenzofuran	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Diethyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Dimethyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Di-n-butyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Di-n-octyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Fluoranthene	ND		0.049		ug/L		09/27/16 14:37	09/30/16 20:11	1
Fluorene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 20:11	1
Hexachlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Hexachlorobutadiene	ND		0.59		ug/L		09/27/16 14:37	09/30/16 20:11	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/27/16 14:37	09/30/16 20:11	1
Hexachloroethane	ND		0.59		ug/L		09/27/16 14:37	09/30/16 20:11	1
Indeno[1,2,3-cd]pyrene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 20:11	1
Isophorone	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Naphthalene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Nitrobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
N-Nitrosodi-n-propylamine	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
N-Nitrosodiphenylamine	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:11	1
Pentachlorophenol	ND		0.69		ug/L		09/27/16 14:37	09/30/16 20:11	1
Phenanthrene	ND		0.078		ug/L		09/27/16 14:37	09/30/16 20:11	1
Phenol	ND		0.59		ug/L		09/27/16 14:37	09/30/16 20:11	1
Pyrene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*105*		*57 - 132*	*09/27/16 14:37*	*09/30/16 20:11*	*1*
2-Fluorobiphenyl	*86*		*50 - 120*	*09/27/16 14:37*	*09/30/16 20:11*	*1*
2-Fluorophenol (Surr)	*87*		*50 - 113*	*09/27/16 14:37*	*09/30/16 20:11*	*1*
Nitrobenzene-d5 (Surr)	*94*		*59 - 120*	*09/27/16 14:37*	*09/30/16 20:11*	*1*
Phenol-d5 (Surr)	*91*		*52 - 120*	*09/27/16 14:37*	*09/30/16 20:11*	*1*
Terphenyl-d14 (Surr)	*118*		*72 - 140*	*09/27/16 14:37*	*09/30/16 20:11*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: OW-2-0916

Date Collected: 09/22/16 13:10
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0		ug/L			09/28/16 14:11	1
Vinyl chloride	ND		1.0		ug/L			09/28/16 14:11	1
1,1-Dichloroethene	ND		2.0		ug/L			09/28/16 14:11	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/28/16 14:11	1
1,1-Dichloroethane	ND		2.0		ug/L			09/28/16 14:11	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/28/16 14:11	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/28/16 14:11	1
1,2-Dichloroethane	ND		1.0		ug/L			09/28/16 14:11	1
Trichloroethene	ND		3.0		ug/L			09/28/16 14:11	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/28/16 14:11	1
Tetrachloroethene	ND		3.0		ug/L			09/28/16 14:11	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/28/16 14:11	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/28/16 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*82 - 122*		*09/28/16 14:11*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 125*		*09/28/16 14:11*	*1*
Dibromofluoromethane (Surr)	*90*		*77 - 118*		*09/28/16 14:11*	*1*
Trifluorotoluene (Surr)	*95*		*80 - 141*		*09/28/16 14:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 143*		*09/28/16 14:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
1,2-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
1,3-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
1,4-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
1-Methylnaphthalene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 20:36	1
2,4,5-Trichlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
2,4,6-Trichlorophenol	ND		0.58		ug/L		09/27/16 14:37	09/30/16 20:36	1
2,4-Dichlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/27/16 14:37	09/30/16 20:36	1
2,4-Dinitrophenol	ND		4.8		ug/L		09/27/16 14:37	09/30/16 20:36	1
2,4-Dinitrotoluene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
2,6-Dinitrotoluene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
2-Chloronaphthalene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 20:36	1
2-Chlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
2-Methylnaphthalene	ND		0.19		ug/L		09/27/16 14:37	09/30/16 20:36	1
2-Methylphenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
2-Nitroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
2-Nitrophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
3 & 4 Methylphenol	ND		0.77		ug/L		09/27/16 14:37	09/30/16 20:36	1
3,3'-Dichlorobenzidine	ND		1.9		ug/L		09/27/16 14:37	09/30/16 20:36	1
3-Nitroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
4,6-Dinitro-2-methylphenol	ND		3.9		ug/L		09/27/16 14:37	09/30/16 20:36	1
4-Bromophenyl phenyl ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
4-Chloro-3-methylphenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
4-Chloroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
4-Chlorophenyl phenyl ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
4-Nitroaniline	ND		0.58		ug/L		09/27/16 14:37	09/30/16 20:36	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: OW-2-0916

Date Collected: 09/22/16 13:10
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-4

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		2.9		ug/L		09/27/16 14:37	09/30/16 20:36	1
Acenaphthene	ND		0.097		ug/L		09/27/16 14:37	09/30/16 20:36	1
Acenaphthylene	ND		0.077		ug/L		09/27/16 14:37	09/30/16 20:36	1
Anthracene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 20:36	1
Benzo[a]anthracene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 20:36	1
Benzo[a]pyrene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 20:36	1
Benzo[b]fluoranthene	ND		0.077		ug/L		09/27/16 14:37	09/30/16 20:36	1
Benzo[g,h,i]perylene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 20:36	1
Benzo[k]fluoranthene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 20:36	1
Benzoic acid	ND		2.9		ug/L		09/27/16 14:37	09/30/16 20:36	1
Benzyl alcohol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Bis(2-chloroethoxy)methane	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Bis(2-chloroethyl)ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Bis(2-ethylhexyl) phthalate	ND		2.9		ug/L		09/27/16 14:37	09/30/16 20:36	1
bis(chloroisopropyl) ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Butyl benzyl phthalate	ND		0.58		ug/L		09/27/16 14:37	09/30/16 20:36	1
Carbazole	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Chrysene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 20:36	1
Dibenz(a,h)anthracene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 20:36	1
Dibenzofuran	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Diethyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Dimethyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Di-n-butyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Di-n-octyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Fluoranthene	ND		0.048		ug/L		09/27/16 14:37	09/30/16 20:36	1
Fluorene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 20:36	1
Hexachlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Hexachlorobutadiene	ND		0.58		ug/L		09/27/16 14:37	09/30/16 20:36	1
Hexachlorocyclopentadiene	ND		1.9		ug/L		09/27/16 14:37	09/30/16 20:36	1
Hexachloroethane	ND		0.58		ug/L		09/27/16 14:37	09/30/16 20:36	1
Indeno[1,2,3-cd]pyrene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 20:36	1
Isophorone	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Naphthalene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Nitrobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
N-Nitrosodi-n-propylamine	ND		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
N-Nitrosodiphenylamine	**0.42**		0.39		ug/L		09/27/16 14:37	09/30/16 20:36	1
Pentachlorophenol	ND		0.68		ug/L		09/27/16 14:37	09/30/16 20:36	1
Phenanthrene	ND		0.077		ug/L		09/27/16 14:37	09/30/16 20:36	1
Phenol	ND		0.58		ug/L		09/27/16 14:37	09/30/16 20:36	1
Pyrene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 20:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*101*		*57 - 132*	*09/27/16 14:37*	*09/30/16 20:36*	*1*
2-Fluorobiphenyl	*82*		*50 - 120*	*09/27/16 14:37*	*09/30/16 20:36*	*1*
2-Fluorophenol (Surr)	*78*		*50 - 113*	*09/27/16 14:37*	*09/30/16 20:36*	*1*
Nitrobenzene-d5 (Surr)	*84*		*59 - 120*	*09/27/16 14:37*	*09/30/16 20:36*	*1*
Phenol-d5 (Surr)	*81*		*52 - 120*	*09/27/16 14:37*	*09/30/16 20:36*	*1*
Terphenyl-d14 (Surr)	*106*		*72 - 140*	*09/27/16 14:37*	*09/30/16 20:36*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: OW-3-0916

Date Collected: 09/22/16 14:58
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0		ug/L			09/28/16 14:39	1
Vinyl chloride	ND		1.0		ug/L			09/28/16 14:39	1
1,1-Dichloroethene	ND		2.0		ug/L			09/28/16 14:39	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/28/16 14:39	1
1,1-Dichloroethane	ND		2.0		ug/L			09/28/16 14:39	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/28/16 14:39	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/28/16 14:39	1
1,2-Dichloroethane	ND		1.0		ug/L			09/28/16 14:39	1
Trichloroethene	ND		3.0		ug/L			09/28/16 14:39	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/28/16 14:39	1
Tetrachloroethene	ND		3.0		ug/L			09/28/16 14:39	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/28/16 14:39	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/28/16 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*82 - 122*		*09/28/16 14:39*	*1*
4-Bromofluorobenzene (Surr)	*94*		*75 - 125*		*09/28/16 14:39*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 118*		*09/28/16 14:39*	*1*
Trifluorotoluene (Surr)	*96*		*80 - 141*		*09/28/16 14:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*65 - 143*		*09/28/16 14:39*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
1,2-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
1,3-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
1,4-Dichlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
1-Methylnaphthalene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:01	1
2,4,5-Trichlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
2,4,6-Trichlorophenol	ND		0.59		ug/L		09/27/16 14:37	09/30/16 21:01	1
2,4-Dichlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/27/16 14:37	09/30/16 21:01	1
2,4-Dinitrophenol	ND		4.9		ug/L		09/27/16 14:37	09/30/16 21:01	1
2,4-Dinitrotoluene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
2,6-Dinitrotoluene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
2-Chloronaphthalene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:01	1
2-Chlorophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
2-Methylnaphthalene	ND		0.20		ug/L		09/27/16 14:37	09/30/16 21:01	1
2-Methylphenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
2-Nitroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
2-Nitrophenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
3 & 4 Methylphenol	ND		0.78		ug/L		09/27/16 14:37	09/30/16 21:01	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/27/16 14:37	09/30/16 21:01	1
3-Nitroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
4,6-Dinitro-2-methylphenol	ND		3.9		ug/L		09/27/16 14:37	09/30/16 21:01	1
4-Bromophenyl phenyl ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
4-Chloro-3-methylphenol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
4-Chloroaniline	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
4-Chlorophenyl phenyl ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
4-Nitroaniline	ND		0.59		ug/L		09/27/16 14:37	09/30/16 21:01	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: OW-3-0916

Date Collected: 09/22/16 14:58
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-5

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		2.9		ug/L		09/27/16 14:37	09/30/16 21:01	1
Acenaphthene	ND		0.098		ug/L		09/27/16 14:37	09/30/16 21:01	1
Acenaphthylene	ND		0.078		ug/L		09/27/16 14:37	09/30/16 21:01	1
Anthracene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 21:01	1
Benzo[a]anthracene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:01	1
Benzo[a]pyrene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 21:01	1
Benzo[b]fluoranthene	ND		0.078		ug/L		09/27/16 14:37	09/30/16 21:01	1
Benzo[g,h,i]perylene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:01	1
Benzo[k]fluoranthene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:01	1
Benzoic acid	ND		2.9		ug/L		09/27/16 14:37	09/30/16 21:01	1
Benzyl alcohol	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Bis(2-chloroethoxy)methane	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Bis(2-chloroethyl)ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Bis(2-ethylhexyl) phthalate	ND		2.9		ug/L		09/27/16 14:37	09/30/16 21:01	1
bis(chloroisopropyl) ether	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Butyl benzyl phthalate	ND		0.59		ug/L		09/27/16 14:37	09/30/16 21:01	1
Carbazole	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Chrysene	ND		0.039		ug/L		09/27/16 14:37	09/30/16 21:01	1
Dibenz(a,h)anthracene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:01	1
Dibenzofuran	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Diethyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Dimethyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Di-n-butyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Di-n-octyl phthalate	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Fluoranthene	ND		0.049		ug/L		09/27/16 14:37	09/30/16 21:01	1
Fluorene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:01	1
Hexachlorobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Hexachlorobutadiene	ND		0.59		ug/L		09/27/16 14:37	09/30/16 21:01	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/27/16 14:37	09/30/16 21:01	1
Hexachloroethane	ND		0.59		ug/L		09/27/16 14:37	09/30/16 21:01	1
Indeno[1,2,3-cd]pyrene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:01	1
Isophorone	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Naphthalene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Nitrobenzene	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
N-Nitrosodi-n-propylamine	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
N-Nitrosodiphenylamine	ND		0.39		ug/L		09/27/16 14:37	09/30/16 21:01	1
Pentachlorophenol	ND		0.68		ug/L		09/27/16 14:37	09/30/16 21:01	1
Phenanthrene	ND		0.078		ug/L		09/27/16 14:37	09/30/16 21:01	1
Phenol	ND		0.59		ug/L		09/27/16 14:37	09/30/16 21:01	1
Pyrene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*108*		*57 - 132*	*09/27/16 14:37*	*09/30/16 21:01*	*1*
2-Fluorobiphenyl	*83*		*50 - 120*	*09/27/16 14:37*	*09/30/16 21:01*	*1*
2-Fluorophenol (Surr)	*88*		*50 - 113*	*09/27/16 14:37*	*09/30/16 21:01*	*1*
Nitrobenzene-d5 (Surr)	*88*		*59 - 120*	*09/27/16 14:37*	*09/30/16 21:01*	*1*
Phenol-d5 (Surr)	*91*		*52 - 120*	*09/27/16 14:37*	*09/30/16 21:01*	*1*
Terphenyl-d14 (Surr)	*117*		*72 - 140*	*09/27/16 14:37*	*09/30/16 21:01*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: OW-4-0916

Date Collected: 09/22/16 16:06
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		5.0		ug/L			09/28/16 15:08	1
Vinyl chloride	ND		1.0		ug/L			09/28/16 15:08	1
1,1-Dichloroethene	ND		2.0		ug/L			09/28/16 15:08	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/28/16 15:08	1
1,1-Dichloroethane	ND		2.0		ug/L			09/28/16 15:08	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/28/16 15:08	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/28/16 15:08	1
1,2-Dichloroethane	ND		1.0		ug/L			09/28/16 15:08	1
Trichloroethene	**57**		3.0		ug/L			09/28/16 15:08	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/28/16 15:08	1
Tetrachloroethene	ND		3.0		ug/L			09/28/16 15:08	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/28/16 15:08	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/28/16 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*82 - 122*		*09/28/16 15:08*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 125*		*09/28/16 15:08*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 118*		*09/28/16 15:08*	*1*
Trifluorotoluene (Surr)	*96*		*80 - 141*		*09/28/16 15:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*65 - 143*		*09/28/16 15:08*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
1,2-Dichlorobenzene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
1,3-Dichlorobenzene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
1,4-Dichlorobenzene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
1-Methylnaphthalene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:26	1
2,4,5-Trichlorophenol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
2,4,6-Trichlorophenol	ND		0.59		ug/L		09/27/16 14:37	09/30/16 21:26	1
2,4-Dichlorophenol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/27/16 14:37	09/30/16 21:26	1
2,4-Dinitrophenol	ND		5.0		ug/L		09/27/16 14:37	09/30/16 21:26	1
2,4-Dinitrotoluene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
2,6-Dinitrotoluene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
2-Chloronaphthalene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:26	1
2-Chlorophenol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
2-Methylnaphthalene	ND		0.20		ug/L		09/27/16 14:37	09/30/16 21:26	1
2-Methylphenol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
2-Nitroaniline	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
2-Nitrophenol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
3 & 4 Methylphenol	ND		0.79		ug/L		09/27/16 14:37	09/30/16 21:26	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/27/16 14:37	09/30/16 21:26	1
3-Nitroaniline	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
4,6-Dinitro-2-methylphenol	ND		4.0		ug/L		09/27/16 14:37	09/30/16 21:26	1
4-Bromophenyl phenyl ether	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
4-Chloro-3-methylphenol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
4-Chloroaniline	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
4-Chlorophenyl phenyl ether	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
4-Nitroaniline	ND		0.59		ug/L		09/27/16 14:37	09/30/16 21:26	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: OW-4-0916

Date Collected: 09/22/16 16:06
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-6

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	ND		3.0		ug/L		09/27/16 14:37	09/30/16 21:26	1
Acenaphthene	ND		0.099		ug/L		09/27/16 14:37	09/30/16 21:26	1
Acenaphthylene	ND		0.079		ug/L		09/27/16 14:37	09/30/16 21:26	1
Anthracene	ND		0.040		ug/L		09/27/16 14:37	09/30/16 21:26	1
Benzo[a]anthracene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:26	1
Benzo[a]pyrene	ND		0.040		ug/L		09/27/16 14:37	09/30/16 21:26	1
Benzo[b]fluoranthene	ND		0.079		ug/L		09/27/16 14:37	09/30/16 21:26	1
Benzo[g,h,i]perylene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:26	1
Benzo[k]fluoranthene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:26	1
Benzoic acid	ND		3.0		ug/L		09/27/16 14:37	09/30/16 21:26	1
Benzyl alcohol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Bis(2-chloroethoxy)methane	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Bis(2-chloroethyl)ether	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Bis(2-ethylhexyl) phthalate	ND		3.0		ug/L		09/27/16 14:37	09/30/16 21:26	1
bis(chloroisopropyl) ether	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Butyl benzyl phthalate	ND		0.59		ug/L		09/27/16 14:37	09/30/16 21:26	1
Carbazole	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Chrysene	ND		0.040		ug/L		09/27/16 14:37	09/30/16 21:26	1
Dibenz(a,h)anthracene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:26	1
Dibenzofuran	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Diethyl phthalate	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Dimethyl phthalate	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Di-n-butyl phthalate	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Di-n-octyl phthalate	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Fluoranthene	ND		0.050		ug/L		09/27/16 14:37	09/30/16 21:26	1
Fluorene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:26	1
Hexachlorobenzene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Hexachlorobutadiene	ND		0.59		ug/L		09/27/16 14:37	09/30/16 21:26	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/27/16 14:37	09/30/16 21:26	1
Hexachloroethane	ND		0.59		ug/L		09/27/16 14:37	09/30/16 21:26	1
Indeno[1,2,3-cd]pyrene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:26	1
Isophorone	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Naphthalene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Nitrobenzene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
N-Nitrosodi-n-propylamine	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
N-Nitrosodiphenylamine	ND		0.40		ug/L		09/27/16 14:37	09/30/16 21:26	1
Pentachlorophenol	ND		0.69		ug/L		09/27/16 14:37	09/30/16 21:26	1
Phenanthrene	ND		0.079		ug/L		09/27/16 14:37	09/30/16 21:26	1
Phenol	ND		0.59		ug/L		09/27/16 14:37	09/30/16 21:26	1
Pyrene	ND		0.059		ug/L		09/27/16 14:37	09/30/16 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*99*		*57 - 132*	*09/27/16 14:37*	*09/30/16 21:26*	*1*
2-Fluorobiphenyl	*80*		*50 - 120*	*09/27/16 14:37*	*09/30/16 21:26*	*1*
2-Fluorophenol (Surr)	*84*		*50 - 113*	*09/27/16 14:37*	*09/30/16 21:26*	*1*
Nitrobenzene-d5 (Surr)	*91*		*59 - 120*	*09/27/16 14:37*	*09/30/16 21:26*	*1*
Phenol-d5 (Surr)	*87*		*52 - 120*	*09/27/16 14:37*	*09/30/16 21:26*	*1*
Terphenyl-d14 (Surr)	*110*		*72 - 140*	*09/27/16 14:37*	*09/30/16 21:26*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: MW-91A-0916

Date Collected: 09/22/16 18:00
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/28/16 15:36	1
Chloromethane	ND		5.0		ug/L			09/28/16 15:36	1
Vinyl chloride	ND		1.0		ug/L			09/28/16 15:36	1
Bromomethane	ND		5.0		ug/L			09/28/16 15:36	1
Chloroethane	ND		5.0		ug/L			09/28/16 15:36	1
Trichlorofluoromethane	ND		3.0		ug/L			09/28/16 15:36	1
1,1-Dichloroethene	ND		2.0		ug/L			09/28/16 15:36	1
Carbon disulfide	ND		1.0		ug/L			09/28/16 15:36	1
Acetone	ND		50		ug/L			09/28/16 15:36	1
Methylene Chloride	ND		5.0		ug/L			09/28/16 15:36	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/28/16 15:36	1
1,1-Dichloroethane	ND		2.0		ug/L			09/28/16 15:36	1
2,2-Dichloropropane	ND		3.0		ug/L			09/28/16 15:36	1
2-Butanone	ND		20		ug/L			09/28/16 15:36	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/28/16 15:36	1
Bromochloromethane	ND		2.0		ug/L			09/28/16 15:36	1
Chloroform	ND		5.0		ug/L			09/28/16 15:36	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/28/16 15:36	1
Carbon tetrachloride	ND		3.0		ug/L			09/28/16 15:36	1
1,1-Dichloropropene	ND		3.0		ug/L			09/28/16 15:36	1
Benzene	ND		2.0		ug/L			09/28/16 15:36	1
1,2-Dichloroethane	ND		1.0		ug/L			09/28/16 15:36	1
Trichloroethene	ND		3.0		ug/L			09/28/16 15:36	1
1,2-Dichloropropane	ND		1.0		ug/L			09/28/16 15:36	1
Dibromomethane	ND		1.0		ug/L			09/28/16 15:36	1
Bromodichloromethane	ND		2.0		ug/L			09/28/16 15:36	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/28/16 15:36	1
4-Methyl-2-pentanone	ND		15		ug/L			09/28/16 15:36	1
Toluene	ND		2.0		ug/L			09/28/16 15:36	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/28/16 15:36	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/28/16 15:36	1
Tetrachloroethene	ND		3.0		ug/L			09/28/16 15:36	1
1,3-Dichloropropane	ND		1.0		ug/L			09/28/16 15:36	1
2-Hexanone	ND		20		ug/L			09/28/16 15:36	1
Dibromochloromethane	ND		1.0		ug/L			09/28/16 15:36	1
1,2-Dibromoethane	ND		1.0		ug/L			09/28/16 15:36	1
Chlorobenzene	ND		2.0		ug/L			09/28/16 15:36	1
Ethylbenzene	ND		3.0		ug/L			09/28/16 15:36	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/28/16 15:36	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/28/16 15:36	1
o-Xylene	ND		2.0		ug/L			09/28/16 15:36	1
Styrene	ND		5.0		ug/L			09/28/16 15:36	1
Bromoform	ND		1.0		ug/L			09/28/16 15:36	1
Isopropylbenzene	ND		2.0		ug/L			09/28/16 15:36	1
Bromobenzene	ND		2.0		ug/L			09/28/16 15:36	1
N-Propylbenzene	ND		3.0		ug/L			09/28/16 15:36	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/28/16 15:36	1
4-Chlorotoluene	ND		2.0		ug/L			09/28/16 15:36	1
t-Butylbenzene	ND		3.0		ug/L			09/28/16 15:36	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: MW-91A-0916

Date Collected: 09/22/16 18:00
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-7

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/28/16 15:36	1
sec-Butylbenzene	ND		3.0		ug/L			09/28/16 15:36	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/28/16 15:36	1
4-Isopropyltoluene	ND		3.0		ug/L			09/28/16 15:36	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/28/16 15:36	1
n-Butylbenzene	ND		3.0		ug/L			09/28/16 15:36	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/28/16 15:36	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/28/16 15:36	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/28/16 15:36	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/28/16 15:36	1
Hexachlorobutadiene	ND		2.0		ug/L			09/28/16 15:36	1
Naphthalene	ND		2.0		ug/L			09/28/16 15:36	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/28/16 15:36	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/28/16 15:36	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/28/16 15:36	1
2-Chlorotoluene	ND		3.0		ug/L			09/28/16 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*82 - 122*		*09/28/16 15:36*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 125*		*09/28/16 15:36*	*1*
Dibromofluoromethane (Surr)	*94*		*77 - 118*		*09/28/16 15:36*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 141*		*09/28/16 15:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*65 - 143*		*09/28/16 15:36*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
1,2-Dichlorobenzene	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
1,3-Dichlorobenzene	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
1,4-Dichlorobenzene	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
1-Methylnaphthalene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 21:51	1
2,4,5-Trichlorophenol	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
2,4,6-Trichlorophenol	ND		0.58		ug/L		09/27/16 14:37	09/30/16 21:51	1
2,4-Dichlorophenol	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
2,4-Dimethylphenol	ND		1.9		ug/L		09/27/16 14:37	09/30/16 21:51	1
2,4-Dinitrophenol	ND		4.8		ug/L		09/27/16 14:37	09/30/16 21:51	1
2,4-Dinitrotoluene	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
2,6-Dinitrotoluene	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
2-Chloronaphthalene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 21:51	1
2-Chlorophenol	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
2-Methylnaphthalene	ND		0.19		ug/L		09/27/16 14:37	09/30/16 21:51	1
2-Methylphenol	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
2-Nitroaniline	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
2-Nitrophenol	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
3 & 4 Methylphenol	ND		0.77		ug/L		09/27/16 14:37	09/30/16 21:51	1
3,3'-Dichlorobenzidine	ND		1.9		ug/L		09/27/16 14:37	09/30/16 21:51	1
3-Nitroaniline	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
4,6-Dinitro-2-methylphenol	ND		3.8		ug/L		09/27/16 14:37	09/30/16 21:51	1
4-Bromophenyl phenyl ether	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
4-Chloro-3-methylphenol	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: MW-91A-0916

Date Collected: 09/22/16 18:00
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-7

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
4-Chlorophenyl phenyl ether	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
4-Nitroaniline	ND		0.58		ug/L		09/27/16 14:37	09/30/16 21:51	1
4-Nitrophenol	ND		2.9		ug/L		09/27/16 14:37	09/30/16 21:51	1
Acenaphthene	ND		0.096		ug/L		09/27/16 14:37	09/30/16 21:51	1
Acenaphthylene	ND		0.077		ug/L		09/27/16 14:37	09/30/16 21:51	1
Anthracene	ND		0.038		ug/L		09/27/16 14:37	09/30/16 21:51	1
Benzo[a]anthracene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 21:51	1
Benzo[a]pyrene	ND		0.038		ug/L		09/27/16 14:37	09/30/16 21:51	1
Benzo[b]fluoranthene	ND		0.077		ug/L		09/27/16 14:37	09/30/16 21:51	1
Benzo[g,h,i]perylene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 21:51	1
Benzo[k]fluoranthene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 21:51	1
Benzoic acid	ND		2.9		ug/L		09/27/16 14:37	09/30/16 21:51	1
Benzyl alcohol	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Bis(2-chloroethoxy)methane	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Bis(2-chloroethyl)ether	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Bis(2-ethylhexyl) phthalate	ND		2.9		ug/L		09/27/16 14:37	09/30/16 21:51	1
bis(chloroisopropyl) ether	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Butyl benzyl phthalate	ND		0.58		ug/L		09/27/16 14:37	09/30/16 21:51	1
Carbazole	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Chrysene	ND		0.038		ug/L		09/27/16 14:37	09/30/16 21:51	1
Dibenz(a,h)anthracene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 21:51	1
Dibenzofuran	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Diethyl phthalate	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Dimethyl phthalate	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Di-n-butyl phthalate	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Di-n-octyl phthalate	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Fluoranthene	ND		0.048		ug/L		09/27/16 14:37	09/30/16 21:51	1
Fluorene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 21:51	1
Hexachlorobenzene	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Hexachlorobutadiene	ND		0.58		ug/L		09/27/16 14:37	09/30/16 21:51	1
Hexachlorocyclopentadiene	ND		1.9		ug/L		09/27/16 14:37	09/30/16 21:51	1
Hexachloroethane	ND		0.58		ug/L		09/27/16 14:37	09/30/16 21:51	1
Indeno[1,2,3-cd]pyrene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 21:51	1
Isophorone	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Naphthalene	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Nitrobenzene	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
N-Nitrosodi-n-propylamine	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
N-Nitrosodiphenylamine	ND		0.38		ug/L		09/27/16 14:37	09/30/16 21:51	1
Pentachlorophenol	ND		0.67		ug/L		09/27/16 14:37	09/30/16 21:51	1
Phenanthrene	ND		0.077		ug/L		09/27/16 14:37	09/30/16 21:51	1
Phenol	ND		0.58		ug/L		09/27/16 14:37	09/30/16 21:51	1
Pyrene	ND		0.058		ug/L		09/27/16 14:37	09/30/16 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*102*		*57 - 132*	*09/27/16 14:37*	*09/30/16 21:51*	*1*
2-Fluorobiphenyl	*77*		*50 - 120*	*09/27/16 14:37*	*09/30/16 21:51*	*1*
2-Fluorophenol (Surr)	*86*		*50 - 113*	*09/27/16 14:37*	*09/30/16 21:51*	*1*
Nitrobenzene-d5 (Surr)	*86*		*59 - 120*	*09/27/16 14:37*	*09/30/16 21:51*	*1*
Phenol-d5 (Surr)	*85*		*52 - 120*	*09/27/16 14:37*	*09/30/16 21:51*	*1*

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62759-1

Client Sample ID: MW-91A-0916

Date Collected: 09/22/16 18:00
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-7

Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	111		72 - 140	09/27/16 14:37	09/30/16 21:51	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: TB-12-0916

Date Collected: 09/21/16 10:25
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/28/16 12:16	1
Chloromethane	ND		5.0		ug/L			09/28/16 12:16	1
Vinyl chloride	ND		1.0		ug/L			09/28/16 12:16	1
Bromomethane	ND		5.0		ug/L			09/28/16 12:16	1
Chloroethane	ND		5.0		ug/L			09/28/16 12:16	1
Trichlorofluoromethane	ND		3.0		ug/L			09/28/16 12:16	1
1,1-Dichloroethene	ND		2.0		ug/L			09/28/16 12:16	1
Carbon disulfide	ND		1.0		ug/L			09/28/16 12:16	1
Acetone	ND		50		ug/L			09/28/16 12:16	1
Methylene Chloride	ND		5.0		ug/L			09/28/16 12:16	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/28/16 12:16	1
1,1-Dichloroethane	ND		2.0		ug/L			09/28/16 12:16	1
2,2-Dichloropropane	ND		3.0		ug/L			09/28/16 12:16	1
2-Butanone	ND		20		ug/L			09/28/16 12:16	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/28/16 12:16	1
Bromochloromethane	ND		2.0		ug/L			09/28/16 12:16	1
Chloroform	ND		5.0		ug/L			09/28/16 12:16	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/28/16 12:16	1
Carbon tetrachloride	ND		3.0		ug/L			09/28/16 12:16	1
1,1-Dichloropropene	ND		3.0		ug/L			09/28/16 12:16	1
Benzene	ND		2.0		ug/L			09/28/16 12:16	1
1,2-Dichloroethane	ND		1.0		ug/L			09/28/16 12:16	1
Trichloroethene	ND		3.0		ug/L			09/28/16 12:16	1
1,2-Dichloropropane	ND		1.0		ug/L			09/28/16 12:16	1
Dibromomethane	ND		1.0		ug/L			09/28/16 12:16	1
Bromodichloromethane	ND		2.0		ug/L			09/28/16 12:16	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/28/16 12:16	1
4-Methyl-2-pentanone	ND		15		ug/L			09/28/16 12:16	1
Toluene	ND		2.0		ug/L			09/28/16 12:16	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/28/16 12:16	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/28/16 12:16	1
Tetrachloroethene	ND		3.0		ug/L			09/28/16 12:16	1
1,3-Dichloropropane	ND		1.0		ug/L			09/28/16 12:16	1
2-Hexanone	ND		20		ug/L			09/28/16 12:16	1
Dibromochloromethane	ND		1.0		ug/L			09/28/16 12:16	1
1,2-Dibromoethane	ND		1.0		ug/L			09/28/16 12:16	1
Chlorobenzene	ND		2.0		ug/L			09/28/16 12:16	1
Ethylbenzene	ND		3.0		ug/L			09/28/16 12:16	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/28/16 12:16	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/28/16 12:16	1
o-Xylene	ND		2.0		ug/L			09/28/16 12:16	1
Styrene	ND		5.0		ug/L			09/28/16 12:16	1
Bromoform	ND		1.0		ug/L			09/28/16 12:16	1
Isopropylbenzene	ND		2.0		ug/L			09/28/16 12:16	1
Bromobenzene	ND		2.0		ug/L			09/28/16 12:16	1
N-Propylbenzene	ND		3.0		ug/L			09/28/16 12:16	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/28/16 12:16	1
4-Chlorotoluene	ND		2.0		ug/L			09/28/16 12:16	1
t-Butylbenzene	ND		3.0		ug/L			09/28/16 12:16	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: TB-12-0916

Date Collected: 09/21/16 10:25
Date Received: 09/26/16 10:30

Lab Sample ID: 580-62759-8

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/28/16 12:16	1
sec-Butylbenzene	ND		3.0		ug/L			09/28/16 12:16	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/28/16 12:16	1
4-Isopropyltoluene	ND		3.0		ug/L			09/28/16 12:16	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/28/16 12:16	1
n-Butylbenzene	ND		3.0		ug/L			09/28/16 12:16	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/28/16 12:16	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/28/16 12:16	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/28/16 12:16	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/28/16 12:16	1
Hexachlorobutadiene	ND		2.0		ug/L			09/28/16 12:16	1
Naphthalene	ND		2.0		ug/L			09/28/16 12:16	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/28/16 12:16	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/28/16 12:16	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/28/16 12:16	1
2-Chlorotoluene	ND		3.0		ug/L			09/28/16 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*82 - 122*		*09/28/16 12:16*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 125*		*09/28/16 12:16*	*1*
Dibromofluoromethane (Surr)	*93*		*77 - 118*		*09/28/16 12:16*	*1*
Trifluorotoluene (Surr)	*99*		*80 - 141*		*09/28/16 12:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 143*		*09/28/16 12:16*	*1*

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-228501/4
Matrix: Water
Analysis Batch: 228501

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.0		ug/L			09/28/16 10:22	1
Bromomethane	ND		5.0		ug/L			09/28/16 10:22	1
Chloroethane	ND		5.0		ug/L			09/28/16 10:22	1
Chloromethane	ND		5.0		ug/L			09/28/16 10:22	1
Trichlorofluoromethane	ND		3.0		ug/L			09/28/16 10:22	1
Vinyl chloride	ND		1.0		ug/L			09/28/16 10:22	1
1,1-Dichloroethene	ND		2.0		ug/L			09/28/16 10:22	1
Carbon disulfide	ND		1.0		ug/L			09/28/16 10:22	1
Acetone	ND		50		ug/L			09/28/16 10:22	1
Methylene Chloride	ND		5.0		ug/L			09/28/16 10:22	1
trans-1,2-Dichloroethene	ND		3.0		ug/L			09/28/16 10:22	1
1,1-Dichloroethane	ND		2.0		ug/L			09/28/16 10:22	1
2,2-Dichloropropane	ND		3.0		ug/L			09/28/16 10:22	1
2-Butanone	ND		20		ug/L			09/28/16 10:22	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			09/28/16 10:22	1
Bromochloromethane	ND		2.0		ug/L			09/28/16 10:22	1
Chloroform	ND		5.0		ug/L			09/28/16 10:22	1
1,1,1-Trichloroethane	ND		3.0		ug/L			09/28/16 10:22	1
Carbon tetrachloride	ND		3.0		ug/L			09/28/16 10:22	1
1,1-Dichloropropene	ND		3.0		ug/L			09/28/16 10:22	1
Benzene	ND		2.0		ug/L			09/28/16 10:22	1
1,2-Dichloroethane	ND		1.0		ug/L			09/28/16 10:22	1
Trichloroethene	ND		3.0		ug/L			09/28/16 10:22	1
1,2-Dichloropropane	ND		1.0		ug/L			09/28/16 10:22	1
Dibromomethane	ND		1.0		ug/L			09/28/16 10:22	1
Bromodichloromethane	ND		2.0		ug/L			09/28/16 10:22	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			09/28/16 10:22	1
4-Methyl-2-pentanone	ND		15		ug/L			09/28/16 10:22	1
Toluene	ND		2.0		ug/L			09/28/16 10:22	1
trans-1,3-Dichloropropene	ND		1.0		ug/L			09/28/16 10:22	1
1,1,2-Trichloroethane	ND		1.0		ug/L			09/28/16 10:22	1
Tetrachloroethene	ND		3.0		ug/L			09/28/16 10:22	1
1,3-Dichloropropane	ND		1.0		ug/L			09/28/16 10:22	1
2-Hexanone	ND		20		ug/L			09/28/16 10:22	1
Dibromochloromethane	ND		1.0		ug/L			09/28/16 10:22	1
1,2-Dibromoethane	ND		1.0		ug/L			09/28/16 10:22	1
Chlorobenzene	ND		2.0		ug/L			09/28/16 10:22	1
Ethylbenzene	ND		3.0		ug/L			09/28/16 10:22	1
1,1,1,2-Tetrachloroethane	ND		2.0		ug/L			09/28/16 10:22	1
m-Xylene & p-Xylene	ND		3.0		ug/L			09/28/16 10:22	1
o-Xylene	ND		2.0		ug/L			09/28/16 10:22	1
Styrene	ND		5.0		ug/L			09/28/16 10:22	1
Bromoform	ND		1.0		ug/L			09/28/16 10:22	1
Isopropylbenzene	ND		2.0		ug/L			09/28/16 10:22	1
Bromobenzene	ND		2.0		ug/L			09/28/16 10:22	1
N-Propylbenzene	ND		3.0		ug/L			09/28/16 10:22	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			09/28/16 10:22	1
4-Chlorotoluene	ND		2.0		ug/L			09/28/16 10:22	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62759-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 580-228501/4
Matrix: Water
Analysis Batch: 228501

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
t-Butylbenzene	ND		3.0		ug/L			09/28/16 10:22	1
1,2,4-Trimethylbenzene	ND		3.0		ug/L			09/28/16 10:22	1
sec-Butylbenzene	ND		3.0		ug/L			09/28/16 10:22	1
1,3-Dichlorobenzene	ND		2.0		ug/L			09/28/16 10:22	1
4-Isopropyltoluene	ND		3.0		ug/L			09/28/16 10:22	1
1,4-Dichlorobenzene	ND		4.0		ug/L			09/28/16 10:22	1
n-Butylbenzene	ND		3.0		ug/L			09/28/16 10:22	1
1,2-Dichlorobenzene	ND		2.0		ug/L			09/28/16 10:22	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/L			09/28/16 10:22	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			09/28/16 10:22	1
1,2,3-Trichlorobenzene	ND		2.0		ug/L			09/28/16 10:22	1
Hexachlorobutadiene	ND		2.0		ug/L			09/28/16 10:22	1
Naphthalene	ND		2.0		ug/L			09/28/16 10:22	1
Methyl tert-butyl ether	ND		1.0		ug/L			09/28/16 10:22	1
1,2,3-Trichloropropane	ND		2.0		ug/L			09/28/16 10:22	1
1,3,5-Trimethylbenzene	ND		3.0		ug/L			09/28/16 10:22	1
2-Chlorotoluene	ND		3.0		ug/L			09/28/16 10:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*82 - 122*		*09/28/16 10:22*	*1*
4-Bromofluorobenzene (Surr)	*93*		*75 - 125*		*09/28/16 10:22*	*1*
Dibromofluoromethane (Surr)	*105*		*77 - 118*		*09/28/16 10:22*	*1*
Trifluorotoluene (Surr)	*97*		*80 - 141*		*09/28/16 10:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*65 - 143*		*09/28/16 10:22*	*1*

Lab Sample ID: LCS 580-228501/5
Matrix: Water
Analysis Batch: 228501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	10.1		ug/L		101	20 - 141
Bromomethane	10.0	9.12		ug/L		91	55 - 125
Chloroethane	10.0	10.3		ug/L		103	60 - 126
Chloromethane	10.0	12.2		ug/L		122	40 - 149
Trichlorofluoromethane	10.0	8.49		ug/L		85	49 - 130
Vinyl chloride	10.0	10.2		ug/L		102	56 - 114
1,1-Dichloroethene	10.1	10.4		ug/L		103	70 - 117
Carbon disulfide	10.0	10.9		ug/L		109	63 - 122
Acetone	50.0	46.1	J	ug/L		92	20 - 150
Methylene Chloride	10.0	10.8		ug/L		107	70 - 115
trans-1,2-Dichloroethene	10.0	10.8		ug/L		108	72 - 113
1,1-Dichloroethane	10.0	10.7		ug/L		107	70 - 135
2,2-Dichloropropane	10.0	9.62		ug/L		96	50 - 140
2-Butanone	50.0	62.0		ug/L		124	30 - 150
cis-1,2-Dichloroethene	10.0	10.1		ug/L		100	70 - 111
Bromochloromethane	10.0	9.13		ug/L		91	65 - 120
Chloroform	10.0	9.60		ug/L		96	80 - 119
1,1,1-Trichloroethane	10.0	9.11		ug/L		91	65 - 130

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-228501/5
Matrix: Water
Analysis Batch: 228501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon tetrachloride	10.0	8.47		ug/L		85	65 - 124
1,1-Dichloropropene	10.0	10.1		ug/L		101	75 - 120
Benzene	10.0	10.8		ug/L		107	80 - 120
1,2-Dichloroethane	10.0	9.36		ug/L		94	58 - 143
Trichloroethene	10.0	9.83		ug/L		98	70 - 125
1,2-Dichloropropane	10.0	11.0		ug/L		110	58 - 150
Dibromomethane	10.0	9.06		ug/L		90	61 - 142
Bromodichloromethane	10.0	9.45		ug/L		94	75 - 120
cis-1,3-Dichloropropene	10.0	11.4		ug/L		114	77 - 117
4-Methyl-2-pentanone	50.0	61.5		ug/L		123	20 - 150
Toluene	10.0	10.8		ug/L		108	75 - 120
trans-1,3-Dichloropropene	10.0	10.8		ug/L		108	73 - 122
1,1,2-Trichloroethane	10.0	10.6		ug/L		106	69 - 135
Tetrachloroethene	10.0	10.1		ug/L		101	70 - 124
1,3-Dichloropropane	10.0	10.9		ug/L		109	69 - 134
2-Hexanone	50.0	64.6		ug/L		129	20 - 150
Dibromochloromethane	10.0	9.33		ug/L		93	71 - 118
1,2-Dibromoethane	10.0	10.5		ug/L		105	66 - 133
Chlorobenzene	10.0	10.8		ug/L		107	80 - 120
Ethylbenzene	10.0	11.2		ug/L		111	75 - 119
1,1,1,2-Tetrachloroethane	10.0	9.66		ug/L		96	64 - 130
m-Xylene & p-Xylene	10.0	10.4		ug/L		104	75 - 119
o-Xylene	10.0	10.6		ug/L		106	74 - 120
Styrene	10.0	10.5		ug/L		105	76 - 116
Bromoform	10.0	8.25		ug/L		82	55 - 130
Isopropylbenzene	10.0	10.6		ug/L		106	75 - 125
Bromobenzene	10.0	10.6		ug/L		106	75 - 115
N-Propylbenzene	10.0	11.8		ug/L		118	70 - 124
1,1,2,2-Tetrachloroethane	10.0	12.2		ug/L		122	65 - 130
4-Chlorotoluene	10.0	11.0		ug/L		110	68 - 121
t-Butylbenzene	10.0	10.4		ug/L		104	70 - 121
1,2,4-Trimethylbenzene	10.0	11.0		ug/L		110	75 - 121
sec-Butylbenzene	10.0	11.0		ug/L		110	70 - 125
1,3-Dichlorobenzene	10.0	10.6		ug/L		106	72 - 116
4-Isopropyltoluene	10.0	10.5		ug/L		105	66 - 120
1,4-Dichlorobenzene	10.0	10.6		ug/L		105	75 - 117
n-Butylbenzene	10.0	10.4		ug/L		104	70 - 120
1,2-Dichlorobenzene	10.0	10.8		ug/L		108	70 - 120
1,2-Dibromo-3-Chloropropane	10.0	10.3		ug/L		103	58 - 141
1,2,4-Trichlorobenzene	10.0	9.96		ug/L		100	56 - 129
1,2,3-Trichlorobenzene	10.0	9.56		ug/L		95	55 - 133
Hexachlorobutadiene	10.0	9.12		ug/L		91	56 - 125
Naphthalene	10.0	10.9		ug/L		109	55 - 134
Methyl tert-butyl ether	10.0	10.7		ug/L		106	65 - 125
1,2,3-Trichloropropane	10.0	11.7		ug/L		117	65 - 135
1,3,5-Trimethylbenzene	10.0	10.7		ug/L		107	75 - 122
2-Chlorotoluene	10.0	10.9		ug/L		109	69 - 125

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 580-228501/5
Matrix: Water
Analysis Batch: 228501

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*82 - 122*
4-Bromofluorobenzene (Surr)	*94*		*75 - 125*
Dibromofluoromethane (Surr)	*91*		*77 - 118*
Trifluorotoluene (Surr)	*93*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*92*		*65 - 143*

Lab Sample ID: LCSD 580-228501/6
Matrix: Water
Analysis Batch: 228501

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dichlorodifluoromethane	10.0	9.64		ug/L		96	20 - 141	4	35
Bromomethane	10.0	8.83		ug/L		88	55 - 125	3	30
Chloroethane	10.0	10.7		ug/L		107	60 - 126	4	30
Chloromethane	10.0	12.0		ug/L		120	40 - 149	1	22
Trichlorofluoromethane	10.0	7.64		ug/L		76	49 - 130	10	35
Vinyl chloride	10.0	10.3		ug/L		103	56 - 114	1	23
1,1-Dichloroethene	10.1	10.1		ug/L		100	70 - 117	3	21
Carbon disulfide	10.0	11.5		ug/L		115	63 - 122	5	20
Acetone	50.0	45.4	J	ug/L		91	20 - 150	1	35
Methylene Chloride	10.0	10.8		ug/L		107	70 - 115	0	19
trans-1,2-Dichloroethene	10.0	11.0		ug/L		110	72 - 113	2	21
1,1-Dichloroethane	10.0	11.0		ug/L		110	70 - 135	3	20
2,2-Dichloropropane	10.0	9.87		ug/L		99	50 - 140	3	20
2-Butanone	50.0	64.3		ug/L		129	30 - 150	4	35
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	70 - 111	1	15
Bromochloromethane	10.0	9.73		ug/L		97	65 - 120	6	17
Chloroform	10.0	9.68		ug/L		97	80 - 119	1	15
1,1,1-Trichloroethane	10.0	9.00		ug/L		90	65 - 130	1	18
Carbon tetrachloride	10.0	8.43		ug/L		84	65 - 124	0	19
1,1-Dichloropropene	10.0	10.4		ug/L		104	75 - 120	3	20
Benzene	10.0	10.9		ug/L		109	80 - 120	1	14
1,2-Dichloroethane	10.0	9.36		ug/L		94	58 - 143	0	17
Trichloroethene	10.0	9.72		ug/L		97	70 - 125	1	23
1,2-Dichloropropane	10.0	11.2		ug/L		112	58 - 150	2	15
Dibromomethane	10.0	9.30		ug/L		93	61 - 142	3	15
Bromodichloromethane	10.0	9.65		ug/L		96	75 - 120	2	14
cis-1,3-Dichloropropene	10.0	11.2		ug/L		112	77 - 117	2	24
4-Methyl-2-pentanone	50.0	65.1		ug/L		130	20 - 150	6	30
Toluene	10.0	10.7		ug/L		107	75 - 120	2	19
trans-1,3-Dichloropropene	10.0	10.8		ug/L		108	73 - 122	0	30
1,1,2-Trichloroethane	10.0	10.5		ug/L		105	69 - 135	1	24
Tetrachloroethene	10.0	9.63		ug/L		96	70 - 124	5	20
1,3-Dichloropropane	10.0	11.0		ug/L		109	69 - 134	0	23
2-Hexanone	50.0	67.6		ug/L		135	20 - 150	5	30
Dibromochloromethane	10.0	8.81		ug/L		88	71 - 118	6	21
1,2-Dibromoethane	10.0	10.3		ug/L		103	66 - 133	2	17
Chlorobenzene	10.0	10.7		ug/L		106	80 - 120	1	15

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62759-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 580-228501/6
Matrix: Water
Analysis Batch: 228501

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	10.0	11.0		ug/L		110	75 - 119	2	14
1,1,1,2-Tetrachloroethane	10.0	9.41		ug/L		94	64 - 130	3	20
m-Xylene & p-Xylene	10.0	10.4		ug/L		104	75 - 119	0	14
o-Xylene	10.0	10.5		ug/L		105	74 - 120	1	16
Styrene	10.0	10.5		ug/L		105	76 - 116	0	16
Bromoform	10.0	8.14		ug/L		81	55 - 130	1	20
Isopropylbenzene	10.0	10.3		ug/L		103	75 - 125	3	20
Bromobenzene	10.0	10.7		ug/L		107	75 - 115	1	13
N-Propylbenzene	10.0	11.4		ug/L		114	70 - 124	4	13
1,1,2,2-Tetrachloroethane	10.0	12.2		ug/L		122	65 - 130	0	18
4-Chlorotoluene	10.0	10.7		ug/L		106	68 - 121	4	15
t-Butylbenzene	10.0	10.4		ug/L		104	70 - 121	1	14
1,2,4-Trimethylbenzene	10.0	10.7		ug/L		107	75 - 121	3	16
sec-Butylbenzene	10.0	10.3		ug/L		103	70 - 125	7	15
1,3-Dichlorobenzene	10.0	10.4		ug/L		104	72 - 116	2	14
4-Isopropyltoluene	10.0	10.2		ug/L		102	66 - 120	3	13
1,4-Dichlorobenzene	10.0	10.2		ug/L		102	75 - 117	3	17
n-Butylbenzene	10.0	9.75		ug/L		97	70 - 120	6	20
1,2-Dichlorobenzene	10.0	10.7		ug/L		107	70 - 120	1	15
1,2-Dibromo-3-Chloropropane	10.0	10.8		ug/L		108	58 - 141	5	30
1,2,4-Trichlorobenzene	10.0	10.3		ug/L		103	56 - 129	3	22
1,2,3-Trichlorobenzene	10.0	9.76		ug/L		97	55 - 133	2	35
Hexachlorobutadiene	10.0	9.14		ug/L		91	56 - 125	0	19
Naphthalene	10.0	11.5		ug/L		115	55 - 134	5	30
Methyl tert-butyl ether	10.0	11.0		ug/L		110	65 - 125	3	18
1,2,3-Trichloropropane	10.0	11.6		ug/L		116	65 - 135	1	22
1,3,5-Trimethylbenzene	10.0	10.4		ug/L		104	75 - 122	3	14
2-Chlorotoluene	10.0	10.8		ug/L		108	69 - 125	1	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*82 - 122*
4-Bromofluorobenzene (Surr)	*95*		*75 - 125*
Dibromofluoromethane (Surr)	*93*		*77 - 118*
Trifluorotoluene (Surr)	*96*		*80 - 141*
1,2-Dichloroethane-d4 (Surr)	*94*		*65 - 143*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-228461/1-A
Matrix: Water
Analysis Batch: 228761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 228461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
1,2-Dichlorobenzene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
1,3-Dichlorobenzene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
1,4-Dichlorobenzene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
1-Methylnaphthalene	ND		0.060		ug/L		09/27/16 14:37	09/30/16 14:41	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-228461/1-A
Matrix: Water
Analysis Batch: 228761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 228461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
2,4,6-Trichlorophenol	ND		0.60		ug/L		09/27/16 14:37	09/30/16 14:41	1
2,4-Dichlorophenol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
2,4-Dimethylphenol	ND		2.0		ug/L		09/27/16 14:37	09/30/16 14:41	1
2,4-Dinitrophenol	ND		5.0		ug/L		09/27/16 14:37	09/30/16 14:41	1
2,4-Dinitrotoluene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
2,6-Dinitrotoluene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
2-Chloronaphthalene	ND		0.060		ug/L		09/27/16 14:37	09/30/16 14:41	1
2-Chlorophenol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
2-Methylnaphthalene	ND		0.20		ug/L		09/27/16 14:37	09/30/16 14:41	1
2-Methylphenol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
2-Nitroaniline	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
2-Nitrophenol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
3 & 4 Methylphenol	ND		0.80		ug/L		09/27/16 14:37	09/30/16 14:41	1
3,3'-Dichlorobenzidine	ND		2.0		ug/L		09/27/16 14:37	09/30/16 14:41	1
3-Nitroaniline	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
4,6-Dinitro-2-methylphenol	ND		4.0		ug/L		09/27/16 14:37	09/30/16 14:41	1
4-Bromophenyl phenyl ether	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
4-Chloro-3-methylphenol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
4-Chloroaniline	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
4-Chlorophenyl phenyl ether	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
4-Nitroaniline	ND		0.60		ug/L		09/27/16 14:37	09/30/16 14:41	1
4-Nitrophenol	ND		3.0		ug/L		09/27/16 14:37	09/30/16 14:41	1
Acenaphthene	ND		0.10		ug/L		09/27/16 14:37	09/30/16 14:41	1
Acenaphthylene	ND		0.080		ug/L		09/27/16 14:37	09/30/16 14:41	1
Anthracene	ND		0.040		ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzo[a]anthracene	ND		0.060		ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzo[a]pyrene	ND		0.040		ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzo[b]fluoranthene	ND		0.080		ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzo[g,h,i]perylene	ND		0.060		ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzo[k]fluoranthene	ND		0.060		ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzoic acid	ND		3.0		ug/L		09/27/16 14:37	09/30/16 14:41	1
Benzyl alcohol	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Bis(2-chloroethoxy)methane	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Bis(2-chloroethyl)ether	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Bis(2-ethylhexyl) phthalate	ND		3.0		ug/L		09/27/16 14:37	09/30/16 14:41	1
bis(chloroisopropyl) ether	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Butyl benzyl phthalate	ND		0.60		ug/L		09/27/16 14:37	09/30/16 14:41	1
Carbazole	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Chrysene	ND		0.040		ug/L		09/27/16 14:37	09/30/16 14:41	1
Dibenz(a,h)anthracene	ND		0.060		ug/L		09/27/16 14:37	09/30/16 14:41	1
Dibenzofuran	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Diethyl phthalate	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Dimethyl phthalate	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Di-n-butyl phthalate	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Di-n-octyl phthalate	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Fluoranthene	ND		0.050		ug/L		09/27/16 14:37	09/30/16 14:41	1
Fluorene	ND		0.060		ug/L		09/27/16 14:37	09/30/16 14:41	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 580-228461/1-A
Matrix: Water
Analysis Batch: 228761

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 228461

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Hexachlorobutadiene	ND		0.60		ug/L		09/27/16 14:37	09/30/16 14:41	1
Hexachlorocyclopentadiene	ND		2.0		ug/L		09/27/16 14:37	09/30/16 14:41	1
Hexachloroethane	ND		0.60		ug/L		09/27/16 14:37	09/30/16 14:41	1
Indeno[1,2,3-cd]pyrene	ND		0.060		ug/L		09/27/16 14:37	09/30/16 14:41	1
Isophorone	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Naphthalene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Nitrobenzene	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
N-Nitrosodi-n-propylamine	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
N-Nitrosodiphenylamine	ND		0.40		ug/L		09/27/16 14:37	09/30/16 14:41	1
Pentachlorophenol	ND		0.70		ug/L		09/27/16 14:37	09/30/16 14:41	1
Phenanthrene	ND		0.080		ug/L		09/27/16 14:37	09/30/16 14:41	1
Phenol	ND		0.60		ug/L		09/27/16 14:37	09/30/16 14:41	1
Pyrene	ND		0.060		ug/L		09/27/16 14:37	09/30/16 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*57 - 132*	*09/27/16 14:37*	*09/30/16 14:41*	*1*
2-Fluorobiphenyl	*81*		*50 - 120*	*09/27/16 14:37*	*09/30/16 14:41*	*1*
2-Fluorophenol (Surr)	*74*		*50 - 113*	*09/27/16 14:37*	*09/30/16 14:41*	*1*
Nitrobenzene-d5 (Surr)	*83*		*59 - 120*	*09/27/16 14:37*	*09/30/16 14:41*	*1*
Phenol-d5 (Surr)	*78*		*52 - 120*	*09/27/16 14:37*	*09/30/16 14:41*	*1*
Terphenyl-d14 (Surr)	*98*		*72 - 140*	*09/27/16 14:37*	*09/30/16 14:41*	*1*

Lab Sample ID: LCS 580-228461/2-A
Matrix: Water
Analysis Batch: 228761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	2.00	1.37		ug/L		68	40 - 115
1,2-Dichlorobenzene	2.00	1.69		ug/L		85	44 - 119
1,3-Dichlorobenzene	2.00	1.49		ug/L		75	34 - 116
1,4-Dichlorobenzene	2.00	1.42		ug/L		71	40 - 118
1-Methylnaphthalene	2.00	1.89		ug/L		94	54 - 119
2,4,5-Trichlorophenol	2.00	1.91		ug/L		95	56 - 122
2,4,6-Trichlorophenol	2.00	1.89		ug/L		95	55 - 134
2,4-Dichlorophenol	2.00	1.71		ug/L		86	50 - 125
2,4-Dimethylphenol	2.00	1.04	J	ug/L		52	20 - 106
2,4-Dinitrophenol	4.00	2.94	J	ug/L		73	24 - 139
2,4-Dinitrotoluene	2.00	1.91		ug/L		96	40 - 143
2,6-Dinitrotoluene	2.00	2.07		ug/L		103	45 - 134
2-Chloronaphthalene	2.00	1.86		ug/L		93	55 - 125
2-Chlorophenol	2.00	2.11		ug/L		106	57 - 125
2-Methylnaphthalene	2.00	1.74		ug/L		87	56 - 117
2-Methylphenol	2.00	1.83		ug/L		92	53 - 118
2-Nitroaniline	2.00	2.25		ug/L		113	58 - 124
2-Nitrophenol	2.00	1.68		ug/L		84	20 - 150
3 & 4 Methylphenol	2.00	1.87		ug/L		93	54 - 112
3,3'-Dichlorobenzidine	4.00	0.215	J *	ug/L		5	20 - 121

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62759-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-228461/2-A
Matrix: Water
Analysis Batch: 228761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228461

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
3-Nitroaniline	2.00	0.773		ug/L		39	22 - 124
4,6-Dinitro-2-methylphenol	4.00	2.42	J	ug/L		60	20 - 150
4-Bromophenyl phenyl ether	2.00	2.00		ug/L		100	62 - 132
4-Chloro-3-methylphenol	2.00	1.82		ug/L		91	56 - 133
4-Chloroaniline	2.00	ND	*	ug/L		1	20 - 110
4-Chlorophenyl phenyl ether	2.00	1.96		ug/L		98	59 - 125
4-Nitroaniline	2.00	1.42		ug/L		71	40 - 118
4-Nitrophenol	4.00	3.86		ug/L		96	20 - 150
Acenaphthene	2.00	1.83		ug/L		91	55 - 113
Acenaphthylene	2.00	1.60		ug/L		80	24 - 135
Anthracene	2.00	1.44		ug/L		72	20 - 125
Benzo[a]anthracene	2.00	1.92		ug/L		96	49 - 115
Benzo[a]pyrene	2.00	1.19		ug/L		59	20 - 115
Benzo[b]fluoranthene	2.00	2.13		ug/L		107	63 - 129
Benzo[g,h,i]perylene	2.00	2.15		ug/L		108	58 - 127
Benzo[k]fluoranthene	2.00	2.06		ug/L		103	60 - 134
Benzoic acid	4.00	4.18		ug/L		105	20 - 150
Benzyl alcohol	2.00	1.89		ug/L		95	52 - 124
Bis(2-chloroethoxy)methane	2.00	1.89		ug/L		94	59 - 125
Bis(2-chloroethyl)ether	2.00	1.89		ug/L		94	55 - 125
Bis(2-ethylhexyl) phthalate	2.00	1.98	J	ug/L		99	22 - 150
bis(chloroisopropyl) ether	2.00	1.90		ug/L		95	44 - 123
Butyl benzyl phthalate	2.00	2.51		ug/L		125	46 - 150
Carbazole	2.00	2.29		ug/L		115	68 - 142
Chrysene	2.00	2.12		ug/L		106	57 - 131
Dibenz(a,h)anthracene	2.00	2.08		ug/L		104	56 - 124
Dibenzofuran	2.00	1.97		ug/L		98	60 - 125
Diethyl phthalate	2.00	1.99		ug/L		99	60 - 134
Dimethyl phthalate	2.00	2.04		ug/L		102	65 - 134
Di-n-butyl phthalate	2.00	2.22		ug/L		111	67 - 140
Di-n-octyl phthalate	2.00	2.24		ug/L		112	55 - 150
Fluoranthene	2.00	2.22		ug/L		111	70 - 135
Fluorene	2.00	2.02		ug/L		101	57 - 125
Hexachlorobenzene	2.00	1.96		ug/L		98	55 - 135
Hexachlorobutadiene	2.00	1.35		ug/L		68	25 - 125
Hexachlorocyclopentadiene	2.00	0.366	J *	ug/L		18	20 - 110
Hexachloroethane	2.00	1.40		ug/L		70	24 - 125
Indeno[1,2,3-cd]pyrene	2.00	2.32		ug/L		116	54 - 124
Isophorone	2.00	1.94		ug/L		97	64 - 125
Naphthalene	2.00	1.68		ug/L		84	56 - 119
Nitrobenzene	2.00	2.02		ug/L		101	62 - 125
N-Nitrosodi-n-propylamine	2.00	1.77		ug/L		88	54 - 120
N-Nitrosodiphenylamine	2.00	1.42		ug/L		71	40 - 124
Pentachlorophenol	4.00	3.96		ug/L		99	30 - 122
Phenanthrene	2.00	1.98		ug/L		99	57 - 125
Phenol	2.00	1.90		ug/L		95	53 - 113
Pyrene	2.00	2.21		ug/L		110	64 - 128

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 580-62759-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 580-228461/2-A
Matrix: Water
Analysis Batch: 228761

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 228461

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	103		57 - 132
2-Fluorobiphenyl	89		50 - 120
2-Fluorophenol (Surr)	91		50 - 113
Nitrobenzene-d5 (Surr)	94		59 - 120
Phenol-d5 (Surr)	97		52 - 120
Terphenyl-d14 (Surr)	111		72 - 140

Lab Chronicle

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: APT-2-0916 — Lab Sample ID: 580-62759-1

Date Collected: 09/21/16 14:00 — **Matrix: Water**
Date Received: 09/26/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228501	09/28/16 12:45	TL1	TAL SEA
Total/NA	Prep	3520C			228461	09/27/16 14:37	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228761	09/30/16 19:20	ERB	TAL SEA

Client Sample ID: MW-138B-0916 — Lab Sample ID: 580-62759-2

Date Collected: 09/21/16 10:25 — **Matrix: Water**
Date Received: 09/26/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228501	09/28/16 13:13	TL1	TAL SEA
Total/NA	Prep	3520C			228461	09/27/16 14:37	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228761	09/30/16 19:45	ERB	TAL SEA

Client Sample ID: OW-1-0916 — Lab Sample ID: 580-62759-3

Date Collected: 09/22/16 11:19 — **Matrix: Water**
Date Received: 09/26/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228501	09/28/16 13:42	TL1	TAL SEA
Total/NA	Prep	3520C			228461	09/27/16 14:37	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228761	09/30/16 20:11	ERB	TAL SEA

Client Sample ID: OW-2-0916 — Lab Sample ID: 580-62759-4

Date Collected: 09/22/16 13:10 — **Matrix: Water**
Date Received: 09/26/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228501	09/28/16 14:11	TL1	TAL SEA
Total/NA	Prep	3520C			228461	09/27/16 14:37	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228761	09/30/16 20:36	ERB	TAL SEA

Client Sample ID: OW-3-0916 — Lab Sample ID: 580-62759-5

Date Collected: 09/22/16 14:58 — **Matrix: Water**
Date Received: 09/26/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228501	09/28/16 14:39	TL1	TAL SEA
Total/NA	Prep	3520C			228461	09/27/16 14:37	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228761	09/30/16 21:01	ERB	TAL SEA

Lab Chronicle

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Client Sample ID: OW-4-0916 — Lab Sample ID: 580-62759-6

Date Collected: 09/22/16 16:06 — **Matrix: Water**
Date Received: 09/26/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228501	09/28/16 15:08	TL1	TAL SEA
Total/NA	Prep	3520C			228461	09/27/16 14:37	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228761	09/30/16 21:26	ERB	TAL SEA

Client Sample ID: MW-91A-0916 — Lab Sample ID: 580-62759-7

Date Collected: 09/22/16 18:00 — **Matrix: Water**
Date Received: 09/26/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228501	09/28/16 15:36	TL1	TAL SEA
Total/NA	Prep	3520C			228461	09/27/16 14:37	DSO	TAL SEA
Total/NA	Analysis	8270D		1	228761	09/30/16 21:51	ERB	TAL SEA

Client Sample ID: TB-12-0916 — Lab Sample ID: 580-62759-8

Date Collected: 09/21/16 10:25 — **Matrix: Water**
Date Received: 09/26/16 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	228501	09/28/16 12:16	TL1	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Certification Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Laboratory: TestAmerica Seattle

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8270D	3520C	Water	1,2,4-Trichlorobenzene
8270D	3520C	Water	1,2-Dichlorobenzene
8270D	3520C	Water	1,3-Dichlorobenzene
8270D	3520C	Water	1,4-Dichlorobenzene
8270D	3520C	Water	2,4,5-Trichlorophenol
8270D	3520C	Water	2,4,6-Trichlorophenol
8270D	3520C	Water	2,4-Dichlorophenol
8270D	3520C	Water	2,4-Dimethylphenol
8270D	3520C	Water	2,4-Dinitrophenol
8270D	3520C	Water	2,4-Dinitrotoluene
8270D	3520C	Water	2,6-Dinitrotoluene
8270D	3520C	Water	2-Chloronaphthalene
8270D	3520C	Water	2-Chlorophenol
8270D	3520C	Water	2-Methylphenol
8270D	3520C	Water	2-Nitroaniline
8270D	3520C	Water	2-Nitrophenol
8270D	3520C	Water	3 & 4 Methylphenol
8270D	3520C	Water	3,3'-Dichlorobenzidine
8270D	3520C	Water	3-Nitroaniline
8270D	3520C	Water	4,6-Dinitro-2-methylphenol
8270D	3520C	Water	4-Bromophenyl phenyl ether
8270D	3520C	Water	4-Chloro-3-methylphenol
8270D	3520C	Water	4-Chloroaniline
8270D	3520C	Water	4-Chlorophenyl phenyl ether
8270D	3520C	Water	4-Nitroaniline
8270D	3520C	Water	4-Nitrophenol
8270D	3520C	Water	Benzoic acid
8270D	3520C	Water	Benzyl alcohol
8270D	3520C	Water	Bis(2-chloroethoxy)methane
8270D	3520C	Water	Bis(2-chloroethyl)ether
8270D	3520C	Water	Bis(2-ethylhexyl) phthalate
8270D	3520C	Water	bis(chloroisopropyl) ether
8270D	3520C	Water	Butyl benzyl phthalate
8270D	3520C	Water	Carbazole
8270D	3520C	Water	Dibenzofuran
8270D	3520C	Water	Diethyl phthalate
8270D	3520C	Water	Dimethyl phthalate
8270D	3520C	Water	Di-n-butyl phthalate
8270D	3520C	Water	Di-n-octyl phthalate
8270D	3520C	Water	Hexachlorobenzene
8270D	3520C	Water	Hexachlorobutadiene
8270D	3520C	Water	Hexachlorocyclopentadiene
8270D	3520C	Water	Hexachloroethane
8270D	3520C	Water	Isophorone
8270D	3520C	Water	Nitrobenzene
8270D	3520C	Water	N-Nitrosodi-n-propylamine

Certification Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Laboratory: TestAmerica Seattle (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-17

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8270D	3520C	Water	N-Nitrosodiphenylamine
8270D	3520C	Water	Pentachlorophenol
8270D	3520C	Water	Phenol

L-A-B	DoD ELAP		L2236	01-19-19

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,3-Dichlorobenzene

Sample Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 580-62759-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-62759-1	APT-2-0916	Water	09/21/16 14:00	09/26/16 10:30
580-62759-2	MW-138B-0916	Water	09/21/16 10:25	09/26/16 10:30
580-62759-3	OW-1-0916	Water	09/22/16 11:19	09/26/16 10:30
580-62759-4	OW-2-0916	Water	09/22/16 13:10	09/26/16 10:30
580-62759-5	OW-3-0916	Water	09/22/16 14:58	09/26/16 10:30
580-62759-6	OW-4-0916	Water	09/22/16 16:06	09/26/16 10:30
580-62759-7	MW-91A-0916	Water	09/22/16 18:00	09/26/16 10:30
580-62759-8	TB-12-0916	Water	09/21/16 10:25	09/26/16 10:30

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424-1317
phone 253.922.2310 fax 253.922.5047

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

62759

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Jason Gray	Site Contact:	Date:	COC No: 19
SLR International	Tel/Fax: (907) 862-6579	Lab Contact:	Carrier:	1 of 1 COCs
2700 Gambell Street, Suite 200	Analysis Turnaround Time			Sampler:
Anchorage, AK, 99503	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(907) 862-6579 (Cell)	TAT if different from Below _____			Walk-in Client:
(907) 264-6965 (Office phone)	☑ 2 weeks			Lab Sampling:
Project Name: Kenai Wells, Event 2	☐ 1 week			
Site: Nikiski, AK	☐ 2 days			Job / SDG No.:
P O # 105.00148.16001	☐ 1 day			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SVOC by SW8270D	VOC by SW8260B	Sample Specific Notes:
-1	APT-2-0916	09/21/16	14:00	G	GW	5	N	N	X	X	
	MW-138B-0916	09/21/16	10:25	G	GW	5	N	N	X	X	
-3	OW-1-0916	09/22/16	11:19	G	GW	3	N	N		X	
	OW-2-0916	09/22/16	13:10	G	GW	3	N	N		X	
-5	OW-3-0916	09/22/16	14:58	G	GW	3	N	N		X	
	OW-4-0916	09/22/16	16:06	G	GW	3	N	N		X	
-7	MW-91A-0916	09/22/16	18:00	G	GW	5	N	N	X	X	
	TB-12-0916	09/21/16	10:25	TB	W	2				X	

580-62759 Chain of Custody

TB A2 Cooler ___ Cor 1.4 Unc 2.1
Cooler Dsc Lg Blue/Wht @Lab —
Wet/Packs Packing Bubble
w/ice

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please login and report in same SDG with samples of cooler 22.

Custody Seals Intact: ☑ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____		
Relinquished by:	Company: SLR	Date/Time: 9-24 12:00	Received by:	Company: TA Sea	Date/Time: 9/26/16 1030
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.7, dated 11/02/2015

TestAmerica Seattle
5755 8th Street East

Tacoma, WA 98424-1317
phone 253.922.2310 fax 253.922.5047

Chain of Custody Record

62759

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Jason Gray	Site Contact:	Date:	COC No: 22
SLR International	Tel/Fax: (907) 862-6579	Lab Contact:	Carrier:	1 of 1 COCs
2700 Gambell Street, Suite 200	Analysis Turnaround Time			Sampler:
Anchorage, AK, 99503	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(907) 862-6579 (Cell)	TAT if different from Below _____			Walk-in Client:
(907) 264-6965 (Office phone)	☑ 2 weeks			Lab Sampling:
Project Name: Kenai Wells, Event 2	☐ 1 week			
Site: Nikiski, AK	☐ 2 days			Job / SDG No.:
P O # 105.00148.16001	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	SVOC by SW8270D	Sample Specific Notes:
-3 OW-1-0916	09/22/16	11:19	G	GW	2	N	N	X	
OW-2-0916	09/22/16	13:10	G	GW	2	N	N	X	
-5 OW-3-0916	09/22/16	14:58	G	GW	2	N	N	X	
OW-4-0916	09/22/16	16:06	G	GW	2	N	N	X	

TB AZ Cooler ____ Cor 3.0° Unc 3.2°
Cooler Dsc Lg Blue/white @ Lab ____
Wet/Packs Packing Bubble
w/

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Please login and report in same SDG with samples of cooler 19.

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company: SLR	Date/Time: 9-24 12:00	Received by:	Company: TASEA	Date/Time: 9/26/16 1030
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Form No. CA-C-WI-002, Rev. 4.7, dated 11/02/2015

Login Sample Receipt Checklist

Client: SLR International Corp

Job Number: 580-62759-1

Login Number: 62759
List Number: 1
Creator: Blankinship, Tom X

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002
Tel: (303)736-0100

TestAmerica Job ID: 280-88640-1
Client Project/Site: Kenai Wells, Event 2

For:
SLR International Corp
2700 Gambell Street
Suite 200
Anchorage, Alaska 99503

Attn: Jason Gray

Authorized for release by:
10/11/2016 11:30:48 AM

Robert Greer, Project Manager II
(253)922-2310
robert.greer@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions 3
Case Narrative 4
Detection Summary 5
Method Summary 6
Sample Summary 7
Client Sample Results 8
Surrogate Summary 11
QC Sample Results 12
QC Association 14
Chronicle 15
Certification Summary 18
Chain of Custody 19
Receipt Checklists 21

Definitions/Glossary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 280-88640-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

Job ID: 280-88640-1

Laboratory: TestAmerica Denver

Narrative

Job Narrative
280-88640-1

Comments
No additional comments.

Receipt
The samples were received on 9/27/2016 12:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.6º C.

Receipt Exceptions

Two of three OW-3-0916 Sodium Thiosulfate Voa Vials were received broken due to insufficient packing and were disposed of.

GC VOA
Method(s) 8011: The surrogate recovery of 1,2-Dibromopropane for the following sample was outside the upper control limit: TB-8-0916 (280-88640-14). It is believed that the sample was inadvertently extracted with 1 mL of hexane instead of 2 mL, effectively doubling all concentrations. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8011: The continuing calibration verification (CCV) associated with batch 280-345064 recovered above the upper control limit for 1,2,3-Trichloropropane on the front column. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.. The failure is due to carryover from previous samples. The following samples are impacted: OW-2-0916 (280-88640-10), OW-4-0916 (280-88640-12) and MW-91A-0916 (280-88640-13).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 280-88640-1

Client Sample ID: MW-39A-0916 — Lab Sample ID: 280-88640-1

No Detections.

Client Sample ID: MW-39B-0916 — Lab Sample ID: 280-88640-2

No Detections.

Client Sample ID: MW-62A-0916 — Lab Sample ID: 280-88640-3

No Detections.

Client Sample ID: APT-1-0916 — Lab Sample ID: 280-88640-4

No Detections.

Client Sample ID: APT-9-0916 — Lab Sample ID: 280-88640-5

No Detections.

Client Sample ID: APT-3-0916 — Lab Sample ID: 280-88640-6

No Detections.

Client Sample ID: APT-2-0916 — Lab Sample ID: 280-88640-7

No Detections.

Client Sample ID: MW-138B-0916 — Lab Sample ID: 280-88640-8

No Detections.

Client Sample ID: OW-1-0916 — Lab Sample ID: 280-88640-9

No Detections.

Client Sample ID: OW-2-0916 — Lab Sample ID: 280-88640-10

No Detections.

Client Sample ID: OW-3-0916 — Lab Sample ID: 280-88640-11

No Detections.

Client Sample ID: OW-4-0916 — Lab Sample ID: 280-88640-12

No Detections.

Client Sample ID: MW-91A-0916 — Lab Sample ID: 280-88640-13

No Detections.

Client Sample ID: TB-8-0916 — Lab Sample ID: 280-88640-14

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 280-88640-1

Method	Method Description	Protocol	Laboratory
8011	EDB, DBCP, and 1,2,3-TCP (GC)	SW846	TAL DEN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 280-88640-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-88640-1	MW-39A-0916	Water	09/19/16 10:31	09/27/16 12:30
280-88640-2	MW-39B-0916	Water	09/19/16 12:42	09/27/16 12:30
280-88640-3	MW-62A-0916	Water	09/19/16 15:03	09/27/16 12:30
280-88640-4	APT-1-0916	Water	09/20/16 10:32	09/27/16 12:30
280-88640-5	APT-9-0916	Water	09/20/16 10:32	09/27/16 12:30
280-88640-6	APT-3-0916	Water	09/20/16 12:10	09/27/16 12:30
280-88640-7	APT-2-0916	Water	09/21/16 14:00	09/27/16 12:30
280-88640-8	MW-138B-0916	Water	09/21/16 10:25	09/27/16 12:30
280-88640-9	OW-1-0916	Water	09/22/16 11:19	09/27/16 12:30
280-88640-10	OW-2-0916	Water	09/22/16 13:10	09/27/16 12:30
280-88640-11	OW-3-0916	Water	09/22/16 14:58	09/27/16 12:30
280-88640-12	OW-4-0916	Water	09/22/16 16:06	09/27/16 12:30
280-88640-13	MW-91A-0916	Water	09/22/16 18:00	09/27/16 12:30
280-88640-14	TB-8-0916	Water	09/19/16 10:31	09/27/16 12:30

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 280-88640-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Client Sample ID: MW-39A-0916 — **Lab Sample ID: 280-88640-1**
Date Collected: 09/19/16 10:31 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0049	ug/L		09/30/16 17:20	09/30/16 23:57	1
1,2-Dibromoethane	ND		0.020	0.0037	ug/L		09/30/16 17:20	09/30/16 23:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*120*		*70 - 130*	*09/30/16 17:20*	*09/30/16 23:57*	*1*

Client Sample ID: MW-39B-0916 — **Lab Sample ID: 280-88640-2**
Date Collected: 09/19/16 12:42 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0049	ug/L		09/30/16 17:20	10/01/16 00:16	1
1,2-Dibromoethane	ND		0.020	0.0036	ug/L		09/30/16 17:20	10/01/16 00:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*116*		*70 - 130*	*09/30/16 17:20*	*10/01/16 00:16*	*1*

Client Sample ID: MW-62A-0916 — **Lab Sample ID: 280-88640-3**
Date Collected: 09/19/16 15:03 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0049	ug/L		09/30/16 17:20	10/01/16 00:35	1
1,2-Dibromoethane	ND		0.020	0.0036	ug/L		09/30/16 17:20	10/01/16 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*115*		*70 - 130*	*09/30/16 17:20*	*10/01/16 00:35*	*1*

Client Sample ID: APT-1-0916 — **Lab Sample ID: 280-88640-4**
Date Collected: 09/20/16 10:32 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0050	ug/L		09/30/16 17:20	09/30/16 22:41	1
1,2-Dibromoethane	ND		0.020	0.0037	ug/L		09/30/16 17:20	09/30/16 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*116*		*70 - 130*	*09/30/16 17:20*	*09/30/16 22:41*	*1*

Client Sample ID: APT-9-0916 — **Lab Sample ID: 280-88640-5**
Date Collected: 09/20/16 10:32 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0049	ug/L		09/30/16 17:20	10/01/16 00:54	1
1,2-Dibromoethane	ND		0.020	0.0036	ug/L		09/30/16 17:20	10/01/16 00:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*116*		*70 - 130*	*09/30/16 17:20*	*10/01/16 00:54*	*1*

Client Sample ID: APT-3-0916 — **Lab Sample ID: 280-88640-6**
Date Collected: 09/20/16 12:10 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.019	0.0048	ug/L		09/30/16 17:20	10/01/16 01:13	1
1,2-Dibromoethane	ND		0.019	0.0036	ug/L		09/30/16 17:20	10/01/16 01:13	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 280-88640-1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	117		70 - 130	09/30/16 17:20	10/01/16 01:13	1

Client Sample ID: APT-2-0916 — **Lab Sample ID: 280-88640-7**
Date Collected: 09/21/16 14:00 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0049	ug/L		09/30/16 17:20	10/01/16 01:31	1
1,2-Dibromoethane	ND		0.020	0.0036	ug/L		09/30/16 17:20	10/01/16 01:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	117		70 - 130	09/30/16 17:20	10/01/16 01:31	1

Client Sample ID: MW-138B-0916 — **Lab Sample ID: 280-88640-8**
Date Collected: 09/21/16 10:25 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0050	ug/L		10/04/16 22:35	10/05/16 02:44	1
1,2-Dibromoethane	ND		0.020	0.0037	ug/L		10/04/16 22:35	10/05/16 02:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	111		70 - 130	10/04/16 22:35	10/05/16 02:44	1

Client Sample ID: OW-1-0916 — **Lab Sample ID: 280-88640-9**
Date Collected: 09/22/16 11:19 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0049	ug/L		10/04/16 22:35	10/05/16 03:03	1
1,2-Dibromoethane	ND		0.020	0.0036	ug/L		10/04/16 22:35	10/05/16 03:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	117		70 - 130	10/04/16 22:35	10/05/16 03:03	1

Client Sample ID: OW-2-0916 — **Lab Sample ID: 280-88640-10**
Date Collected: 09/22/16 13:10 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0049	ug/L		10/04/16 22:35	10/05/16 03:41	1
1,2-Dibromoethane	ND		0.020	0.0036	ug/L		10/04/16 22:35	10/05/16 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	113		70 - 130	10/04/16 22:35	10/05/16 03:41	1

Client Sample ID: OW-3-0916 — **Lab Sample ID: 280-88640-11**
Date Collected: 09/22/16 14:58 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0050	ug/L		10/04/16 22:35	10/05/16 02:25	1
1,2-Dibromoethane	ND		0.020	0.0037	ug/L		10/04/16 22:35	10/05/16 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dibromopropane	116		70 - 130	10/04/16 22:35	10/05/16 02:25	1

Client Sample ID: OW-4-0916 — **Lab Sample ID: 280-88640-12**
Date Collected: 09/22/16 16:06 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0049	ug/L		10/04/16 22:35	10/05/16 04:03	1

Client Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 280-88640-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Client Sample ID: OW-4-0916 — **Lab Sample ID: 280-88640-12**
Date Collected: 09/22/16 16:06 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		0.020	0.0036	ug/L		10/04/16 22:35	10/05/16 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*114*		*70 - 130*	*10/04/16 22:35*	*10/05/16 04:03*	*1*

Client Sample ID: MW-91A-0916 — **Lab Sample ID: 280-88640-13**
Date Collected: 09/22/16 18:00 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0050	ug/L		10/04/16 22:35	10/05/16 04:22	1
1,2-Dibromoethane	ND		0.020	0.0037	ug/L		10/04/16 22:35	10/05/16 04:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*112*		*70 - 130*	*10/04/16 22:35*	*10/05/16 04:22*	*1*

Client Sample ID: TB-8-0916 — **Lab Sample ID: 280-88640-14**
Date Collected: 09/19/16 10:31 — **Matrix: Water**
Date Received: 09/27/16 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0049	ug/L		09/30/16 17:20	09/30/16 22:22	1
1,2-Dibromoethane	ND		0.020	0.0036	ug/L		09/30/16 17:20	09/30/16 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*216*	*X*	*70 - 130*	*09/30/16 17:20*	*09/30/16 22:22*	*1*

Surrogate Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 280-88640-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)						
Lab Sample ID	**Client Sample ID**	**12DBP1 (70-130)**						
280-88640-1	MW-39A-0916	120						
280-88640-2	MW-39B-0916	116						
280-88640-3	MW-62A-0916	115						
280-88640-4	APT-1-0916	116						
280-88640-4 MS	APT-1-0916	114						
280-88640-4 MSD	APT-1-0916	116						
280-88640-5	APT-9-0916	116						
280-88640-6	APT-3-0916	117						
280-88640-7	APT-2-0916	117						
280-88640-8	MW-138B-0916	111						
280-88640-9	OW-1-0916	117						
280-88640-10	OW-2-0916	113						
280-88640-11	OW-3-0916	116						
280-88640-12	OW-4-0916	114						
280-88640-13	MW-91A-0916	112						
280-88640-14	TB-8-0916	216 X						
LCS 280-344550/3-A	Lab Control Sample	117						
LCS 280-345059/3-A	Lab Control Sample	116						
MB 280-344550/2-A	Method Blank	118						
MB 280-345059/2-A	Method Blank	119						

Surrogate Legend

12DBP = 1,2-Dibromopropane

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 280-88640-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC)

Lab Sample ID: MB 280-344550/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 344564 — **Prep Batch: 344550**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0050	ug/L		09/30/16 17:20	09/30/16 18:34	1
1,2-Dibromoethane	ND		0.020	0.0037	ug/L		09/30/16 17:20	09/30/16 18:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*118*		*70 - 130*	*09/30/16 17:20*	*09/30/16 18:34*	*1*

Lab Sample ID: LCS 280-344550/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 344564 — **Prep Batch: 344550**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	0.250	0.261		ug/L		104	70 - 130
1,2-Dibromoethane	0.250	0.244		ug/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*117*		*70 - 130*

Lab Sample ID: 280-88640-4 MS — **Client Sample ID: APT-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 344564 — **Prep Batch: 344550**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	ND		0.246	0.237		ug/L		96	70 - 130
1,2-Dibromoethane	ND		0.246	0.224		ug/L		91	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dibromopropane	*114*		*70 - 130*

Lab Sample ID: 280-88640-4 MSD — **Client Sample ID: APT-1-0916**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 344564 — **Prep Batch: 344550**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichloropropane	ND		0.244	0.237		ug/L		97	70 - 130	0	10
1,2-Dibromoethane	ND		0.244	0.225		ug/L		92	70 - 130	1	10

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dibromopropane	*116*		*70 - 130*

Lab Sample ID: MB 280-345059/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345064 — **Prep Batch: 345059**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND		0.020	0.0050	ug/L		10/04/16 22:35	10/05/16 00:10	1
1,2-Dibromoethane	ND		0.020	0.0037	ug/L		10/04/16 22:35	10/05/16 00:10	1

QC Sample Results

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 280-88640-1

Method: 8011 - EDB, DBCP, and 1,2,3-TCP (GC) (Continued)

Lab Sample ID: MB 280-345059/2-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345064 — **Prep Batch: 345059**

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dibromopropane	*119*		*70 - 130*	*10/04/16 22:35*	*10/05/16 00:10*	*1*

Lab Sample ID: LCS 280-345059/3-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 345064 — **Prep Batch: 345059**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichloropropane	0.250	0.259		ug/L		104	70 - 130
1,2-Dibromoethane	0.250	0.240		ug/L		96	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dibromopropane	*116*		*70 - 130*

QC Association Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

16-Dec-16
TestAmerica Job ID: 280-88640-1

GC Semi VOA

Prep Batch: 344550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-88640-1	MW-39A-0916	Total/NA	Water	8011	
280-88640-2	MW-39B-0916	Total/NA	Water	8011	
280-88640-3	MW-62A-0916	Total/NA	Water	8011	
280-88640-4	APT-1-0916	Total/NA	Water	8011	
280-88640-5	APT-9-0916	Total/NA	Water	8011	
280-88640-6	APT-3-0916	Total/NA	Water	8011	
280-88640-7	APT-2-0916	Total/NA	Water	8011	
280-88640-14	TB-8-0916	Total/NA	Water	8011	
MB 280-344550/2-A	Method Blank	Total/NA	Water	8011	
LCS 280-344550/3-A	Lab Control Sample	Total/NA	Water	8011	
280-88640-4 MS	APT-1-0916	Total/NA	Water	8011	
280-88640-4 MSD	APT-1-0916	Total/NA	Water	8011	

Analysis Batch: 344564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-88640-1	MW-39A-0916	Total/NA	Water	8011	344550
280-88640-2	MW-39B-0916	Total/NA	Water	8011	344550
280-88640-3	MW-62A-0916	Total/NA	Water	8011	344550
280-88640-4	APT-1-0916	Total/NA	Water	8011	344550
280-88640-5	APT-9-0916	Total/NA	Water	8011	344550
280-88640-6	APT-3-0916	Total/NA	Water	8011	344550
280-88640-7	APT-2-0916	Total/NA	Water	8011	344550
280-88640-14	TB-8-0916	Total/NA	Water	8011	344550
MB 280-344550/2-A	Method Blank	Total/NA	Water	8011	344550
LCS 280-344550/3-A	Lab Control Sample	Total/NA	Water	8011	344550
280-88640-4 MS	APT-1-0916	Total/NA	Water	8011	344550
280-88640-4 MSD	APT-1-0916	Total/NA	Water	8011	344550

Prep Batch: 345059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-88640-8	MW-138B-0916	Total/NA	Water	8011	
280-88640-9	OW-1-0916	Total/NA	Water	8011	
280-88640-10	OW-2-0916	Total/NA	Water	8011	
280-88640-11	OW-3-0916	Total/NA	Water	8011	
280-88640-12	OW-4-0916	Total/NA	Water	8011	
280-88640-13	MW-91A-0916	Total/NA	Water	8011	
MB 280-345059/2-A	Method Blank	Total/NA	Water	8011	
LCS 280-345059/3-A	Lab Control Sample	Total/NA	Water	8011	

Analysis Batch: 345064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-88640-8	MW-138B-0916	Total/NA	Water	8011	345059
280-88640-9	OW-1-0916	Total/NA	Water	8011	345059
280-88640-10	OW-2-0916	Total/NA	Water	8011	345059
280-88640-11	OW-3-0916	Total/NA	Water	8011	345059
280-88640-12	OW-4-0916	Total/NA	Water	8011	345059
280-88640-13	MW-91A-0916	Total/NA	Water	8011	345059
MB 280-345059/2-A	Method Blank	Total/NA	Water	8011	345059
LCS 280-345059/3-A	Lab Control Sample	Total/NA	Water	8011	345059

Lab Chronicle

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 280-88640-1

Client Sample ID: MW-39A-0916 — Lab Sample ID: 280-88640-1

Date Collected: 09/19/16 10:31 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.4 mL	35 mL	344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1			344564	09/30/16 23:57	MPS	TAL DEN

Client Sample ID: MW-39B-0916 — Lab Sample ID: 280-88640-2

Date Collected: 09/19/16 12:42 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.5 mL	35 mL	344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1			344564	10/01/16 00:16	MPS	TAL DEN

Client Sample ID: MW-62A-0916 — Lab Sample ID: 280-88640-3

Date Collected: 09/19/16 15:03 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.5 mL	35 mL	344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1			344564	10/01/16 00:35	MPS	TAL DEN

Client Sample ID: APT-1-0916 — Lab Sample ID: 280-88640-4

Date Collected: 09/20/16 10:32 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.3 mL	35 mL	344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1			344564	09/30/16 22:41	MPS	TAL DEN

Client Sample ID: APT-9-0916 — Lab Sample ID: 280-88640-5

Date Collected: 09/20/16 10:32 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.5 mL	35 mL	344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1			344564	10/01/16 00:54	MPS	TAL DEN

Client Sample ID: APT-3-0916 — Lab Sample ID: 280-88640-6

Date Collected: 09/20/16 12:10 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			36.1 mL	35 mL	344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1			344564	10/01/16 01:13	MPS	TAL DEN

Lab Chronicle

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 280-88640-1

Client Sample ID: APT-2-0916 — Lab Sample ID: 280-88640-7

Date Collected: 09/21/16 14:00 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.7 mL	35 mL	344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1			344564	10/01/16 01:31	MPS	TAL DEN

Client Sample ID: MW-138B-0916 — Lab Sample ID: 280-88640-8

Date Collected: 09/21/16 10:25 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.3 mL	35 mL	345059	10/04/16 22:35	MPS	TAL DEN
Total/NA	Analysis	8011		1			345064	10/05/16 02:44	MPS	TAL DEN

Client Sample ID: OW-1-0916 — Lab Sample ID: 280-88640-9

Date Collected: 09/22/16 11:19 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.7 mL	35 mL	345059	10/04/16 22:35	MPS	TAL DEN
Total/NA	Analysis	8011		1			345064	10/05/16 03:03	MPS	TAL DEN

Client Sample ID: OW-2-0916 — Lab Sample ID: 280-88640-10

Date Collected: 09/22/16 13:10 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.8 mL	35 mL	345059	10/04/16 22:35	MPS	TAL DEN
Total/NA	Analysis	8011		1			345064	10/05/16 03:41	MPS	TAL DEN

Client Sample ID: OW-3-0916 — Lab Sample ID: 280-88640-11

Date Collected: 09/22/16 14:58 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.2 mL	35 mL	345059	10/04/16 22:35	MPS	TAL DEN
Total/NA	Analysis	8011		1			345064	10/05/16 02:25	MPS	TAL DEN

Client Sample ID: OW-4-0916 — Lab Sample ID: 280-88640-12

Date Collected: 09/22/16 16:06 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.7 mL	35 mL	345059	10/04/16 22:35	MPS	TAL DEN
Total/NA	Analysis	8011		1			345064	10/05/16 04:03	MPS	TAL DEN

Lab Chronicle

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 280-88640-1

Client Sample ID: MW-91A-0916 — Lab Sample ID: 280-88640-13

Date Collected: 09/22/16 18:00 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.3 mL	35 mL	345059	10/04/16 22:35	MPS	TAL DEN
Total/NA	Analysis	8011		1			345064	10/05/16 04:22	MPS	TAL DEN

Client Sample ID: TB-8-0916 — Lab Sample ID: 280-88640-14

Date Collected: 09/19/16 10:31 — **Matrix: Water**
Date Received: 09/27/16 12:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8011			35.5 mL	35 mL	344550	09/30/16 17:20	MPS	TAL DEN
Total/NA	Analysis	8011		1			344564	09/30/16 22:22	MPS	TAL DEN

Laboratory References:

TAL DEN = TestAmerica Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Certification Summary

Client: SLR International Corp
Project/Site: Kenai Wells, Event 2

TestAmerica Job ID: 280-88640-1

Laboratory: TestAmerica Denver

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
A2LA	DoD ELAP		2907.01	10-31-17
A2LA	ISO/IEC 17025		2907.01	10-31-17
Alabama	State Program	4	40730	09-30-12 *
Alaska (UST)	State Program	10	UST-30	04-05-17
Arizona	State Program	9	AZ0713	12-19-16
Arkansas DEQ	State Program	6	88-0687	06-01-17
California	State Program	9	2513	08-31-16 *
Connecticut	State Program	1	PH-0686	09-30-18
Florida	NELAP	4	E87667	06-30-17
Georgia	State Program	4	N/A	01-09-17
Illinois	NELAP	5	200017	04-30-17
Iowa	State Program	7	370	11-30-16
Kansas	NELAP	7	E-10166	04-30-17
Louisiana	NELAP	6	02096	06-30-17
Maine	State Program	1	CO0002	03-03-17
Minnesota	NELAP	5	8-999-405	12-31-16
Nevada	State Program	9	CO0026	07-31-17
New Hampshire	NELAP	1	205310	04-28-17
New Jersey	NELAP	2	CO004	06-30-17
New York	NELAP	2	11964	04-01-17
North Carolina (WW/SW)	State Program	4	358	12-31-16
North Dakota	State Program	8	R-034	01-09-17
Oklahoma	State Program	6	8614	08-31-17
Oregon	NELAP	10	4025	01-09-17
Pennsylvania	NELAP	3	68-00664	07-31-17
South Carolina	State Program	4	72002001	01-09-17
Texas	NELAP	6	T104704183-15-11	09-30-17
USDA	Federal		P330-13-00369	12-17-16
Utah	NELAP	8	CO00026	07-31-17
Virginia	NELAP	3	460232	06-14-17
Washington	State Program	10	C583	08-03-17
West Virginia DEP	State Program	3	354	11-30-16
Wisconsin	State Program	5	999615430	08-31-17
Wyoming (UST)	A2LA	8	2907.01	10-31-17

Laboratory: TestAmerica Seattle

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska (UST)	State Program	10	UST-022	03-02-17
L-A-B	DoD ELAP		L2236	01-19-19

* Certification renewal pending - certification considered valid.

Revised COC

Chain of Custody Record

280 - 88640

TestAmerica Denver
4955 Yarrow Street
Arvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

TestAmerica

TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other:

Client Contact	Project Manager: Jason Gray	Site Contact:	Date:	COC No: 11
SLR International	Tel/Fax: (907) 862-6579	Lab Contact:	Carrier:	1 of 1 COCs
2700 Gambell Street, Suite 200	Analysis Turnaround Time			Sampler:
Anchorage, AK, 99503	CALENDAR DAYS / WORKING DAYS			For Lab Use Only:
(907) 862-6579 (Cell)	TAT if different from Below			Walk-in Client:
(907) 264-6965 (Office phone)	2 weeks			Lab Sampling:
Project Name: Kenai Wells, Event 2	1 week			
Site: Nikiski, AK	2 days			Job / SDG No.:
P O # 105.00148.16001	1 day			

280-88640 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	EDB and 123TCP by SW8011	Sample Specific Notes:
MW-39A-0916	09/19/16	10:31	G	GW	3	N	N	X	
MW-39B-0916	09/19/16	12:42	G	GW	3	N	N	X	
MW-62A-0916	09/19/16	15:03	G	GW	3	N	N	X	
APT-1-0916	09/20/16	10:32	G	GW	9	N	Y	X	MS/MSD
APT-9-0916	09/20/16	~~13:00~~	G	GW	3	N	N	X	
APT-3-0916	09/20/16	~~10:32~~	G	GW	3	N	N	X	
APT-2-0916	09/21/16	14:00	G	GW	3	N	N	X	
MW-138B-0916	09/21/16	10:25	G	GW	3	N	N	X	
OW-1-0916	09/22/16	11:19	G	GW	3	N	N	X	
OW-2-0916	09/22/16	13:10	G	GW	3	N	N	X	
OW-3-0916	09/22/16	14:58	G	GW	3	N	N	X	
OW-4-0916	09/22/16	16:06	G	GW	3	N	N	X	
MW-91A-0916	09/22/16	18:00	nG	GW	3	N	N	X	
TB-8-0916	09/19/16	10:31	G	TB	2	N	N	X	

APT-9 Sample
Time 10:32
J.G. 9/28/16

APT-3 Sample
Time 12:10
J.G. 9/28/16

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification.
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in
Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Return to Client Disposal by Lab Archive for ____ Months

Special Instructions/QC Requirements & Comments: TA Project Manager - Rob Greer, Tacoma

0.6 IPS Ch 0.0 transferred SPW 9-27-16

Custody Seals Intact: Yes No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: Corr'd: Therm ID No.:			
Relinquished by:	Company: SLR	Date/Time: 9-24 17:00	Received by:	Company: TAD	Date/Time: 9-27-16 1230
Relinquished by	Company	Date/Time	Received by:	Company:	Date/Time:
Relinquished by	Company	Date/Time	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Denver
4955 Yarrow Street

Arvada, CO 80002-4517
phone 303.736.0100 fax 303.431.7171

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Jason Gray	Site Contact:	Date:	COC No: 11
SLR International	Tel/Fax: (907) 862-6579	Lab Contact:	Carrier:	1 of 1 COCs
2700 Gambell Street, Suite 200	Analysis Turnaround Time			Sampler:
Anchorage, AK, 99503	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(907) 862-6579 (Cell)	TAT if different from Below			Walk-in Client:
(907) 264-6965 (Office phone)	☑ 2 weeks			Lab Sampling:
Project Name: Kenai Wells, Event 2	☐ 1 week			
Site: Nikiski, AK	☐ 2 days			Job / SDG No.:
P O # 105.00148.16001	☐ 1 day			

280-88640 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	EDB and 123TCP by SW8011	Sample Specific Notes:
MW-39A-0916	09/19/16	10:31	G	GW	3	N	N	X	
MW-39B-0916	09/19/16	12:42	G	GW	3	N	N	X	
MW-62A-0916	09/19/16	15:03	G	GW	3	N	N	X	
APT-1-0916	09/20/16	10:32	G	GW	9	N	Y	X	MS/MSD
APT-9-0916	09/20/16	13:00	G	GW	3	N	N	X	
APT-3-0916	09/20/16	10:32	G	GW	3	N	N	X	
APT-2-0916	09/21/16	14:00	G	GW	3	N	N	X	
MW-138B-0916	09/21/16	10:25	G	GW	3	N	N	X	
OW-1-0916	09/22/16	11:19	G	GW	3	N	N	X	
OW-2-0916	09/22/16	13:10	G	GW	3	N	N	X	
OW-3-0916	09/22/16	14:58	G	GW	3	N	N	X	
OW-4-0916	09/22/16	16:06	G	GW	3	N	N	X	
MW-91A-0916	09/22/16	18:00	nG	GW	3	N	N	X	
TB-8-0916	09/19/16	10:31	G	TB	2	N	N	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: TA Project Manager - Rob Greer, Tacoma

0.6 IRS CtO.0 transferred SPL 9-27-16

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	SLR	9-24 12:00		TAD	9-27-16 1230
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: SLR International Corp

Job Number: 280-88640-1

Login Number: 88640
List Number: 1
Creator: Woodworth, Sean P

List Source: TestAmerica Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	TRIP BLANKS HAVE NO CLIENT LABELS, APT-9-0916 AND APT-3-0916 HAVE WRONG TIME
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers recd broken. Sufficient sample in remaining containers for analysis.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	