FINAL DATA GAPS REPORT CONTINUED

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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August 2, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on July 12, 2013 from the Crowley RIFS 101.00205.00030, F&BI 307176 project. There are 43 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0802R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 12, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley RIFS 101.00205.00030, F&BI 307176 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
307176-01	CMW-6-0713
307176-02	TB-071213B
307176-03	EMW-57S-0713

Total Petroluem Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroluem Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The calibration result for bromomethane fell outside of acceptance criteria. The values reported are estimates.

The presence of acetone in the sample TB-071213B is likely due to laboratory contamination. The results have been flagged accordingly.

The trip blank sample was received with incorrect preservation for vinyl chloride. The result should be considered an estimate.

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) exceeded acceptance criteria for bromomethane and chloroethane. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D

The calibration result for the surrogate 2,4,6-tribromophenol fell outside of acceptance criteria. The values reported are estimates.

The internal standard associated with several analytes exceeded acceptance criteria. The results have been flagged accordingly.

The sample EMW-57S-0713 was diluted due to matrix interferences. The reporting limits have been raised accordingly.

A low level of bis(2-ethylhexyl) phthalate was identified in the method blank. The presence of this compound in the samples CMW-6-0713 and EMW-57S-0713 is likely due to laboratory contamination. The results have been flagged accordingly.

The percent recovery for the LCS and LCSD, and the relative percent difference (RPD) for the LCS/LCSD, fell outside of control limits for several compounds. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM
The internal standard associated with several analytes exceeded acceptance criteria for the sample CMW-6-0713. The results have been flagged accordingly.

The sample CMW-6-0713 was diluted due to matrix interferences. The reporting limits have been raised accordingly.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
All quality control requirements were acceptable.

Total Metals by EPA Method 200.8
The reporting limit for cadmium has been raised due to interferences.

The internal standard associated with several analytes exceeded acceptance criteria for the sample CMW-6-0713. The results have been flagged accordingly.

The sample CMW-6-0713 was diluted due to matrix interferences. The reporting limits have been raised accordingly.

Total Mercury by EPA Method 1631E
All quality control requirements were acceptable.

Total Suspended Solids By Method 2540D
All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C
The report generated by Analytical Resources, Inc. is enclosed.

Chloride by Method SM4500
The report generated by Analytical Resources, Inc. is enclosed.

Date of Report: 08/02/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307176
Date Extracted: 07/15/13
Date Analyzed: 07/15/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
CMW-6-0713 307176-01	<12	87
EMW-57S-0713 307176-03	36	90
Method Blank 03-1352 MB	<12	95

Date of Report: 08/02/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307176
Date Extracted: 07/15/13
Date Analyzed: 07/18/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 51-134)
CMW-6-0713 307176-01	<6.9	<52	110
EMW-57S-0713 307176-03	<6.9	<52	99
Method Blank 03-1389 MB	<6.9	<52	132

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307176-01
Date Analyzed:	07/16/13	Data File:	071610.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-071213B	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307176-02
Date Analyzed:	07/16/13	Data File:	071609.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	3.0 lc	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-57S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307176-03
Date Analyzed:	07/16/13	Data File:	071611.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	0.62	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	0.92	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	0.26	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	03-1316 mb
Date Analyzed:	07/16/13	Data File:	071607.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307176-01
Date Analyzed:	07/20/13	Data File:	071930.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	48	32	162
Phenol-d6	31	10	170
Nitrobenzene-d5	98	50	150
2-Fluorobiphenyl	98	43	158
2,4,6-Tribromophenol	112 ca	43	146
Terphenyl-d14	105	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.6
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<7.4	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086 J
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.28 J fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-57S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307176-03
Date Analyzed:	07/20/13	Data File:	071931.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	47	32	162
Phenol-d6	29	10	170
Nitrobenzene-d5	89	50	150
2-Fluorobiphenyl	93	43	158
2,4,6-Tribromophenol	107 ca	43	146
Terphenyl-d14	110 J	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05 J
2-Nitrophenol	<0.17	4-Nitroaniline	<0.6 J
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38 J
Benzoic acid	<7.4	4-Bromophenyl phenyl ether	<0.056 J
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05 J
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32 J
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048 J
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068 J
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.26 fb J
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-57S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307176-03 1/20
Date Analyzed:	07/23/13	Data File:	072305.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	50 ds	32	162
Phenol-d6	32 ds	10	170
Nitrobenzene-d5	85 ds	50	150
2-Fluorobiphenyl	90 ds	43	158
2,4,6-Tribromophenol	75 ds	43	146
Terphenyl-d14	99 ds	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<28	2,4,6-Trichlorophenol	<5.6
Bis(2-chloroethyl) ether	<1.2	2,4,5-Trichlorophenol	<4.4
2-Chlorophenol	<3.2	2-Chloronaphthalene	<0.88
1,3-Dichlorobenzene	<0.68	2-Nitroaniline	<1.7
1,4-Dichlorobenzene	<1.4	Dimethyl phthalate	<1
1,2-Dichlorobenzene	<0.48	2,6-Dinitrotoluene	<1.2
Benzyl alcohol	<8	3-Nitroaniline	<9.2
Bis(2-chloroisopropyl) ether	<0.6	2,4-Dinitrophenol	<48
2-Methylphenol	<5.2	Dibenzofuran	<0.68
Hexachloroethane	<1.2	2,4-Dinitrotoluene	<1.1
N-Nitroso-di-n-propylamine	<2.2	4-Nitrophenol	<26
3-Methylphenol + 4-Methylphenol	<8	Diethyl phthalate	<1.2
Nitrobenzene	<0.88	4-Chlorophenyl phenyl ether	<1.4
Isophorone	<0.6	N-Nitrosodiphenylamine	<1
2-Nitrophenol	<3.3	4-Nitroaniline	<12
2,4-Dimethylphenol	<5.6 jl	4,6-Dinitro-2-methylphenol	<7.6
Benzoic acid	<150	4-Bromophenyl phenyl ether	<1.1
Bis(2-chloroethoxy)methane	<0.68	Hexachlorobenzene	<1
2,4-Dichlorophenol	<5.2	Pentachlorophenol	<6.4
1,2,4-Trichlorobenzene	<1	Carbazole	<0.96
Hexachlorobutadiene	<1.4	Di-n-butyl phthalate	<1.4
4-Chloroaniline	<1.1 jl	Benzyl butyl phthalate	<1.7
4-Chloro-3-methylphenol	<4.8	Bis(2-ethylhexyl) phthalate	<3.3
2-Methylnaphthalene	<0.68	Di-n-octyl phthalate	<0.88
Hexachlorocyclopentadiene	<1.9		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	03-1395 mb
Date Analyzed:	07/18/13	Data File:	071807.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49	32	162
Phenol-d6	35	10	170
Nitrobenzene-d5	94	50	150
2-Fluorobiphenyl	95	43	158
2,4,6-Tribromophenol	107 ca	43	146
Terphenyl-d14	113	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.6
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<7.4	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.33 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307176-01
Date Analyzed:	07/19/13	Data File:	071835.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	108 J	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0092
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	0.0082
Anthracene	0.0056
Fluoranthene	0.013
Pyrene	0.014 J
Benz(a)anthracene	0.010 J
Chrysene	0.0088 J
Benzo(a)pyrene	<0.0078 J
Benzo(b)fluoranthene	0.013 J
Benzo(k)fluoranthene	<0.0076 J
Indeno(1,2,3-cd)pyrene	<0.007 J
Dibenz(a,h)anthracene	<0.004 J
Benzo(g,h,i)perylene	0.0066 J

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307176-01 1/10
Date Analyzed:	07/22/13	Data File:	072204.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	175 ds	50	150
Benzo(a)anthracene-d12	90 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.04
Acenaphthylene	<0.024
Acenaphthene	<0.038
Fluorene	<0.04
Phenanthrene	<0.066
Anthracene	<0.028
Fluoranthene	<0.046
Pyrene	<0.036
Benz(a)anthracene	<0.042
Chrysene	<0.038
Benzo(a)pyrene	<0.078
Benzo(b)fluoranthene	<0.052
Benzo(k)fluoranthene	<0.076
Indeno(1,2,3-cd)pyrene	<0.07
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-57S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307176-03
Date Analyzed:	07/19/13	Data File:	071836.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	94	50	150
Benzo(a)anthracene-d12	100	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0036
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	03-1394 mb
Date Analyzed:	07/18/13	Data File:	071806.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	50	150
Benzo(a)anthracene-d12	91	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For PCBs By EPA Method 8082

Client Sample ID:	CMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307176-01
Date Analyzed:	07/24/13	Data File:	46.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	105	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-57S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307176-03
Date Analyzed:	07/24/13	Data File:	48.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	03-1391 mb
Date Analyzed:	07/24/13	Data File:	072424.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307176-01
Date Analyzed:	07/19/13	Data File:	307176-01.037
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	54 vo	60	125
Indium	54 vo	60	125
Holmium	53 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	0.138 J
Cadmium	0.254 J, j
Thallium	<0.074 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307176-01 x10
Date Analyzed:	07/19/13	Data File:	307176-01 x10.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	73	60	125
Indium	74	60	125
Holmium	80	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	3.34
Nickel	7.61
Copper	44.6
Zinc	40.2
Arsenic	79.3
Selenium	97.9
Silver	<0.640
Cadmium	<2.5
Antimony	22.1
Barium	105
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-57S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307176-03
Date Analyzed:	07/19/13	Data File:	307176-03.030
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	88	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.884
Nickel	1.34
Copper	<0.34
Zinc	1.42
Arsenic	1.68
Selenium	1.61
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.111
Barium	8.03
Thallium	<0.074
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	I3-419 mb
Date Analyzed:	07/19/13	Data File:	I3-419 mb.025
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	90	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	<0.138
Nickel	<0.46
Copper	<0.34
Zinc	<0.61
Arsenic	<0.15
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	<0.052 j
Barium	<0.26
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307176-01
Date Analyzed:	07/17/13	Data File:	307176-01.073
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	50 vo	60	125
Indium	50 vo	60	125
Holmium	54 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	0.165 J
Cadmium	0.27 J
Thallium	<0.074 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307176-01 x10
Date Analyzed:	07/17/13	Data File:	307176-01 x10.084
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	68	60	125
Indium	68	60	125
Holmium	77	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	4.07
Nickel	7.01
Copper	42.1
Zinc	36.5
Arsenic	76.0
Selenium	77.0
Silver	<0.640
Cadmium	<2.5
Antimony	24.2
Barium	110
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-57S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307176-03
Date Analyzed:	07/17/13	Data File:	307176-03.077
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	82	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.788
Nickel	1.50
Copper	<0.34
Zinc	13.3
Arsenic	1.43
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.064
Barium	6.94
Thallium	0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	I3-420 mb
Date Analyzed:	07/17/13	Data File:	I3-420 mb.086
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	83	60	125
Indium	84	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	<0.139
Nickel	<0.46
Copper	<0.34
Zinc	<0.61
Arsenic	<0.15
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	<0.052 j
Barium	<0.26
Thallium	<0.074
Lead	<0.144

Date of Report: 08/02/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307176
Date Extracted: 07/15/13
Date Analyzed: 07/16/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
CMW-6-0713 307176-01	0.0034
EMW-57S-0713 307176-03	<0.0015
Method Blank	<0.0015

Date of Report: 08/02/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307176
Date Extracted: 07/15/13
Date Analyzed: 07/16/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
CMW-6-0713 307176-01	0.0031
EMW-57S-0713 307176-03	<0.0015
Method Blank	<0.0015

Date of Report: 08/02/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307176
Date Extracted: NA
Date Analyzed: 07/19/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
CMW-6-0713 307176-01	<10
EMW-57S-0713 307176-03	<10
Method Blank	<10

Date of Report: 08/02/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307176

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 307179-05 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	94	69-134

Date of Report: 08/02/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307176

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	87	93	58-134	7

Date of Report: 08/02/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307176

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 307176-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	107	55-144
Chloromethane	ug/L (ppb)	50	<0.22	96	67-131
Vinyl chloride	ug/L (ppb)	50	<0.13	100	61-139
Bromomethane	ug/L (ppb)	50	<0.2	983 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	161 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	122	71-128
Acetone	ug/L (ppb)	250	<2.6	103	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	103	71-123
Methylene chloride	ug/L (ppb)	50	<3	100	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	97	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	99	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	98	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	99	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	102	73-119
Chloroform	ug/L (ppb)	50	<0.24	94	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	105	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	97	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	103	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	99	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	112	72-123
Benzene	ug/L (ppb)	50	<0.13	95	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	96	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	102	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	114	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	103	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	119	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	111	76-120
Toluene	ug/L (ppb)	50	<0.13	95	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	99	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	104	81-111
2-Hexanone	ug/L (ppb)	250	<1	115	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	99	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	89	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	110	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	106	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	92	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	95	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	110	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	95	63-128
o-Xylene	ug/L (ppb)	50	<0.22	96	64-129
Styrene	ug/L (ppb)	50	<0.22	100	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	95	76-118
Bromoform	ug/L (ppb)	50	<0.22	114	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	96	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	95	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	98	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	107	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	102	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	94	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	96	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	96	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	96	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	94	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	93	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	91	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	90	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	91	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	112	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	83	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	79	67-120
Naphthalene	ug/L (ppb)	50	<0.28	101	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	97	79-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	100	105	54-149	5
Chloromethane	ug/L (ppb)	50	91	95	67-133	4
Vinyl chloride	ug/L (ppb)	50	94	98	73-132	4
Bromomethane	ug/L (ppb)	50	917 vo	956 vo	69-123	4
Chloroethane	ug/L (ppb)	50	158 vo	163 vo	68-126	3
Trichlorofluoromethane	ug/L (ppb)	50	118	123	70-132	4
Acetone	ug/L (ppb)	250	91	93	44-145	2
1,1-Dichloroethene	ug/L (ppb)	50	97	104	75-119	7
Methylene chloride	ug/L (ppb)	50	94	98	63-132	4
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	92	99	70-122	7
trans-1,2-Dichloroethene	ug/L (ppb)	50	91	96	76-118	5
1,1-Dichloroethane	ug/L (ppb)	50	92	98	80-116	6
2,2-Dichloropropane	ug/L (ppb)	50	106	111	62-141	5
cis-1,2-Dichloroethene	ug/L (ppb)	50	93	99	81-111	6
Chloroform	ug/L (ppb)	50	86	92	81-109	7
2-Butanone (MEK)	ug/L (ppb)	250	92	98	53-140	6
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	90	95	79-109	5
1,1,1-Trichloroethane	ug/L (ppb)	50	99	105	80-116	6
1,1-Dichloropropene	ug/L (ppb)	50	93	99	78-112	6
Carbon tetrachloride	ug/L (ppb)	50	109	116	72-128	6
Benzene	ug/L (ppb)	50	88	94	81-108	7
Trichloroethene	ug/L (ppb)	50	90	95	77-108	5
1,2-Dichloropropane	ug/L (ppb)	50	94	102	82-109	8
Bromodichloromethane	ug/L (ppb)	50	106	114	76-120	7
Dibromomethane	ug/L (ppb)	50	97	102	80-110	5
4-Methyl-2-pentanone	ug/L (ppb)	250	104	111	59-142	7
cis-1,3-Dichloropropene	ug/L (ppb)	50	106	114	76-128	7
Toluene	ug/L (ppb)	50	88	94	83-108	7
trans-1,3-Dichloropropene	ug/L (ppb)	50	97	105	76-128	8
1,1,2-Trichloroethane	ug/L (ppb)	50	95	104	82-110	9
2-Hexanone	ug/L (ppb)	250	97	107	53-145	10
1,3-Dichloropropane	ug/L (ppb)	50	92	99	83-110	7
Tetrachloroethene	ug/L (ppb)	50	83	90	78-109	8
Dibromochloromethane	ug/L (ppb)	50	106	113	63-140	6
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	100	107	85-113	7
Chlorobenzene	ug/L (ppb)	50	85	92	84-108	8
Ethylbenzene	ug/L (ppb)	50	88	95	84-110	8
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	105	112	76-125	6
m,p-Xylene	ug/L (ppb)	100	88	95	84-112	8
o-Xylene	ug/L (ppb)	50	90	95	82-113	5
Styrene	ug/L (ppb)	50	92	100	84-116	8
Isopropylbenzene	ug/L (ppb)	50	89	96	81-122	8
Bromoform	ug/L (ppb)	50	110	118	40-161	7
n-Propylbenzene	ug/L (ppb)	50	90	96	81-115	6
Bromobenzene	ug/L (ppb)	50	88	94	80-113	7
1,3,5-Trimethylbenzene	ug/L (ppb)	50	93	98	83-117	5
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	98	105	79-118	7
1,2,3-Trichloropropane	ug/L (ppb)	50	92	99	74-116	7
2-Chlorotoluene	ug/L (ppb)	50	87	92	79-112	6
4-Chlorotoluene	ug/L (ppb)	50	90	97	81-113	7
tert-Butylbenzene	ug/L (ppb)	50	90	95	81-119	5
1,2,4-Trimethylbenzene	ug/L (ppb)	50	90	96	83-116	6
sec-Butylbenzene	ug/L (ppb)	50	89	94	83-116	5
p-Isopropyltoluene	ug/L (ppb)	50	89	94	82-119	5
1,3-Dichlorobenzene	ug/L (ppb)	50	85	92	83-111	8
1,4-Dichlorobenzene	ug/L (ppb)	50	85	90	82-109	6
1,2-Dichlorobenzene	ug/L (ppb)	50	85	89	83-111	5
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	103	110	62-133	7
1,2,4-Trichlorobenzene	ug/L (ppb)	50	80	84	77-117	5
Hexachlorobutadiene	ug/L (ppb)	50	75	78	74-118	4
Naphthalene	ug/L (ppb)	50	91	96	75-131	5
1,2,3-Trichlorobenzene	ug/L (ppb)	50	92	96	82-115	4

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	10	39	34	18-52	14
Bis(2-chloroethyl) ether	ug/L (ppb)	10	89	79	52-113	12
2-Chlorophenol	ug/L (ppb)	10	89	78	50-110	13
1,3-Dichlorobenzene	ug/L (ppb)	10	91	76	45-109	18
1,4-Dichlorobenzene	ug/L (ppb)	10	94	77	44-118	20
1,2-Dichlorobenzene	ug/L (ppb)	10	93	76	46-116	20
Benzyl alcohol	ug/L (ppb)	10	89	73	42-100	20
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	90	77	51-124	16
2-Methylphenol	ug/L (ppb)	10	73	70	38-100	4
Hexachloroethane	ug/L (ppb)	10	94	77	42-117	20
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	91	78	48-124	15
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	72	64	48-87	12
Nitrobenzene	ug/L (ppb)	10	95	84	50-118	12
Isophorone	ug/L (ppb)	10	99	86	55-116	14
2-Nitrophenol	ug/L (ppb)	10	115	104	42-127	10
2,4-Dimethylphenol	ug/L (ppb)	10	41 vo	85	45-100	70 vo
Benzoic acid	ug/L (ppb)	65	57 vo	49 vo	10-46	15
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	96	86	55-115	11
2,4-Dichlorophenol	ug/L (ppb)	10	103	92	55-113	11
1,2,4-Trichlorobenzene	ug/L (ppb)	10	95	83	50-109	13
Hexachlorobutadiene	ug/L (ppb)	10	95	83	50-109	13
4-Chloroaniline	ug/L (ppb)	20	91	14 vo	30-109	147 vo
4-Chloro-3-methylphenol	ug/L (ppb)	10	104	88	54-114	17
2-Methylnaphthalene	ug/L (ppb)	10	100	85	53-113	16
Hexachlorocyclopentadiene	ug/L (ppb)	10	83	64	26-94	26 vo
2,4,6-Trichlorophenol	ug/L (ppb)	10	105	96	46-114	9
2,4,5-Trichlorophenol	ug/L (ppb)	10	107	98	57-122	9
2-Chloronaphthalene	ug/L (ppb)	10	98	89	52-112	10
2-Nitroaniline	ug/L (ppb)	10	113	100	47-128	12
Dimethyl phthalate	ug/L (ppb)	10	110	99	55-116	11
2,6-Dinitrotoluene	ug/L (ppb)	10	117	107	49-126	9
3-Nitroaniline	ug/L (ppb)	20	114	68	21-125	51 vo
2,4-Dinitrophenol	ug/L (ppb)	10	160 vo	144 vo	29-130	11
Dibenzofuran	ug/L (ppb)	10	101	92	53-113	9
2,4-Dinitrotoluene	ug/L (ppb)	10	111	99	48-129	11
4-Nitrophenol	ug/L (ppb)	10	50	41	12-59	20
Diethyl phthalate	ug/L (ppb)	10	106	95	55-116	11
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	103	93	52-115	10
N-Nitrosodiphenylamine	ug/L (ppb)	10	101	87	51-112	15
4-Nitroaniline	ug/L (ppb)	20	108	79	42-115	31 vo
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	130 vo	120	40-128	8
4-Bromophenyl phenyl ether	ug/L (ppb)	10	105	98	53-114	7
Hexachlorobenzene	ug/L (ppb)	10	103	95	54-115	8
Pentachlorophenol	ug/L (ppb)	10	108	104	49-114	4
Carbazole	ug/L (ppb)	10	101	91	54-115	10
Di-n-butyl phthalate	ug/L (ppb)	10	110	102	54-115	8
Benzyl butyl phthalate	ug/L (ppb)	10	119	108	53-122	10
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	112	95	54-122	16
Di-n-octyl phthalate	ug/L (ppb)	10	108	103	50-131	5

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	83	87	67-116	5
Acenaphthylene	ug/L (ppb)	1	96	101	65-119	5
Acenaphthene	ug/L (ppb)	1	94	100	66-118	6
Fluorene	ug/L (ppb)	1	98	103	64-125	5
Phenanthrene	ug/L (ppb)	1	92	96	67-120	4
Anthracene	ug/L (ppb)	1	94	97	65-122	3
Fluoranthene	ug/L (ppb)	1	98	93	65-127	5
Pyrene	ug/L (ppb)	1	96	103	62-130	7
Benz(a)anthracene	ug/L (ppb)	1	91	93	60-118	2
Chrysene	ug/L (ppb)	1	95	100	66-125	5
Benzo(b)fluoranthene	ug/L (ppb)	1	86	90	55-135	5
Benzo(k)fluoranthene	ug/L (ppb)	1	84	87	62-125	4
Benzo(a)pyrene	ug/L (ppb)	1	81	83	58-127	2
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	76	79	36-142	4
Dibenz(a,h)anthracene	ug/L (ppb)	1	71	73	37-133	3
Benzo(g,h,i)perylene	ug/L (ppb)	1	77	77	34-135	0

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.63	97	114	70-130	16
Aroclor 1260	ug/L (ppb)	0.63	102	108	70-130	6

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 307179-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.098	102	118	67-145	15
Chromium	ug/L (ppb)	20	2.19	93	110	64-132	17
Nickel	ug/L (ppb)	20	4.59	88 b	107 b	61-128	19 b
Copper	ug/L (ppb)	20	1.60	89	106	63-124	17
Zinc	ug/L (ppb)	50	7.69	88	106	55-141	19
Arsenic	ug/L (ppb)	10	3.38	92 b	117 b	60-150	24 b
Selenium	ug/L (ppb)	5	<0.56	98	114	43-178	15
Silver	ug/L (ppb)	5	<0.064	89	106	71-115	17
Cadmium	ug/L (ppb)	5	<0.25	90	107	83-116	17
Antimony	ug/L (ppb)	20	0.152	68	82	62-125	19
Barium	ug/L (ppb)	50	18.1	89 b	112 b	79-126	23 b
Thallium	ug/L (ppb)	5	0.107	90	104	73-119	14
Lead	ug/L (ppb)	10	0.380	89	103	79-121	15

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	106	73-135
Chromium	ug/L (ppb)	20	101	80-119
Nickel	ug/L (ppb)	20	96	79-122
Copper	ug/L (ppb)	20	98	81-119
Zinc	ug/L (ppb)	50	93	76-124
Arsenic	ug/L (ppb)	10	90	80-111
Selenium	ug/L (ppb)	5	97	81-119
Silver	ug/L (ppb)	5	98	80-116
Cadmium	ug/L (ppb)	5	96	83-113
Antimony	ug/L (ppb)	20	89	79-108
Barium	ug/L (ppb)	50	96	83-117
Thallium	ug/L (ppb)	5	97	78-116
Lead	ug/L (ppb)	10	99	83-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 307179-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.098	104	116	67-145	11
Chromium	ug/L (ppb)	20	0.271	97	108	64-132	11
Nickel	ug/L (ppb)	20	2.04	91	103	61-128	12
Copper	ug/L (ppb)	20	<0.34	90	99	63-124	10
Zinc	ug/L (ppb)	50	2.91	90	101	55-141	12
Arsenic	ug/L (ppb)	10	3.25	99 b	111 b	60-150	11 b
Selenium	ug/L (ppb)	5	<0.56	99	110	43-178	11
Silver	ug/L (ppb)	5	<0.064	94	103	71-115	9
Cadmium	ug/L (ppb)	5	<0.25	95	103	83-116	8
Antimony	ug/L (ppb)	20	0.471	89	101	62-125	13
Barium	ug/L (ppb)	50	12.8	95 b	107 b	79-126	12 b
Thallium	ug/L (ppb)	5	<0.074	94	104	73-119	10
Lead	ug/L (ppb)	10	<0.144	93	105	79-121	12

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	99	73-135
Chromium	ug/L (ppb)	20	98	80-119
Nickel	ug/L (ppb)	20	99	79-122
Copper	ug/L (ppb)	20	99	81-119
Zinc	ug/L (ppb)	50	94	76-124
Arsenic	ug/L (ppb)	10	91	80-111
Selenium	ug/L (ppb)	5	95	81-119
Silver	ug/L (ppb)	5	98	80-116
Cadmium	ug/L (ppb)	5	95	83-113
Antimony	ug/L (ppb)	20	89	79-108
Barium	ug/L (ppb)	50	97	83-117
Thallium	ug/L (ppb)	5	94	78-116
Lead	ug/L (ppb)	10	94	83-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 307152-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	<0.0015	100	98	63-132	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	98	78-118

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: 307152-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	0.00093	96	95	63-132	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	100	78-118

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QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 307152-09 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	28	32	13	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
TSS	mg/L	50	104	61-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

July 29, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 307176
ARI Job No.: WX55

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted two water samples on July 15, 2013, under ARI job WX55. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile WX55

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

WX55

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.: 307176

PO #: C-466

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
☒ Standard Turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500			Notes
						ANALYSES REQUESTED												
CMW-6-0713		7/12/13	1533	water	2									X	X			
EMW-57S-0713		↓	~~1537~~ 1232	↓	↓									X	X			

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Michele Costales Poquiz	Michele Costales Poquiz	F&B	7/15/13	12:15PM
Received by:		A. Volgardsen	ARI	7/15/13	1500
Relinquished by:					
Received by:					

FORMS\COC\COC SLRC.DOC

LVEE: 00053

Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client Friedman & Bruya — Project Name 307176

COC No(s) _____ (NA) — Delivered by Fed-Ex UPS (Courier) Hand Delivered Other Non ARI

Assigned ARI Job No WX55 — Tracking No _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) (recommended 2 0-6 0 °C for chemistry)	8.0	

If cooler temperature is out of compliance fill out form 00070F — Temp Gun ID#: 90877952

Cooler Accepted by: AV — Date: 7/15/13 — Time: 1500

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used?	Bubble Wrap Wet Ice (Gel Packs) Baggies Foam Block Paper Other:		
Was sufficient ice used (if appropriate)?	NA	YES	(NO)
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI.	(NA)		

Was Sample Split by ARI : (NA) YES Date/Time _____ Equipment: _____ Split by: _____

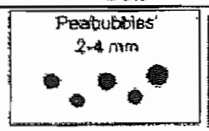
Samples Logged by: AV — Date: 7/15/13 — Time: 1652

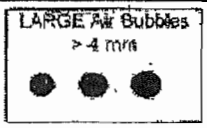
*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:





Small → "sm"	
Peabubbles → "pb"	
Large → "lg"	
Headspace → "hs"	

Incorporated
Analytical Chemists and
Consultants

Cooler Temp Compliance Form

Cooler#: 1	Temperature(°C): 8.0	
Sample ID	**Bottle Count**	**Bottle Type**
All samples associated with this job were received at a temp greater than 6°C.		

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Completed by JM Date 7/15/13 Time 1500

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WX55
Client: Friedman and Bruya, Inc
Project Event: 307176
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	CMW-6-0713	WX55A	13-14887	Water	07/12/13 15:33	07/15/13 15:00
2.	EMW-57S-0713	WX55B	13-14888	Water	07/12/13 12:32	07/15/13 15:00

SAMPLE RESULTS-CONVENTIONALS
WX55-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/29/13

Project: NA
Event: 307176
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: CMW-6-0713
ARI ID: 13-14887 WX55A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	200	11,400
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	1,000	6,280

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX55-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/29/13

Project: NA
Event: 307176
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: EMW-57S-0713
ARI ID: 13-14888 WX55B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	5.0	185
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	1.0	5.9

RL Analytical reporting limit
U Undetected at reported detection limit

METHOD BLANK RESULTS-CONVENTIONALS
WX55-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized: (A)
Reported: 07/29/13

Project: NA
Event: 307176
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	07/16/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	07/16/13	mg/L	< 1.0 U	FB

FB Filtration Blank

WX55 : 08060

LAB CONTROL RESULTS-CONVENTIONALS
WX55-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/29/13

Project: NA
Event: 307176
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	07/16/13	mg/L	487	500	97.4%

STANDARD REFERENCE RESULTS-CONVENTIONALS
WX55-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/29/13

Project: NA
Event: 307176
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	07/16/13	mg/L	5.2	5.0	104.0%

307176

SAMPLE CHAIN OF CUSTODY

AD KJ 07/12/13 AI4/VB/AO

Page # 1 of

Send Report To Mike Staton
Company SLR Consulting Corp
Address 22118 30th Ave SE, G203
City, State, ZIP Bothell, WA, 98021
Phone # 425-402-880 Fax # 425-402-8788

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley RFS 101.00205.0003

PO#: 101.002 05.0003

REMARKS: NWTPH-Dx after silica gel cleanup

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☒ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS	Total Priority Pollutant Metals by 200.8	Total Hg by 1631E	Dissolved Priority Pollutant Metals by 200.8	Dissolved Hg by 1631E	PCBs by 8082 A	PAHs by 8270D SIM	TSS by SM2540D	TDS by SM2540C	Chloride by SM4500	SM4500
CMW-6-0713	01A	7/12/13	1533	WATER	18	X	X		X	X		X	X	X	X	X	X	X	X	X	
TB-071213B	02A	7/12/13	1602	WATER	2				X												
CMW-57S-0713	03A	7/12/13	1232	WATER	18	X	X		X	X		X	X	X	X	X	X	X	X	X	

Samples received at 5 °C

Notes:

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengnier	SLR	7/12/13	1721
Received by:	VINH	FBI	7/12/13	1721
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 13, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on July 11, 2013 from the 8th Avenue Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307148 project. There are 78 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0813R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 11, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Avenue Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307148 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
307148-01	SLR-1-0713
307148-02	SLR-2-0713
307148-03	HC-20-0713
307148-04	EMW-1S-0713
307148-05	EMW-6S-0713
307148-06	EMW-7S-0713
307148-07	EMW-10D-0713
307148-08	EMW-56D-0713
307148-09	TB-071013

Total Petroleum Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The calibration result for bromomethane fell outside of acceptance criteria. The values reported are estimates.

The trip blank sample TB-071013 was received with incorrect preservation for the 8260 analysis of vinyl chloride. The result should be considered an estimate.

The presence of acetone in the trip blank sample TB-071013 is likely due to laboratory contamination. The results have been flagged accordingly.

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for bromomethane and chloroethane. The compounds were not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The reporting limit for phenol was raised due to contamination in the method blank.

CASE NARRATIVE (continued)

The presence of bis(2-ethylhexyl) phthalate in the samples and method blank is likely due to laboratory contamination. The results have been flagged accordingly.

The presence of diethyl phthalate in the samples HC-20-0713, EMW-6S-0713, and EMW-7S-0713 is likely due to laboratory contamination. The results have been flagged accordingly.

The calibration result for 4-nitrophenol fell outside of acceptance criteria for the samples HC-20-0713, EMW-1S-0713, EMW-6S-0713, EMW-7S-0713, EMW-10D-0713, and EMW-56D-0713. The values reported are estimates.

The percent recovery for the LCS and LCSD fell outside of control limits for 2,4-dimethylphenol. In addition, the relative percent difference (RPD) for the LCS/LCSD fell outside of control limits for 2,4-dinitrophenol. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM
The estimated concentration calculated for acenaphthene was above the valid instrument calibration range for the samples EMW-10D-0713 and EMW-56D-0713. The samples were diluted and reanalyzed. The results from the original analyses and the re-analyses are provided.

The internal standard associated with several analytes exceeded acceptance criteria for the dilution of the sample EMW-56D-0713. The results have been flagged accordingly.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
The reporting limits for the sample SLR-1-0713 are raised due to sample matrix effects.

Total Metals by EPA Method 200.8
All quality control requirements were acceptable.

Dissolved Metals by EPA Method 200.8
All quality control requirements were acceptable.

Total Mercury by EPA Method 1631E
All quality control requirements were acceptable.

Dissolved Mercury by EPA Method 1631E
All quality control requirements were acceptable.

CASE NARRATIVE (continued)

Total Dissolved Solids by Method 2540C
The samples were sent to Analytical Resources, Inc. (ARI) for total dissolved solids analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500
The samples were sent to ARI for chloride analysis. The report generated by ARI is enclosed.

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Avenue Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307148
Date Extracted: 07/12/13
Date Analyzed: 07/12/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
SLR-1-0713 307148-01	<12	97
SLR-2-0713 307148-02	<12	96
HC-20-0713 307148-03	<12	96
EMW-1S-0713 307148-04	<12	100
EMW-6S-0713 307148-05	<12	96
EMW-7S-0713 307148-06	<12	96
EMW-10D-0713 307148-07	<12	97
EMW-56D-0713 307148-08	<12	99
Method Blank 03-1348 MB	<12	97

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Avenue Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307148
Date Extracted: 07/12/13
Date Analyzed: 07/26/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 51-134)
SLR-1-0713 307148-01	<6.9	<52	90
SLR-2-0713 307148-02	<6.9	<52	101
HC-20-0713 307148-03	<6.9	<52	95
EMW-1S-0713 307148-04	<6.9	<52	102
EMW-6S-0713 307148-05	10 x	<52	101
EMW-7S-0713 307148-06	<6.9	<52	103
EMW-10D-0713 307148-07	<6.9	<52	93
EMW-56D-0713 307148-08	<6.9	<52	94
Method Blank 03-1381 MB	<6.9	<52	92

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SLR-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-01
Date Analyzed:	07/12/13	Data File:	071228.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SLR-2-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-02
Date Analyzed:	07/12/13	Data File:	071229.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	HC-20-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-03
Date Analyzed:	07/12/13	Data File:	071230.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-1S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-04
Date Analyzed:	07/12/13	Data File:	071231.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-6S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-05
Date Analyzed:	07/12/13	Data File:	071232.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	0.18
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-7S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-06
Date Analyzed:	07/12/13	Data File:	071233.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-10D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-07
Date Analyzed:	07/12/13	Data File:	071234.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	0.20
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-56D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-08
Date Analyzed:	07/12/13	Data File:	071235.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	0.20
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-071013	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-09
Date Analyzed:	07/13/13	Data File:	071236.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	5.5 lc	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	03-1312 mb
Date Analyzed:	07/12/13	Data File:	071227.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-01
Date Analyzed:	07/17/13	Data File:	071707.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	40	32	162
Phenol-d6	25	10	170
Nitrobenzene-d5	69	50	150
2-Fluorobiphenyl	70	43	158
2,4,6-Tribromophenol	85	43	146
Terphenyl-d14	69	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.64 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-2-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-02
Date Analyzed:	07/17/13	Data File:	071708.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	41	32	162
Phenol-d6	27	10	170
Nitrobenzene-d5	92	50	150
2-Fluorobiphenyl	95	43	158
2,4,6-Tribromophenol	81	43	146
Terphenyl-d14	100	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.53 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	HC-20-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-03
Date Analyzed:	07/17/13	Data File:	071714.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	45	32	162
Phenol-d6	25	10	170
Nitrobenzene-d5	85	50	150
2-Fluorobiphenyl	93	43	158
2,4,6-Tribromophenol	102	43	146
Terphenyl-d14	100	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3 ca
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	0.080 lc
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.67 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-1S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-04
Date Analyzed:	07/17/13	Data File:	071715.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	47	32	162
Phenol-d6	27	10	170
Nitrobenzene-d5	86	50	150
2-Fluorobiphenyl	92	43	158
2,4,6-Tribromophenol	108	43	146
Terphenyl-d14	98	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3 ca
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.58 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-6S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-05
Date Analyzed:	07/17/13	Data File:	071716.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	45	32	162
Phenol-d6	26	10	170
Nitrobenzene-d5	94	50	150
2-Fluorobiphenyl	99	43	158
2,4,6-Tribromophenol	115	43	146
Terphenyl-d14	119	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3 ca
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	0.087 lc
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.54 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-7S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-06
Date Analyzed:	07/17/13	Data File:	071717.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	53	32	162
Phenol-d6	33	10	170
Nitrobenzene-d5	91	50	150
2-Fluorobiphenyl	95	43	158
2,4,6-Tribromophenol	118	43	146
Terphenyl-d14	101	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3 ca
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	0.16 lc
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.79 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-10D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-07
Date Analyzed:	07/17/13	Data File:	071718.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	55	32	162
Phenol-d6	34	10	170
Nitrobenzene-d5	94	50	150
2-Fluorobiphenyl	96	43	158
2,4,6-Tribromophenol	117	43	146
Terphenyl-d14	101	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	0.13	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3 ca
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.51 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-56D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-08
Date Analyzed:	07/17/13	Data File:	071719.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	47	32	162
Phenol-d6	29	10	170
Nitrobenzene-d5	78	50	150
2-Fluorobiphenyl	90	43	158
2,4,6-Tribromophenol	105	43	146
Terphenyl-d14	99	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	0.10	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3 ca
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.73 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	03-1379 mb
Date Analyzed:	07/18/13	Data File:	071807A.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	35	32	162
Phenol-d6	29	10	170
Nitrobenzene-d5	87	50	150
2-Fluorobiphenyl	91	43	158
2,4,6-Tribromophenol	59 ca	43	146
Terphenyl-d14	96	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.30 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-01
Date Analyzed:	07/18/13	Data File:	071807.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	74	50	150
Benzo(a)anthracene-d12	85	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0082
Acenaphthylene	<0.0024
Acenaphthene	0.0093
Fluorene	0.0065
Phenanthrene	0.015
Anthracene	0.0030
Fluoranthene	0.0056
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-2-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-02
Date Analyzed:	07/17/13	Data File:	071706B.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	72	50	150
Benzo(a)anthracene-d12	82	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0046
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	HC-20-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-03
Date Analyzed:	07/17/13	Data File:	071707.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	67	50	150
Benzo(a)anthracene-d12	73	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.013
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	0.0079
Pyrene	0.0082
Benz(a)anthracene	0.0047
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-1S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-04
Date Analyzed:	07/17/13	Data File:	071708.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	50	150
Benzo(a)anthracene-d12	95	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0083
Acenaphthylene	<0.0024
Acenaphthene	0.0065
Fluorene	<0.004
Phenanthrene	0.012
Anthracene	0.0079
Fluoranthene	0.0053
Pyrene	0.0043
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-6S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-05
Date Analyzed:	07/17/13	Data File:	071709.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	77	50	150
Benzo(a)anthracene-d12	83	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.013
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-7S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-06
Date Analyzed:	07/17/13	Data File:	071710.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	78	50	150
Benzo(a)anthracene-d12	86	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.014
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	0.0068
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-07
Date Analyzed:	07/17/13	Data File:	071712.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	87	50	150
Benzo(a)anthracene-d12	95	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0077
Acenaphthylene	<0.0024
Acenaphthene	1.5 ve
Fluorene	0.0044
Phenanthrene	0.014
Anthracene	<0.0028
Fluoranthene	0.0085
Pyrene	0.0092
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-07 1/10
Date Analyzed:	07/18/13	Data File:	071812.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	213 ds	50	150
Benzo(a)anthracene-d12	112 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.04
Acenaphthylene	<0.024
Acenaphthene	1.8
Fluorene	<0.04
Phenanthrene	<0.066
Anthracene	<0.028
Fluoranthene	<0.046
Pyrene	<0.036
Benz(a)anthracene	<0.042
Chrysene	<0.038
Benzo(a)pyrene	<0.078
Benzo(b)fluoranthene	<0.052
Benzo(k)fluoranthene	<0.076
Indeno(1,2,3-cd)pyrene	<0.07
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-56D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-08
Date Analyzed:	07/17/13	Data File:	071711.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	82	50	150
Benzo(a)anthracene-d12	88	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0068
Acenaphthylene	<0.0024
Acenaphthene	1.3 ve
Fluorene	<0.004
Phenanthrene	0.012
Anthracene	<0.0028
Fluoranthene	0.0075
Pyrene	0.0083
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-56D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307148-08 1/10
Date Analyzed:	07/18/13	Data File:	071813.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	230 ds J	50	150
Benzo(a)anthracene-d12	82 ds J	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.04
Acenaphthylene	<0.024
Acenaphthene	1.7
Fluorene	<0.04
Phenanthrene	<0.066 J
Anthracene	<0.028 J
Fluoranthene	<0.046 J
Pyrene	<0.036 J
Benz(a)anthracene	<0.042 J
Chrysene	<0.038 J
Benzo(a)pyrene	<0.078
Benzo(b)fluoranthene	<0.052
Benzo(k)fluoranthene	<0.076
Indeno(1,2,3-cd)pyrene	<0.07
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	03-1378 mb2
Date Analyzed:	07/16/13	Data File:	071608.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	88	50	150
Benzo(a)anthracene-d12	95	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For PCBs By EPA Method 8082

Client Sample ID:	SLR-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-01 1/2.5
Date Analyzed:	07/30/13	Data File:	32.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	75	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1

Note: The reporting limits are raised due to sample matrix effects.

Analysis For PCBs By EPA Method 8082

Client Sample ID:	SLR-2-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-02 1/0.25
Date Analyzed:	07/30/13	Data File:	34.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	96	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	HC-20-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-03 1/0.25
Date Analyzed:	07/30/13	Data File:	36.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	74	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-1S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-04 1/0.25
Date Analyzed:	07/30/13	Data File:	38.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	93	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-6S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-05 1/0.25
Date Analyzed:	07/30/13	Data File:	40.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	74	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-7S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-06 1/0.25
Date Analyzed:	07/30/13	Data File:	42.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-10D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-07 1/0.25
Date Analyzed:	07/30/13	Data File:	44.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	97	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-56D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-08 1/0.25
Date Analyzed:	07/30/13	Data File:	48.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	76	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	03-1380 mb 1/0.25
Date Analyzed:	07/30/13	Data File:	30.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	78	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-01
Date Analyzed:	07/17/13	Data File:	307148-01.026
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	82	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	1.68
Nickel	1.39
Copper	<0.34
Zinc	<0.61
Arsenic	1.73
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.106
Barium	23.8
Thallium	<0.074
Lead	0.166

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-2-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-02
Date Analyzed:	07/17/13	Data File:	307148-02.027
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	74	60	125
Indium	78	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.288
Nickel	1.64
Copper	1.37
Zinc	1.87
Arsenic	0.492
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	1.28
Barium	6.51
Thallium	<0.074
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	HC-20-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-03
Date Analyzed:	07/17/13	Data File:	307148-03.028
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	85	60	125
Indium	81	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.982
Nickel	2.00
Copper	<0.34
Zinc	9.81
Arsenic	9.36
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.671
Barium	21.0
Thallium	<0.074
Lead	0.349

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-1S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-04
Date Analyzed:	07/17/13	Data File:	307148-04.030
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	92	60	125
Indium	80	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	1.18
Nickel	2.10
Copper	<0.34
Zinc	8.20
Arsenic	11.7
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.268
Barium	32.7
Thallium	<0.074
Lead	0.567

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-6S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-05
Date Analyzed:	07/17/13	Data File:	307148-05.031
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	85	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.714
Nickel	3.28
Copper	1.37
Zinc	2.20
Arsenic	2.45
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.176
Barium	14.3
Thallium	<0.074
Lead	0.256

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-7S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-06
Date Analyzed:	07/17/13	Data File:	307148-06.032
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	78	60	125
Indium	79	60	125
Holmium	88	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.986
Nickel	1.50
Copper	0.676
Zinc	1.69
Arsenic	1.72
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	<0.052 j
Barium	16.3
Thallium	<0.074
Lead	0.160

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-10D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-07
Date Analyzed:	07/17/13	Data File:	307148-07.033
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	75	60	125
Holmium	79	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.782
Nickel	1.70
Copper	13.3
Zinc	0.981
Arsenic	8.07
Selenium	31.3
Silver	<0.064
Cadmium	0.318
Antimony	<0.052 j
Barium	94.7
Thallium	<0.074
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-56D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-08
Date Analyzed:	07/17/13	Data File:	307148-08.034
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	75	60	125
Holmium	79	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.831
Nickel	1.79
Copper	15.2
Zinc	0.672
Arsenic	8.07
Selenium	31.1
Silver	<0.064
Cadmium	<0.25 j
Antimony	<0.052 j
Barium	92.3
Thallium	<0.074
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	I3-415 mb
Date Analyzed:	07/17/13	Data File:	I3-415 mb.025
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	77	60	125
Indium	82	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	<0.138
Nickel	<0.46
Copper	<0.34
Zinc	<0.61
Arsenic	<0.15
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	<0.052 j
Barium	<0.26
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-01
Date Analyzed:	07/17/13	Data File:	307148-01.048
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	85	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	1.63
Nickel	1.50
Copper	<0.34
Zinc	0.610
Arsenic	1.92
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.110
Barium	24.2
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-2-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-02
Date Analyzed:	07/17/13	Data File:	307148-02.049
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	75	60	125
Indium	75	60	125
Holmium	80	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.477
Nickel	2.32
Copper	1.91
Zinc	2.30
Arsenic	0.509
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	1.48
Barium	6.54
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	HC-20-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-03
Date Analyzed:	07/17/13	Data File:	307148-03.050
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	81	60	125
Holmium	85	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.827
Nickel	2.91
Copper	<0.34
Zinc	14.6
Arsenic	11.0
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.487
Barium	22.0
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-1S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-04
Date Analyzed:	07/17/13	Data File:	307148-04.052
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	109	60	125
Indium	85	60	125
Holmium	88	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.922
Nickel	2.29
Copper	<0.34
Zinc	8.16
Arsenic	12.5
Selenium	0.573
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.256
Barium	31.0
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-6S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-05
Date Analyzed:	07/17/13	Data File:	307148-05.053
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	87	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.433
Nickel	4.20
Copper	<0.34
Zinc	2.17
Arsenic	2.76
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.203
Barium	13.6
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-7S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-06
Date Analyzed:	07/17/13	Data File:	307148-06.054
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	90	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.712
Nickel	2.05
Copper	<0.34
Zinc	1.18
Arsenic	1.77
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	<0.052 j
Barium	14.1
Thallium	<0.074
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-10D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-07
Date Analyzed:	07/17/13	Data File:	307148-07.055
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	72	60	125
Holmium	77	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.748
Nickel	1.87
Copper	12.4
Zinc	<0.61
Arsenic	8.91
Selenium	34.4
Silver	<0.064
Cadmium	<0.25 j
Antimony	<0.052 j
Barium	94.4
Thallium	<0.074
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-56D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307148-08
Date Analyzed:	07/17/13	Data File:	307148-08.056
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	80	60	125
Indium	61	60	125
Holmium	65	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	1.00
Nickel	2.19
Copper	15.7
Zinc	0.872
Arsenic	10.8
Selenium	41.4
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.066
Barium	113
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	I3-413 mb
Date Analyzed:	07/17/13	Data File:	I3-413 mb.047
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	89	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	<0.138
Nickel	<0.46
Copper	<0.34
Zinc	<0.61
Arsenic	<0.15
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	<0.052 j
Barium	<0.26
Thallium	<0.074
Lead	<0.144

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Avenue Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307148
Date Extracted: 07/12/13
Date Analyzed: 07/15/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL MERCURY
USING EPA METHOD 1631E
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
SLR-1-0713 307148-01	0.0012
SLR-2-0713 307148-02	0.0012
HC-20-0713 307148-03	0.0011
EMW-1S-0713 307148-04	0.0014
EMW-6S-0713 307148-05	0.0012
EMW-7S-0713 307148-06	0.00093
EMW-10D-0713 307148-07	0.00033
EMW-56D-0713 307148-08	0.00019
Method Blank	<0.00015

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Avenue Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307148
Date Extracted: 07/12/13
Date Analyzed: 07/15/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
SLR-1-0713 307148-01	0.00066
SLR-2-0713 307148-02	0.00084
HC-20-0713 307148-03	0.00042
EMW-1S-0713 307148-04	0.00052
EMW-6S-0713 307148-05	0.00048
EMW-7S-0713 307148-06	0.00043
EMW-10D-0713 307148-07	0.00060
EMW-56D-0713 307148-08	0.00034
Method Blank	<0.00015

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Avenue Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307148
Date Extracted: NA
Date Analyzed: 07/17/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
SLR-1-0713 307148-01	<10
SLR-2-0713 307148-02	<10
HC-20-0713 307148-03	11.2
EMW-1S-0713 307148-04	36.4
EMW-6S-0713 307148-05	<10
EMW-7S-0713 307148-06	20.5
EMW-10D-0713 307148-07	60.4
EMW-56D-0713 307148-08	60.0
Method Blank	<10

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Avenue Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307148

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 307129-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	92	69-134

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Avenue Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307148

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	500	75	87	58-134	15

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 307148-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	93	55-144
Chloromethane	ug/L (ppb)	50	<0.22	88	67-131
Vinyl chloride	ug/L (ppb)	50	<0.13	93	61-139
Bromomethane	ug/L (ppb)	50	<0.2	858 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	159 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	123	71-128
Acetone	ug/L (ppb)	250	<2.6	106	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	102	71-123
Methylene chloride	ug/L (ppb)	50	<3	104	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	101	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	97	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	98	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	117	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	99	73-119
Chloroform	ug/L (ppb)	50	<0.24	92	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	105	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	96	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	105	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	98	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	110	72-123
Benzene	ug/L (ppb)	50	<0.13	93	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	96	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	100	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	109	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	103	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	116	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	109	76-120
Toluene	ug/L (ppb)	50	<0.13	93	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	100	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	103	81-111
2-Hexanone	ug/L (ppb)	250	<1	114	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	98	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	90	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	106	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	106	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	92	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	95	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	108	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	95	63-128
o-Xylene	ug/L (ppb)	50	<0.22	96	64-129
Styrene	ug/L (ppb)	50	<0.22	99	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	97	76-118
Bromoform	ug/L (ppb)	50	<0.22	108	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	96	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	94	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	98	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	105	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	101	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	93	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	96	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	96	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	96	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	95	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	95	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	0.20	91	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	90	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	90	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	112	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	84	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	79	67-120
Naphthalene	ug/L (ppb)	50	<0.28	100	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	96	79-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	94	94	54-149	0
Chloromethane	ug/L (ppb)	50	91	91	67-133	0
Vinyl chloride	ug/L (ppb)	50	95	95	73-132	0
Bromomethane	ug/L (ppb)	50	890 vo	899 vo	69-123	1
Chloroethane	ug/L (ppb)	50	161 vo	160 vo	68-126	1
Trichlorofluoromethane	ug/L (ppb)	50	122	123	70-132	1
Acetone	ug/L (ppb)	250	105	103	44-145	2
1,1-Dichloroethene	ug/L (ppb)	50	102	103	75-119	1
Methylene chloride	ug/L (ppb)	50	101	102	63-132	1
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	103	102	70-122	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	99	98	76-118	1
1,1-Dichloroethane	ug/L (ppb)	50	100	100	80-116	0
2,2-Dichloropropane	ug/L (ppb)	50	126	122	62-141	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	101	101	81-111	0
Chloroform	ug/L (ppb)	50	93	93	81-109	0
2-Butanone (MEK)	ug/L (ppb)	250	101	102	53-140	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	97	97	79-109	0
1,1,1-Trichloroethane	ug/L (ppb)	50	106	106	80-116	0
1,1-Dichloropropene	ug/L (ppb)	50	99	100	78-112	1
Carbon tetrachloride	ug/L (ppb)	50	112	112	72-128	0
Benzene	ug/L (ppb)	50	95	95	81-108	0
Trichloroethene	ug/L (ppb)	50	97	96	77-108	1
1,2-Dichloropropane	ug/L (ppb)	50	102	103	82-109	1
Bromodichloromethane	ug/L (ppb)	50	109	112	76-120	3
Dibromomethane	ug/L (ppb)	50	102	103	80-110	1
4-Methyl-2-pentanone	ug/L (ppb)	250	113	113	59-142	0
cis-1,3-Dichloropropene	ug/L (ppb)	50	113	115	76-128	2
Toluene	ug/L (ppb)	50	95	96	83-108	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	106	107	76-128	1
1,1,2-Trichloroethane	ug/L (ppb)	50	103	104	82-110	1
2-Hexanone	ug/L (ppb)	250	107	109	53-145	2
1,3-Dichloropropane	ug/L (ppb)	50	99	101	83-110	2
Tetrachloroethene	ug/L (ppb)	50	92	92	78-109	0
Dibromochloromethane	ug/L (ppb)	50	107	109	63-140	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	107	109	85-113	2
Chlorobenzene	ug/L (ppb)	50	93	94	84-108	1
Ethylbenzene	ug/L (ppb)	50	97	98	84-110	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	111	113	76-125	2
m,p-Xylene	ug/L (ppb)	100	97	98	84-112	1
o-Xylene	ug/L (ppb)	50	99	99	82-113	0
Styrene	ug/L (ppb)	50	101	102	84-116	1
Isopropylbenzene	ug/L (ppb)	50	100	100	81-122	0
Bromoform	ug/L (ppb)	50	108	113	40-161	5
n-Propylbenzene	ug/L (ppb)	50	101	102	81-115	1
Bromobenzene	ug/L (ppb)	50	97	98	80-113	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	103	103	83-117	0
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	106	107	79-118	1
1,2,3-Trichloropropane	ug/L (ppb)	50	102	102	74-116	0
2-Chlorotoluene	ug/L (ppb)	50	97	98	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	99	100	81-113	1
tert-Butylbenzene	ug/L (ppb)	50	101	101	81-119	0
1,2,4-Trimethylbenzene	ug/L (ppb)	50	100	101	83-116	1
sec-Butylbenzene	ug/L (ppb)	50	101	101	83-116	0
p-Isopropyltoluene	ug/L (ppb)	50	100	99	82-119	1
1,3-Dichlorobenzene	ug/L (ppb)	50	94	95	83-111	1
1,4-Dichlorobenzene	ug/L (ppb)	50	93	94	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	94	94	83-111	0
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	111	111	62-133	0
1,2,4-Trichlorobenzene	ug/L (ppb)	50	90	90	77-117	0
Hexachlorobutadiene	ug/L (ppb)	50	85	83	74-118	2
Naphthalene	ug/L (ppb)	50	103	102	75-131	1
1,2,3-Trichlorobenzene	ug/L (ppb)	50	103	101	82-115	2

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	10	35	39	18-52	11
Bis(2-chloroethyl) ether	ug/L (ppb)	10	80	87	52-113	8
2-Chlorophenol	ug/L (ppb)	10	76	86	50-110	12
1,3-Dichlorobenzene	ug/L (ppb)	10	75	82	45-109	9
1,4-Dichlorobenzene	ug/L (ppb)	10	75	83	44-118	10
1,2-Dichlorobenzene	ug/L (ppb)	10	75	84	46-116	11
Benzyl alcohol	ug/L (ppb)	10	74	84	42-100	13
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	76	87	51-124	13
2-Methylphenol	ug/L (ppb)	10	62	69	38-100	11
Hexachloroethane	ug/L (ppb)	10	75	83	42-117	10
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	80	88	48-124	10
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	62	70	48-87	12
Nitrobenzene	ug/L (ppb)	10	82	89	50-118	8
Isophorone	ug/L (ppb)	10	86	95	55-116	10
2-Nitrophenol	ug/L (ppb)	10	92	105	42-127	13
2,4-Dimethylphenol	ug/L (ppb)	10	29 vo	28 vo	45-100	4
Benzoic acid	ug/L (ppb)	65	41	40	10-46	1
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	82	90	55-115	9
2,4-Dichlorophenol	ug/L (ppb)	10	85	94	55-113	10
1,2,4-Trichlorobenzene	ug/L (ppb)	10	76	83	50-109	9
Hexachlorobutadiene	ug/L (ppb)	10	76	84	50-109	10
4-Chloroaniline	ug/L (ppb)	20	76	80	30-109	5
4-Chloro-3-methylphenol	ug/L (ppb)	10	86	96	54-114	11
2-Methylnaphthalene	ug/L (ppb)	10	79	88	53-113	11
Hexachlorocyclopentadiene	ug/L (ppb)	10	47	40	26-94	16
2,4,6-Trichlorophenol	ug/L (ppb)	10	89	96	46-114	8
2,4,5-Trichlorophenol	ug/L (ppb)	10	92	99	57-122	7
2-Chloronaphthalene	ug/L (ppb)	10	83	90	52-112	8
2-Nitroaniline	ug/L (ppb)	10	97	108	47-128	11
Dimethyl phthalate	ug/L (ppb)	10	91	100	55-116	9
2,6-Dinitrotoluene	ug/L (ppb)	10	97	108	49-126	11
3-Nitroaniline	ug/L (ppb)	20	102	104	21-125	2
2,4-Dinitrophenol	ug/L (ppb)	10	91	113	29-130	22 vo
Dibenzofuran	ug/L (ppb)	10	84	93	53-113	10
2,4-Dinitrotoluene	ug/L (ppb)	10	90	100	48-129	11
4-Nitrophenol	ug/L (ppb)	10	46	48	12-59	4
Diethyl phthalate	ug/L (ppb)	10	87	97	55-116	11
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	85	94	52-115	10
N-Nitrosodiphenylamine	ug/L (ppb)	10	84	92	51-112	9
4-Nitroaniline	ug/L (ppb)	20	99	104	42-115	5
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	95	108	40-128	13
4-Bromophenyl phenyl ether	ug/L (ppb)	10	86	95	53-114	10
Hexachlorobenzene	ug/L (ppb)	10	86	95	54-115	10
Pentachlorophenol	ug/L (ppb)	10	85	95	49-114	11
Carbazole	ug/L (ppb)	10	89	94	54-115	5
Di-n-butyl phthalate	ug/L (ppb)	10	95	103	54-115	8
Benzyl butyl phthalate	ug/L (ppb)	10	98	110	53-122	12
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	112	101	54-122	10
Di-n-octyl phthalate	ug/L (ppb)	10	86	96	50-131	11

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	78	75	67-116	4
Acenaphthylene	ug/L (ppb)	1	94	91	65-119	3
Acenaphthene	ug/L (ppb)	1	90	88	66-118	2
Fluorene	ug/L (ppb)	1	96	95	64-125	1
Phenanthrene	ug/L (ppb)	1	91	93	67-120	2
Anthracene	ug/L (ppb)	1	94	95	65-122	1
Fluoranthene	ug/L (ppb)	1	96	101	65-127	5
Pyrene	ug/L (ppb)	1	97	99	62-130	2
Benz(a)anthracene	ug/L (ppb)	1	92	94	60-118	2
Chrysene	ug/L (ppb)	1	95	97	66-125	2
Benzo(b)fluoranthene	ug/L (ppb)	1	85	90	55-135	6
Benzo(k)fluoranthene	ug/L (ppb)	1	81	81	62-125	0
Benzo(a)pyrene	ug/L (ppb)	1	83	85	58-127	2
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	85	87	36-142	2
Dibenz(a,h)anthracene	ug/L (ppb)	1	82	84	37-133	2
Benzo(g,h,i)perylene	ug/L (ppb)	1	84	85	34-135	1

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.625	99	96	70-130	3
Aroclor 1260	ug/L (ppb)	0.625	92	104	70-130	10

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 307129-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.098	112	120	67-145	6
Chromium	ug/L (ppb)	20	0.840	105	111	64-132	6
Nickel	ug/L (ppb)	20	5.82	99 b	103 b	61-128	4 b
Copper	ug/L (ppb)	20	14.4	99 b	103 b	63-124	4 b
Zinc	ug/L (ppb)	50	159	97 b	113 b	55-141	15 b
Arsenic	ug/L (ppb)	10	0.954	102	102	60-150	0
Selenium	ug/L (ppb)	5	0.785	103	104	43-178	1
Silver	ug/L (ppb)	5	<0.064	99	99	71-115	0
Cadmium	ug/L (ppb)	5	<0.25	102	104	83-116	2
Antimony	ug/L (ppb)	20	0.677	99	102	62-125	3
Barium	ug/L (ppb)	50	41.4	110 b	110 b	79-126	0 b
Thallium	ug/L (ppb)	5	<0.074	104	107	73-119	3
Lead	ug/L (ppb)	10	18.5	107 b	116 b	79-121	8 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	106	73-135
Chromium	ug/L (ppb)	20	104	80-119
Nickel	ug/L (ppb)	20	105	79-122
Copper	ug/L (ppb)	20	106	81-119
Zinc	ug/L (ppb)	50	99	76-124
Arsenic	ug/L (ppb)	10	99	80-111
Selenium	ug/L (ppb)	5	103	81-119
Silver	ug/L (ppb)	5	105	80-116
Cadmium	ug/L (ppb)	5	103	83-113
Antimony	ug/L (ppb)	20	96	79-108
Barium	ug/L (ppb)	50	107	83-117
Thallium	ug/L (ppb)	5	103	78-116
Lead	ug/L (ppb)	10	105	83-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 307106-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.098	106	104	67-145	2
Chromium	ug/L (ppb)	20	0.319	95	92	64-132	3
Nickel	ug/L (ppb)	20	1.33	89	89	61-128	0
Copper	ug/L (ppb)	20	<0.34	88	87	63-124	1
Zinc	ug/L (ppb)	50	1.91	89	88	55-141	1
Arsenic	ug/L (ppb)	10	29.5	126 b	106 b	60-150	17 b
Selenium	ug/L (ppb)	5	0.650	109	106	43-178	3
Silver	ug/L (ppb)	5	<0.064	102	99	71-115	3
Cadmium	ug/L (ppb)	5	<0.25	105	101	83-116	4
Antimony	ug/L (ppb)	20	0.067	104	100	62-125	4
Barium	ug/L (ppb)	50	19.6	108 b	103 b	79-126	5 b
Thallium	ug/L (ppb)	5	<0.074	101	97	73-119	4
Lead	ug/L (ppb)	10	<0.144	101	96	79-121	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	108	73-135
Chromium	ug/L (ppb)	20	100	80-119
Nickel	ug/L (ppb)	20	101	79-122
Copper	ug/L (ppb)	20	98	81-119
Zinc	ug/L (ppb)	50	97	76-124
Arsenic	ug/L (ppb)	10	92	80-111
Selenium	ug/L (ppb)	5	99	81-119
Silver	ug/L (ppb)	5	99	80-116
Cadmium	ug/L (ppb)	5	96	83-113
Antimony	ug/L (ppb)	20	89	79-108
Barium	ug/L (ppb)	50	98	83-117
Thallium	ug/L (ppb)	5	92	78-116
Lead	ug/L (ppb)	10	95	83-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 307148-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	0.0012	84	86	63-132	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	94	78-118

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Avenue Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307148

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: 307148-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	0.00066	84	83	63-132	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	97	78-118

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Avenue Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307148

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 307166-09 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<10	<10	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
TSS	mg/L	50	86	61-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

July 25, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 307148
ARI Job No.: WX33

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted eight water samples on July 12, 2013, under ARI job WX33. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile WX33

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.: 307148

PO #: C-460

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
☒ Standard Turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Samples Received at 1.9 °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500			Notes
						ANALYSES REQUESTED												
SLR-1-0713		07/11/13	0821	water	2									X	X			
SLR-2-0713			1021											X	X			
HC-20-0713			0952											X	X			
EMW-1S-0713			0937											X	X			
EMW-6S-0713		07/10/13	1456											X	X			
EMW-7S-0713		07/11/13	0828											X	X			
EMW-10D-0713		07/10/13	1532											X	X			
EMW-56D-0713			1540											X	X			
~~TB-071013~~		~~07/10/13~~																

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Michele Costales Poquiz	F&B	7/11/13	4:53 PM
Received by:	Taylor Christian	ARI	7-12-13	1125
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC SLRC.DOC

Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: F & B

COC No(s): NA

Assigned ARI Job No: LWX33

Project Name:

Delivered by: Fed-Ex UPS (Courier) Hand Delivered Other Postal Exp

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc)	(YES)	NO
Temperature of Cooler(s) (°C) (recommended 2 0-6.0 °C for chemistry)	1.9	

If cooler temperature is out of compliance fill out form 00070F — Temp Gun ID#: 90877952

Cooler Accepted by: TS Date: 7-12-13 Time: 1025

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used?	Bubble Wrap Wet Ice (Gel Packs) Baggies Foam Block Paper Other:		
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	(NO)
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI: (NA) YES Date/Time: Equipment: Split by:

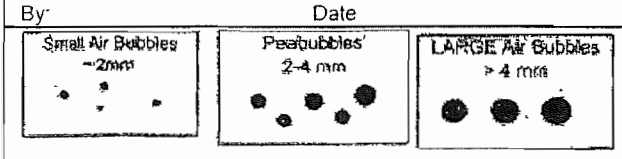
Samples Logged by: JM Date: 7/12/13 Time: 1052

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date



Small → "sm"

Peabubbles → "pb"

Large → "lg"

Headspace → "hs"

LWX33 : 00003

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WX33
Client: Friedman and Bruya, Inc
Project Event: 307148
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	SLR-1-0713	WX33A	13-14639	Water	07/11/13 08:21	07/12/13 10:25
2.	SLR-2-0713	WX33B	13-14640	Water	07/11/13 10:21	07/12/13 10:25
3.	HC-20-0713	WX33C	13-14641	Water	07/11/13 09:52	07/12/13 10:25
4.	EMW-1S-0713	WX33D	13-14642	Water	07/11/13 09:37	07/12/13 10:25
5.	EMW-6S-0713	WX33E	13-14643	Water	07/10/13 14:56	07/12/13 10:25
6.	EMW-7S-0713	WX33F	13-14644	Water	07/11/13 08:28	07/12/13 10:25
7.	EMW-10D-0713	WX33G	13-14645	Water	07/10/13 15:32	07/12/13 10:25
8.	EMW-56D-0713	WX33H	13-14646	Water	07/10/13 15:40	07/12/13 10:25

WX33 : 080801

SAMPLE RESULTS-CONVENTIONALS
WX33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/24/13

Project: NA
Event: 307148
Date Sampled: 07/11/13
Date Received: 07/12/13

Client ID: SLR-1-0713
ARI ID: 13-14639 WX33A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/12/13 071213#1	SM2540C	mg/L	10.0	342
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	2.0	14.4

RL Analytical reporting limit
U Undetected at reported detection limit

WX33 : 00085

SAMPLE RESULTS-CONVENTIONALS
WX33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/24/13

Project: NA
Event: 307148
Date Sampled: 07/11/13
Date Received: 07/12/13

Client ID: SLR-2-0713
ARI ID: 13-14640 WX33B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/12/13 071213#1	SM2540C	mg/L	5.0	168
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	1.0	1.1

RL Analytical reporting limit
U Undetected at reported detection limit

WX33 : 080806

SAMPLE RESULTS-CONVENTIONALS
WX33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/24/13

Project: NA
Event: 307148
Date Sampled: 07/11/13
Date Received: 07/12/13

Client ID: HC-20-0713
ARI ID: 13-14641 WX33C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/12/13 071213#1	SM2540C	mg/L	5.0	196
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	1.0	4.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/24/13

Project: NA
Event: 307148
Date Sampled: 07/11/13
Date Received: 07/12/13

Client ID: EMW-1S-0713
ARI ID: 13-14642 WX33D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/12/13 071213#1	SM2540C	mg/L	10.0	339
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	1.0	5.3

RL Analytical reporting limit
U Undetected at reported detection limit

WX33 : 00000

SAMPLE RESULTS-CONVENTIONALS
WX33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/24/13

Project: NA
Event: 307148
Date Sampled: 07/10/13
Date Received: 07/12/13

Client ID: EMW-6S-0713
ARI ID: 13-14643 WX33E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/12/13 071213#1	SM2540C	mg/L	10.0	207
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	1.0	5.3

RL Analytical reporting limit
U Undetected at reported detection limit

WX33 : 080513

SAMPLE RESULTS-CONVENTIONALS
WX33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/24/13

Project: NA
Event: 307148
Date Sampled: 07/11/13
Date Received: 07/12/13

Client ID: EMW-7S-0713
ARI ID: 13-14644 WX33F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/12/13 071213#1	SM2540C	mg/L	5.0	254
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	1.0	6.7

RL Analytical reporting limit
U Undetected at reported detection limit

WX33 : 00018

SAMPLE RESULTS-CONVENTIONALS
WX33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/24/13

Project: NA
Event: 307148
Date Sampled: 07/10/13
Date Received: 07/12/13

Client ID: EMW-10D-0713
ARI ID: 13-14645 WX33G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/12/13 071213#1	SM2540C	mg/L	100	4,940
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	500	2,660

RL Analytical reporting limit
U Undetected at reported detection limit

WX33:080711

SAMPLE RESULTS-CONVENTIONALS
WX33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/24/13

Project: NA
Event: 307148
Date Sampled: 07/10/13
Date Received: 07/12/13

Client ID: EMW-56D-0713
ARI ID: 13-14646 WX33H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/12/13 071213#1	SM2540C	mg/L	100	10,800
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	500	2,680

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
WX33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/24/13

Project: NA
Event: 307148
Date Sampled: 07/11/13
Date Received: 07/12/13

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: WX33A Client ID: SLR-1-0713							
Chloride	SM4500-CLE	07/15/13	mg/L	14.4	39.7	25.0	101.2%

WX33:00013

REPLICATE RESULTS-CONVENTIONALS
WX33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/24/13

Project: NA
Event: 307148
Date Sampled: 07/11/13
Date Received: 07/12/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: WX33A Client ID: SLR-1-0713						
Total Dissolved Solids	SM2540C	07/12/13	mg/L	342	339	0.9%
Chloride	SM4500-CLE	07/15/13	mg/L	14.4	14.4	0.0%

WX33:0001

LAB CONTROL RESULTS-CONVENTIONALS
WX33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/24/13

Project: NA
Event: 307148
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	07/12/13	mg/L	518	500	103.6%

WX33 : 080615

METHOD BLANK RESULTS-CONVENTIONALS
WX33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/24/13

Project: NA
Event: 307148
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	07/12/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	07/15/13	mg/L	< 1.0 U	FB

FB Filtration Blank

WX33 · 0801S

STANDARD REFERENCE RESULTS-CONVENTIONALS
WX33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/24/13

Project: NA
Event: 307148
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	07/15/13	mg/L	5.0	5.0	100.0%

WX33:0047

307148

SAMPLE CHAIN OF CUSTODY KJ-AE 07-11-13

V5/BI4/E04

Page # 1 of 1

Send Report To Mike Staton

Company SLR International Corporation

Address 22118 20th Ave SE, C-202

City, State, ZIP Bothell, WA 98021

Phone # (425) 402-8800 Fax # (425) 402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: 8th Avenue Terminals, Inc Crowley RI-ES 101.00205.00030

PO#: 101.00205.00030

REMARKS: NWTPH-Dx for DRO & HO after silica gel cleanup

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- [ ] Dispose after 30 days
- [ ] Return samples
- [x] Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS	Total Metals (Group by Method 200.8)	Total Mercury by 1631E	Dissolved Metals (Group by Method 200.8)	Dissolved Mercury by 1631E	PCBs by 8082A	PAHs by 8270D-SIM	TSS by 2540D	TDS by 2540C	Chloride by SM4500	Notes
SLR-1-0713	01A-R	7/11/13	0821	Water	1.8	X	X		X	X		X	X	X	X	X	X	X	X	X	
SLR-2-0713	02		1021																		
HC-20-0713	03		0952																		
EMW-1S-0713	04		0937																		
EMW-6S-0713	05	7/10/13	1456																		
EMW-7S-0713	06	7/11/13	0828																		
EMW-10D-0713	07	7/10/13	1532																		
EMW-56D-0713	08		1540																		
TB-071013	09A-B	7/10/13	1631	Water	2				X												

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Chris Lee	SLR	7/11/13	12:35 PM
Received by:	Vinh	FBI	7/11/13	12:35
Relinquished by:				
Received by:		Samples received at 2 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 13, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on July 11, 2013 from the 8th Ave Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307152 project. There are 93 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0813R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 11, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307152 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
307152-01	CMW-1-0713
307152-02	CMW-4-0713
307152-03	SLR-7-0713
307152-04	EMW-3S-0713
307152-05	EMW-4D-0713
307152-06	EMW-13S-0713
307152-07	EMW-14D-0713
307152-08	EMW-15D-0713
307152-09	EMW-16D-0713
307152-10	TB-071113

Total Petroleum Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The calibration result for bromomethane fell outside of acceptance criteria. The values reported are estimates.

The sample TB-071113 was received with incorrect preservation for the 8260 analysis of vinyl chloride. The result should be considered an estimate.

The presence of acetone in the sample TB-071113 is likely due to laboratory contamination. The results have been flagged accordingly.

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for several compounds. The compounds were not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The surrogate 2,4,6-tribromophenol fell outside of acceptance criteria. The values reported are estimates.

The reporting limit for phenol was raised due to contamination in the method blank.

CASE NARRATIVE (continued)

The presence of bis(2-ethylhexyl) phthalate in the samples and method blank is likely due to laboratory contamination. The results have been flagged accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-14D-0713, EMW-15D-0713, and EMW-16D-0713. The results have been flagged accordingly.

The percent recovery for the LCS and LCSD exceeded acceptance criteria for several compounds. In addition, the relative percent difference (RPD) for the LCS/LCSD exceeded acceptance criteria for several compounds. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM
The internal standard associated with several analytes exceeded acceptance criteria for the sample EMW-13S-0713. The sample was diluted and reanalyzed. The results of the original analysis and the reanalysis are included.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
All quality control requirements were acceptable.

Total Metals by EPA Method 200.8
The reporting limit for cadmium was raised due to interference.

The internal standard associated with several analytes exceeded acceptance criteria for the samples CMW-1-0713, CMW-4-0713, EMW-13S-0713, EMW-15D-0713, and EMW-16D-0713. The samples were diluted and reanalyzed. The results of the original analyses and the reanalyses are included.

Dissolved Metals by EPA Method 200.8
The reporting limit for cadmium was raised due to interference.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-14D-0713, EMW-15D-0713, and EMW-16D-0713. The samples were diluted and reanalyzed. The results of the original analyses and the reanalyses are included.

Total Mercury by EPA Method 1631E
The detection limit has been raised due to trace level laboratory contamination.

Dissolved Mercury by EPA Method 1631E
The detection limit has been raised due to trace level laboratory contamination.

CASE NARRATIVE (continued)

Total Suspended Solids by Method 2540D
All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C
The samples were sent to Analytical Resources, Inc. (ARI) for total dissolved solids analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500
The samples were sent to ARI for chloride analysis. The report generated by ARI is enclosed.

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Ave Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307152
Date Extracted: 07/12/13
Date Analyzed: 07/12/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
CMW-1-0713 307152-01	<12	96
CMW-4-0713 307152-02	<12	94
SLR-7-0713 307152-03	<12	97
EMW-3S-0713 307152-04	<12	95
EMW-4D-0713 307152-05	<12	98
EMW-13S-0713 307152-06	<12	97
EMW-14D-0713 307152-07	<12	95
EMW-15D-0713 307152-08	<12	100
EMW-16D-0713 307152-09	<12	96
Method Blank 03-1350 MB	<12	96

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Ave Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307152
Date Extracted: 07/12/13
Date Analyzed: 07/26/13 and 07/27/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 51-134)
CMW-1-0713 307152-01	<6.9	<52	91
CMW-4-0713 307152-02	<6.9	<52	92
SLR-7-0713 307152-03	<6.9	<52	96
EMW-3S-0713 307152-04	<6.9	<52	99
EMW-4D-0713 307152-05	<6.9	<52	104
EMW-13S-0713 307152-06	23 x	<52	96
EMW-14D-0713 307152-07	<6.9	<52	100
EMW-15D-0713 307152-08	<6.9	<52	95
EMW-16D-0713 307152-09	<6.9	<52	95
Method Blank 03-1381 MB	<6.9	<52	92

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-01
Date Analyzed:	07/15/13	Data File:	071509.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	0.28	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-4-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-02
Date Analyzed:	07/15/13	Data File:	071510.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SLR-7-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-03
Date Analyzed:	07/15/13	Data File:	071511.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-3S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-04
Date Analyzed:	07/15/13	Data File:	071512.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-4D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-05
Date Analyzed:	07/15/13	Data File:	071513.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	44 lc	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-13S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-06
Date Analyzed:	07/15/13	Data File:	071514.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-14D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-07
Date Analyzed:	07/15/13	Data File:	071515.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-15D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-08
Date Analyzed:	07/15/13	Data File:	071516.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	0.25	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-16D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-09
Date Analyzed:	07/15/13	Data File:	071517.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-071113	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-10
Date Analyzed:	07/15/13	Data File:	071518.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	4.7 lc	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	03-1315 mb
Date Analyzed:	07/15/13	Data File:	071507.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-01
Date Analyzed:	07/19/13	Data File:	071904.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	58	32	162
Phenol-d6	37	10	170
Nitrobenzene-d5	95	50	150
2-Fluorobiphenyl	98	43	158
2,4,6-Tribromophenol	116 ca	43	146
Terphenyl-d14	104	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.30 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	0.045
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-4-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-02
Date Analyzed:	07/19/13	Data File:	071905.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	36	32	162
Phenol-d6	26	10	170
Nitrobenzene-d5	94	50	150
2-Fluorobiphenyl	99	43	158
2,4,6-Tribromophenol	110 ca	43	146
Terphenyl-d14	105	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.28 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-7-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-03
Date Analyzed:	07/19/13	Data File:	071906.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	32	162
Phenol-d6	29	10	170
Nitrobenzene-d5	95	50	150
2-Fluorobiphenyl	96	43	158
2,4,6-Tribromophenol	122 ca	43	146
Terphenyl-d14	100	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.31 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-3S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-04
Date Analyzed:	07/19/13	Data File:	071907.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	40	32	162
Phenol-d6	29	10	170
Nitrobenzene-d5	94	50	150
2-Fluorobiphenyl	94	43	158
2,4,6-Tribromophenol	91 ca	43	146
Terphenyl-d14	103	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	0.090 lc
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.27 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-4D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-05
Date Analyzed:	07/19/13	Data File:	071925.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	50	32	162
Phenol-d6	32	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	93	43	158
2,4,6-Tribromophenol	119 ca	43	146
Terphenyl-d14	107	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	0.10	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.30 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-13S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-06
Date Analyzed:	07/19/13	Data File:	071927.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	47	32	162
Phenol-d6	31	10	170
Nitrobenzene-d5	98	50	150
2-Fluorobiphenyl	98	43	158
2,4,6-Tribromophenol	117 ca	43	146
Terphenyl-d14	107	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	0.070	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	0.19
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	0.20
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.35 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-14D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-07
Date Analyzed:	07/19/13	Data File:	071928.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	48	32	162
Phenol-d6	30	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	99	43	158
2,4,6-Tribromophenol	122 ca	43	146
Terphenyl-d14	124	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	0.042	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	0.060
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.33 fb
2-Methylnaphthalene	0.060	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-15D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-08
Date Analyzed:	07/20/13	Data File:	071929.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	51	32	162
Phenol-d6	31	10	170
Nitrobenzene-d5	99	50	150
2-Fluorobiphenyl	98	43	158
2,4,6-Tribromophenol	123 ca	43	146
Terphenyl-d14	114 J	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086 J
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.33 fb J
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-16D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-09
Date Analyzed:	07/19/13	Data File:	071912.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	41	32	162
Phenol-d6	29	10	170
Nitrobenzene-d5	87	50	150
2-Fluorobiphenyl	93	43	158
2,4,6-Tribromophenol	91 ca	43	146
Terphenyl-d14	102	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	0.052	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.22 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	03-1395 mb
Date Analyzed:	07/18/13	Data File:	071807.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49	32	162
Phenol-d6	35	10	170
Nitrobenzene-d5	94	50	150
2-Fluorobiphenyl	95	43	158
2,4,6-Tribromophenol	107 ca	43	146
Terphenyl-d14	113	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.33 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-01
Date Analyzed:	07/18/13	Data File:	071820.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	90	50	150
Benzo(a)anthracene-d12	96	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-4-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-02
Date Analyzed:	07/19/13	Data File:	071831.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	99	50	150
Benzo(a)anthracene-d12	108	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0080
Acenaphthylene	<0.0024
Acenaphthene	0.010
Fluorene	0.0065
Phenanthrene	0.061
Anthracene	0.023
Fluoranthene	0.20
Pyrene	0.21
Benz(a)anthracene	0.13
Chrysene	0.16
Benzo(a)pyrene	0.14
Benzo(b)fluoranthene	0.21
Benzo(k)fluoranthene	0.063
Indeno(1,2,3-cd)pyrene	0.085
Dibenz(a,h)anthracene	0.026
Benzo(g,h,i)perylene	0.083

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-7-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-03
Date Analyzed:	07/18/13	Data File:	071821.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	89	50	150
Benzo(a)anthracene-d12	99	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0042
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-3S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-04
Date Analyzed:	07/19/13	Data File:	071916.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	89	50	150
Benzo(a)anthracene-d12	109	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.021
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	0.0069
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-4D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-05
Date Analyzed:	07/19/13	Data File:	071833.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	50	150
Benzo(a)anthracene-d12	104	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	0.0060
Pyrene	0.0049
Benz(a)anthracene	0.0043
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-13S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-06
Date Analyzed:	07/18/13	Data File:	071822.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	89	50	150
Benzo(a)anthracene-d12	100 J	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.037
Acenaphthylene	0.010
Acenaphthene	0.64
Fluorene	0.19
Phenanthrene	0.058
Anthracene	0.072
Fluoranthene	0.25
Pyrene	0.15 J
Benz(a)anthracene	0.040 J
Chrysene	0.053 J
Benzo(a)pyrene	0.038
Benzo(b)fluoranthene	0.053
Benzo(k)fluoranthene	0.020
Indeno(1,2,3-cd)pyrene	0.026
Dibenz(a,h)anthracene	0.0077
Benzo(g,h,i)perylene	0.028

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-13S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-06 1/10
Date Analyzed:	07/20/13	Data File:	071937.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	156 ds	50	150
Benzo(a)anthracene-d12	94 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.040
Acenaphthylene	<0.024
Acenaphthene	0.66
Fluorene	0.17
Phenanthrene	<0.066
Anthracene	0.071
Fluoranthene	0.26
Pyrene	0.14
Benz(a)anthracene	0.056
Chrysene	0.053
Benzo(a)pyrene	<0.078
Benzo(b)fluoranthene	<0.052
Benzo(k)fluoranthene	<0.076
Indeno(1,2,3-cd)pyrene	<0.07
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-14D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-07
Date Analyzed:	07/18/13	Data File:	071823.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	95	50	150
Benzo(a)anthracene-d12	111	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.11
Acenaphthylene	<0.0024
Acenaphthene	0.092
Fluorene	0.068
Phenanthrene	0.21
Anthracene	0.036
Fluoranthene	0.082
Pyrene	0.056
Benz(a)anthracene	0.0078
Chrysene	0.0066
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-15D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-08
Date Analyzed:	07/19/13	Data File:	071834.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	100	50	150
Benzo(a)anthracene-d12	116	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0050
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	0.0041
Phenanthrene	0.0093
Anthracene	0.0039
Fluoranthene	0.0093
Pyrene	0.0092
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-16D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307152-09
Date Analyzed:	07/19/13	Data File:	071915.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	87	50	150
Benzo(a)anthracene-d12	98	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0041
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	03-1394 mb
Date Analyzed:	07/18/13	Data File:	071806.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	50	150
Benzo(a)anthracene-d12	91	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For PCBs By EPA Method 8082

Client Sample ID:	CMW-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307152-01 1/0.25
Date Analyzed:	07/31/13	Data File:	50.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	CMW-4-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307152-02 1/0.25
Date Analyzed:	07/31/13	Data File:	52.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	93	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	0.033
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	SLR-7-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307152-03 1/0.25
Date Analyzed:	07/31/13	Data File:	54.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-3S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307152-04 1/0.25
Date Analyzed:	07/31/13	Data File:	56.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	81	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-4D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307152-05 1/0.25
Date Analyzed:	07/31/13	Data File:	58.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	93	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-13S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307152-06 1/0.25
Date Analyzed:	07/31/13	Data File:	60.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	82	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	0.14
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-14D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307152-07 1/0.25
Date Analyzed:	07/31/13	Data File:	62.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	71	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-15D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307152-08 1/0.25
Date Analyzed:	07/31/13	Data File:	64.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	73	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-16D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	307152-09 1/0.25
Date Analyzed:	07/31/13	Data File:	66.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/12/13	Lab ID:	03-1380 mb 1/0.25
Date Analyzed:	07/30/13	Data File:	30.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	78	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-01
Date Analyzed:	07/19/13	Data File:	307152-01.031
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	47 vo	60	125
Indium	48 vo	60	125
Holmium	48 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	0.202 J
Cadmium	<0.25 J, j
Thallium	<0.074 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-01 x10
Date Analyzed:	07/19/13	Data File:	307152-01 x10.038
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	74	60	125
Indium	75	60	125
Holmium	80	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.25
Nickel	8.24
Copper	33.5
Zinc	47.0
Arsenic	26.5
Selenium	100
Silver	<0.640
Cadmium	<2.5 j
Antimony	0.720
Barium	65.1
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-4-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-02
Date Analyzed:	07/19/13	Data File:	307152-02.032
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	56 vo	60	125
Indium	57 vo	60	125
Holmium	60 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.064 J
Cadmium	0.318 J
Thallium	<0.074 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-4-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-02 x10
Date Analyzed:	07/19/13	Data File:	307152-02 x10.039
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	74	60	125
Indium	73	60	125
Holmium	79	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	3.36
Nickel	5.44
Copper	22.7
Zinc	10.7
Arsenic	229
Selenium	49.1
Silver	<0.640
Cadmium	<2.5 j
Antimony	26.2
Barium	105
Thallium	<0.740
Lead	2.38

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-7-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-03
Date Analyzed:	07/19/13	Data File:	307152-03.026
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	97	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.350
Nickel	3.69
Copper	<0.34
Zinc	0.956
Arsenic	1.79
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.156
Barium	11.4
Thallium	<0.074
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-3S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-04
Date Analyzed:	07/19/13	Data File:	307152-04.027
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	60	60	125
Indium	62	60	125
Holmium	62	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.900
Nickel	7.12
Copper	20.6
Zinc	43.0
Arsenic	15.0
Selenium	51.2
Silver	<0.064
Cadmium	0.267 j
Antimony	0.716
Barium	117
Thallium	<0.074
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-4D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-05
Date Analyzed:	07/19/13	Data File:	307152-05.028
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	72	60	125
Indium	64	60	125
Holmium	66	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.950
Nickel	3.41
Copper	15.9
Zinc	1.03
Arsenic	14.9
Selenium	51.1
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.189
Barium	128
Thallium	<0.074
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-13S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-06
Date Analyzed:	07/19/13	Data File:	307152-06.029
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	58 vo	60	125
Indium	59 vo	60	125
Holmium	60 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.064 J
Cadmium	<0.25 J, j
Thallium	<0.074 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-13S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-06 x10
Date Analyzed:	07/19/13	Data File:	307152-06 x10.040
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	62	60	125
Indium	62	60	125
Holmium	67	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	4.25
Nickel	7.33
Copper	35.3
Zinc	18.6
Arsenic	271
Selenium	84.6
Silver	<0.640
Cadmium	<2.5 j
Antimony	31.4
Barium	160
Thallium	<0.740
Lead	2.88

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-14D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-07
Date Analyzed:	07/19/13	Data File:	307152-07.034
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	75	60	125
Indium	64	60	125
Holmium	67	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.983
Nickel	1.89
Copper	9.77
Zinc	2.78
Arsenic	11.0
Selenium	34.0
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.212
Barium	55.2
Thallium	<0.074
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-15D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-08
Date Analyzed:	07/19/13	Data File:	307152-08.035
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	72	60	125
Indium	59 vo	60	125
Holmium	61	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.064 J
Cadmium	<0.25 J, j
Thallium	<0.074
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-15D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-08 x10
Date Analyzed:	07/19/13	Data File:	307152-08 x10.041
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	73	60	125
Indium	69	60	125
Holmium	76	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.34
Nickel	4.63
Copper	19.2
Zinc	<6.00
Arsenic	18.1
Selenium	62.0
Silver	<0.640
Cadmium	<2.5 j
Antimony	<0.520 j
Barium	63.2
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-16D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-09
Date Analyzed:	07/19/13	Data File:	307152-09.036
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	66	60	125
Indium	45 vo	60	125
Holmium	43 vo	60	125

Analyte:	Concentration ug/L (ppb)
Zinc	3.31
Silver	<0.064 J
Cadmium	<0.25 J, j
Thallium	<0.074 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-16D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-09 x10
Date Analyzed:	07/19/13	Data File:	307152-09 x10.042
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	69	60	125
Indium	65	60	125
Holmium	70	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.33
Nickel	10.5
Copper	51.6
Zinc	<6.00
Arsenic	47.6
Selenium	176
Silver	<0.640
Cadmium	<2.5 j
Antimony	<0.520 j
Barium	203
Thallium	<0.740
Lead	<1.44

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Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	I3-419 mb
Date Analyzed:	07/19/13	Data File:	I3-419 mb.025
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	90	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	<0.138
Nickel	<0.46
Copper	<0.34
Zinc	<0.6
Arsenic	<0.15
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	<0.052 j
Barium	<0.26
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-01
Date Analyzed:	07/17/13	Data File:	307152-01.063
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	54 vo	60	125
Indium	55 vo	60	125
Holmium	58 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	0.235 J
Cadmium	0.255 J, j
Thallium	<0.074 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-1-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-01 x10
Date Analyzed:	07/17/13	Data File:	307152-01 x10.078
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	75	60	125
Indium	75	60	125
Holmium	84	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.89
Nickel	9.14
Copper	28.6
Zinc	47.8
Arsenic	19.4
Selenium	76.3
Silver	<0.640
Cadmium	<2.5 j
Antimony	0.730
Barium	65.1
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-4-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-02
Date Analyzed:	07/17/13	Data File:	307152-02.064
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	61	60	125
Indium	59 vo	60	125
Holmium	65	60	125

Analyte:	Concentration ug/L (ppb)
Nickel	3.58
Zinc	4.06
Silver	<0.064 J
Cadmium	0.289 J
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-4-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-02 x10
Date Analyzed:	07/17/13	Data File:	307152-02 x10.079
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	75	60	125
Indium	75	60	125
Holmium	86	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.59
Nickel	<4.60
Copper	15.2
Zinc	<6.00
Arsenic	211
Selenium	38.4
Silver	<0.640
Cadmium	<2.5 j
Antimony	25.3
Barium	101
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-7-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-03
Date Analyzed:	07/17/13	Data File:	307152-03.076
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	78	60	125
Indium	76	60	125
Holmium	83	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.512
Nickel	3.80
Copper	0.407
Zinc	0.899
Arsenic	1.68
Selenium	0.621
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.184
Barium	12.3
Thallium	0.089
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-3S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-04
Date Analyzed:	07/17/13	Data File:	307152-04.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	63	60	125
Indium	62	60	125
Holmium	69	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	1.08
Nickel	8.52
Copper	19.4
Zinc	37.0
Arsenic	11.2
Selenium	37.3
Silver	<0.064
Cadmium	<0.25 j
Antimony	0.751
Barium	109
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-4D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-05
Date Analyzed:	07/17/13	Data File:	307152-05.067
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	75	60	125
Indium	65	60	125
Holmium	71	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	1.23
Nickel	4.16
Copper	15.2
Zinc	2.01
Arsenic	10.8
Selenium	36.1
Silver	<0.064
Cadmium	1.12
Antimony	0.221
Barium	112
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-13S-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-06
Date Analyzed:	07/17/13	Data File:	307152-06.068
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	62	60	125
Indium	61	60	125
Holmium	66	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	0.774
Nickel	3.83
Copper	26.0
Zinc	3.56
Arsenic	159
Selenium	48.0
Silver	<0.064
Cadmium	<0.25 j
Antimony	20.1
Barium	123
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-14D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-07
Date Analyzed:	07/17/13	Data File:	307152-07.069
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	69	60	125
Indium	60 vo	60	125
Holmium	68	60	125

Analyte:	Concentration ug/L (ppb)
Nickel	1.61
Zinc	1.71
Silver	<0.064 J
Cadmium	<0.25 J, j
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-14D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-07 x10
Date Analyzed:	07/17/13	Data File:	307152-07 x10.080
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	77	60	125
Indium	78	60	125
Holmium	87	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.93
Nickel	<4.60
Copper	7.51
Zinc	<6.00
Arsenic	8.60
Selenium	25.5
Silver	<0.640
Cadmium	<2.5 j
Antimony	<0.520 j
Barium	51.6
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-15D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-08
Date Analyzed:	07/17/13	Data File:	307152-08.070
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	69	60	125
Indium	57 vo	60	125
Holmium	63	60	125

Analyte:	Concentration ug/L (ppb)
Nickel	2.58
Zinc	1.51
Silver	<0.064 J
Cadmium	<0.25 J, j
Thallium	<0.074
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-15D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-08 x10
Date Analyzed:	07/17/13	Data File:	307152-08 x10.081
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	76	60	125
Indium	76	60	125
Holmium	84	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.54
Nickel	<4.60
Copper	13.6
Zinc	<6.00
Arsenic	11.5
Selenium	44.3
Silver	<0.640
Cadmium	<2.5 j
Antimony	<0.520 j
Barium	56.2
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-16D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-09
Date Analyzed:	07/17/13	Data File:	307152-09.071
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	58 vo	60	125
Indium	41 vo	60	125
Holmium	45 vo	60	125

Analyte:	Concentration ug/L (ppb)
Zinc	2.92 J
Silver	<0.064 J
Cadmium	<0.25 J, j
Thallium	<0.074 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-16D-0713	Client:	SLR International Corp.
Date Received:	07/11/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307152-09 x10
Date Analyzed:	07/17/13	Data File:	307152-09 x10.082
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	68	60	125
Indium	66	60	125
Holmium	75	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.45
Nickel	8.90
Copper	49.0
Zinc	<6.00
Arsenic	35.4
Selenium	138
Silver	<0.640
Cadmium	<2.5 j
Antimony	<0.520 j
Barium	207
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	I3-420 mb
Date Analyzed:	07/17/13	Data File:	I3-420 mb.086
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	83	60	125
Indium	84	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.098
Chromium	<0.139
Nickel	<0.46
Copper	<0.34
Zinc	<0.61
Arsenic	<0.15
Selenium	<0.56
Silver	<0.064
Cadmium	<0.25 j
Antimony	<0.052 j
Barium	<0.26
Thallium	<0.074
Lead	<0.144

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Ave Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307152
Date Extracted: 07/15/13
Date Analyzed: 07/16/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
CMW-1-0713 307152-01	<0.0015
CMW-4-0713 307152-02	0.0059
SLR-7-0713 307152-03	<0.0015
EMW-3S-0713 307152-04	<0.0015
EMW-4D-0713 307152-05	<0.0015
EMW-13S-0713 307152-06	0.0029
EMW-14D-0713 307152-07	<0.0015
EMW-15D-0713 307152-08	<0.0015
EMW-16D-0713 307152-09	<0.0015
Method Blank	<0.0015

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Ave Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307152
Date Extracted: 07/15/13
Date Analyzed: 07/16/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
CMW-1-0713 307152-01	<0.0015
CMW-4-0713 307152-02	0.0018
SLR-7-0713 307152-03	<0.0015
EMW-3S-0713 307152-04	<0.0015
EMW-4D-0713 307152-05	<0.0015
EMW-13S-0713 307152-06	<0.0015
EMW-14D-0713 307152-07	<0.0015
EMW-15D-0713 307152-08	<0.0015
EMW-16D-0713 307152-09	<0.0015
Method Blank	<0.0015

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Ave Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307152
Date Extracted: NA
Date Analyzed: 07/18/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
CMW-1-0713 307152-01	<10
CMW-4-0713 307152-02	13
SLR-7-0713 307152-03	<10
EMW-3S-0713 307152-04	11
EMW-4D-0713 307152-05	38
EMW-13S-0713 307152-06	<10
EMW-14D-0713 307152-07	20
EMW-15D-0713 307152-08	16
EMW-16D-0713 307152-09	28
Method Blank	<10

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Ave Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307152

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 307152-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	96	69-134

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Ave Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307152

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	500	75	87	58-134	15

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Ave Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307152

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 307166-09 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	110	55-144
Chloromethane	ug/L (ppb)	50	<0.22	98	67-131
Vinyl chloride	ug/L (ppb)	50	<0.13	102	61-139
Bromomethane	ug/L (ppb)	50	<0.2	883 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	166 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	129 vo	71-128
Acetone	ug/L (ppb)	250	<2.6	98	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	103	71-123
Methylene chloride	ug/L (ppb)	50	<3	101	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	99	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	98	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	98	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	110	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	100	73-119
Chloroform	ug/L (ppb)	50	<0.24	93	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	101	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	96	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	104	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	100	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	112	72-123
Benzene	ug/L (ppb)	50	<0.13	95	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	97	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	101	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	113	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	104	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	113	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	112	76-120
Toluene	ug/L (ppb)	50	<0.13	95	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	102	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	104	81-111
2-Hexanone	ug/L (ppb)	250	<1	111	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	100	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	92	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	113	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	107	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	93	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	96	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	110	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	97	63-128
o-Xylene	ug/L (ppb)	50	<0.22	97	64-129
Styrene	ug/L (ppb)	50	<0.22	101	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	97	76-118
Bromoform	ug/L (ppb)	50	<0.22	115	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	98	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	97	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	100	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	104	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	101	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	94	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	97	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	97	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	98	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	96	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	96	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	93	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	91	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	91	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	109	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	85	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	80	67-120
Naphthalene	ug/L (ppb)	50	<0.28	97	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	97	79-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	110	108	54-149	2
Chloromethane	ug/L (ppb)	50	100	97	67-133	3
Vinyl chloride	ug/L (ppb)	50	103	100	73-132	3
Bromomethane	ug/L (ppb)	50	1040 vo	998 vo	69-123	4
Chloroethane	ug/L (ppb)	50	168 vo	166 vo	68-126	1
Trichlorofluoromethane	ug/L (ppb)	50	129	126	70-132	2
Acetone	ug/L (ppb)	250	100	98	44-145	2
1,1-Dichloroethene	ug/L (ppb)	50	105	104	75-119	1
Methylene chloride	ug/L (ppb)	50	103	102	63-132	1
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	103	102	70-122	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	99	99	76-118	0
1,1-Dichloroethane	ug/L (ppb)	50	100	99	80-116	1
2,2-Dichloropropane	ug/L (ppb)	50	118	118	62-141	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	101	101	81-111	0
Chloroform	ug/L (ppb)	50	94	93	81-109	1
2-Butanone (MEK)	ug/L (ppb)	250	102	99	53-140	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	98	96	79-109	2
1,1,1-Trichloroethane	ug/L (ppb)	50	108	107	80-116	1
1,1-Dichloropropene	ug/L (ppb)	50	101	99	78-112	2
Carbon tetrachloride	ug/L (ppb)	50	120	118	72-128	2
Benzene	ug/L (ppb)	50	96	95	81-108	1
Trichloroethene	ug/L (ppb)	50	96	96	77-108	0
1,2-Dichloropropane	ug/L (ppb)	50	104	103	82-109	1
Bromodichloromethane	ug/L (ppb)	50	118	116	76-120	2
Dibromomethane	ug/L (ppb)	50	104	103	80-110	1
4-Methyl-2-pentanone	ug/L (ppb)	250	114	114	59-142	0
cis-1,3-Dichloropropene	ug/L (ppb)	50	118	118	76-128	0
Toluene	ug/L (ppb)	50	95	95	83-108	0
trans-1,3-Dichloropropene	ug/L (ppb)	50	110	109	76-128	1
1,1,2-Trichloroethane	ug/L (ppb)	50	104	104	82-110	0
2-Hexanone	ug/L (ppb)	250	110	109	53-145	1
1,3-Dichloropropane	ug/L (ppb)	50	100	100	83-110	0
Tetrachloroethene	ug/L (ppb)	50	92	90	78-109	2
Dibromochloromethane	ug/L (ppb)	50	117	115	63-140	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	109	109	85-113	0
Chlorobenzene	ug/L (ppb)	50	93	92	84-108	1
Ethylbenzene	ug/L (ppb)	50	97	96	84-110	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	115	114	76-125	1
m,p-Xylene	ug/L (ppb)	100	97	96	84-112	1
o-Xylene	ug/L (ppb)	50	97	97	82-113	0
Styrene	ug/L (ppb)	50	100	100	84-116	0
Isopropylbenzene	ug/L (ppb)	50	97	97	81-122	0
Bromoform	ug/L (ppb)	50	124	122	40-161	2
n-Propylbenzene	ug/L (ppb)	50	98	99	81-115	1
Bromobenzene	ug/L (ppb)	50	95	97	80-113	2
1,3,5-Trimethylbenzene	ug/L (ppb)	50	99	100	83-117	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	105	106	79-118	1
1,2,3-Trichloropropane	ug/L (ppb)	50	100	101	74-116	1
2-Chlorotoluene	ug/L (ppb)	50	94	95	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	97	98	81-113	1
tert-Butylbenzene	ug/L (ppb)	50	97	98	81-119	1
1,2,4-Trimethylbenzene	ug/L (ppb)	50	97	98	83-116	1
sec-Butylbenzene	ug/L (ppb)	50	97	97	83-116	0
p-Isopropyltoluene	ug/L (ppb)	50	96	97	82-119	1
1,3-Dichlorobenzene	ug/L (ppb)	50	92	93	83-111	1
1,4-Dichlorobenzene	ug/L (ppb)	50	91	92	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	91	91	83-111	0
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	115	117	62-133	2
1,2,4-Trichlorobenzene	ug/L (ppb)	50	86	87	77-117	1
Hexachlorobutadiene	ug/L (ppb)	50	79	81	74-118	2
Naphthalene	ug/L (ppb)	50	98	100	75-131	2
1,2,3-Trichlorobenzene	ug/L (ppb)	50	97	100	82-115	3

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	10	39	34	18-52	14
Bis(2-chloroethyl) ether	ug/L (ppb)	10	89	79	52-113	12
2-Chlorophenol	ug/L (ppb)	10	89	78	50-110	13
1,3-Dichlorobenzene	ug/L (ppb)	10	91	76	45-109	18
1,4-Dichlorobenzene	ug/L (ppb)	10	94	77	44-118	20
1,2-Dichlorobenzene	ug/L (ppb)	10	93	76	46-116	20
Benzyl alcohol	ug/L (ppb)	10	89	73	42-100	20
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	90	77	51-124	16
2-Methylphenol	ug/L (ppb)	10	73	70	38-100	4
Hexachloroethane	ug/L (ppb)	10	94	77	42-117	20
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	91	78	48-124	15
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	72	64	48-87	12
Nitrobenzene	ug/L (ppb)	10	95	84	50-118	12
Isophorone	ug/L (ppb)	10	99	86	55-116	14
2-Nitrophenol	ug/L (ppb)	10	115	104	42-127	10
2,4-Dimethylphenol	ug/L (ppb)	10	41 vo	85	45-100	70 vo
Benzoic acid	ug/L (ppb)	65	57 vo	49 vo	10-46	15
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	96	86	55-115	11
2,4-Dichlorophenol	ug/L (ppb)	10	103	92	55-113	11
1,2,4-Trichlorobenzene	ug/L (ppb)	10	95	83	50-109	13
Hexachlorobutadiene	ug/L (ppb)	10	95	83	50-109	13
4-Chloroaniline	ug/L (ppb)	20	91	14 vo	30-109	147 vo
4-Chloro-3-methylphenol	ug/L (ppb)	10	104	88	54-114	17
2-Methylnaphthalene	ug/L (ppb)	10	100	85	53-113	16
Hexachlorocyclopentadiene	ug/L (ppb)	10	83	64	26-94	26 vo
2,4,6-Trichlorophenol	ug/L (ppb)	10	105	96	46-114	9
2,4,5-Trichlorophenol	ug/L (ppb)	10	107	98	57-122	9
2-Chloronaphthalene	ug/L (ppb)	10	98	89	52-112	10
2-Nitroaniline	ug/L (ppb)	10	113	100	47-128	12
Dimethyl phthalate	ug/L (ppb)	10	110	99	55-116	11
2,6-Dinitrotoluene	ug/L (ppb)	10	117	107	49-126	9
3-Nitroaniline	ug/L (ppb)	20	114	68	21-125	51 vo
2,4-Dinitrophenol	ug/L (ppb)	10	160 vo	144 vo	29-130	11
Dibenzofuran	ug/L (ppb)	10	101	92	53-113	9
2,4-Dinitrotoluene	ug/L (ppb)	10	111	99	48-129	11
4-Nitrophenol	ug/L (ppb)	10	50	41	12-59	20
Diethyl phthalate	ug/L (ppb)	10	106	95	55-116	11
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	103	93	52-115	10
N-Nitrosodiphenylamine	ug/L (ppb)	10	101	87	51-112	15
4-Nitroaniline	ug/L (ppb)	20	108	79	42-115	31 vo
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	130 vo	120	40-128	8
4-Bromophenyl phenyl ether	ug/L (ppb)	10	105	98	53-114	7
Hexachlorobenzene	ug/L (ppb)	10	103	95	54-115	8
Pentachlorophenol	ug/L (ppb)	10	108	104	49-114	4
Carbazole	ug/L (ppb)	10	101	91	54-115	10
Di-n-butyl phthalate	ug/L (ppb)	10	110	102	54-115	8
Benzyl butyl phthalate	ug/L (ppb)	10	119	108	53-122	10
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	112	95	54-122	16
Di-n-octyl phthalate	ug/L (ppb)	10	108	103	50-131	5

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	83	87	67-116	5
Acenaphthylene	ug/L (ppb)	1	96	101	65-119	5
Acenaphthene	ug/L (ppb)	1	94	100	66-118	6
Fluorene	ug/L (ppb)	1	98	103	64-125	5
Phenanthrene	ug/L (ppb)	1	92	96	67-120	4
Anthracene	ug/L (ppb)	1	94	97	65-122	3
Fluoranthene	ug/L (ppb)	1	98	93	65-127	5
Pyrene	ug/L (ppb)	1	96	103	62-130	7
Benz(a)anthracene	ug/L (ppb)	1	91	93	60-118	2
Chrysene	ug/L (ppb)	1	95	100	66-125	5
Benzo(b)fluoranthene	ug/L (ppb)	1	86	90	55-135	5
Benzo(k)fluoranthene	ug/L (ppb)	1	84	87	62-125	4
Benzo(a)pyrene	ug/L (ppb)	1	81	83	58-127	2
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	76	79	36-142	4
Dibenz(a,h)anthracene	ug/L (ppb)	1	71	73	37-133	3
Benzo(g,h,i)perylene	ug/L (ppb)	1	77	77	34-135	0

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.625	99	96	70-130	3
Aroclor 1260	ug/L (ppb)	0.625	92	104	70-130	10

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 307179-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.098	102	118	67-145	15
Chromium	ug/L (ppb)	20	2.19	93	110	64-132	17
Nickel	ug/L (ppb)	20	4.59	88 b	107 b	61-128	19 b
Copper	ug/L (ppb)	20	1.60	89	106	63-124	17
Zinc	ug/L (ppb)	50	7.69	88	106	55-141	19
Arsenic	ug/L (ppb)	10	3.38	92 b	117 b	60-150	24 b
Selenium	ug/L (ppb)	5	<0.56	98	114	43-178	15
Silver	ug/L (ppb)	5	<0.064	89	106	71-115	17
Cadmium	ug/L (ppb)	5	<0.25 j	90	107	83-116	17
Antimony	ug/L (ppb)	20	0.152	68	82	62-125	19
Barium	ug/L (ppb)	50	18.1	89 b	112 b	79-126	23 b
Thallium	ug/L (ppb)	5	0.107	90	104	73-119	14
Lead	ug/L (ppb)	10	0.380	89	103	79-121	15

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	106	73-135
Chromium	ug/L (ppb)	20	101	80-119
Nickel	ug/L (ppb)	20	96	79-122
Copper	ug/L (ppb)	20	98	81-119
Zinc	ug/L (ppb)	50	93	76-124
Arsenic	ug/L (ppb)	10	90	80-111
Selenium	ug/L (ppb)	5	97	81-119
Silver	ug/L (ppb)	5	98	80-116
Cadmium	ug/L (ppb)	5	96	83-113
Antimony	ug/L (ppb)	20	89	79-108
Barium	ug/L (ppb)	50	96	83-117
Thallium	ug/L (ppb)	5	97	78-116
Lead	ug/L (ppb)	10	99	83-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 307179-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.098	104	116	67-145	11
Chromium	ug/L (ppb)	20	0.271	97	108	64-132	11
Nickel	ug/L (ppb)	20	2.04	91	103	61-128	12
Copper	ug/L (ppb)	20	<0.34	90	99	63-124	10
Zinc	ug/L (ppb)	50	2.91	90	101	55-141	12
Arsenic	ug/L (ppb)	10	3.25	99 b	111 b	60-150	11 b
Selenium	ug/L (ppb)	5	<0.56	99	110	43-178	11
Silver	ug/L (ppb)	5	<0.064	94	103	71-115	9
Cadmium	ug/L (ppb)	5	<0.25 j	95	103	83-116	8
Antimony	ug/L (ppb)	20	0.471	89	101	62-125	13
Barium	ug/L (ppb)	50	12.8	95 b	107 b	79-126	12 b
Thallium	ug/L (ppb)	5	<0.074	94	104	73-119	10
Lead	ug/L (ppb)	10	<0.144	93	105	79-121	12

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	99	73-135
Chromium	ug/L (ppb)	20	98	80-119
Nickel	ug/L (ppb)	20	99	79-122
Copper	ug/L (ppb)	20	99	81-119
Zinc	ug/L (ppb)	50	94	76-124
Arsenic	ug/L (ppb)	10	91	80-111
Selenium	ug/L (ppb)	5	95	81-119
Silver	ug/L (ppb)	5	98	80-116
Cadmium	ug/L (ppb)	5	95	83-113
Antimony	ug/L (ppb)	20	89	79-108
Barium	ug/L (ppb)	50	97	83-117
Thallium	ug/L (ppb)	5	94	78-116
Lead	ug/L (ppb)	10	94	83-115

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QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 307152-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	<0.0015	100	98	63-132	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	98	78-118

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Ave Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307152

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: 307152-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	<0.0015	96	95	63-132	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	100	78-118

Date of Report: 08/13/13
Date Received: 07/11/13
Project: 8th Ave Terminals, Inc. Crowley RI-FS 101.00205.00030, F&BI 307152

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 307152-09 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	28	32	13	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
TSS	mg/L	50	104	61-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

July 29, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 307152
ARI Job No.: WX44

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted nine water samples on July 15, 2013, under ARI job WX44. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile WX44

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

W449

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To ~~Michael Erdahl~~ Michele Poquiz

Company Friedman and Bruya, Inc.

Address 3012 16th Ave W

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

SUBCONTRACTER ARI (Tukwila)

PROJECT NAME/NO. 307152

PO # C-451

REMARKS Please provide EIM

Please Email Results mpoquiz@friedmanandbruya.com.

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	Dioxins and Furans by 8290	EPH	VPH	Nitrate	Sulfate	Alkalinity	TDS by 2540C	Chloride by SM4500			Notes
CMW-1-0713		7/11/13	1319	water	2							X	X			
CMW-4-0713			1303									X	X			
SLR-7-0713			1136									X	X			
EMW-3S-0713			1152									X	X			
EMW-4D-0713			1433									X	X			
EMW-13S-0713			1339									X	X			
EMW-14D-0713			1447									X	X			
EMW-15D-0713			1503		1							X	X			
EMW-16D-0713		↓	1228	↓	↓							X	X			

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Michael Erdahl	Friedman & Bruya	7/12/13	11:40
Received by:		Rick Huber	ARI	7/12/13	1720
Relinquished by:					
Received by:					

Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Friedman & Bruya

Project Name: 307152

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other _____

Assigned ARI Job No.: WX44

Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	NO AV
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO
Temperature of Cooler(s) (°C) (recommended 2 0-6 0 °C for chemistry)		5.6

If cooler temperature is out of compliance fill out form 00070F — Temp Gun ID#: 90327952

Cooler Accepted by: _____ Date: 7/12/13 Time: 1720

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used?	Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:		
Was sufficient ice used (if appropriate)?	NA	YES	NO
Were all bottles sealed in individual plastic bags?		YES	NO
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA		

Was Sample Split by ARI: (NA) YES Date/Time _____ Equipment: _____ Split by: _____

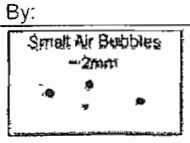
Samples Logged by: AV Date: 7/15/13 Time: 1145

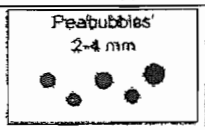
***** Notify Project Manager of discrepancies or concerns *****

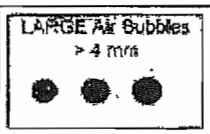
Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:







Small → "sm"

Peabubbles → "pb"

Large → "lg"

Headspace → "hs"

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WX44
Client: Friedman and Bruya, Inc
Project Event: 307152
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	CMW-1-0713	WX44A	13-14813	Water	07/11/13 13:19	07/15/13 17:20
2.	CMW-4-0713	WX44B	13-14814	Water	07/11/13 13:03	07/15/13 17:20
3.	SLR-7-0713	WX44C	13-14815	Water	07/11/13 11:36	07/15/13 17:20
4.	EMW-3S-0713	WX44D	13-14816	Water	07/11/13 11:52	07/15/13 17:20
5.	EMW-4D-0713	WX44E	13-14817	Water	07/11/13 14:33	07/15/13 17:20
6.	EMW-13S-0713	WX44F	13-14818	Water	07/11/13 13:39	07/15/13 17:20
7.	EMW-14D-0713	WX44G	13-14819	Water	07/11/13 14:47	07/15/13 17:20
8.	EMW-15D-0713	WX44H	13-14820	Water	07/11/13 15:03	07/15/13 17:20
9.	EMW-16D-0713	WX44I	13-14821	Water	07/11/13 12:28	07/15/13 17:20

SAMPLE RESULTS-CONVENTIONALS
WX44-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307152
Date Sampled: 07/11/13
Date Received: 07/15/13

Client ID: CMW-1-0713
ARI ID: 13-14813 WX44A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	200	11,100
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	1,000	5,810

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX44-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307152
Date Sampled: 07/11/13
Date Received: 07/15/13

Client ID: CMW-4-0713
ARI ID: 13-14814 WX44B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	100	5,750
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	500	3,020

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX44-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307152
Date Sampled: 07/11/13
Date Received: 07/15/13

Client ID: SLR-7-0713
ARI ID: 13-14815 WX44C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	5.0	262
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	1.0	7.1

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX44-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307152
Date Sampled: 07/11/13
Date Received: 07/15/13

Client ID: EMW-3S-0713
ARI ID: 13-14816 WX44D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	100	5,540
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	500	3,200

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX44-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307152
Date Sampled: 07/11/13
Date Received: 07/15/13

Client ID: EMW-4D-0713
ARI ID: 13-14817 WX44E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	100	5,500
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	500	3,230

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX44-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307152
Date Sampled: 07/11/13
Date Received: 07/15/13

Client ID: EMW-13S-0713
ARI ID: 13-14818 WX44F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	200	7,980
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	500	4,040

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX44-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307152
Date Sampled: 07/11/13
Date Received: 07/15/13

Client ID: EMW-14D-0713
ARI ID: 13-14819 WX44G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	100	3,590
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	500	1,950

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX44-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307152
Date Sampled: 07/11/13
Date Received: 07/15/13

Client ID: EMW-15D-0713
ARI ID: 13-14820 WX44H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	100	6,090
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	500	3,340

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX44-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307152
Date Sampled: 07/11/13
Date Received: 07/15/13

Client ID: EMW-16D-0713
ARI ID: 13-14821 WX44I

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	200	18,200
Chloride	07/15/13 071513#1	SM4500-CLE	mg/L	2,000	10,500

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
WX44-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307152
Date Sampled: 07/11/13
Date Received: 07/15/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: WX44A Client ID: CMW-1-0713						
Total Dissolved Solids	SM2540C	07/16/13	mg/L	11,100	10,800	2.7%

LAB CONTROL RESULTS-CONVENTIONALS
WX44-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307152
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	07/16/13	mg/L	503	500	100.6%

130711 · 00645

METHOD BLANK RESULTS-CONVENTIONALS
WX44-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307152
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	07/16/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	07/15/13	mg/L	< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
WX44-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307152
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	07/15/13	mg/L	5.0	5.0	100.0%

307152

SAMPLE CHAIN OF CUSTODY

KJ JK 7/11/13 V5/BI4/E03

Send Report To MIKE STATON

Company SLR INTERNATIONAL CORPORATION

Address 22118 20TH AVE SE, G-202

City, State, ZIP BOTHELL, WA 98021

Phone #(425)402-8800 Fax #(425) 402-8898

SAMPLERS *(signature)*

PROJECT NAME/NO.: 8TH AVE TERMINALS, INC. CROWLEY RI-FS 101.00205.00030

PO#: 101.00205.00030

REMARKS: NA-TIO-Dx FOR ORO & HO AFTER SILICA GEL CLEANUP

Page # _____ of _____

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH _____
- Rush charges authorized by _____

SAMPLE DISPOSAL
- [ ] Dispose after 30 days
- [ ] Return samples
- [x] Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Total Metals (Sb, As, Ba, Be, Cd, Cr, Pb, Ni, Se, Ag, Tl, V, Zn) by 6020 & 7471	Total Mercury by 1631E	Dissolved metals (Sb, As, Ba, Be, Cd, Cr, Pb, Ni, Se, Ag, Tl, V, Zn) by 6020 & 7470	Dissolved Mercury by 1631E	PCBs by 8082A	PAHs by 8270D-SIM	TSS by 2540D	TDS by 2540C	Chloride by SM4500
CMW-1-0713	01A-B	7/11/13	1319	WATER	18	X	X		X	X		X	X	X	X	X	X	X	X	X
CMW-4-0713	02		1303																	
SLR-7-0713	03		1136																	
EMW-3S-0713	04		1152																	
EMW-4D-0713	05		1433																	
EMW-13S-0713	06		1339																	
EMW-14D-0713	07		1447																	
EMW-15D-0713	08		1503																	
EMW-16D-0713	09		1228																	
TB-071113	10 A-B		1620		2															

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		CHRIS LEE	SLR	7/11/13	4:40 PM
Received by:		VINH	FBI	7/11/13	4:40 PM
Relinquished by:					
Received by:					

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 13, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on July 12, 2013 from the Crowley RIFS 101.00205.00030, F&BI 307177 project. There are 63 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0813R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on July 12, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley RIFS 101.00205.00030, F&BI 307177 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
307177-01	EMW-2S-0713
307177-02	CMW-2-0713
307177-03	CMW-3-0713
307177-04	CMW-5-0713
307177-05	EMW-12S-0713
307177-06	CMW-7-0713

Total Petroleum Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The calibration result for bromomethane fell outside of acceptance criteria. The values reported are estimates.

The presence of methylene chloride in the samples EMW-12S-0713 is likely due to laboratory contamination. The results have been flagged accordingly.

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for bromomethane and chloroethane. The compounds were not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The presence of bis(2-ethylhexyl) phthalate in the samples and method blank is likely due to laboratory contamination. The results have been flagged accordingly.

The presence of diethyl phthalate in the CMW-3-0713, CMW-5-0713, and EMW-12S-0713 is likely due to laboratory contamination. The results have been flagged accordingly.

The calibration result for 4-nitrophenol fell outside of acceptance criteria. The values reported are estimates.

The percent recovery for the LCS and LCSD fell outside of control limits for 2,4-dimethylphenol. In addition, the relative percent difference (RPD) for the LCS/LCSD fell outside of control limits for 2,4-dinitrophenol. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM
All quality control requirements were acceptable.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
All quality control requirements were acceptable.

Total Metals by EPA Method 200.8
All quality control requirements were acceptable.

Dissolved Metals by EPA Method 200.8
The internal standard associated with several analytes exceeded acceptance criteria for the sample CMW-3-0713. The sample was diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E
The detection limit has been raised due to trace level laboratory contamination.

Dissolved Mercury by EPA Method 1631E
The detection limit has been raised due to trace level laboratory contamination.

Total Dissolved Solids by Method 2540C
The samples were sent to Analytical Resources, Inc. (ARI) for total dissolved solids analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500
The samples were sent to ARI for chloride analysis. The report generated by ARI is enclosed.

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177
Date Extracted: 07/16/13
Date Analyzed: 07/16/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
EMW-2S-0713 307177-01	43	89
CMW-2-0713 307177-02	<12	90
CMW-3-0713 307177-03	<12	90
CMW-5-0713 307177-04	<12	87
EMW-12S-0713 307177-05	<12	87
CMW-7-0713 307177-06	<12	90
Method Blank 03-1397 MB	<12	89

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177
Date Extracted: 07/15/13
Date Analyzed: 07/18/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 51-134)
EMW-2S-0713 307177-01	<6.9	<52	110
CMW-2-0713 307177-02	<6.9	<52	95
CMW-3-0713 307177-03	<6.9	<52	108
CMW-5-0713 307177-04	<6.9	<52	103
EMW-12S-0713 307177-05	<6.9	<52	96
CMW-7-0713 307177-06	<6.9	<52	116
Method Blank 03-1389 MB	<6.9	<52	132

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-2S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-01
Date Analyzed:	07/16/13	Data File:	071612.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	0.67	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	0.91	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	0.26	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-2-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-02
Date Analyzed:	07/16/13	Data File:	071613.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-03
Date Analyzed:	07/16/13	Data File:	071614.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-5-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-04
Date Analyzed:	07/16/13	Data File:	071615.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	0.24	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-12S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-05
Date Analyzed:	07/16/13	Data File:	071616.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	4.0 lc	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-7-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-06
Date Analyzed:	07/16/13	Data File:	071617.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	03-1316 mb
Date Analyzed:	07/16/13	Data File:	071607.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-2S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-01
Date Analyzed:	07/17/13	Data File:	071720.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	45	32	162
Phenol-d6	27	10	170
Nitrobenzene-d5	93	50	150
2-Fluorobiphenyl	93	43	158
2,4,6-Tribromophenol	103	43	146
Terphenyl-d14	97	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3 ca
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.42 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-2-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-02
Date Analyzed:	07/17/13	Data File:	071721.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	41	32	162
Phenol-d6	25	10	170
Nitrobenzene-d5	80	50	150
2-Fluorobiphenyl	88	43	158
2,4,6-Tribromophenol	70	43	146
Terphenyl-d14	96	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3 ca
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.59 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-03
Date Analyzed:	07/17/13	Data File:	071722.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	45	32	162
Phenol-d6	29	10	170
Nitrobenzene-d5	80	50	150
2-Fluorobiphenyl	88	43	158
2,4,6-Tribromophenol	106	43	146
Terphenyl-d14	102	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3 ca
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	0.075 lc
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	1.1 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-5-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-04
Date Analyzed:	07/17/13	Data File:	071723.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	51	32	162
Phenol-d6	29	10	170
Nitrobenzene-d5	86	50	150
2-Fluorobiphenyl	92	43	158
2,4,6-Tribromophenol	92	43	146
Terphenyl-d14	99	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.36	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3 ca
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.48 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-12S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-05
Date Analyzed:	07/17/13	Data File:	071724.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	38	32	162
Phenol-d6	22	10	170
Nitrobenzene-d5	75	50	150
2-Fluorobiphenyl	78	43	158
2,4,6-Tribromophenol	103	43	146
Terphenyl-d14	97	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.21	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3 ca
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.45 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-7-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-06
Date Analyzed:	07/17/13	Data File:	071725.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	32	162
Phenol-d6	25	10	170
Nitrobenzene-d5	85	50	150
2-Fluorobiphenyl	85	43	158
2,4,6-Tribromophenol	109	43	146
Terphenyl-d14	104	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3 ca
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.51 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	03-1379 mb
Date Analyzed:	07/18/13	Data File:	071807A.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	35	32	162
Phenol-d6	29	10	170
Nitrobenzene-d5	87	50	150
2-Fluorobiphenyl	91	43	158
2,4,6-Tribromophenol	59 ca	43	146
Terphenyl-d14	96	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.068	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.4	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.30 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-2S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-01
Date Analyzed:	07/17/13	Data File:	071714.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	82	50	150
Benzo(a)anthracene-d12	86	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.011
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0030
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-2-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-02
Date Analyzed:	07/17/13	Data File:	071715.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	87	50	150
Benzo(a)anthracene-d12	87	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	0.0058
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-03
Date Analyzed:	07/17/13	Data File:	071716.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	87	50	150
Benzo(a)anthracene-d12	90	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0047
Acenaphthylene	<0.0024
Acenaphthene	0.0085
Fluorene	0.0044
Phenanthrene	0.026
Anthracene	0.0085
Fluoranthene	0.038
Pyrene	0.032
Benz(a)anthracene	0.011
Chrysene	0.016
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	0.014
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	0.0074
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	0.0089

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-5-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-04
Date Analyzed:	07/17/13	Data File:	071722.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	85	50	150
Benzo(a)anthracene-d12	96	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0082
Acenaphthylene	<0.0024
Acenaphthene	0.029
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0098
Fluoranthene	0.0056
Pyrene	0.0098
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-12S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-05
Date Analyzed:	07/17/13	Data File:	071723.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	89	50	150
Benzo(a)anthracene-d12	97	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	0.013
Anthracene	0.0032
Fluoranthene	0.017
Pyrene	0.017
Benz(a)anthracene	0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-7-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	307177-06
Date Analyzed:	07/17/13	Data File:	071724.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	89	50	150
Benzo(a)anthracene-d12	98	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0041
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	0.010
Anthracene	0.0035
Fluoranthene	0.0078
Pyrene	0.0085
Benz(a)anthracene	0.0048
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	03-1378 mb2
Date Analyzed:	07/16/13	Data File:	071608.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	88	50	150
Benzo(a)anthracene-d12	95	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-2S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307177-01 1/0.25
Date Analyzed:	07/24/13	Data File:	50.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	96	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	CMW-2-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307177-02 1/0.25
Date Analyzed:	07/24/13	Data File:	52.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	CMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307177-03 1/0.25
Date Analyzed:	07/24/13	Data File:	54.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	CMW-5-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307177-04 1/0.25
Date Analyzed:	07/24/13	Data File:	56.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	73	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-12S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307177-05 1/0.25
Date Analyzed:	07/25/13	Data File:	58.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	CMW-7-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307177-06 1/0.25
Date Analyzed:	07/25/13	Data File:	60.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	03-1391 mb 1/0.25
Date Analyzed:	07/24/13	Data File:	072424.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-2S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307177-01
Date Analyzed:	07/31/13	Data File:	307177-01.042
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	105	60	125
Indium	95	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.667
Nickel	0.959
Copper	0.904
Zinc	1.11
Arsenic	1.47
Selenium	<0.560
Silver	<0.0640
Cadmium	0.562
Antimony	0.401
Barium	8.25
Thallium	<0.0740
Lead	<0.144

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Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-2-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307177-02
Date Analyzed:	07/31/13	Data File:	307177-02.046
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	77	60	125
Indium	71	60	125
Holmium	68	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.45
Nickel	3.15
Copper	18.7
Zinc	3.20
Arsenic	68.6
Selenium	49.5
Silver	<0.0640
Cadmium	<0.250
Antimony	5.42
Barium	122
Thallium	<0.0740
Lead	0.177

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307177-03
Date Analyzed:	07/31/13	Data File:	307177-03.047
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	78	60	125
Indium	72	60	125
Holmium	73	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.993
Nickel	2.21
Copper	12.7
Zinc	3.43
Arsenic	23.6
Selenium	34.1
Silver	<0.0640
Cadmium	<0.250
Antimony	2.43
Barium	58.9
Thallium	<0.0740
Lead	0.317

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-5-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307177-04
Date Analyzed:	07/31/13	Data File:	307177-04.048
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	120	60	125
Indium	94	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.47
Nickel	1.63
Copper	0.873
Zinc	1.29
Arsenic	68.7
Selenium	2.41
Silver	<0.0640
Cadmium	<0.250
Antimony	0.257
Barium	25.6
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-12S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307177-05
Date Analyzed:	07/31/13	Data File:	307177-05.049
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	96	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.206
Nickel	3.09
Copper	1.32
Zinc	2.05
Arsenic	0.323
Selenium	0.742
Silver	<0.0640
Cadmium	<0.250
Antimony	0.510
Barium	8.84
Thallium	<0.0740
Lead	0.432

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-7-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307177-06
Date Analyzed:	07/31/13	Data File:	307177-06.050
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	87	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.497
Nickel	1.98
Copper	3.85
Zinc	0.939
Arsenic	2.31
Selenium	6.33
Silver	<0.0640
Cadmium	<0.250
Antimony	0.315
Barium	13.9
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	I3-449 mb
Date Analyzed:	07/31/13	Data File:	I3-449 mb.080
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	84	60	125
Holmium	83	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.610
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	<0.0520 j
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-2S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307177-01
Date Analyzed:	07/29/13	Data File:	307177-01.041
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	84	60	125
Holmium	86	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.559
Nickel	1.08
Copper	0.692
Zinc	<0.610
Arsenic	1.47
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	0.0680
Barium	7.19
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-2-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307177-02
Date Analyzed:	07/29/13	Data File:	307177-02.042
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	65	60	125
Indium	65	60	125
Holmium	63	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.56
Nickel	6.33
Copper	21.5
Zinc	4.25
Arsenic	48.2
Selenium	55.1
Silver	<0.0640
Cadmium	<0.250
Antimony	4.40
Barium	116
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307177-03
Date Analyzed:	07/29/13	Data File:	307177-03.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	60	60	125
Indium	58 vo	60	125
Holmium	57 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.0640 J
Cadmium	<0.250 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307177-03 x10
Date Analyzed:	07/29/13	Data File:	307177-03 x10.053
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	84	60	125
Indium	85	60	125
Holmium	87	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	<1.38
Nickel	<4.60
Copper	13.0
Zinc	<6.00
Arsenic	24.1
Selenium	34.1
Silver	<0.640
Cadmium	<2.50
Antimony	2.70
Barium	58.7
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-5-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307177-04
Date Analyzed:	07/29/13	Data File:	307177-04.044
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	75	60	125
Holmium	76	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.65
Nickel	2.21
Copper	0.873
Zinc	<0.610
Arsenic	99.0
Selenium	3.27
Silver	<0.0640
Cadmium	<0.250
Antimony	0.240
Barium	31.3
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-12S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307177-05
Date Analyzed:	07/29/13	Data File:	307177-05.045
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	89	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.220
Nickel	3.30
Copper	1.54
Zinc	0.910
Arsenic	0.315
Selenium	0.780
Silver	<0.0640
Cadmium	<0.250
Antimony	0.512
Barium	8.77
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-7-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307177-06
Date Analyzed:	07/29/13	Data File:	307177-06.046
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	79	60	125
Holmium	83	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.509
Nickel	4.21
Copper	5.12
Zinc	3.21
Arsenic	2.16
Selenium	6.94
Silver	<0.0640
Cadmium	<0.250
Antimony	0.305
Barium	13.5
Thallium	<0.0740
Lead	0.293

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	I3-450 mb
Date Analyzed:	07/29/13	Data File:	I3-450 mb.051
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	88	60	125
Indium	90	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.610
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177
Date Extracted: 07/15/13
Date Analyzed: 07/16/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
EMW-2S-0713 307177-01	<0.0015
CMW-2-0713 307177-02	0.0018
CMW-3-0713 307177-03	0.0026
CMW-5-0713 307177-04	0.0019
EMW-12S-0713 307177-05	<0.0015
CMW-7-0713 307177-06	0.0016
Method Blank	<0.0015

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177
Date Extracted: 07/15/13
Date Analyzed: 07/16/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
EMW-2S-0713 307177-01	<0.0015
CMW-2-0713 307177-02	<0.0015
CMW-3-0713 307177-03	0.0017
CMW-5-0713 307177-04	<0.0015
EMW-12S-0713 307177-05	<0.0015
CMW-7-0713 307177-06	<0.0015
Method Blank	<0.0015

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177
Date Extracted: NA
Date Analyzed: 07/18/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
EMW-2S-0713 307177-01	<10
CMW-2-0713 307177-02	<10
CMW-3-0713 307177-03	<10
CMW-5-0713 307177-04	42.4
EMW-12S-0713 307177-05	<10
CMW-7-0713 307177-06	<10
Method Blank	<10

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 307177-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	93	69-134

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	87	93	58-134	7

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 307176-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	107	55-144
Chloromethane	ug/L (ppb)	50	<0.22	96	67-131
Vinyl chloride	ug/L (ppb)	50	<0.13	100	61-139
Bromomethane	ug/L (ppb)	50	<0.2	983 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	161 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	122	71-128
Acetone	ug/L (ppb)	250	<2.6	103	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	103	71-123
Methylene chloride	ug/L (ppb)	50	<3	100	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	97	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	99	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	98	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	99	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	102	73-119
Chloroform	ug/L (ppb)	50	<0.24	94	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	105	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	97	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	103	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	99	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	112	72-123
Benzene	ug/L (ppb)	50	<0.13	95	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	96	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	102	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	114	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	103	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	119	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	111	76-120
Toluene	ug/L (ppb)	50	<0.13	95	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	99	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	104	81-111
2-Hexanone	ug/L (ppb)	250	<1	115	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	99	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	89	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	110	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	106	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	92	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	95	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	110	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	95	63-128
o-Xylene	ug/L (ppb)	50	<0.22	96	64-129
Styrene	ug/L (ppb)	50	<0.22	100	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	95	76-118
Bromoform	ug/L (ppb)	50	<0.22	114	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	96	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	95	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	98	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	107	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	102	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	94	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	96	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	96	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	96	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	94	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	93	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	91	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	90	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	91	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	112	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	83	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	79	67-120
Naphthalene	ug/L (ppb)	50	<0.28	101	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	97	79-115

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	100	105	54-149	5
Chloromethane	ug/L (ppb)	50	91	95	67-133	4
Vinyl chloride	ug/L (ppb)	50	94	98	73-132	4
Bromomethane	ug/L (ppb)	50	917 vo	956 vo	69-123	4
Chloroethane	ug/L (ppb)	50	158 vo	163 vo	68-126	3
Trichlorofluoromethane	ug/L (ppb)	50	118	123	70-132	4
Acetone	ug/L (ppb)	250	91	93	44-145	2
1,1-Dichloroethene	ug/L (ppb)	50	97	104	75-119	7
Methylene chloride	ug/L (ppb)	50	94	98	63-132	4
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	92	99	70-122	7
trans-1,2-Dichloroethene	ug/L (ppb)	50	91	96	76-118	5
1,1-Dichloroethane	ug/L (ppb)	50	92	98	80-116	6
2,2-Dichloropropane	ug/L (ppb)	50	106	111	62-141	5
cis-1,2-Dichloroethene	ug/L (ppb)	50	93	99	81-111	6
Chloroform	ug/L (ppb)	50	86	92	81-109	7
2-Butanone (MEK)	ug/L (ppb)	250	92	98	53-140	6
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	90	95	79-109	5
1,1,1-Trichloroethane	ug/L (ppb)	50	99	105	80-116	6
1,1-Dichloropropene	ug/L (ppb)	50	93	99	78-112	6
Carbon tetrachloride	ug/L (ppb)	50	109	116	72-128	6
Benzene	ug/L (ppb)	50	88	94	81-108	7
Trichloroethene	ug/L (ppb)	50	90	95	77-108	5
1,2-Dichloropropane	ug/L (ppb)	50	94	102	82-109	8
Bromodichloromethane	ug/L (ppb)	50	106	114	76-120	7
Dibromomethane	ug/L (ppb)	50	97	102	80-110	5
4-Methyl-2-pentanone	ug/L (ppb)	250	104	111	59-142	7
cis-1,3-Dichloropropene	ug/L (ppb)	50	106	114	76-128	7
Toluene	ug/L (ppb)	50	88	94	83-108	7
trans-1,3-Dichloropropene	ug/L (ppb)	50	97	105	76-128	8
1,1,2-Trichloroethane	ug/L (ppb)	50	95	104	82-110	9
2-Hexanone	ug/L (ppb)	250	97	107	53-145	10
1,3-Dichloropropane	ug/L (ppb)	50	92	99	83-110	7
Tetrachloroethene	ug/L (ppb)	50	83	90	78-109	8
Dibromochloromethane	ug/L (ppb)	50	106	113	63-140	6
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	100	107	85-113	7
Chlorobenzene	ug/L (ppb)	50	85	92	84-108	8
Ethylbenzene	ug/L (ppb)	50	88	95	84-110	8
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	105	112	76-125	6
m,p-Xylene	ug/L (ppb)	100	88	95	84-112	8
o-Xylene	ug/L (ppb)	50	90	95	82-113	5
Styrene	ug/L (ppb)	50	92	100	84-116	8
Isopropylbenzene	ug/L (ppb)	50	89	96	81-122	8
Bromoform	ug/L (ppb)	50	110	118	40-161	7
n-Propylbenzene	ug/L (ppb)	50	90	96	81-115	6
Bromobenzene	ug/L (ppb)	50	88	94	80-113	7
1,3,5-Trimethylbenzene	ug/L (ppb)	50	93	98	83-117	5
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	98	105	79-118	7
1,2,3-Trichloropropane	ug/L (ppb)	50	92	99	74-116	7
2-Chlorotoluene	ug/L (ppb)	50	87	92	79-112	6
4-Chlorotoluene	ug/L (ppb)	50	90	97	81-113	7
tert-Butylbenzene	ug/L (ppb)	50	90	95	81-119	5
1,2,4-Trimethylbenzene	ug/L (ppb)	50	90	96	83-116	6
sec-Butylbenzene	ug/L (ppb)	50	89	94	83-116	5
p-Isopropyltoluene	ug/L (ppb)	50	89	94	82-119	5
1,3-Dichlorobenzene	ug/L (ppb)	50	85	92	83-111	8
1,4-Dichlorobenzene	ug/L (ppb)	50	85	90	82-109	6
1,2-Dichlorobenzene	ug/L (ppb)	50	85	89	83-111	5
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	103	110	62-133	7
1,2,4-Trichlorobenzene	ug/L (ppb)	50	80	84	77-117	5
Hexachlorobutadiene	ug/L (ppb)	50	75	78	74-118	4
Naphthalene	ug/L (ppb)	50	91	96	75-131	5
1,2,3-Trichlorobenzene	ug/L (ppb)	50	92	96	82-115	4

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	10	35	39	18-52	11
Bis(2-chloroethyl) ether	ug/L (ppb)	10	80	87	52-113	8
2-Chlorophenol	ug/L (ppb)	10	76	86	50-110	12
1,3-Dichlorobenzene	ug/L (ppb)	10	75	82	45-109	9
1,4-Dichlorobenzene	ug/L (ppb)	10	75	83	44-118	10
1,2-Dichlorobenzene	ug/L (ppb)	10	75	84	46-116	11
Benzyl alcohol	ug/L (ppb)	10	74	84	42-100	13
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	76	87	51-124	13
2-Methylphenol	ug/L (ppb)	10	62	69	38-100	11
Hexachloroethane	ug/L (ppb)	10	75	83	42-117	10
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	80	88	48-124	10
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	62	70	48-87	12
Nitrobenzene	ug/L (ppb)	10	82	89	50-118	8
Isophorone	ug/L (ppb)	10	86	95	55-116	10
2-Nitrophenol	ug/L (ppb)	10	92	105	42-127	13
2,4-Dimethylphenol	ug/L (ppb)	10	29 vo	28 vo	45-100	4
Benzoic acid	ug/L (ppb)	65	41	40	10-46	1
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	82	90	55-115	9
2,4-Dichlorophenol	ug/L (ppb)	10	85	94	55-113	10
1,2,4-Trichlorobenzene	ug/L (ppb)	10	76	83	50-109	9
Hexachlorobutadiene	ug/L (ppb)	10	76	84	50-109	10
4-Chloroaniline	ug/L (ppb)	20	76	80	30-109	5
4-Chloro-3-methylphenol	ug/L (ppb)	10	86	96	54-114	11
2-Methylnaphthalene	ug/L (ppb)	10	79	88	53-113	11
Hexachlorocyclopentadiene	ug/L (ppb)	10	47	40	26-94	16
2,4,6-Trichlorophenol	ug/L (ppb)	10	89	96	46-114	8
2,4,5-Trichlorophenol	ug/L (ppb)	10	92	99	57-122	7
2-Chloronaphthalene	ug/L (ppb)	10	83	90	52-112	8
2-Nitroaniline	ug/L (ppb)	10	97	108	47-128	11
Dimethyl phthalate	ug/L (ppb)	10	91	100	55-116	9
2,6-Dinitrotoluene	ug/L (ppb)	10	97	108	49-126	11
3-Nitroaniline	ug/L (ppb)	20	102	104	21-125	2
2,4-Dinitrophenol	ug/L (ppb)	10	91	113	29-130	22 vo
Dibenzofuran	ug/L (ppb)	10	84	93	53-113	10
2,4-Dinitrotoluene	ug/L (ppb)	10	90	100	48-129	11
4-Nitrophenol	ug/L (ppb)	10	46	48	12-59	4
Diethyl phthalate	ug/L (ppb)	10	87	97	55-116	11
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	85	94	52-115	10
N-Nitrosodiphenylamine	ug/L (ppb)	10	84	92	51-112	9
4-Nitroaniline	ug/L (ppb)	20	99	104	42-115	5
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	95	108	40-128	13
4-Bromophenyl phenyl ether	ug/L (ppb)	10	86	95	53-114	10
Hexachlorobenzene	ug/L (ppb)	10	86	95	54-115	10
Pentachlorophenol	ug/L (ppb)	10	85	95	49-114	11
Carbazole	ug/L (ppb)	10	89	94	54-115	5
Di-n-butyl phthalate	ug/L (ppb)	10	95	103	54-115	8
Benzyl butyl phthalate	ug/L (ppb)	10	98	110	53-122	12
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	112	101	54-122	10
Di-n-octyl phthalate	ug/L (ppb)	10	86	96	50-131	11

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	78	75	67-116	4
Acenaphthylene	ug/L (ppb)	1	94	91	65-119	3
Acenaphthene	ug/L (ppb)	1	90	88	66-118	2
Fluorene	ug/L (ppb)	1	96	95	64-125	1
Phenanthrene	ug/L (ppb)	1	91	93	67-120	2
Anthracene	ug/L (ppb)	1	94	95	65-122	1
Fluoranthene	ug/L (ppb)	1	96	101	65-127	5
Pyrene	ug/L (ppb)	1	97	99	62-130	2
Benz(a)anthracene	ug/L (ppb)	1	92	94	60-118	2
Chrysene	ug/L (ppb)	1	95	97	66-125	2
Benzo(b)fluoranthene	ug/L (ppb)	1	85	90	55-135	6
Benzo(k)fluoranthene	ug/L (ppb)	1	81	81	62-125	0
Benzo(a)pyrene	ug/L (ppb)	1	83	85	58-127	2
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	85	87	36-142	2
Dibenz(a,h)anthracene	ug/L (ppb)	1	82	84	37-133	2
Benzo(g,h,i)perylene	ug/L (ppb)	1	84	85	34-135	1

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.63	97	114	70-130	16
Aroclor 1260	ug/L (ppb)	0.63	102	108	70-130	6

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 307177-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	113	113	67-145	0
Chromium	ug/L (ppb)	20	0.667	90	91	64-132	1
Nickel	ug/L (ppb)	20	0.959	83	84	61-128	1
Copper	ug/L (ppb)	20	0.904	83	84	63-124	1
Zinc	ug/L (ppb)	50	1.11	83	84	55-141	1
Arsenic	ug/L (ppb)	10	1.47	100	104	60-150	4
Selenium	ug/L (ppb)	5	<0.560	100	104	43-178	4
Silver	ug/L (ppb)	5	<0.0640	93	97	71-115	4
Cadmium	ug/L (ppb)	5	0.562	99	102	83-116	3
Antimony	ug/L (ppb)	20	0.401	88	92	62-125	4
Barium	ug/L (ppb)	50	8.25	99	103	79-126	4
Thallium	ug/L (ppb)	5	<0.0740	92	93	73-119	1
Lead	ug/L (ppb)	10	<0.144	93	95	79-121	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	104	73-135
Chromium	ug/L (ppb)	20	86	80-119
Nickel	ug/L (ppb)	20	83	79-122
Copper	ug/L (ppb)	20	85	81-119
Zinc	ug/L (ppb)	50	81	76-124
Arsenic	ug/L (ppb)	10	85	80-111
Selenium	ug/L (ppb)	5	90	81-119
Silver	ug/L (ppb)	5	92	80-116
Cadmium	ug/L (ppb)	5	92	83-113
Antimony	ug/L (ppb)	20	88	79-108
Barium	ug/L (ppb)	50	92	83-117
Thallium	ug/L (ppb)	5	85	78-116
Lead	ug/L (ppb)	10	87	83-115

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 307166-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	106	106	67-145	0
Chromium	ug/L (ppb)	20	0.296	86	88	64-132	2
Nickel	ug/L (ppb)	20	1.65	87	86	61-128	1
Copper	ug/L (ppb)	20	2.53	86	86	63-124	0
Zinc	ug/L (ppb)	50	0.776	87	88	55-141	1
Arsenic	ug/L (ppb)	10	0.232	88	87	60-150	1
Selenium	ug/L (ppb)	5	<0.560	90	88	43-178	2
Silver	ug/L (ppb)	5	<0.0640	83	82	71-115	1
Cadmium	ug/L (ppb)	5	<0.250	87	87	83-116	0
Antimony	ug/L (ppb)	20	0.476	84	85	62-125	1
Barium	ug/L (ppb)	50	20.6	88 b	87 b	79-126	1 b
Thallium	ug/L (ppb)	5	<0.0740	83	85	73-119	2
Lead	ug/L (ppb)	10	<0.144	85	84	79-121	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	98	73-135
Chromium	ug/L (ppb)	20	84	80-119
Nickel	ug/L (ppb)	20	88	79-122
Copper	ug/L (ppb)	20	89	81-119
Zinc	ug/L (ppb)	50	89	76-124
Arsenic	ug/L (ppb)	10	80	80-111
Selenium	ug/L (ppb)	5	88	81-119
Silver	ug/L (ppb)	5	88	80-116
Cadmium	ug/L (ppb)	5	87	83-113
Antimony	ug/L (ppb)	20	83	79-108
Barium	ug/L (ppb)	50	88	83-117
Thallium	ug/L (ppb)	5	83	78-116
Lead	ug/L (ppb)	10	85	83-115

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 307152-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	<0.0015	100	98	63-132	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	98	78-118

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: 307152-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	<0.0015	96	95	63-132	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	100	78-118

Date of Report: 08/13/13
Date Received: 07/12/13
Project: Crowley RIFS 101.00205.00030, F&BI 307177

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 307152-09 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	28	32	13	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
TSS	mg/L	50	104	61-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

July 29, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 307177
ARI Job No.: WX54

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted six water samples on July 15, 2013, under ARI job WX54. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile WX54

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

WX54

SAMPLE CHAIN OF CUSTODY

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.: 307177

PO #: C-466

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

Page # 1 of 1

TURNAROUND TIME
- [X] Standard Turnaround
- [ ] RUSH

Rush charges authorized by:

SAMPLE DISPOSAL
- [ ] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500			Notes
EMW-25-0713		7/12/13	1232	water	2									X	X			
CMW-2-0713			1247											X	X			
CMW-3-0713			1353											X	X			
CMW-5-0713			1342											X	X			
EMW-125-0713			1441											X	X			
CMW-7-0713			1509											X	X			

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Michele Costales Poquiz	Michele Costales Poquiz	F&B	7/15/13	1212 PM
Received by:	Jennifer Millsap	ARI	7/15/13	1500
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client Friedman + Bruya — Project Name 307177

COC No(s) _____ (NA) — Delivered by: Fed-Ex UPS (Courier) Hand Delivered Other _____

Assigned ARI Job No WX54 — Tracking No: _____ (NA)

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) (recommended 2 0-6.0 °C for chemistry). 8.0		

If cooler temperature is out of compliance fill out form 00070F — Temp Gun ID#: 90877752

Cooler Accepted by: JM — Date: 7/15/13 — Time: 1500

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ...	Bubble Wrap Wet Ice (Gel Packs) Baggies Foam Block Paper Other: _____		
Was sufficient ice used (if appropriate)?	NA	YES	(NO)
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs).	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI.....	(NA)		

Was Sample Split by ARI: (NA) YES Date/Time _____ Equipment: _____ Split by: _____

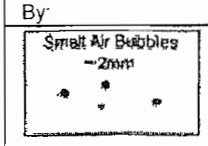
Samples Logged by: AV — Date: 7/15/13 — Time: 1652

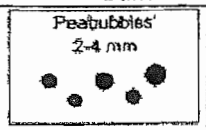
*** Notify Project Manager of discrepancies or concerns ***

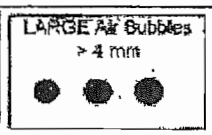
Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:







Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

Incorporated
Analytical Chemists and
Consultants

Cooler Temperature Compliance Form

Cooler#: 1	Temperature(°C): 8.0	
Sample ID	**Bottle Count**	**Bottle Type**
All samples associated with this job were received at a temp greater than 6°C.		

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Cooler#:	Temperature(°C):	
Sample ID	**Bottle Count**	**Bottle Type**

Completed by JM Date: 7/15/13 Time: 1500

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WX54
Client: Friedman and Bruya, Inc
Project Event: 307177
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	EMW-2S-0713	WX54A	13-14881	Water	07/12/13 12:32	07/15/13 15:00
2.	CMW-2-0713	WX54B	13-14882	Water	07/12/13 12:47	07/15/13 15:00
3.	CMW-3-0713	WX54C	13-14883	Water	07/12/13 13:53	07/15/13 15:00
4.	CMW-5-0713	WX54D	13-14884	Water	07/12/13 13:42	07/15/13 15:00
5.	EMW-12S-0713	WX54E	13-14885	Water	07/12/13 14:41	07/15/13 15:00
6.	CMW-7-0713	WX54F	13-14886	Water	07/12/13 15:09	07/15/13 15:00

SAMPLE RESULTS-CONVENTIONALS
WX54-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/25/13

Project: NA
Event: 307177
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: EMW-2S-0713
ARI ID: 13-14881 WX54A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	5.0	210
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	1.0	5.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX54-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/25/13

Project: NA
Event: 307177
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: CMW-2-0713
ARI ID: 13-14882 WX54B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	100	7,250
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	500	4,110

RL Analytical reporting limit
U Undetected at reported detection limit

WX54 · 000647

SAMPLE RESULTS-CONVENTIONALS
WX54-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/25/13

Project: NA
Event: 307177
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: CMW-3-0713
ARI ID: 13-14883 WX54C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	100	4,700
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	500	2,510

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX54-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/25/13

Project: NA
Event: 307177
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: CMW-5-0713
ARI ID: 13-14884 WX54D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	10.0	374
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	5.0	28.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX54-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/25/13

Project: NA
Event: 307177
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: EMW-12S-0713
ARI ID: 13-14885 WX54E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	5.0	217
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	5.0	12.5

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX54-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/25/13

Project: NA
Event: 307177
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: CMW-7-0713
ARI ID: 13-14886 WX54F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	13.3	996
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	100	424

RL Analytical reporting limit
U Undetected at reported detection limit

LYSEN · 00011

REPLICATE RESULTS-CONVENTIONALS
WX54-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/25/13

Project: NA
Event: 307177
Date Sampled: 07/12/13
Date Received: 07/15/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: WX54A Client ID: EMW-2S-0713						
Total Dissolved Solids	SM2540C	07/16/13	mg/L	210	176	17.6%

WX54:00012

LAB CONTROL RESULTS-CONVENTIONALS
WX54-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/25/13

Project: NA
Event: 307177
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	07/16/13	mg/L	487	500	97.4%

METHOD BLANK RESULTS-CONVENTIONALS
WX54-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/25/13

Project: NA
Event: 307177
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	07/16/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	07/16/13	mg/L	< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
WX54-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/25/13

Project: NA
Event: 307177
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	07/16/13	mg/L	5.2	5.0	104.0%

307177

SAMPLE CHAIN OF CUSTODY KJ 07/12/13

BI4/A04/1V4

Page # ____ of ____

Send Report To MIKE STATON
Company SLR International Corp
Address 22118 20th Ave, G202
City, State, ZIP Bothell, WA, 98021
Phone #425-402-8800 Fax #425-402-8498

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley RIFS 1ch 00205.00030

PO#: 101.00205.00030

REMARKS: NWTPH-Dx after silica gel cleanup

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH ____
Rush charges authorized by ____

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☒ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS	Total Priority Pollutant Metals by 200.8	Total Hg by 1631E	Dissolved Priority Pollutant Metals by 200.8	Dissolved Hg by 1631E	PCBs by 8082A	PAHs by 8270D-SIM	NO3 by 300.0	TDS by 160.1	Chloride by SM4500	Notes
CMW-2S-0713	01A-R	7/12/13	1232	WATER	18	X	X		X	X		X	X	X		X	X	X	X	X	
CMW-2-0713	02		1247			X	X		X	X		X	X	X							
CMW-3-0713	03		1353			X	X		X	X		X	X	X							
CMW-5-0713	04		1342			X	X		X	X		X	X	X							
CMW-12S-0713	05		1441			X	X		X	X		X	X	X							
CMW-7-0713	06		1509			X	X		X	X		X	X	X							

Samples received at 3 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengnist	SLR	7/12/13	1546
Received by:	VINH	FBI	7/12/13	1546
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 15, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on July 12, 2013 from the 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166 project. There are 91 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0815R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 12, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
307166-01	SLR-3-0713
307166-02	SLR-6-0713
307166-03	DMW-2-0713
307166-04	DMW-3-0713
307166-05	DMW-6-0713
307166-06	EMW-5S-0713
307166-07	EMW-8S-0713
307166-08	EMW-9S-0713
307166-09	EMW-11S-0713
307166-10	TB-071313A

Total Petroleum Hydrocarbons as Gasoline by Method NWTPH-Gx

The presence of gasoline in the sample DMW-6-0713 may be due to carryover from previous sample injections. The sample has been flagged accordingly.

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The calibration result for bromomethane fell outside of acceptance criteria. The values reported are estimates.

The sample TB-071313A was received with incorrect preservation for vinyl chloride. The result should be considered an estimate.

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for several compounds. The compounds were not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The samples SLR-3-0713, DMW-2-0713, and DMW-3-0713 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The presence of diethyl phthalate in the sample SLR-6-0713 is likely due to laboratory contamination. The results have been flagged accordingly.

The presence of bis(2-ethylhexyl) phthalate in the samples SLR-6-0713, DMW-6-0713, EMW-5S-0713, EMW-8S-0713, EMW-9S-0713, EMW-11S-0713, and the method blank is likely due to laboratory contamination. The results have been flagged accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-8S-0713 and EMW-9S-0713. The sample EMW-9S-0713 was diluted and reanalyzed. The results for the original analysis and the reanalysis are included.

The percent recovery for the LCS and LCSD exceeded acceptance criteria for several compounds. In addition, the relative percent difference (RPD) for the LCS/LCSD exceeded acceptance criteria for several compounds. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM

The samples SLR-3-0713, DMW-2-0713, DMW-3-0713, and DMW-6-0713 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A

All quality control requirements were acceptable.

Total Metals by EPA Method 200.8

The reporting limit for cadmium was raised due to interference.

The internal standard associated with several analytes exceeded acceptance criteria for the samples SLR-3-0713 and DMW-6-0713. These analytes were not reported. The samples were diluted and reanalyzed. The results for the dilution analyses are included.

Dissolved Metals by EPA Method 200.8

The reporting limit for cadmium was raised due to interference.

The internal standard associated with several analytes exceeded acceptance criteria for the samples SLR-3-0713 and DMW-6-0713. These analytes were not reported. The samples were diluted and reanalyzed. The results for the dilution analyses are included.

Total Mercury by EPA Method 1631E

The detection limit has been raised due to trace level laboratory contamination.

Dissolved Mercury by EPA Method 1631E

The detection limit has been raised due to trace level laboratory contamination.

Total Suspended Solids by Method 2540C

All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C

The samples were sent to Analytical Resources, Inc. (ARI) for total dissolved solids analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500

The samples were sent to ARI for chloride analysis. The report generated by ARI is enclosed.

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166
Date Extracted: 07/15/13
Date Analyzed: 07/15/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
SLR-3-0713 307166-01	<12	93
SLR-6-0713 307166-02	<12	86
DMW-2-0713 307166-03	81	89
DMW-3-0713 307166-04	510	93
DMW-6-0713 307166-05	15 c	90
EMW-5S-0713 307166-06	<12	87
EMW-8S-0713 307166-07	<12	90
EMW-9S-0713 307166-08	<12	86
EMW-11S-0713 307166-09	<12	87
Method Blank 03-1352 MB	<12	95

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166
Date Extracted: 07/15/13
Date Analyzed: 07/18/13 and 07/24/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 51-134)
SLR-3-0713 307166-01	8.7 x	<52	86
SLR-6-0713 307166-02	<6.9	<52	108
DMW-2-0713 307166-03	200 x	<52	102
DMW-3-0713 307166-04	3,100 x	<52	ip
DMW-6-0713 307166-05	7.3 x	<52	97
EMW-5S-0713 307166-06	<6.9	<52	112
EMW-8S-0713 307166-07	<6.9	<52	108
EMW-9S-0713 307166-08	<6.9	<52	111
EMW-11S-0713 307166-09	<6.9	<52	112
Method Blank 03-1389 MB	<6.9	<52	132

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SLR-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-01
Date Analyzed:	07/15/13	Data File:	071519.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SLR-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-02
Date Analyzed:	07/15/13	Data File:	071520.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	1.0
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DMW-2-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-03
Date Analyzed:	07/15/13	Data File:	071521.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	0.32
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	0.24
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	0.56
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	33
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-04
Date Analyzed:	07/15/13	Data File:	071522.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	0.47
Acetone	3.7 lc	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	0.42
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	0.72	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	0.34
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	1.6
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	0.21
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	0.14	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	550 ve
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-04 1/10
Date Analyzed:	07/16/13	Data File:	071629.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1.6	1,3-Dichloropropane	<2
Chloromethane	<2.2	Tetrachloroethene	<2.8
Vinyl chloride	<1.3	Dibromochloromethane	<2.4
Bromomethane	<2.0 ca	1,2-Dibromoethane (EDB)	<2.4
Chloroethane	<1.8	Chlorobenzene	<1
Trichlorofluoromethane	<1.7	Ethylbenzene	<1.6
Acetone	<26	1,1,1,2-Tetrachloroethane	<3.2
1,1-Dichloroethene	<1.9	m,p-Xylene	<5
Methylene chloride	<30	o-Xylene	<2.2
Methyl t-butyl ether (MTBE)	<1.3	Styrene	<2.2
trans-1,2-Dichloroethene	<2.4	Isopropylbenzene	<1.5
1,1-Dichloroethane	<1.8	Bromoform	<2.2
2,2-Dichloropropane	<3	n-Propylbenzene	<1.4
cis-1,2-Dichloroethene	<2.4	Bromobenzene	<1.8
Chloroform	<2.4	1,3,5-Trimethylbenzene	<1.8
2-Butanone (MEK)	<9.4 j	1,1,2,2-Tetrachloroethane	<2.4
1,2-Dichloroethane (EDC)	<1.1	1,2,3-Trichloropropane	<2.8
1,1,1-Trichloroethane	<2	2-Chlorotoluene	<1.3
1,1-Dichloropropene	<2.6	4-Chlorotoluene	<1.6
Carbon tetrachloride	<2.4	tert-Butylbenzene	<1.5
Benzene	<1.3	1,2,4-Trimethylbenzene	1.6
Trichloroethene	<1.7	sec-Butylbenzene	<1.2
1,2-Dichloropropane	<3.2	p-Isopropyltoluene	<1.5
Bromodichloromethane	<3.8	1,3-Dichlorobenzene	<1.5
Dibromomethane	<2.8	1,4-Dichlorobenzene	<0.94 j
4-Methyl-2-pentanone	<13	1,2-Dichlorobenzene	<1.3
cis-1,3-Dichloropropene	<2	1,2-Dibromo-3-chloropropane	<4.4
Toluene	<1.3	1,2,4-Trichlorobenzene	<3.4
trans-1,3-Dichloropropene	<3.4	Hexachlorobutadiene	<4.6
1,1,2-Trichloroethane	<2.8	Naphthalene	580
2-Hexanone	<10	1,2,3-Trichlorobenzene	<3.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-05
Date Analyzed:	07/16/13	Data File:	071618.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-5S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-06
Date Analyzed:	07/16/13	Data File:	071619.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	0.29	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-8S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-07
Date Analyzed:	07/16/13	Data File:	071620.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-9S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-08
Date Analyzed:	07/15/13	Data File:	071526.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	0.31	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-11S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-09
Date Analyzed:	07/15/13	Data File:	071527.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-071313A	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-10
Date Analyzed:	07/15/13	Data File:	071508.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	5.3 lc	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	03-1315 mb
Date Analyzed:	07/15/13	Data File:	071507.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94 j	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-01 1/10
Date Analyzed:	07/19/13	Data File:	071913.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	50 ds	32	162
Phenol-d6	31 ds	10	170
Nitrobenzene-d5	76 ds	50	150
2-Fluorobiphenyl	72 ds	43	158
2,4,6-Tribromophenol	87 ds	43	146
Terphenyl-d14	63 ds	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<14	2,4,6-Trichlorophenol	<2.8
Bis(2-chloroethyl) ether	<0.6	2,4,5-Trichlorophenol	<2.2
2-Chlorophenol	<1.6	2-Chloronaphthalene	<0.44
1,3-Dichlorobenzene	<0.34	2-Nitroaniline	<0.86
1,4-Dichlorobenzene	<0.34	Dimethyl phthalate	<0.5
1,2-Dichlorobenzene	<0.24	2,6-Dinitrotoluene	<0.62
Benzyl alcohol	<4	3-Nitroaniline	<4.6
Bis(2-chloroisopropyl) ether	<0.3	2,4-Dinitrophenol	<24
2-Methylphenol	<2.6	Dibenzofuran	<0.34
Hexachloroethane	<0.6	2,4-Dinitrotoluene	<0.56
N-Nitroso-di-n-propylamine	<1.1	4-Nitrophenol	<13
3-Methylphenol + 4-Methylphenol	<4.2	Diethyl phthalate	<0.6
Nitrobenzene	<0.44	4-Chlorophenyl phenyl ether	<0.72
Isophorone	<0.3	N-Nitrosodiphenylamine	<0.5
2-Nitrophenol	<1.7	4-Nitroaniline	<5.6
2,4-Dimethylphenol	<2.8	4,6-Dinitro-2-methylphenol	<3.8
Benzoic acid	<140	4-Bromophenyl phenyl ether	<0.56
Bis(2-chloroethoxy)methane	<0.34	Hexachlorobenzene	<0.5
2,4-Dichlorophenol	<2.6	Pentachlorophenol	<3.2
1,2,4-Trichlorobenzene	<0.5	Carbazole	<0.48
Hexachlorobutadiene	<0.7	Di-n-butyl phthalate	<0.68
4-Chloroaniline	<0.56 jl	Benzyl butyl phthalate	<0.86
4-Chloro-3-methylphenol	<2.4	Bis(2-ethylhexyl) phthalate	<1.7
2-Methylnaphthalene	<0.34	Di-n-octyl phthalate	<0.44
Hexachlorocyclopentadiene	<0.94		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-02
Date Analyzed:	07/19/13	Data File:	071917.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	53	32	162
Phenol-d6	33	10	170
Nitrobenzene-d5	99	50	150
2-Fluorobiphenyl	101	43	158
2,4,6-Tribromophenol	118	43	146
Terphenyl-d14	103	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	0.17 lc
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.82 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	DMW-2-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-03 1/100
Date Analyzed:	07/23/13	Data File:	072304.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	55 ds	32	162
Phenol-d6	40 ds	10	170
Nitrobenzene-d5	99 ds	50	150
2-Fluorobiphenyl	102 ds	43	158
2,4,6-Tribromophenol	87 ds	43	146
Terphenyl-d14	94 ds	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<140	2,4,6-Trichlorophenol	<28
Bis(2-chloroethyl) ether	<6	2,4,5-Trichlorophenol	<22
2-Chlorophenol	<16	2-Chloronaphthalene	<4.4
1,3-Dichlorobenzene	<3.4	2-Nitroaniline	<8.6
1,4-Dichlorobenzene	<3.4	Dimethyl phthalate	<5
1,2-Dichlorobenzene	<2.4	2,6-Dinitrotoluene	<6.2
Benzyl alcohol	<40	3-Nitroaniline	<46
Bis(2-chloroisopropyl) ether	<3	2,4-Dinitrophenol	<240
2-Methylphenol	<26	Dibenzofuran	4.2
Hexachloroethane	<6	2,4-Dinitrotoluene	<5.6
N-Nitroso-di-n-propylamine	<11	4-Nitrophenol	<130
3-Methylphenol + 4-Methylphenol	<42	Diethyl phthalate	<6
Nitrobenzene	<4.4	4-Chlorophenyl phenyl ether	<7.2
Isophorone	<3	N-Nitrosodiphenylamine	<5
2-Nitrophenol	<17	4-Nitroaniline	<56
2,4-Dimethylphenol	<28	4,6-Dinitro-2-methylphenol	<38
Benzoic acid	<1,400	4-Bromophenyl phenyl ether	<5.6
Bis(2-chloroethoxy)methane	<3.4	Hexachlorobenzene	<5
2,4-Dichlorophenol	<26	Pentachlorophenol	<32
1,2,4-Trichlorobenzene	<5	Carbazole	6.0
Hexachlorobutadiene	<7	Di-n-butyl phthalate	<6.8
4-Chloroaniline	<5.6 jl	Benzyl butyl phthalate	<8.6
4-Chloro-3-methylphenol	<24	Bis(2-ethylhexyl) phthalate	<17
2-Methylnaphthalene	36	Di-n-octyl phthalate	<4.4
Hexachlorocyclopentadiene	<9.4		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	DMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-04 1/100
Date Analyzed:	07/19/13	Data File:	071919.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	40 ds	32	162
Phenol-d6	27 ds	10	170
Nitrobenzene-d5	80 ds	50	150
2-Fluorobiphenyl	90 ds	43	158
2,4,6-Tribromophenol	0 ds	43	146
Terphenyl-d14	80 ds	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<140	2,4,6-Trichlorophenol	<28
Bis(2-chloroethyl) ether	<6	2,4,5-Trichlorophenol	<22
2-Chlorophenol	<16	2-Chloronaphthalene	<4.4
1,3-Dichlorobenzene	<3.4	2-Nitroaniline	<8.6
1,4-Dichlorobenzene	<3.4	Dimethyl phthalate	<5
1,2-Dichlorobenzene	<2.4	2,6-Dinitrotoluene	<6.2
Benzyl alcohol	<40	3-Nitroaniline	<46
Bis(2-chloroisopropyl) ether	<3	2,4-Dinitrophenol	<240
2-Methylphenol	<26	Dibenzofuran	94
Hexachloroethane	<6	2,4-Dinitrotoluene	<5.6
N-Nitroso-di-n-propylamine	<11	4-Nitrophenol	<130
3-Methylphenol + 4-Methylphenol	<42	Diethyl phthalate	<6
Nitrobenzene	<4.4	4-Chlorophenyl phenyl ether	<7.2
Isophorone	<3	N-Nitrosodiphenylamine	<5
2-Nitrophenol	<17	4-Nitroaniline	<56
2,4-Dimethylphenol	<28	4,6-Dinitro-2-methylphenol	<38
Benzoic acid	<1,400	4-Bromophenyl phenyl ether	<5.6
Bis(2-chloroethoxy)methane	<3.4	Hexachlorobenzene	<5
2,4-Dichlorophenol	<26	Pentachlorophenol	<32
1,2,4-Trichlorobenzene	<5	Carbazole	58
Hexachlorobutadiene	<7	Di-n-butyl phthalate	<6.8
4-Chloroaniline	<5.6 jl	Benzyl butyl phthalate	<8.6
4-Chloro-3-methylphenol	<24	Bis(2-ethylhexyl) phthalate	<17
2-Methylnaphthalene	170	Di-n-octyl phthalate	<4.4
Hexachlorocyclopentadiene	<9.4		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	DMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-05
Date Analyzed:	07/19/13	Data File:	071920.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	42	32	162
Phenol-d6	28	10	170
Nitrobenzene-d5	92	50	150
2-Fluorobiphenyl	94	43	158
2,4,6-Tribromophenol	115	43	146
Terphenyl-d14	106	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.26 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-5S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-06
Date Analyzed:	07/19/13	Data File:	071921.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49	32	162
Phenol-d6	32	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	97	43	158
2,4,6-Tribromophenol	124	43	146
Terphenyl-d14	103	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.28 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-8S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-07
Date Analyzed:	07/19/13	Data File:	071922.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	43	32	162
Phenol-d6	28	10	170
Nitrobenzene-d5	97	50	150
2-Fluorobiphenyl	97	43	158
2,4,6-Tribromophenol	125	43	146
Terphenyl-d14	118 J	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086 J
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.35 J fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-9S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-08
Date Analyzed:	07/19/13	Data File:	071923.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	32	162
Phenol-d6	28	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	99 J	43	158
2,4,6-Tribromophenol	112 J	43	146
Terphenyl-d14	109 J	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28 J
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22 J
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044 J
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086 J
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05 J
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062 J
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46 J
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4 J
2-Methylphenol	<0.26	Dibenzofuran	0.042 J
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056 J
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3 J
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06 J
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072 J
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05 J
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56 J
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38 J
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056 J
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05 J
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32 J
1,2,4-Trichlorobenzene	<0.05	Carbazole	0.27 J
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068 J
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086 J
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.30 fb J
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094 J		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-9S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-08 1/10
Date Analyzed:	07/22/13	Data File:	072217.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	91 ds	32	162
Phenol-d6	56 ds	10	170
Nitrobenzene-d5	183 ds	50	150
2-Fluorobiphenyl	194 ds	43	158
2,4,6-Tribromophenol	187 ds	43	146
Terphenyl-d14	199 ds	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<14	2,4,6-Trichlorophenol	<2.8
Bis(2-chloroethyl) ether	<0.6	2,4,5-Trichlorophenol	<2.2
2-Chlorophenol	<1.6	2-Chloronaphthalene	<0.44
1,3-Dichlorobenzene	<0.34	2-Nitroaniline	<0.86
1,4-Dichlorobenzene	<0.34	Dimethyl phthalate	<0.5
1,2-Dichlorobenzene	<0.24	2,6-Dinitrotoluene	<0.62
Benzyl alcohol	<4	3-Nitroaniline	<4.6
Bis(2-chloroisopropyl) ether	<0.3	2,4-Dinitrophenol	<24
2-Methylphenol	<2.6	Dibenzofuran	<0.34
Hexachloroethane	<0.6	2,4-Dinitrotoluene	<0.56
N-Nitroso-di-n-propylamine	<1.1	4-Nitrophenol	<13
3-Methylphenol + 4-Methylphenol	<4.2	Diethyl phthalate	<0.6
Nitrobenzene	<0.44	4-Chlorophenyl phenyl ether	<0.72
Isophorone	<0.3	N-Nitrosodiphenylamine	<0.5
2-Nitrophenol	<1.7	4-Nitroaniline	<5.6
2,4-Dimethylphenol	<2.8	4,6-Dinitro-2-methylphenol	<3.8
Benzoic acid	<140	4-Bromophenyl phenyl ether	<0.56
Bis(2-chloroethoxy)methane	<0.34	Hexachlorobenzene	<0.5
2,4-Dichlorophenol	<2.6	Pentachlorophenol	<3.2
1,2,4-Trichlorobenzene	<0.5	Carbazole	0.55
Hexachlorobutadiene	<0.7	Di-n-butyl phthalate	<0.68
4-Chloroaniline	<0.56 jl	Benzyl butyl phthalate	<0.86
4-Chloro-3-methylphenol	<2.4	Bis(2-ethylhexyl) phthalate	<1.7
2-Methylnaphthalene	<0.34	Di-n-octyl phthalate	<0.44
Hexachlorocyclopentadiene	<0.94		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-11S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-09
Date Analyzed:	07/19/13	Data File:	071924.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49	32	162
Phenol-d6	31	10	170
Nitrobenzene-d5	99	50	150
2-Fluorobiphenyl	98	43	158
2,4,6-Tribromophenol	121	43	146
Terphenyl-d14	114	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	0.087
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.49 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/16/13	Lab ID:	03-1395 mb
Date Analyzed:	07/18/13	Data File:	071807.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49	32	162
Phenol-d6	35	10	170
Nitrobenzene-d5	94	50	150
2-Fluorobiphenyl	95	43	158
2,4,6-Tribromophenol	107 ca	43	146
Terphenyl-d14	113	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056 jl	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.33 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-01 1/10
Date Analyzed:	07/19/13	Data File:	071837.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	118 ds	50	150
Benzo(a)anthracene-d12	72 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.04
Acenaphthylene	<0.024
Acenaphthene	<0.038
Fluorene	<0.04
Phenanthrene	<0.066
Anthracene	<0.028
Fluoranthene	<0.046
Pyrene	<0.036
Benz(a)anthracene	<0.042
Chrysene	<0.038
Benzo(a)pyrene	<0.078
Benzo(b)fluoranthene	<0.052
Benzo(k)fluoranthene	<0.076
Indeno(1,2,3-cd)pyrene	<0.07
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-02
Date Analyzed:	07/18/13	Data File:	071825.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	90	50	150
Benzo(a)anthracene-d12	101	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.024
Acenaphthylene	<0.0024
Acenaphthene	0.0095
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-2-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-03 1/100
Date Analyzed:	07/19/13	Data File:	071838.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	649 ds	50	150
Benzo(a)anthracene-d12	67 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	26
Acenaphthylene	0.36
Acenaphthene	33
Fluorene	8.9
Phenanthrene	6.1
Anthracene	0.80
Fluoranthene	<0.46
Pyrene	<0.36
Benz(a)anthracene	<0.42
Chrysene	<0.38
Benzo(a)pyrene	<0.78
Benzo(b)fluoranthene	<0.52
Benzo(k)fluoranthene	<0.76
Indeno(1,2,3-cd)pyrene	<0.7
Dibenz(a,h)anthracene	<0.4
Benzo(g,h,i)perylene	<0.44

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-04 1/100
Date Analyzed:	07/19/13	Data File:	071918.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	211 ds	50	150
Benzo(a)anthracene-d12	143 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	460 ve
Acenaphthylene	4.3
Acenaphthene	280 ve
Fluorene	130 ve
Phenanthrene	150 ve
Anthracene	12
Fluoranthene	9.9
Pyrene	7.4
Benz(a)anthracene	<0.42
Chrysene	<0.38
Benzo(a)pyrene	<0.78
Benzo(b)fluoranthene	<0.52
Benzo(k)fluoranthene	<0.76
Indeno(1,2,3-cd)pyrene	<0.7
Dibenz(a,h)anthracene	<0.4
Benzo(g,h,i)perylene	<0.44

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-04 1/1000
Date Analyzed:	07/20/13	Data File:	071935.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	2290 ds	50	150
Benzo(a)anthracene-d12	280 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	450
Acenaphthylene	3.4
Acenaphthene	250
Fluorene	110
Phenanthrene	140
Anthracene	9.9
Fluoranthene	7.8
Pyrene	5.9
Benz(a)anthracene	<4.2
Chrysene	<3.8
Benzo(a)pyrene	<7.8
Benzo(b)fluoranthene	<5.2
Benzo(k)fluoranthene	<7.6
Indeno(1,2,3-cd)pyrene	<7
Dibenz(a,h)anthracene	<4
Benzo(g,h,i)perylene	<4.4

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-05
Date Analyzed:	07/18/13	Data File:	071826.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	50	150
Benzo(a)anthracene-d12	107	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	3.0 ve
Fluorene	0.010
Phenanthrene	0.038
Anthracene	0.012
Fluoranthene	0.017
Pyrene	0.012
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-05 1/10
Date Analyzed:	07/20/13	Data File:	071936.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	173 ds	50	150
Benzo(a)anthracene-d12	86 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.04
Acenaphthylene	<0.024
Acenaphthene	2.9
Fluorene	<0.04
Phenanthrene	<0.066
Anthracene	<0.028
Fluoranthene	<0.046
Pyrene	<0.036
Benz(a)anthracene	<0.042
Chrysene	<0.038
Benzo(a)pyrene	<0.078
Benzo(b)fluoranthene	<0.052
Benzo(k)fluoranthene	<0.076
Indeno(1,2,3-cd)pyrene	<0.07
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-5S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-06
Date Analyzed:	07/18/13	Data File:	071829.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	97	50	150
Benzo(a)anthracene-d12	106	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0054
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-8S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-07
Date Analyzed:	07/19/13	Data File:	071830.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	91	50	150
Benzo(a)anthracene-d12	103	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.033
Acenaphthylene	0.0026
Acenaphthene	0.059
Fluorene	0.040
Phenanthrene	0.080
Anthracene	0.047
Fluoranthene	0.053
Pyrene	0.061
Benz(a)anthracene	0.0044
Chrysene	0.0054
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-9S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-08
Date Analyzed:	07/18/13	Data File:	071827.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	91	50	150
Benzo(a)anthracene-d12	107	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.064
Acenaphthylene	<0.0024
Acenaphthene	0.099
Fluorene	0.10
Phenanthrene	0.083
Anthracene	0.37
Fluoranthene	0.12
Pyrene	0.049
Benz(a)anthracene	0.0096
Chrysene	0.020
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-11S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	307166-09
Date Analyzed:	07/18/13	Data File:	071828.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	90	50	150
Benzo(a)anthracene-d12	105	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.056
Acenaphthylene	<0.0024
Acenaphthene	0.13
Fluorene	0.040
Phenanthrene	0.063
Anthracene	0.014
Fluoranthene	0.021
Pyrene	0.018
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/17/13	Lab ID:	03-1394 mb
Date Analyzed:	07/18/13	Data File:	071806.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	50	150
Benzo(a)anthracene-d12	91	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For PCBs By EPA Method 8082

Client Sample ID:	SLR-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-01 1/0.25
Date Analyzed:	07/24/13	Data File:	072426.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	27 vo	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	SLR-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-02 1/0.25
Date Analyzed:	07/24/13	Data File:	072428.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	93	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	DMW-2-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-03 1/0.25
Date Analyzed:	07/24/13	Data File:	30.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	81	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	0.021
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	0.029

Analysis For PCBs By EPA Method 8082

Client Sample ID:	DMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-04 1/0.25
Date Analyzed:	07/24/13	Data File:	32.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	DMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-05 1/0.25
Date Analyzed:	07/24/13	Data File:	34.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	97	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-5S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-06 1/0.25
Date Analyzed:	07/24/13	Data File:	36.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	104	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-8S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-07 1/0.25
Date Analyzed:	07/24/13	Data File:	38.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-9S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-08 1/0.25
Date Analyzed:	07/24/13	Data File:	42.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	85	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	EMW-11S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	307166-09 1/0.25
Date Analyzed:	07/24/13	Data File:	44.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	89	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/15/13	Lab ID:	03-1391 mb 1/0.25
Date Analyzed:	07/24/13	Data File:	072424.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-01
Date Analyzed:	07/29/13	Data File:	307166-01.075
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	78	60	125
Holmium	82	60	125

Analyte:	Concentration ug/L (ppb)
Silver	0.489
Cadmium	0.657
Thallium	<0.0740
Lead	0.832

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-01 x10
Date Analyzed:	07/29/13	Data File:	307166-01 x10.077
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	85	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	32.0
Nickel	5.29
Copper	4.01
Zinc	<6.00
Arsenic	24.7
Selenium	6.78
Silver	<0.640
Cadmium	2.96
Antimony	0.840
Barium	97.7
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-02
Date Analyzed:	08/01/13	Data File:	307166-02.041
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	93	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.272
Nickel	1.47
Copper	2.28
Zinc	2.08
Arsenic	0.235
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	0.178
Barium	20.8
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-2-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-03
Date Analyzed:	08/01/13	Data File:	307166-03.042
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	87	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	5.81
Nickel	1.87
Copper	1.21
Zinc	5.70
Arsenic	5.43
Selenium	0.568
Silver	<0.0640
Cadmium	<0.250
Antimony	0.0890
Barium	14.8
Thallium	<0.0740
Lead	0.615

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-04
Date Analyzed:	08/01/13	Data File:	307166-04.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	113	60	125
Indium	90	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.06
Nickel	0.711
Copper	0.456
Zinc	0.607
Arsenic	4.78
Selenium	0.693
Silver	<0.0640
Cadmium	<0.250
Antimony	0.0630
Barium	12.9
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-05
Date Analyzed:	08/01/13	Data File:	307166-05.044
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Indium	94	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Selenium	0.660
Silver	<0.0640
Cadmium	<0.250
Thallium	<0.0740
Lead	0.203

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-05 x10
Date Analyzed:	08/08/13	Data File:	307166-05 x10.057
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	89	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	<1.38
Nickel	<4.60
Copper	<3.40
Zinc	<6.00
Arsenic	54.2
Selenium	<5.60
Silver	<0.640
Cadmium	<2.50
Antimony	<0.520
Barium	15.7
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-5S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-06
Date Analyzed:	08/01/13	Data File:	307166-06.045
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	88	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.69
Nickel	2.85
Copper	1.76
Zinc	3.51
Arsenic	3.12
Selenium	0.945
Silver	<0.0640
Cadmium	<0.250
Antimony	0.0820
Barium	20.4
Thallium	<0.0740
Lead	0.374

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-8S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-07
Date Analyzed:	08/01/13	Data File:	307166-07.046
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	87	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.243
Nickel	1.61
Copper	0.470
Zinc	1.34
Arsenic	8.59
Selenium	<0.560
Silver	<0.0640
Cadmium	0.336
Antimony	2.78
Barium	34.1
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-9S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-08
Date Analyzed:	08/01/13	Data File:	307166-08.049
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	106	60	125
Indium	89	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.06
Nickel	0.886
Copper	0.426
Zinc	3.03
Arsenic	16.3
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	0.476
Barium	59.3
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-11S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-09
Date Analyzed:	08/01/13	Data File:	307166-09.050
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	90	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.450
Nickel	3.04
Copper	1.73
Zinc	9.00
Arsenic	1.34
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	0.431
Barium	152
Thallium	<0.0740
Lead	0.145

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	I3-449 mb
Date Analyzed:	08/01/13	Data File:	I3-449 mb.040
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	92	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	<0.0520 j
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	I3-449 mb
Date Analyzed:	08/08/13	Data File:	I3-449 mb.054
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	82	60	125
Indium	84	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	<0.0520 j
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-3-0713	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-01
Date Analyzed:	07/29/13	Data File:	307166-01.076
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	127 vo	60	125
Indium	77	60	125
Holmium	83	60	125

Analyte:	Concentration ug/L (ppb)
Silver	0.491
Cadmium	0.681
Thallium	<0.0740
Lead	0.472

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-01 x10
Date Analyzed:	07/29/13	Data File:	307166-01 x10.078
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	92	60	125
Indium	85	60	125
Holmium	88	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	32.6
Nickel	5.38
Copper	7.86
Zinc	6.81
Arsenic	24.3
Selenium	6.94
Silver	<0.640
Cadmium	<2.50
Antimony	0.780
Barium	96.6
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-02
Date Analyzed:	07/29/13	Data File:	307166-02.030
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	100	60	125
Holmium	100	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.296
Nickel	1.65
Copper	2.53
Zinc	0.776
Arsenic	0.232
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	0.476
Barium	20.6
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-2-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-03
Date Analyzed:	07/29/13	Data File:	307166-03.033
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	92	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.73
Nickel	1.24
Copper	0.612
Zinc	3.07
Arsenic	5.03
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	0.428
Barium	14.5
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-3-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-04
Date Analyzed:	07/29/13	Data File:	307166-04.034
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	117	60	125
Indium	98	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.912
Nickel	0.693
Copper	0.524
Zinc	<0.600
Arsenic	4.73
Selenium	0.642
Silver	<0.0640
Cadmium	<0.250
Antimony	0.132
Barium	12.0
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-05
Date Analyzed:	07/29/13	Data File:	307166-05.035
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	133 vo	60	125
Indium	99	60	125
Holmium	100	60	125

Analyte:	Concentration ug/L (ppb)
Selenium	0.731
Silver	<0.0640
Cadmium	<0.250
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-6-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-05 x10
Date Analyzed:	07/29/13	Data File:	307166-05 x10.052
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	91	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	<1.38
Nickel	<4.60
Copper	<3.40
Zinc	<6.00
Arsenic	56.4
Selenium	<5.60
Silver	<0.640
Cadmium	<2.50
Antimony	<0.520
Barium	15.9
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-5S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-06
Date Analyzed:	07/29/13	Data File:	307166-06.036
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	91	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.705
Nickel	2.19
Copper	0.584
Zinc	1.47
Arsenic	2.68
Selenium	0.790
Silver	<0.0640
Cadmium	<0.250
Antimony	0.0770
Barium	15.7
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-8S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-07
Date Analyzed:	07/29/13	Data File:	307166-07.038
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	89	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.263
Nickel	2.44
Copper	1.09
Zinc	2.26
Arsenic	7.10
Selenium	<0.560
Silver	<0.0640
Cadmium	0.339
Antimony	3.20
Barium	34.6
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-9S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-08
Date Analyzed:	07/29/13	Data File:	307166-08.039
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	96	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.08
Nickel	2.46
Copper	1.65
Zinc	4.39
Arsenic	16.1
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	0.433
Barium	56.3
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-11S-0713	Client:	SLR International Corp.
Date Received:	07/12/13	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307166-09
Date Analyzed:	07/29/13	Data File:	307166-09.040
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	93	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.453
Nickel	5.38
Copper	2.32
Zinc	9.99
Arsenic	1.32
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	0.445
Barium	151
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RI-FS 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	I3-450 mb
Date Analyzed:	07/29/13	Data File:	I3-450 mb.051
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	88	60	125
Indium	90	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166
Date Extracted: 07/17/13
Date Analyzed: 07/18/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
SLR-3-0713 307166-01	0.0043
SLR-6-0713 307166-02	<0.0015
DMW-2-0713 307166-03	<0.0015
DMW-3-0713 307166-04	<0.0015
DMW-6-0713 307166-05	<0.0015
EMW-5S-0713 307166-06	0.0029
EMW-8S-0713 307166-07	<0.0015
EMW-9S-0713 307166-08	<0.0015
EMW-11S-0713 307166-09	0.0019
Method Blank	<0.0015

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166
Date Extracted: 07/17/13
Date Analyzed: 07/18/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
SLR-3-0713 307166-01	0.0038
SLR-6-0713 307166-02	<0.0015
DMW-2-0713 307166-03	<0.0015
DMW-3-0713 307166-04	<0.0015
DMW-6-0713 307166-05	<0.0015
EMW-5S-0713 307166-06	<0.0015
EMW-8S-0713 307166-07	<0.0015
EMW-9S-0713 307166-08	<0.0015
EMW-11S-0713 307166-09	0.0015
Method Blank	<0.0015

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166
Date Extracted: NA
Date Analyzed: 07/17/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
SLR-3-0713 307166-01	<10
SLR-6-0713 307166-02	<10
DMW-2-0713 307166-03	<10
DMW-3-0713 307166-04	26
DMW-6-0713 307166-05	<10
EMW-5S-0713 307166-06	43
EMW-8S-0713 307166-07	<10
EMW-9S-0713 307166-08	<10
EMW-11S-0713 307166-09	<10
Method Blank	<10

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 307179-05 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	94	69-134

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	87	93	58-134	7

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 307166-09 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	110	55-144
Chloromethane	ug/L (ppb)	50	<0.22	98	67-131
Vinyl chloride	ug/L (ppb)	50	<0.13	102	61-139
Bromomethane	ug/L (ppb)	50	<0.2	883 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	166 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	129 vo	71-128
Acetone	ug/L (ppb)	250	<2.6	98	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	103	71-123
Methylene chloride	ug/L (ppb)	50	<3	101	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	99	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	98	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	98	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	110	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	100	73-119
Chloroform	ug/L (ppb)	50	<0.24	93	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	101	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	96	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	104	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	100	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	112	72-123
Benzene	ug/L (ppb)	50	<0.13	95	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	97	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	101	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	113	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	104	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	113	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	112	76-120
Toluene	ug/L (ppb)	50	<0.13	95	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	102	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	104	81-111
2-Hexanone	ug/L (ppb)	250	<1	111	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	100	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	92	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	113	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	107	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	93	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	96	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	110	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	97	63-128
o-Xylene	ug/L (ppb)	50	<0.22	97	64-129
Styrene	ug/L (ppb)	50	<0.22	101	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	97	76-118
Bromoform	ug/L (ppb)	50	<0.22	115	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	98	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	97	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	100	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	104	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	101	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	94	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	97	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	97	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	98	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	96	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	96	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	93	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	91	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	91	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	109	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	85	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	80	67-120
Naphthalene	ug/L (ppb)	50	<0.28	97	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	97	79-115

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	110	108	54-149	2
Chloromethane	ug/L (ppb)	50	100	97	67-133	3
Vinyl chloride	ug/L (ppb)	50	103	100	73-132	3
Bromomethane	ug/L (ppb)	50	1040 vo	998 vo	69-123	4
Chloroethane	ug/L (ppb)	50	168 vo	166 vo	68-126	1
Trichlorofluoromethane	ug/L (ppb)	50	129	126	70-132	2
Acetone	ug/L (ppb)	250	100	98	44-145	2
1,1-Dichloroethene	ug/L (ppb)	50	105	104	75-119	1
Methylene chloride	ug/L (ppb)	50	103	102	63-132	1
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	103	102	70-122	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	99	99	76-118	0
1,1-Dichloroethane	ug/L (ppb)	50	100	99	80-116	1
2,2-Dichloropropane	ug/L (ppb)	50	118	118	62-141	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	101	101	81-111	0
Chloroform	ug/L (ppb)	50	94	93	81-109	1
2-Butanone (MEK)	ug/L (ppb)	250	102	99	53-140	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	98	96	79-109	2
1,1,1-Trichloroethane	ug/L (ppb)	50	108	107	80-116	1
1,1-Dichloropropene	ug/L (ppb)	50	101	99	78-112	2
Carbon tetrachloride	ug/L (ppb)	50	120	118	72-128	2
Benzene	ug/L (ppb)	50	96	95	81-108	1
Trichloroethene	ug/L (ppb)	50	96	96	77-108	0
1,2-Dichloropropane	ug/L (ppb)	50	104	103	82-109	1
Bromodichloromethane	ug/L (ppb)	50	118	116	76-120	2
Dibromomethane	ug/L (ppb)	50	104	103	80-110	1
4-Methyl-2-pentanone	ug/L (ppb)	250	114	114	59-142	0
cis-1,3-Dichloropropene	ug/L (ppb)	50	118	118	76-128	0
Toluene	ug/L (ppb)	50	95	95	83-108	0
trans-1,3-Dichloropropene	ug/L (ppb)	50	110	109	76-128	1
1,1,2-Trichloroethane	ug/L (ppb)	50	104	104	82-110	0
2-Hexanone	ug/L (ppb)	250	110	109	53-145	1
1,3-Dichloropropane	ug/L (ppb)	50	100	100	83-110	0
Tetrachloroethene	ug/L (ppb)	50	92	90	78-109	2
Dibromochloromethane	ug/L (ppb)	50	117	115	63-140	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	109	109	85-113	0
Chlorobenzene	ug/L (ppb)	50	93	92	84-108	1
Ethylbenzene	ug/L (ppb)	50	97	96	84-110	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	115	114	76-125	1
m,p-Xylene	ug/L (ppb)	100	97	96	84-112	1
o-Xylene	ug/L (ppb)	50	97	97	82-113	0
Styrene	ug/L (ppb)	50	100	100	84-116	0
Isopropylbenzene	ug/L (ppb)	50	97	97	81-122	0
Bromoform	ug/L (ppb)	50	124	122	40-161	2
n-Propylbenzene	ug/L (ppb)	50	98	99	81-115	1
Bromobenzene	ug/L (ppb)	50	95	97	80-113	2
1,3,5-Trimethylbenzene	ug/L (ppb)	50	99	100	83-117	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	105	106	79-118	1
1,2,3-Trichloropropane	ug/L (ppb)	50	100	101	74-116	1
2-Chlorotoluene	ug/L (ppb)	50	94	95	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	97	98	81-113	1
tert-Butylbenzene	ug/L (ppb)	50	97	98	81-119	1
1,2,4-Trimethylbenzene	ug/L (ppb)	50	97	98	83-116	1
sec-Butylbenzene	ug/L (ppb)	50	97	97	83-116	0
p-Isopropyltoluene	ug/L (ppb)	50	96	97	82-119	1
1,3-Dichlorobenzene	ug/L (ppb)	50	92	93	83-111	1
1,4-Dichlorobenzene	ug/L (ppb)	50	91	92	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	91	91	83-111	0
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	115	117	62-133	2
1,2,4-Trichlorobenzene	ug/L (ppb)	50	86	87	77-117	1
Hexachlorobutadiene	ug/L (ppb)	50	79	81	74-118	2
Naphthalene	ug/L (ppb)	50	98	100	75-131	2
1,2,3-Trichlorobenzene	ug/L (ppb)	50	97	100	82-115	3

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	10	39	34	18-52	14
Bis(2-chloroethyl) ether	ug/L (ppb)	10	89	79	52-113	12
2-Chlorophenol	ug/L (ppb)	10	89	78	50-110	13
1,3-Dichlorobenzene	ug/L (ppb)	10	91	76	45-109	18
1,4-Dichlorobenzene	ug/L (ppb)	10	94	77	44-118	20
1,2-Dichlorobenzene	ug/L (ppb)	10	93	76	46-116	20
Benzyl alcohol	ug/L (ppb)	10	89	73	42-100	20
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	90	77	51-124	16
2-Methylphenol	ug/L (ppb)	10	73	70	38-100	4
Hexachloroethane	ug/L (ppb)	10	94	77	42-117	20
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	91	78	48-124	15
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	72	64	48-87	12
Nitrobenzene	ug/L (ppb)	10	95	84	50-118	12
Isophorone	ug/L (ppb)	10	99	86	55-116	14
2-Nitrophenol	ug/L (ppb)	10	115	104	42-127	10
2,4-Dimethylphenol	ug/L (ppb)	10	41 vo	85	45-100	70 vo
Benzoic acid	ug/L (ppb)	65	57 vo	49 vo	10-46	15
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	96	86	55-115	11
2,4-Dichlorophenol	ug/L (ppb)	10	103	92	55-113	11
1,2,4-Trichlorobenzene	ug/L (ppb)	10	95	83	50-109	13
Hexachlorobutadiene	ug/L (ppb)	10	95	83	50-109	13
4-Chloroaniline	ug/L (ppb)	20	91	14 vo	30-109	147 vo
4-Chloro-3-methylphenol	ug/L (ppb)	10	104	88	54-114	17
2-Methylnaphthalene	ug/L (ppb)	10	100	85	53-113	16
Hexachlorocyclopentadiene	ug/L (ppb)	10	83	64	26-94	26 vo
2,4,6-Trichlorophenol	ug/L (ppb)	10	105	96	46-114	9
2,4,5-Trichlorophenol	ug/L (ppb)	10	107	98	57-122	9
2-Chloronaphthalene	ug/L (ppb)	10	98	89	52-112	10
2-Nitroaniline	ug/L (ppb)	10	113	100	47-128	12
Dimethyl phthalate	ug/L (ppb)	10	110	99	55-116	11
2,6-Dinitrotoluene	ug/L (ppb)	10	117	107	49-126	9
3-Nitroaniline	ug/L (ppb)	20	114	68	21-125	51 vo
2,4-Dinitrophenol	ug/L (ppb)	10	160 vo	144 vo	29-130	11
Dibenzofuran	ug/L (ppb)	10	101	92	53-113	9
2,4-Dinitrotoluene	ug/L (ppb)	10	111	99	48-129	11
4-Nitrophenol	ug/L (ppb)	10	50	41	12-59	20
Diethyl phthalate	ug/L (ppb)	10	106	95	55-116	11
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	103	93	52-115	10
N-Nitrosodiphenylamine	ug/L (ppb)	10	101	87	51-112	15
4-Nitroaniline	ug/L (ppb)	20	108	79	42-115	31 vo
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	130 vo	120	40-128	8
4-Bromophenyl phenyl ether	ug/L (ppb)	10	105	98	53-114	7
Hexachlorobenzene	ug/L (ppb)	10	103	95	54-115	8
Pentachlorophenol	ug/L (ppb)	10	108	104	49-114	4
Carbazole	ug/L (ppb)	10	101	91	54-115	10
Di-n-butyl phthalate	ug/L (ppb)	10	110	102	54-115	8
Benzyl butyl phthalate	ug/L (ppb)	10	119	108	53-122	10
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	112	95	54-122	16
Di-n-octyl phthalate	ug/L (ppb)	10	108	103	50-131	5

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	83	87	67-116	5
Acenaphthylene	ug/L (ppb)	1	96	101	65-119	5
Acenaphthene	ug/L (ppb)	1	94	100	66-118	6
Fluorene	ug/L (ppb)	1	98	103	64-125	5
Phenanthrene	ug/L (ppb)	1	92	96	67-120	4
Anthracene	ug/L (ppb)	1	94	97	65-122	3
Fluoranthene	ug/L (ppb)	1	98	93	65-127	5
Pyrene	ug/L (ppb)	1	96	103	62-130	7
Benz(a)anthracene	ug/L (ppb)	1	91	93	60-118	2
Chrysene	ug/L (ppb)	1	95	100	66-125	5
Benzo(b)fluoranthene	ug/L (ppb)	1	86	90	55-135	5
Benzo(k)fluoranthene	ug/L (ppb)	1	84	87	62-125	4
Benzo(a)pyrene	ug/L (ppb)	1	81	83	58-127	2
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	76	79	36-142	4
Dibenz(a,h)anthracene	ug/L (ppb)	1	71	73	37-133	3
Benzo(g,h,i)perylene	ug/L (ppb)	1	77	77	34-135	0

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.63	97	114	70-130	16
Aroclor 1260	ug/L (ppb)	0.63	102	108	70-130	6

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 307177-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	113	113	67-145	0
Chromium	ug/L (ppb)	20	0.667	90	91	64-132	1
Nickel	ug/L (ppb)	20	0.959	83	84	61-128	1
Copper	ug/L (ppb)	20	0.904	83	84	63-124	1
Zinc	ug/L (ppb)	50	1.11	83	84	55-141	1
Arsenic	ug/L (ppb)	10	1.47	100	104	60-150	4
Selenium	ug/L (ppb)	5	<0.560	100	104	43-178	4
Silver	ug/L (ppb)	5	<0.0640	93	97	71-115	4
Cadmium	ug/L (ppb)	5	0.562	99	102	83-116	3
Antimony	ug/L (ppb)	20	0.401	88	92	62-125	4
Barium	ug/L (ppb)	50	8.25	99	103	79-126	4
Thallium	ug/L (ppb)	5	<0.0740	92	93	73-119	1
Lead	ug/L (ppb)	10	<0.144	93	95	79-121	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	104	73-135
Chromium	ug/L (ppb)	20	86	80-119
Nickel	ug/L (ppb)	20	83	79-122
Copper	ug/L (ppb)	20	85	81-119
Zinc	ug/L (ppb)	50	81	76-124
Arsenic	ug/L (ppb)	10	85	80-111
Selenium	ug/L (ppb)	5	90	81-119
Silver	ug/L (ppb)	5	92	80-116
Cadmium	ug/L (ppb)	5	92	83-113
Antimony	ug/L (ppb)	20	88	79-108
Barium	ug/L (ppb)	50	92	83-117
Thallium	ug/L (ppb)	5	85	78-116
Lead	ug/L (ppb)	10	87	83-115

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 307166-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	106	106	67-145	0
Chromium	ug/L (ppb)	20	0.296	86	88	64-132	2
Nickel	ug/L (ppb)	20	1.65	87	86	61-128	1
Copper	ug/L (ppb)	20	2.53	86	86	63-124	0
Zinc	ug/L (ppb)	50	0.776	87	88	55-141	1
Arsenic	ug/L (ppb)	10	0.232	88	87	60-150	1
Selenium	ug/L (ppb)	5	<0.560	90	88	43-178	2
Silver	ug/L (ppb)	5	<0.0640	83	82	71-115	1
Cadmium	ug/L (ppb)	5	<0.250	87	87	83-116	0
Antimony	ug/L (ppb)	20	0.476	84	85	62-125	1
Barium	ug/L (ppb)	50	20.6	88 b	87 b	79-126	1 b
Thallium	ug/L (ppb)	5	<0.0740	83	85	73-119	2
Lead	ug/L (ppb)	10	<0.144	85	84	79-121	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	98	73-135
Chromium	ug/L (ppb)	20	84	80-119
Nickel	ug/L (ppb)	20	88	79-122
Copper	ug/L (ppb)	20	89	81-119
Zinc	ug/L (ppb)	50	89	76-124
Arsenic	ug/L (ppb)	10	80	80-111
Selenium	ug/L (ppb)	5	88	81-119
Silver	ug/L (ppb)	5	88	80-116
Cadmium	ug/L (ppb)	5	87	83-113
Antimony	ug/L (ppb)	20	83	79-108
Barium	ug/L (ppb)	50	88	83-117
Thallium	ug/L (ppb)	5	83	78-116
Lead	ug/L (ppb)	10	85	83-115

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 307166-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	0.00084	97	99	63-132	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	100	78-118

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: 307166-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	0.00082	100	98	63-132	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	99	78-118

Date of Report: 08/15/13
Date Received: 07/12/13
Project: 8th Avenue Terminals, Inc., Crowley RI-FS 101.00205.00030, F&BI 307166

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 307166-09 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<10	<10	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
TSS	mg/L	50	86	61-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

July 29, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 307166
ARI Job No.: WX45

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted nine water samples on July 15, 2013, under ARI job WX45. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile WX45

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

WX45

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To ~~Michael Erdahl~~ Michele Poquiz

Company Friedman and Bruya, Inc.

Address 3012 16th Ave W

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

SUBCONTRACTER ARI (Tukwila)

PROJECT NAME/NO. 307166

PO # C-460

REMARKS Need EIM

Please Email Results

TURNAROUND TIME

☒ Standard (2 Weeks)

☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days

☐ Return samples

☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	Dioxins and Furans by 8290	EPH	VPH	Nitrate	Sulfate	Alkalinity	TDS by 2540C	Chloride by SM4500			Notes
SLR-3-0713		7/12/13		water	2							X	X			
SLR-6-0713		"	1131	"	"							X	X			
DMW-2-0713		"	0929	"	"							X	X			
DMW-3-0713		"	1045	"	"							X	X			
DMW-6-0713		7/11/13	1717	"	"							X	X			
EMW-5S-0713		7/12/13		"	"							X	X			
EMW-8S-0713		"	0914	"	"							X	X			
EMW-9S-0713		"	1019	"	"							X	X			
EMW-11S-0713		7/11/13	1622	"	"							X	X			

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:		Michael Erdahl	Friedman & Bruya	7/12/13	1400
Received by:		Rich Hulson	ARI	7/12/13	1720
Relinquished by:					
Received by:					

SCHEDULE ENTRY

Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Friedman + Bruya

Project Name: 307166

COC No(s): NA

Delivered by: Fed-Ex UPS Courier Hand Delivered Other:

Assigned ARI Job No: WX45

Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO
Temperature of Cooler(s) (°C) (recommended 2 0-6 0 °C for chemistry)	4.5	

If cooler temperature is out of compliance fill out form 00070F — Temp Gun ID#: 90877952

Cooler Accepted by: _____ Date: 7/12/13 Time: 1720

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used?	Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:		
Was sufficient ice used (if appropriate)?	NA	YES	NO
Were all bottles sealed in individual plastic bags?		YES	NO
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA		

Was Sample Split by ARI: NA YES Date/Time: _____ Equipment: _____ Split by: _____

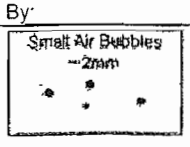
Samples Logged by: AV Date: 7/15/13 Time: 1147

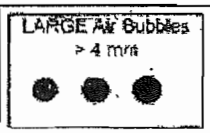
*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:





Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WX45
Client: Friedman and Bruya, Inc
Project Event: 307166
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	SLR-3-0713	WX45A	13-14822	Water	07/12/13	07/15/13 17:20
2.	SLR-6-0713	WX45B	13-14823	Water	07/12/13 11:31	07/15/13 17:20
3.	DMW-2-0713	WX45C	13-14824	Water	07/12/13 09:29	07/15/13 17:20
4.	DMW-3-0713	WX45D	13-14825	Water	07/12/13 10:45	07/15/13 17:20
5.	DMW-6-0713	WX45E	13-14826	Water	07/11/13 17:17	07/15/13 17:20
6.	EMW-5S-0713	WX45F	13-14827	Water	07/12/13	07/15/13 17:20
7.	EMW-8S-0713	WX45G	13-14828	Water	07/12/13 09:14	07/15/13 17:20
8.	EMW-9S-0713	WX45H	13-14829	Water	07/12/13 10:19	07/15/13 17:20
9.	EMW-11S-0713	WX45I	13-14830	Water	07/11/13 16:22	07/15/13 17:20

SAMPLE RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: SLR-3-0713
ARI ID: 13-14822 WX45A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	13.3	1,280
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	10.0	40.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: SLR-6-0713
ARI ID: 13-14823 WX45B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	5.0	266
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	5.0	9.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: DMW-2-0713
ARI ID: 13-14824 WX45C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	5.0	311
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	5.0	9.1

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: DMW-3-0713
ARI ID: 13-14825 WX45D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	5.0	239
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	5.0	25.2

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: 07/11/13
Date Received: 07/15/13

Client ID: DMW-6-0713
ARI ID: 13-14826 WX45E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	5.0	228
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	5.0	13.2

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: EMW-5S-0713
ARI ID: 13-14827 WX45F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	10.0	400
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	5.0	14.1

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: EMW-8S-0713
ARI ID: 13-14828 WX45G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	10.0	326
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	5.0	26.1

RL Analytical reporting limit
U Undetected at reported detection limit

UNIE : 000114

SAMPLE RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: 07/12/13
Date Received: 07/15/13

Client ID: EMW-9S-0713
ARI ID: 13-14829 WX45H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	5.0	250
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	5.0	10.0

RL Analytical reporting limit
U Undetected at reported detection limit

WX45 : 080242

SAMPLE RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: 07/11/13
Date Received: 07/15/13

Client ID: EMW-11S-0713
ARI ID: 13-14830 WX45I

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	07/16/13 071613#1	SM2540C	mg/L	5.0	268
Chloride	07/16/13 071613#1	SM4500-CLE	mg/L	1.0	5.4

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: 07/11/13
Date Received: 07/15/13

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: WX45I Client ID: EMW-11S-0713							
Chloride	SM4500-CLE	07/16/13	mg/L	5.4	30.8	25.0	101.6%

REPLICATE RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: 07/11/13
Date Received: 07/15/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: WX45I Client ID: EMW-11S-0713						
Chloride	SM4500-CLE	07/16/13	mg/L	5.4	5.5	1.8%

WX45:00015

LAB CONTROL RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	07/16/13	mg/L	503	500	100.6%

METHOD BLANK RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	07/16/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	07/16/13	mg/L	< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
WX45-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 07/26/13

Project: NA
Event: 307166
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	07/16/13	mg/L	5.2	5.0	104.0%

307166

SAMPLE CHAIN OF CUSTODY

KJ 07-12-13 BI4/V5/E03

Page # ____ of ____

Send Report To MIKE STATON

Company SLR INTERNATIONAL CORPORATION

Address 22118 20TH AVE SE, G-202

City, State, ZIP BOTHELL, WA 98021

Phone # (425) 402-8800 Fax # (425) 402-8488

SAMPLERS *(signature)*

PROJECT NAME/NO.: 8TH AVENUE TERMINALS, INC. CROWLEY RI-FS 101.00205.00030

PO#: 101.00205.00030

REMARKS NWTPH-Dx FOR DRO & HO AFTER SILICA GEL CLEANUP

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☒ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Total Metals (Prior to pollutant & 200.8) by 6020	Total Mercury by 1631E	Dissolved Metals (Prior to pollutant & 200.8) by 6020	Dissolved Mercury by 1631E	PCBs by 8082A	PAHs by 8270D-SIM	TSS by 2540D	TDS by 2540C	Chloride by SM4500
SLR-3-0713	01 A-R	7/12/13		WATER	18	X	X		X	X		X	X	X	X	X	X	X	X	X
SLR-6-0713	02		1131																	
DMW-2-0713	03		0929																	
DMW-3-0713	04		1045																	
DMW-6-0713	05	7/11/13	1717																	
EMW-5S-0713	06	7/12/13																		
EMW-8S-0713	07		0914																	
EMW-9S-0713	08		1019																	
EMW-11S-0713	09	7/11/13	1622																	
TB-071213A	10	7/12/13	1147	WATER	2				X											

Note: N

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	CHRIS LEE	SLR	7/12/13	1320
Received by:	VINA	FBI	7/12/13	13:20
Relinquished by:		Samples received at 1		
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 30, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on September 25, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446 project. There are 51 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR1030R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 25, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
309446-01	EMW-3S-092513
309446-02	EMW-4D-092513
309446-03	CMW-1-092513
309446-04	EMW-15D-092513
309446-05	CMW-4-092513
309446-06	CMW-6-092513
309446-07	EMW-14D-092513
309446-08	EMW-13S-092513
309446-09	EMW-56D-092513
309446-10	EMW-10D-092513

Total Metals by EPA Method 200.8

The reporting limits for zinc and antimony were raised due to potential low level laboratory contamination.

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The internal standard associated with several analytes exceeded acceptance criteria. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Dissolved Metals by EPA Method 200.8

Arsenic, selenium and copper were not reported. Please see the report issued by Applied Speciation and Consulting (ASC) for results for these analytes.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-3S-092513, EMW-4D-092513, CMW-1-092513, EMW-15D-092513, CMW-4-092513, CMW-6-092513, EMW-14D-092513, and EMW-13S-092513. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

CASE NARRATIVE (continued)

Dissolved Mercury by EPA Method 1631E
The reporting limit was raised due to potential low level laboratory contamination.

Total Suspended Solids by Method 2540D
All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C
The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI will be forwarded to your office upon receipt.

Chloride by Method SM4500
The samples were sent to ARI for analysis. The report generated by ARI is enclosed.

Dissolved Metals by ICP-DRC-MS
The samples were sent to Applied Speciation and Consulting (ASC) for analysis. The report generated by ASC is enclosed.

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-3S-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-01
Date Analyzed:	09/30/13	Data File:	309446-01.061
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	55 vo	60	125
Indium	49 vo	60	125
Holmium	53 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	0.608 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-3S-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-01 x10
Date Analyzed:	09/30/13	Data File:	309446-01 x10.025
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	86	60	125
Holmium	85	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	3.55
Nickel	8.12
Copper	4.95
Zinc	86.7
Arsenic	26.8 ip
Selenium	70.8 ip
Silver	1.06
Cadmium	<0.940
Antimony	<12.5
Barium	200
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-4D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-02
Date Analyzed:	09/30/13	Data File:	309446-02.062
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	66	60	125
Indium	59 vo	60	125
Holmium	65	60	125

Analyte:	Concentration ug/L (ppb)
Copper	<0.340
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-4D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-02 x10
Date Analyzed:	09/30/13	Data File:	309446-02 x10.026
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	90	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.65
Nickel	<4.60
Copper	<3.40
Zinc	<25.0
Arsenic	9.08 ip
Selenium	32.6 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	112
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-1-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-03
Date Analyzed:	09/30/13	Data File:	309446-03.063
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	43 vo	60	125
Indium	39 vo	60	125
Holmium	46 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	0.384 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-1-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-03 x10
Date Analyzed:	09/30/13	Data File:	309446-03 x10.027
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	82	60	125
Indium	84	60	125
Holmium	84	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.18
Nickel	7.51
Copper	4.01
Zinc	62.5
Arsenic	25.1 ip
Selenium	89.4 ip
Silver	0.950
Cadmium	<0.940
Antimony	<12.5
Barium	86.5
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-15D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-04
Date Analyzed:	09/30/13	Data File:	309446-04.064
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	59 vo	60	125
Indium	54 vo	60	125
Holmium	59 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	0.933 J
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-15D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-04 x10
Date Analyzed:	09/30/13	Data File:	309446-04 x10.028
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	88	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.03
Nickel	<4.60
Copper	<3.40
Zinc	<25.0
Arsenic	11.7 ip
Selenium	45.7 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	74.7
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-4-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-05
Date Analyzed:	09/30/13	Data File:	309446-05.065
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	50 vo	60	125
Indium	47 vo	60	125
Holmium	53 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-4-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-05 x10
Date Analyzed:	09/30/13	Data File:	309446-05 x10.030
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	85	60	125
Indium	84	60	125
Holmium	84	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	9.44
Nickel	14.0
Copper	29.0
Zinc	133
Arsenic	244 ip
Selenium	66.5 ip
Silver	<0.640
Cadmium	<0.940
Antimony	34.4
Barium	390
Thallium	<0.740
Lead	28.0

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-6-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-06
Date Analyzed:	09/30/13	Data File:	309446-06.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	44 vo	60	125
Indium	44 vo	60	125
Holmium	50 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-6-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-06 x10
Date Analyzed:	09/30/13	Data File:	309446-06 x10.031
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	84	60	125
Indium	84	60	125
Holmium	84	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	4.44
Nickel	6.40
Copper	17.7
Zinc	38.9
Arsenic	75.3 ip
Selenium	68.1 ip
Silver	<0.640
Cadmium	<0.940
Antimony	23.9
Barium	121
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-14D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-07
Date Analyzed:	09/30/13	Data File:	309446-07.067
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	59 vo	60	125
Indium	50 vo	60	125
Holmium	57 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	1.16 J
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-14D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-07 x10
Date Analyzed:	09/30/13	Data File:	309446-07 x10.032
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	87	60	125
Holmium	88	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.46
Nickel	<4.60
Copper	<3.40
Zinc	<25.0
Arsenic	14.6 ip
Selenium	51.1 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	216
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-13S-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-08
Date Analyzed:	09/30/13	Data File:	309446-08.070
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	51 vo	60	125
Indium	50 vo	60	125
Holmium	54 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	7.94 J
Thallium	<0.0740 J
Lead	0.750 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-13S-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-08 x10
Date Analyzed:	09/30/13	Data File:	309446-08 x10.033
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	85	60	125
Holmium	86	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.73
Nickel	<4.60
Copper	7.97
Zinc	<25.0
Arsenic	40.4 ip
Selenium	55.0 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	27.4
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-56D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-09
Date Analyzed:	09/30/13	Data File:	309446-09.071
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	73	60	125
Indium	58 vo	60	125
Holmium	64	60	125

Analyte:	Concentration ug/L (ppb)
Copper	<0.340
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-56D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-09 x10
Date Analyzed:	09/30/13	Data File:	309446-09 x10.034
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	87	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	<1.38
Nickel	<4.60
Copper	<3.40
Zinc	<25.0
Arsenic	8.72 ip
Selenium	32.0 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	102
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-10D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-10
Date Analyzed:	09/30/13	Data File:	309446-10.072
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	69	60	125
Indium	54 vo	60	125
Holmium	58 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	<0.340
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-10D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309446-10 x10
Date Analyzed:	09/30/13	Data File:	309446-10 x10.035
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	88	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	<1.38
Nickel	<4.60
Copper	<3.40
Zinc	<25.0
Arsenic	8.13 ip
Selenium	31.4 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	104
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	I3-618 mb
Date Analyzed:	09/30/13	Data File:	I3-618 mb.011
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	101	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<2.50
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

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ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-3S-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-01
Date Analyzed:	10/02/13	Data File:	309446-01.076
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	48 vo	60	125
Indium	45 vo	60	125
Holmium	48 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-3S-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-01 x10
Date Analyzed:	10/02/13	Data File:	309446-01 x10.030
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	73	60	125
Indium	73	60	125
Holmium	77	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.23
Nickel	9.42
Zinc	88.0
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	214
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-4D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-02
Date Analyzed:	10/02/13	Data File:	309446-02.069
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	73	60	125
Indium	59 vo	60	125
Holmium	62	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-4D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-02 x10
Date Analyzed:	10/02/13	Data File:	309446-02 x10.031
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	79	60	125
Indium	76	60	125
Holmium	81	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.92
Nickel	<4.60
Zinc	<25.0
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	117
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-1-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-03
Date Analyzed:	10/02/13	Data File:	309446-03.079
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	42 vo	60	125
Indium	39 vo	60	125
Holmium	43 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-1-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-03 x10
Date Analyzed:	10/02/13	Data File:	309446-03 x10.032
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	70	60	125
Indium	71	60	125
Holmium	76	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.49
Nickel	9.22
Zinc	57.4
Silver	0.930
Cadmium	<0.940
Antimony	<12.5
Barium	90.3
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-15D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-04
Date Analyzed:	10/02/13	Data File:	309446-04.073
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	65	60	125
Indium	54 vo	60	125
Holmium	56 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-15D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-04 x10
Date Analyzed:	10/02/13	Data File:	309446-04 x10.033
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	79	60	125
Indium	77	60	125
Holmium	83	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.01
Nickel	<4.60
Zinc	<25.0
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	74.7
Thallium	<0.740
Lead	<1.44

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-4-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-05
Date Analyzed:	10/02/13	Data File:	309446-05.077
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	50 vo	60	125
Indium	46 vo	60	125
Holmium	49 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-4-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-05 x10
Date Analyzed:	10/02/13	Data File:	309446-05 x10.034
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	75	60	125
Indium	75	60	125
Holmium	81	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.85
Nickel	9.46
Zinc	<25.0
Silver	<0.640
Cadmium	<0.940
Antimony	23.7
Barium	350
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-6-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-06
Date Analyzed:	10/02/13	Data File:	309446-06.078
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	46 vo	60	125
Indium	43 vo	60	125
Holmium	47 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-6-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-06 x10
Date Analyzed:	10/02/13	Data File:	309446-06 x10.041
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	73	60	125
Indium	71	60	125
Holmium	73	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	4.08
Nickel	7.63
Zinc	40.9
Silver	<0.640
Cadmium	<0.940
Antimony	32.6
Barium	133
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-14D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-07
Date Analyzed:	10/02/13	Data File:	309446-07.074
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	64	60	125
Indium	49 vo	60	125
Holmium	52 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-14D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-07 x10
Date Analyzed:	10/02/13	Data File:	309446-07 x10.036
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	78	60	125
Indium	76	60	125
Holmium	80	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.92
Nickel	5.55
Zinc	<25.0
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	216
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-13S-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-08
Date Analyzed:	10/02/13	Data File:	309446-08.075
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	51 vo	60	125
Indium	47 vo	60	125
Holmium	51 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	6.80 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-13S-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-08 x10
Date Analyzed:	10/02/13	Data File:	309446-08 x10.037
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	78	60	125
Indium	77	60	125
Holmium	82	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.21
Nickel	<4.60
Zinc	<25.0
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	27.4
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-56D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-09
Date Analyzed:	10/02/13	Data File:	309446-09.070
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	82	60	125
Indium	62	60	125
Holmium	64	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.998
Nickel	3.15
Zinc	<2.50
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	103
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-10D-092513	Client:	SLR International Corp.
Date Received:	09/25/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309446-10
Date Analyzed:	10/02/13	Data File:	309446-10.071
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	82	60	125
Indium	62	60	125
Holmium	63	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.05
Nickel	1.95
Zinc	<2.50
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	103
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	I3-622 mb
Date Analyzed:	10/02/13	Data File:	I3-622 mb.044
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	83	60	125
Indium	83	60	125
Holmium	85	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Zinc	<2.50
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Date of Report: 10/30/13
Date Received: 09/25/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446
Date Extracted: 09/30/13
Date Analyzed: 10/01/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
EMW-3S-092513 309446-01	<0.0015
EMW-4D-092513 309446-02	<0.0015
CMW-1-092513 309446-03	<0.0015
EMW-15D-092513 309446-04	<0.0015
CMW-4-092513 309446-05	<0.0015
CMW-6-092513 309446-06	<0.0015
EMW-14D-092513 309446-07	<0.0015
EMW-13S-092513 309446-08	<0.0015
EMW-56D-092513 309446-09	<0.0015
EMW-10D-092513 309446-10	<0.0015
Method Blank	<0.0015

Date of Report: 10/30/13
Date Received: 09/25/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446
Date Extracted: 09/30/13
Date Analyzed: 10/03/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
EMW-3S-092513 309446-01	0.0072
EMW-4D-092513 309446-02	<0.0015
CMW-1-092513 309446-03	0.0031
EMW-15D-092513 309446-04	<0.0015
CMW-4-092513 309446-05	0.037
CMW-6-092513 309446-06	0.0031
EMW-14D-092513 309446-07	<0.0015
EMW-13S-092513 309446-08	<0.0015
EMW-56D-092513 309446-09	<0.0015
EMW-10D-092513 309446-10	<0.0015
Method Blank	<0.0015

Date of Report: 10/30/13
Date Received: 09/25/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446
Date Extracted: NA
Date Analyzed: 9/30/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
EMW-3S-092513 309446-01	<9.7
EMW-4D-092513 309446-02	29
CMW-1-092513 309446-03	22
EMW-15D-092513 309446-04	20
CMW-4-092513 309446-05	130
CMW-6-092513 309446-06	<9.7
EMW-14D-092513 309446-07	30
EMW-13S-092513 309446-08	<9.7
EMW-56D-092513 309446-09	49
EMW-10D-092513 309446-10	41
Method Blank	<9.7

Date of Report: 10/30/13
Date Received: 09/25/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 309420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	103	101	67-145	2
Chromium	ug/L (ppb)	20	0.601	101	103	64-132	2
Nickel	ug/L (ppb)	20	3.34	97	95	61-128	2
Copper	ug/L (ppb)	20	0.91	99	95	63-124	4
Zinc	ug/L (ppb)	50	<2.5	98	95	55-141	3
Arsenic	ug/L (ppb)	10	0.321	104	103	60-150	1
Selenium	ug/L (ppb)	5	<0.560	105	106	43-178	1
Silver	ug/L (ppb)	5	<0.0640	96	99	71-115	3
Cadmium	ug/L (ppb)	5	<0.0940	102	100	83-116	2
Antimony	ug/L (ppb)	20	<1.25	101	101	62-125	0
Barium	ug/L (ppb)	50	10.3	103 b	100 b	79-126	3 b
Thallium	ug/L (ppb)	5	<0.0740	98	96	73-119	2
Lead	ug/L (ppb)	10	<0.144	96	95	79-121	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	104	73-135
Chromium	ug/L (ppb)	20	106	80-119
Nickel	ug/L (ppb)	20	105	79-122
Copper	ug/L (ppb)	20	113	81-119
Zinc	ug/L (ppb)	50	102	76-124
Arsenic	ug/L (ppb)	10	99	80-111
Selenium	ug/L (ppb)	5	103	81-119
Silver	ug/L (ppb)	5	106	80-116
Cadmium	ug/L (ppb)	5	103	83-113
Antimony	ug/L (ppb)	20	102	79-108
Barium	ug/L (ppb)	50	105	83-117
Thallium	ug/L (ppb)	5	102	78-116
Lead	ug/L (ppb)	10	99	83-115

Date of Report: 10/30/13
Date Received: 09/25/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	97	91	73-135	6
Chromium	ug/L (ppb)	20	100	94	80-119	6
Nickel	ug/L (ppb)	20	100	95	79-122	5
Zinc	ug/L (ppb)	50	98	93	76-124	5
Silver	ug/L (ppb)	5	104	99	80-116	5
Cadmium	ug/L (ppb)	5	99	96	83-113	3
Antimony	ug/L (ppb)	20	99	97	79-108	2
Barium	ug/L (ppb)	50	106	101	83-117	5
Thallium	ug/L (ppb)	5	103	103	78-116	0
Lead	ug/L (ppb)	10	100	97	83-115	3

Date of Report: 10/30/13
Date Received: 09/25/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	99	100	78-118	1

Date of Report: 10/30/13
Date Received: 09/25/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 309420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	96	99	63-132	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	103	78-118

Date of Report: 10/30/13
Date Received: 09/25/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309446

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 309514-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<9.7	<9.7	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	83	91	61-131	9

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

309446

SAMPLE CHAIN OF CUSTODY

KJ 09/25/13 BIL

Send Report To Mike Staton

Company SLR International Corp.

Address 22118 20th Ave SE, G202

City, State, ZIP Bothell, WA, 98021

Phone # 425-402-8805 Fax # 425-402-8488

SAMPLERS (signature) Amanda M. Mengriot

PROJECT NAME/NO.: 8th Ave Terminals, Inc Site Cowlen 101.00205.00030

PO#: 101.00205.00030

REMARKS: Please submit samples for ICP-DRC-MS as soon as possible

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- [ ] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Total Priority Pollutant Metals + Ba, Sn by 200.8	Total Hg by 1631E	Dissolved Priority Pollutant Metals + Ba, Sn by 200.8	Dissolved Hg by 1631E	TSS by 2540D	TDS by 2540C	Chloride by SM4500	Dissolved As, Ba, Cu, and Se by ICP-DRC-MS	Notes
EMW-3S-092513	01	9/25/13	0955	WATER	6							X	X	X	X	X	X	X		
EMW-4D-092513	02		1040		6															
CMW-1-092513	03		1120		6															
EMW-15D-092513	04		1012		8														X	
CMW-4-092513	05		1055		8														X	
CMW-6-092513	06		0953		6															
EMW-14D-092513	07		1037		6															
EMW-13S-092513	08		1118		8														X	
EMW-16D-092513	09		1207		8														HOLD for ICP-DRC-MS	
EMW-10D-092513	10		1301		8														X	

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda M. Mengriot	Amanda Mengriot	SLR	9/25/13	1518
Received by:	James Bruya	James Bruya	F&B	9/25	1518
Relinquished by:					
Received by:			Samples received at 5 °C		

Analytical Resources, Incorporated
Analytical Chemists and Consultants

RECEIVED
OCT 11 2013

October 9, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 309446
ARI Job No.: XG65

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted ten water samples on September 26, 2013 under ARI job XG65. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile XG65

Enclosures

XG65

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.: 309446

PO #: C-557

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
☒ Standard Turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500			Notes
EMW-3S-092513		9/25/13	0955	water	2									X	X			
EMW-4D-092513			1040											X	X			
CMW-1-092513			1120											X	X			
EMW-15D-092513			1012											X	X			
CMW-4-092513			1055											X	X			
CMW-6-092513			0953											X	X			
EMW-14D-092513			1037											X	X			
EMW-13S-092513			1118											X	X			
EMW-56D-092513			1207											X	X			
EMW-10D-092513		↓	1301	↓	↓									X	X			

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Michele Costales Poquiz	Michele Costales Poquiz	F&B1	9/26/13	5:17 PM
Received by: A. Volgardsen	A. Volgardsen	ARI	9/26/13	1045
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC SLRC.DOC

XG65 : 00002

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Friedman & Bruya

Project Name: _____

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS (Courier) Hand Delivered Other: Postal Express

Assigned ARI Job No: XGL65

Tracking No: 4551055 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)	0.9	
Time: 1045		

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90877982

Cooler Accepted by: AV Date: 9/26/13 Time: 1645

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap Wet Ice (Gel Packs) Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)	_____	

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

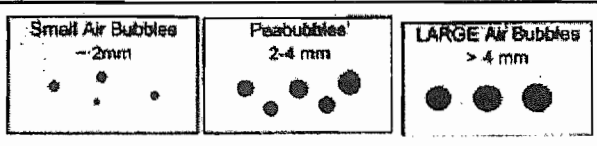
Samples Logged by: AV Date: 9/26/13 Time: 1222

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: XG65
Client: Friedman and Bruya, Inc
Project Event: 309446
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	EMW-3S-092513	XG65A	13-20638	Water	09/25/13 09:55	09/26/13 10:45
2.	EMW-4D-092513	XG65B	13-20639	Water	09/25/13 10:40	09/26/13 10:45
3.	CMW-1-092513	XG65C	13-20640	Water	09/25/13 11:20	09/26/13 10:45
4.	EMW-15D-092513	XG65D	13-20641	Water	09/25/13 10:12	09/26/13 10:45
5.	CMW-4-092513	XG65E	13-20642	Water	09/25/13 10:55	09/26/13 10:45
6.	CMW-6-092513	XG65F	13-20643	Water	09/25/13 09:53	09/26/13 10:45
7.	EMW-14D-092513	XG65G	13-20644	Water	09/25/13 10:37	09/26/13 10:45
8.	EMW-13S-092513	XG65H	13-20645	Water	09/25/13 11:18	09/26/13 10:45
9.	EMW-56D-092513	XG65I	13-20646	Water	09/25/13 12:07	09/26/13 10:45
10.	EMW-10D-092513	XG65J	13-20647	Water	09/25/13 13:01	09/26/13 10:45

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: EMW-3S-092513
ARI ID: 13-20638 XG65A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	11,700
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	7,210

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: EMW-4D-092513
ARI ID: 13-20639 XG65B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	100	4,890
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	2,690

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: CMW-1-092513
ARI ID: 13-20640 XG65C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	15,700
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2,000	11,100

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: EMW-15D-092513
ARI ID: 13-20641 XG65D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	7,320
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	3,980

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: CMW-4-092513
ARI ID: 13-20642 XG65E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	11,400
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	6,680

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: CMW-6-092513
ARI ID: 13-20643 XG65F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	23,600
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	7,180

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: EMW-14D-092513
ARI ID: 13-20644 XG65G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	8,340
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	4,720

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: EMW-13S-092513
ARI ID: 13-20645 XG65H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	9,800
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	5,570

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: EMW-56D-092513
ARI ID: 13-20646 XG65I

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	100	4,900
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	2,820

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: 09/25/13
Date Received: 09/26/13

Client ID: EMW-10D-092513
ARI ID: 13-20647 XG65J

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	100	4,760
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	2,360

RL Analytical reporting limit
U Undetected at reported detection limit

LAB CONTROL RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	09/27/13	mg/L	496	500	99.2%

METHOD BLANK RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	09/27/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/04/13	mg/L	< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
XG65-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309446
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/04/13	mg/L	5.0	5.0	100.0%

APPLIED SPECIATION AND CONSULTING, LLC

18804 Northcreek Parkway Bothell, WA, 98011
Tel: (425) 483-3300 Fax: (425) 483-9818
www.appliedspeciation.com

October 15, 2013

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

SDG: F130926A
Project Name: 309446

Ms Poquiz,

Attached is the report associated with five (5) aqueous samples submitted dissolved arsenic, barium, copper, and selenium analyses on September 25, 2013. All samples were received on September 26, 2013 in a sealed cooler at 1.0°C. Dissolved metals analysis was performed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS). Any analytical issues associated with the analyses are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC

Report prepared for:

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

SDG: F130926A
Project Name: 309446

October 15, 2013

1. Sample Reception

Five (5) aqueous samples were submitted for dissolved arsenic, barium, copper, and selenium analyses on September 25, 2013. All samples were received in acceptable condition on September 26, 2013 in a sealed container at 1.0°C.

The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting.

The samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. The samples were stored in a secure enclosed container, known to be free from trace metals contamination, until the digestion and analysis could be performed.

The client instructed Applied Speciation and Consulting to cancel all analyses for the sample identified as EMW-56D-092513. The chain of custody form reflects the sample ID as received; however, no results were reported for this sample in accordance with the client's instructions.

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

Dissolved As, Ba, Cu, and Se Analysis by ICP-DRC-MS The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. All preserved samples were digested in accordance with EPA Method 200.8 on October 8, 2013. Results for dissolved copper were reported

from an EPA Method 200.8 digest performed on October 10, 2013. All sample digests were then analyzed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS).

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases associated with the analytical platform.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimum interval of every ten analytical runs.

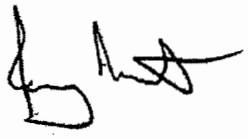
Dissolved As, Ba, Cu, and Se Analysis by ICP-DRC-MS All samples for dissolved arsenic, barium, and selenium analysis were analyzed by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS) on October 9, 2013. All samples for dissolved copper analysis were analyzed on October 11, 2013, using the same analytical platform. Aliquots of each sample are introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with interfering ions of the same target mass to charge ratios (m/z). A solid-state detector detects ions transmitted through the mass analyzer, on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

4. Analytical Issues

The overall analyses went very well and no significant analytical issues were encountered. All quality control parameters associated with these samples were within acceptance limits.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,



Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/25/2013 Date Received: 9/26/2013

Client Sample ID
EMW-15D-092513

Laboratory Sample ID
EMW-15D-092513

Analyte	Method	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	0.012	0.20	0.711
Diss Ba	EPA 200.8	0.14	0.20	66.5
Diss Cu	EPA 200.8	0.038	0.40	0.461
Diss Se	EPA 200.8	0.029	0.20	0.108 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/25/2013 Date Received: 9/26/2013

Client Sample ID
CMW-4-092513

Laboratory Sample ID
CMW-4-092513

Analyte	Method	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	0.012	0.20	184
Diss Ba	EPA 200.8	0.14	0.20	320
Diss Cu	EPA 200.8	0.038	0.40	6.08
Diss Se	EPA 200.8	0.029	0.20	0.185 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/25/2013 Date Received: 9/26/2013

Client Sample ID
EMW-13S-092513

Laboratory Sample ID
EMW-13S-092513

Analyte	Method	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	0.012	0.20	16.9
Diss Ba	EPA 200.8	0.14	0.20	27.1
Diss Cu	EPA 200.8	0.038	0.40	6.77
Diss Se	EPA 200.8	0.029	0.20	0.178 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/25/2013 Date Received: 9/26/2013

Client Sample ID
EMW-10D-092513

Laboratory Sample ID
EMW-10D-092513

Analyte	Method	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	0.012	0.20	0.579
Diss Ba	EPA 200.8	0.14	0.20	98.2
Diss Cu	EPA 200.8	0.038	0.40	0.443
Diss Se	EPA 200.8	0.029	0.20	0.131 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	PBW1	PBW2	PBW3	PBW4	Mean	StdDev	eMDL*	eMDL 5x	Sample RL
Diss As	0.013	0.010	0.014	0.019	0.014	0.004	0.002	0.012	0.20
Diss Ba	0.09	0.02	0.05	0.13	0.07	0.05	0.027	0.14	0.20
Diss Cu	0.018	0.048	0.038	0.035	0.035	0.013	0.008	0.038	0.40
Diss Se	0.006	0.015	0.020	-0.002	0.010	0.010	0.006	0.029	0.20

eMDL = Estimated Method Detection Limit
* Please see narrative regarding eMDL calculations

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Certified Reference Material

Analyte (µg/L)	LCS	True Value	Result	Recovery
Total As	LCS	400.0	372.2	93.0
Total As	TMDA-70	40.7	38.9	95.6
Total Ba	LCS	400.0	375.2	93.8
Total Ba	TMDA-70	309	289	93.4
Total Cu	LCS	400.0	393.2	98.3
Total Cu	TMDA-70	399	402	100.7
Total Se	LCS	400.0	371.3	92.8
Total Se	TMDA-70	25.9	22.1	85.2

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Rep 1	Rep 2	Mean	RPD
Diss As	EMW-10D-092513	0.579	0.563	0.571	2.8
Diss Ba	EMW-10D-092513	98.19	102.0	100.1	3.8
Diss Cu	EMW-10D-092513	0.443	0.457	0.450	3.0
Diss Se	EMW-10D-092513	0.131 J	0.112 J	0.122	15.8

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: October 15, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
Diss As	EMW-10D-092513	400.0	420.4	105.0	400.0	432.9	108.1	2.9
Diss Ba	EMW-10D-092513	400.0	497.0	99.2	400.0	500.3	100.1	0.8
Diss Cu	EMW-10D-092513	400.0	401.6	100.3	400.0	419.3	104.7	4.3
Diss Se	EMW-10D-092513	400.0	403.5	100.8	400.0	423.0	105.7	4.7

SAMPLE CHAIN OF CUSTODY

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR Applied Speciation
~~Analytical Resources, Inc. (ARI)~~ 9/25/13

PROJECT NAME/NO. 309446

PO # C-560

REMARKS Attn: Jeremy Maute
Please analyze per price quote dated 9/17/13
Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

Page # 1 of 1

TURNAROUND TIME
☒ Standard Turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500	Dissolved As, Ba, Cu & Se by ICP-DRC-MS		Notes
EMW-15D-092513		9/25/13	1012	water	1											X		
CMW-4-092513		9/25/13	1055													X		
EMW-13S-092513		9/25/13	1118													X		
EMW-56D-092513		9/25/13	1207															Hold for ICP-DRC-MS
EMW-10D-092513		9/25/13	1301	↓	↓											X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Michele Costales Poquiz	Michele Costales Poquiz	F&B	9/25/13	5:21 PM
Received by: Nancy Cullinan	Nancy Cullinan	ASC Temp 1.0	9/26/13	10:30 AM
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 5, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on September 24, 2013 from the 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420 project. There are 37 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR1105R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 24, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
309420-01	EMW-12S-092413
309420-02	EMW-16D-092413
309420-03	CMW-5-092413
309420-04	CMW-3-092413
309420-05	CMW-2-092413
309420-06	HC-4-092413
309420-07	EMW-8S-092413
309420-08	EMW-89S-092413
309420-09	EMW-5S-092413

Total Metals by EPA Method 200.8

The reporting limits for copper, zinc and antimony were raised due to potential low level laboratory contamination.

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-16D-092413, CMW-3-092413, and CMW-2-092413. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Dissolved Metals by EPA Method 200.8

The reporting limits for copper, zinc and antimony were raised due to potential low level laboratory contamination.

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-16D-092413, CMW-3-092413, and CMW-2-092413. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Dissolved Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Total Suspended Solids by Method 2540D

All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C

The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500

The samples were sent to ARI for analysis. The report generated by ARI is enclosed.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-12S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-01
Date Analyzed:	09/30/13	Data File:	309420-01.013
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	97	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.601
Nickel	3.34
Copper	<1.25
Zinc	<2.50
Arsenic	0.321 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	10.3
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-16D-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-02
Date Analyzed:	09/30/13	Data File:	309420-02.059
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	53 vo	60	125
Indium	39 vo	60	125
Holmium	41 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	2.62 J
Zinc	2.67 J
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-16D-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-02 x10
Date Analyzed:	09/30/13	Data File:	309420-02 x10.022
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	78	60	125
Holmium	77	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.93
Nickel	8.64
Copper	<12.5
Zinc	<25.0
Arsenic	34.9 ip
Selenium	143 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	249
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-5-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-03
Date Analyzed:	09/30/13	Data File:	309420-03.041
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	118	60	125
Indium	97	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.65
Nickel	1.43
Copper	<1.25
Zinc	<2.50
Arsenic	59.0 ip
Selenium	1.17 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	23.6
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-3-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-04
Date Analyzed:	09/30/13	Data File:	309420-04.042
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	56 vo	60	125
Indium	54 vo	60	125
Holmium	54 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	3.53 J
Zinc	8.64 J
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	1.11 J

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-3-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-04 x10
Date Analyzed:	09/30/13	Data File:	309420-04 x10.023
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	84	60	125
Indium	85	60	125
Holmium	86	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.63
Nickel	6.72
Copper	4.37
Zinc	13.4
Arsenic	29.2 ip
Selenium	69.1 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	271
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-2-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-05
Date Analyzed:	09/30/13	Data File:	309420-05.060
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	55 vo	60	125
Indium	53 vo	60	125
Holmium	56 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	3.34 J
Zinc	6.18 J
Cadmium	<0.0940 J
Antimony	2.34 J
Thallium	<0.0740 J
Lead	0.722 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-2-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-05 x10
Date Analyzed:	09/30/13	Data File:	309420-05 x10.024
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	85	60	125
Indium	84	60	125
Holmium	85	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	3.00
Nickel	<4.60
Copper	<12.5
Zinc	<25.0
Arsenic	19.7 ip
Selenium	58.8 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	101
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	HC-4-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-06
Date Analyzed:	09/30/13	Data File:	309420-06.038
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	98	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.626
Nickel	4.31
Copper	2.15
Zinc	3.50
Arsenic	0.470 ip
Selenium	0.853 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	15.8
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-8S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-07
Date Analyzed:	09/30/13	Data File:	309420-07.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	95	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.16
Nickel	1.50
Copper	<1.25
Zinc	6.03
Arsenic	44.0 ip
Selenium	1.32 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	41.3
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-89S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-08
Date Analyzed:	09/30/13	Data File:	309420-08.039
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	91	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.05
Nickel	1.82
Copper	<1.25
Zinc	<2.50
Arsenic	2.18 ip
Selenium	0.721 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	16.9
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-5S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309420-09
Date Analyzed:	09/30/13	Data File:	309420-09.040
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125
Indium	92	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.975
Nickel	1.84
Copper	<1.25
Zinc	<2.50
Arsenic	2.15 ip
Selenium	0.649 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	16.8
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	I3-618 mb
Date Analyzed:	09/30/13	Data File:	I3-618 mb.011
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	101	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<1.25
Zinc	<2.50
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-12S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-01
Date Analyzed:	10/02/13	Data File:	309420-01.058
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	92	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.408
Nickel	3.26
Copper	<1.25
Zinc	3.42
Arsenic	0.293 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	10.1
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-16D-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-02
Date Analyzed:	10/02/13	Data File:	309420-02.064
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	53 vo	60	125
Indium	39 vo	60	125
Holmium	38 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	<1.25 J
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-16D-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-02 x10
Date Analyzed:	10/02/13	Data File:	309420-02 x10.048
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	70	60	125
Indium	67	60	125
Holmium	70	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.50
Nickel	9.59
Copper	<12.5
Zinc	<25.0
Arsenic	35.5 ip
Selenium	131 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	242
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-5-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-03
Date Analyzed:	10/02/13	Data File:	309420-03.065
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	113	60	125
Indium	96	60	125
Holmium	103	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.04
Nickel	1.68
Copper	<1.25
Zinc	2.56
Arsenic	53.9 ip
Selenium	2.80 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	22.5
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-3-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-04
Date Analyzed:	10/02/13	Data File:	309420-04.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	54 vo	60	125
Indium	50 vo	60	125
Holmium	50 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	3.29 J
Cadmium	<0.0940 J
Antimony	4.09 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-3-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-04 x10
Date Analyzed:	10/02/13	Data File:	309420-04 x10.050
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	79	60	125
Indium	77	60	125
Holmium	80	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.97
Nickel	6.31
Copper	<12.5
Zinc	<25.0
Arsenic	29.0 ip
Selenium	65.0 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	274
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-2-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-05
Date Analyzed:	10/02/13	Data File:	309420-05.067
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	57 vo	60	125
Indium	53 vo	60	125
Holmium	54 vo	60	125

Analyte:	Concentration ug/L (ppb)
Copper	2.64 J
Cadmium	<0.0940 J
Antimony	<1.25 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-2-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-05 x10
Date Analyzed:	10/02/13	Data File:	309420-05 x10.052
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	74	60	125
Indium	72	60	125
Holmium	74	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	3.37
Nickel	5.75
Copper	<12.5
Zinc	<25.0
Arsenic	21.4 ip
Selenium	61.7 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<12.5
Barium	97.9
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	HC-4-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-06
Date Analyzed:	10/02/13	Data File:	309420-06.059
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	88	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.497
Nickel	5.29
Copper	2.19
Zinc	5.22
Arsenic	0.541 ip
Selenium	1.15 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	18.3
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-8S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-07
Date Analyzed:	10/02/13	Data File:	309420-07.068
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	94	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.95
Nickel	1.52
Copper	<1.25
Zinc	4.17
Arsenic	40.7 ip
Selenium	1.84 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	42.0
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-89S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-08
Date Analyzed:	10/02/13	Data File:	309420-08.060
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	85	60	125
Holmium	88	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.08
Nickel	2.42
Copper	<1.25
Zinc	<2.50
Arsenic	2.20 ip
Selenium	0.802 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	17.8
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-5S-092413	Client:	SLR International Corp.
Date Received:	09/24/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309420-09
Date Analyzed:	10/02/13	Data File:	309420-09.061
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	114	60	125
Indium	98	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.861
Nickel	2.10
Copper	<1.25
Zinc	<2.50
Arsenic	2.04 ip
Selenium	0.761 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	16.2
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	I3-622 mb
Date Analyzed:	10/02/13	Data File:	I3-622 mb.044
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	83	60	125
Indium	83	60	125
Holmium	85	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<1.25
Zinc	<2.50
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Date of Report: 11/05/13
Date Received: 09/24/13
Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420
Date Extracted: 09/30/13
Date Analyzed: 10/03/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
EMW-12S-092413 309420-01	<0.0015
EMW-16D-092413 309420-02	<0.0015
CMW-5-092413 309420-03	<0.0015
CMW-3-092413 309420-04	0.0043
CMW-2-092413 309420-05	0.0024
HC-4-092413 309420-06	<0.0015
EMW-8S-092413 309420-07	<0.0015
EMW-89S-092413 309420-08	<0.0015
EMW-5S-092413 309420-09	<0.0015
Method Blank	<0.0015

Date of Report: 11/05/13
Date Received: 09/24/13
Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420
Date Extracted: 09/30/13
Date Analyzed: 10/01/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
EMW-12S-092413 309420-01	<0.0015
EMW-16D-092413 309420-02	<0.0015
CMW-5-092413 309420-03	<0.0015
CMW-3-092413 309420-04	<0.0015
CMW-2-092413 309420-05	<0.0015
HC-4-092413 309420-06	<0.0015
EMW-8S-092413 309420-07	<0.0015
EMW-89S-092413 309420-08	<0.0015
EMW-5S-092413 309420-09	<0.0015
Method Blank	<0.0015

Date of Report: 11/05/13
Date Received: 09/24/13
Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420
Date Extracted: NA
Date Analyzed: 09/26/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
EMW-12S-092413 309420-01	<9.7
EMW-16D-092413 309420-02	11
CMW-5-092413 309420-03	24
CMW-3-092413 309420-04	<9.7
CMW-2-092413 309420-05	<9.7
HC-4-092413 309420-06	<9.7
EMW-8S-092413 309420-07	<9.7
EMW-89S-092413 309420-08	<9.7
EMW-5S-092413 309420-09	<9.7
Method Blank	<9.7

Date of Report: 11/05/13
Date Received: 09/24/13
Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 309420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	103	101	67-145	2
Chromium	ug/L (ppb)	20	0.601	101	103	64-132	2
Nickel	ug/L (ppb)	20	3.34	97	95	61-128	2
Copper	ug/L (ppb)	20	<1.25	99	98	63-124	1
Zinc	ug/L (ppb)	50	<2.50	98	95	55-141	3
Arsenic	ug/L (ppb)	10	0.321 ip	104	103	60-150	1
Selenium	ug/L (ppb)	5	<0.560 ip	105	106	43-178	1
Silver	ug/L (ppb)	5	<0.0640	96	99	71-115	3
Cadmium	ug/L (ppb)	5	<0.0940	102	100	83-116	2
Antimony	ug/L (ppb)	20	<1.25	101	101	62-125	0
Barium	ug/L (ppb)	50	10.3	103 b	100 b	79-126	3 b
Thallium	ug/L (ppb)	5	<0.0740	98	96	73-119	2
Lead	ug/L (ppb)	10	<0.144	96	95	79-121	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	104	73-135
Chromium	ug/L (ppb)	20	106	80-119
Nickel	ug/L (ppb)	20	105	79-122
Copper	ug/L (ppb)	20	113	81-119
Zinc	ug/L (ppb)	50	102	76-124
Arsenic	ug/L (ppb)	10	99	80-111
Selenium	ug/L (ppb)	5	103	81-119
Silver	ug/L (ppb)	5	106	80-116
Cadmium	ug/L (ppb)	5	103	83-113
Antimony	ug/L (ppb)	20	102	79-108
Barium	ug/L (ppb)	50	105	83-117
Thallium	ug/L (ppb)	5	102	78-116
Lead	ug/L (ppb)	10	99	83-115

Date of Report: 11/05/13
Date Received: 09/24/13
Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	97	91	73-135	6
Chromium	ug/L (ppb)	20	100	94	80-119	6
Nickel	ug/L (ppb)	20	100	95	79-122	5
Copper	ug/L (ppb)	20	98	95	81-119	3
Zinc	ug/L (ppb)	50	98	93	76-124	5
Arsenic	ug/L (ppb)	10	96	92	80-111	4
Selenium	ug/L (ppb)	5	104	92	81-119	12
Silver	ug/L (ppb)	5	104	99	80-116	5
Cadmium	ug/L (ppb)	5	99	96	83-113	3
Antimony	ug/L (ppb)	20	99	97	79-108	2
Barium	ug/L (ppb)	50	106	101	83-117	5
Thallium	ug/L (ppb)	5	103	103	78-116	0
Lead	ug/L (ppb)	10	100	97	83-115	3

Date of Report: 11/05/13
Date Received: 09/24/13
Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 309420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	96	99	63-132	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	103	78-118

Date of Report: 11/05/13
Date Received: 09/24/13
Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	99	100	78-118	1

Date of Report: 11/05/13
Date Received: 09/24/13
Project: 8th Ave Terminals Inc. Site, Crowley 101.00205.00030, F&BI 309420

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 309420-06 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<9.7	<9.7	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	94	94	61-131	0

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

RE[illegible]
OCT 11 2013

October 9, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 309420
ARI Job No.: XG50

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted nine water samples on September 25, 2013 under ARI job XG50. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile XG50

Enclosures

SAMPLE CHAIN OF CUSTODY

Send Report To Michele Costales Poquiz
Company Friedman & Bruya, Inc.
Address 3012 16th Ave. W.
City, State, ZIP Seattle, WA 98119
Phone # (206) 285-8282 Fax # (206) 283-5044
Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO. 309420

PO # C-557

REMARKS
Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
☒ Standard Turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500			Notes
EMW-12S-092413		9/24/13	0859	water	2									X	X			
EMW-16D-092413			0954											X	X			
CMW-5-092413			0900											X	X			
CMW-3-092413			0951											X	X			
CMW-2-092413			1030											X	X			
HC-4-092413			1155											X	X			
EMW-8S-092413			1221											X	X			
EMW-89S-092413			1300											X	X			
EMW-5S-092413			1335											X	X			

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Michele Costales Poquiz	Michele Costales Poquiz	F&B	9/25/13	11:20AM
Received by:	A. Volgardsen	ARI	9/25/13	1315
Relinquished by:				
Received by:				

FORMS\COC\COC SLRC.DOC

ZBAGO : 6SSX

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Friedman + Bruya

COC No(s): _____ NA

Assigned ARI Job No: X650

Project Name: _____

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Express

Tracking No: 4554707 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 3.3

Time: 1314

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 91077952

Cooler Accepted by: AV Date: 9/25/13 Time: 1315

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	YES	NO
Were all bottles sealed in individual plastic bags?		YES	NO
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA		_____

Was Sample Split by ARI : NA YES Date/Time: _____ Equipment: _____ Split by: _____

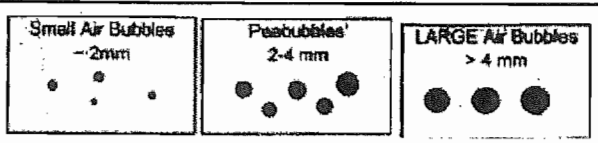
Samples Logged by: _____ Date: 9/25/13 Time: 1344

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: XG50
Client: Friedman & Bruya
Project Event: 309420
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	EMW-12S-092413	XG50A	13-20515	Water	09/24/13 08:59	09/25/13 13:15
2.	EMW-16D-092413	XG50B	13-20516	Water	09/24/13 09:54	09/25/13 13:15
3.	CMW-5-092413	XG50C	13-20517	Water	09/24/13 09:00	09/25/13 13:15
4.	CMW-3-092413	XG50D	13-20518	Water	09/24/13 09:51	09/25/13 13:15
5.	CMW-2-092413	XG50E	13-20519	Water	09/24/13 10:30	09/25/13 13:15
6.	HC-4-092413	XG50F	13-20520	Water	09/24/13 11:55	09/25/13 13:15
7.	EMW-8S-092413	XG50G	13-20521	Water	09/24/13 12:21	09/25/13 13:15
8.	EMW-89S-092413	XG50H	13-20522	Water	09/24/13 13:00	09/25/13 13:15
9.	EMW-5S-092413	XG50I	13-20523	Water	09/24/13 13:35	09/25/13 13:15

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: EMW-12S-092413
ARI ID: 13-20515 XG50A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	5.0	208
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2.0	12.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: EMW-16D-092413
ARI ID: 13-20516 XG50B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	20,800
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2,000	12,600

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: CMW-5-092413
ARI ID: 13-20517 XG50C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	5.0	304
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	20.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: CMW-3-092413
ARI ID: 13-20518 XG50D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	100	10,700
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	8,010

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: CMW-2-092413
ARI ID: 13-20519 XG50E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	200	9,000
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	5,170

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: HC-4-092413
ARI ID: 13-20520 XG50F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	10.0	322
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	17.3

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: EMW-8S-092413
ARI ID: 13-20521 XG50G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	5.0	292
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	8.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: EMW-89S-092413
ARI ID: 13-20522 XG50H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	10.0	354
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2.0	12.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Client ID: EMW-5S-092413
ARI ID: 13-20523 XG50I

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/27/13 092713#1	SM2540C	mg/L	10.0	347
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2.0	13.1

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: XG50A Client ID: EMW-12S-092413							
Chloride	SM4500-CLE	10/04/13	mg/L	12.0	36.2	25.0	96.8%

REPLICATE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: 09/24/13
Date Received: 09/25/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: XG50A Client ID: EMW-12S-092413						
Chloride	SM4500-CLE	10/04/13	mg/L	12.0	11.7	2.5%
ARI ID: XG50B Client ID: EMW-16D-092413						
Total Dissolved Solids	SM2540C	09/27/13	mg/L	20,800	22,400	7.4%

LAB CONTROL RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	09/27/13	mg/L	496	500	99.2%

METHOD BLANK RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	09/27/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/04/13	mg/L	< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
XG50-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309420
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/04/13	mg/L	5.0	5.0	100.0%

309420

SAMPLE CHAIN OF CUSTODY KY 09-24-13

BE4

Page # 1 of 1

Send Report To Mike Staton

Company SLR International Corp

Address 22118 20th Ave SE, G202

City, State, ZIP Bothell, WA, 98021

Phone #425-402-8800 Fax #425-402-8488

SAMPLERS (signature) Amanda M. Mengriot

PROJECT NAME/NO.: 8th Ave Terminals Inc, Site Crowley 101.00205.00030

PO#: 101.00205.00030

REMARKS

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS	Total Priority Pollutant Metals + Ba by 200.8	Total Hg by 1631E	Dissolved Priority Pollutant Metals + Ba by 200.8	Dissolved Hg by 1631E	TSS by E5400	TDS by E5400	Chloride by SM4500	Notes
EMW-12S-092413	01	9/24/13	0859	WATER	6							X	X	X	X	X	X	X	
EMW-16D-092413	02		0954																
CMW-5-092413	03		0900																
CMW-3-092413	04		0951																
CMW-2-092413	05		1030																
HC-4-092413	06		1155																
EMW-8S-092413	07		1221																
EMW-89S-092413	08		1300																
EMW-5S-092413	09	↓	1335	↓	↓							↓	↓	↓	↓	↓	↓	↓	

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Amanda M. Mengriot	Amanda Mengriot	SLR	9/24/13	1502
Received by:	Nhan Phan	FEBI	9/24/13	1502
Relinquished by:				
Received by:			Samples received at 1 °C	

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
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3012 16th Avenue West
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fbi@isomedia.com
www.friedmanandbruya.com

November 5, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on October 1, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013 project. There are 104 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR1105R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 1, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
310013-01	EMW-15D-100113
310013-02	EMW-3S-100113
310013-03	SLR-6-100113
310013-04	HC-20-100113
310013-05	EMW-13S-100113
310013-06	CMW-6-100113
310013-07	EMW-10D-100113
310013-08	EMW-56D-100113
310013-09	EMW-4D-100113
310013-10	CMW-2-100113
310013-11	SLR-7-100113
310013-12	TB-100113

Total Petroleum Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The presence of methylene chloride in the sample EMW-4D-100113 is likely due to laboratory contamination. The result has been flagged accordingly.

The trip blank sample was received with incorrect preservation for the 8260 analysis of vinyl chloride. The result should be considered an estimate.

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for bromomethane. This analyte was not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The calibration result for 4,6-dinitro-2-methylphenol fell outside of acceptance criteria for the samples SLR-6-100113, EMW-10D-100113 and SLR-7-100113. The values reported are estimates.

The presence of bis(2-ethylhexyl) phthalate in the samples and the method blank is likely due to laboratory contamination. The results have been flagged accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the sample SLR-7-100113. The results have been flagged accordingly.

The relative percent difference (RPD) for the LCS/LCSD failed high for 2,4-dimethylphenol and 2,4-dinitrophenol. These analytes were not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D SIM
All quality control requirements were acceptable.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
All quality control requirements were acceptable.

Total Metals by EPA Method 200.8
Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-15D-100113, EMW-3S-100113, EMW-13S-100113, CMW-6-100113, and EMW-4D-100113. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Dissolved Metals by EPA Method 200.8
Arsenic, selenium and copper were not reported. Please see the report issued by Applied Speciation and Consulting (ASC) for results for these analytes.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-15D-100113, EMW-3S-100113, EMW-13S-100113, CMW-6-100113, and EMW-4D-100113. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E
The reporting limit was raised due to potential low level laboratory contamination.

Dissolved Mercury by EPA Method 1631E
The reporting limit was raised due to potential low level laboratory contamination.

Total Suspended Solids by Method 2540D
All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C
The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500
The samples were sent to ARI for analysis. The report generated by ARI is enclosed.

Dissolved Metals by ICP-DRC-MS
The samples were sent to Applied Speciation and Consulting (ASC) for analysis. The report generated by ASC is enclosed.

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013
Date Extracted: 10/07/13
Date Analyzed: 10/07/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
EMW-15D-100113 310013-01	<12	80
EMW-3S-100113 310013-02	<12	79
SLR-6-100113 310013-03	<12	79
HC-20-100113 310013-04	<12	80
EMW-13S-100113 310013-05	<12	79
CMW-6-100113 310013-06	<12	81
EMW-10D-100113 310013-07	<12	78
EMW-56D-100113 310013-08	<12	76
EMW-4D-100113 310013-09	<12	76
CMW-2-100113 310013-10	<12	74
SLR-7-100113 310013-11	<12	76
Method Blank 03-1960 MB	<12	76

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013
Date Extracted: 10/03/13
Date Analyzed: 10/11/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 51-134)
EMW-15D-100113 310013-01	<6.9	<52	100
EMW-3S-100113 310013-02	<6.9	<52	98
SLR-6-100113 310013-03	27 x	210	96
HC-20-100113 310013-04	<6.9	<52	95
EMW-13S-100113 310013-05	<6.9	<52	88
CMW-6-100113 310013-06	<6.9	<52	99
EMW-10D-100113 310013-07	<6.9	<52	97
EMW-56D-100113 310013-08	<6.9	<52	88
EMW-4D-100113 310013-09	<6.9	<52	92
CMW-2-100113 310013-10	<6.9	<52	104
SLR-7-100113 310013-11	<6.9	<52	109
Method Blank 03-1982 MB	<6.9	<52	84

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-01
Date Analyzed:	10/08/13	Data File:	100813.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-02
Date Analyzed:	10/08/13	Data File:	100814.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SLR-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-03
Date Analyzed:	10/08/13	Data File:	100815.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	HC-20-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-04
Date Analyzed:	10/08/13	Data File:	100816.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-05
Date Analyzed:	10/08/13	Data File:	100817.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-06
Date Analyzed:	10/08/13	Data File:	100818.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-10D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-07
Date Analyzed:	10/08/13	Data File:	100819.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-56D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-08
Date Analyzed:	10/08/13	Data File:	100820.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	104	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-09
Date Analyzed:	10/08/13	Data File:	100821.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	3.2 lc	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-2-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-10
Date Analyzed:	10/08/13	Data File:	100822.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SLR-7-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-11
Date Analyzed:	10/08/13	Data File:	100823.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310013-12
Date Analyzed:	10/08/13	Data File:	100824.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	03-1996 mb
Date Analyzed:	10/08/13	Data File:	100812.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-01
Date Analyzed:	10/04/13	Data File:	100414.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	58	32	162
Phenol-d6	37	10	170
Nitrobenzene-d5	104	50	150
2-Fluorobiphenyl	103	43	158
2,4,6-Tribromophenol	136	43	146
Terphenyl-d14	114	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.33 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-02
Date Analyzed:	10/04/13	Data File:	100415.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	63	32	162
Phenol-d6	36	10	170
Nitrobenzene-d5	91	50	150
2-Fluorobiphenyl	90	43	158
2,4,6-Tribromophenol	117	43	146
Terphenyl-d14	119	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.25 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-03
Date Analyzed:	10/07/13	Data File:	100712.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	57	32	162
Phenol-d6	32	10	170
Nitrobenzene-d5	91	50	150
2-Fluorobiphenyl	91	43	158
2,4,6-Tribromophenol	108	43	146
Terphenyl-d14	109	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	0.13
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38 ca
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.36 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	HC-20-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-04
Date Analyzed:	10/04/13	Data File:	100417.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	58	32	162
Phenol-d6	37	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	94	43	158
2,4,6-Tribromophenol	128	43	146
Terphenyl-d14	118	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.40 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-05
Date Analyzed:	10/04/13	Data File:	100423.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	48	32	162
Phenol-d6	36	10	170
Nitrobenzene-d5	101	50	150
2-Fluorobiphenyl	103	43	158
2,4,6-Tribromophenol	99	43	146
Terphenyl-d14	115	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.57	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	0.43
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	0.45
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.41 fb
2-Methylnaphthalene	0.18	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-06
Date Analyzed:	10/04/13	Data File:	100418.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	63	32	162
Phenol-d6	43	10	170
Nitrobenzene-d5	104	50	150
2-Fluorobiphenyl	106	43	158
2,4,6-Tribromophenol	116	43	146
Terphenyl-d14	121	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.18	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.42 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-10D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-07
Date Analyzed:	10/07/13	Data File:	100713.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	60	32	162
Phenol-d6	38	10	170
Nitrobenzene-d5	95	50	150
2-Fluorobiphenyl	97	43	158
2,4,6-Tribromophenol	127	43	146
Terphenyl-d14	127	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38 ca
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.30 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-56D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-08
Date Analyzed:	10/04/13	Data File:	100420.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	62	32	162
Phenol-d6	39	10	170
Nitrobenzene-d5	100	50	150
2-Fluorobiphenyl	103	43	158
2,4,6-Tribromophenol	137	43	146
Terphenyl-d14	139	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.31 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-09
Date Analyzed:	10/04/13	Data File:	100421.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	32	162
Phenol-d6	34	10	170
Nitrobenzene-d5	84	50	150
2-Fluorobiphenyl	90	43	158
2,4,6-Tribromophenol	121	43	146
Terphenyl-d14	106	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.27	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.36 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-2-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-10
Date Analyzed:	10/04/13	Data File:	100424.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	63	32	162
Phenol-d6	38	10	170
Nitrobenzene-d5	93	50	150
2-Fluorobiphenyl	95	43	158
2,4,6-Tribromophenol	123	43	146
Terphenyl-d14	140	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.24	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	0.070
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.52 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-7-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-11
Date Analyzed:	10/07/13	Data File:	100708.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	68	32	162
Phenol-d6	35	10	170
Nitrobenzene-d5	103	50	150
2-Fluorobiphenyl	113	43	158
2,4,6-Tribromophenol	115	43	146
Terphenyl-d14	139 J	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.26	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38 ca
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086 J
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.31 J fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	03-1980 mb
Date Analyzed:	10/04/13	Data File:	100407.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	32	162
Phenol-d6	30	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	100	43	158
2,4,6-Tribromophenol	118	43	146
Terphenyl-d14	119	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.19 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-01
Date Analyzed:	10/04/13	Data File:	100419.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	115	50	150
Benzo(a)anthracene-d12	119	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0074
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	0.0047
Pyrene	0.0054
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-02
Date Analyzed:	10/04/13	Data File:	100420.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	104	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0061
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	0.0037
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-03
Date Analyzed:	10/04/13	Data File:	100421.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	108	50	150
Benzo(a)anthracene-d12	117	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0040
Acenaphthylene	0.0051
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	0.0053
Pyrene	0.0061
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	HC-20-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-04
Date Analyzed:	10/04/13	Data File:	100422.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	100	50	150
Benzo(a)anthracene-d12	106	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0065
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	0.0073
Pyrene	0.0065
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-05
Date Analyzed:	10/05/13	Data File:	100429.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	107	50	150
Benzo(a)anthracene-d12	111	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.62
Acenaphthylene	0.011
Acenaphthene	0.82
Fluorene	0.57
Phenanthrene	0.62
Anthracene	0.21
Fluoranthene	0.24
Pyrene	0.13
Benz(a)anthracene	0.017
Chrysene	0.025
Benzo(a)pyrene	0.012
Benzo(b)fluoranthene	0.018
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	0.0081
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	0.0082

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-06
Date Analyzed:	10/04/13	Data File:	100423.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	112	50	150
Benzo(a)anthracene-d12	116	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0050
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0052
Fluoranthene	0.0056
Pyrene	0.0066
Benz(a)anthracene	0.0045
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-10D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-07
Date Analyzed:	10/04/13	Data File:	100424.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	110	50	150
Benzo(a)anthracene-d12	115	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.010
Acenaphthylene	<0.0024
Acenaphthene	1.8
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-56D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-08
Date Analyzed:	10/04/13	Data File:	100425.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	113	50	150
Benzo(a)anthracene-d12	115	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.010
Acenaphthylene	<0.0024
Acenaphthene	1.9
Fluorene	0.0052
Phenanthrene	0.0068
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-09
Date Analyzed:	10/05/13	Data File:	100426.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	103	50	150
Benzo(a)anthracene-d12	105	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	0.0048
Pyrene	0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-2-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-10
Date Analyzed:	10/05/13	Data File:	100428.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	105	50	150
Benzo(a)anthracene-d12	116	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	0.0033
Acenaphthene	0.013
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0063
Fluoranthene	0.0072
Pyrene	0.0076
Benz(a)anthracene	0.0057
Chrysene	0.0098
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	0.0079
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	0.0093

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-7-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	310013-11
Date Analyzed:	10/05/13	Data File:	100427.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	119	50	150
Benzo(a)anthracene-d12	125	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	03-1981 mb
Date Analyzed:	10/04/13	Data File:	100403.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	109	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-01 1/0.25
Date Analyzed:	10/18/13	Data File:	101762.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	79	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-02 1/0.25
Date Analyzed:	10/18/13	Data File:	101764.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	155	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	SLR-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-03 1/0.25
Date Analyzed:	10/18/13	Data File:	101766.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	96	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	HC-20-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-04 1/0.25
Date Analyzed:	10/18/13	Data File:	101768.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	104	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-05 1/0.25
Date Analyzed:	10/18/13	Data File:	101770.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-06 1/0.25
Date Analyzed:	10/18/13	Data File:	101772.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	91	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-10D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-07 1/0.25
Date Analyzed:	10/18/13	Data File:	101774.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-56D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-08 1/0.25
Date Analyzed:	10/18/13	Data File:	101776.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	101	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-09 1/0.25
Date Analyzed:	10/18/13	Data File:	101778A.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	86	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-2-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-10 1/0.25
Date Analyzed:	10/18/13	Data File:	101780.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	93	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	SLR-7-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	310013-11 1/0.25
Date Analyzed:	10/18/13	Data File:	101782.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	80	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	03-1990 mb 1/0.25
Date Analyzed:	10/17/13	Data File:	101664.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	115	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-01
Date Analyzed:	10/10/13	Data File:	310013-01.080
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	71	60	125
Indium	59 vo	60	125
Holmium	61	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.0850 J
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-01 x10
Date Analyzed:	10/10/13	Data File:	310013-01 x10.055
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	87	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.38
Nickel	<4.60
Copper	5.18
Zinc	<6.00
Arsenic	11.5 ip
Selenium	47.3 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	76.4
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-02
Date Analyzed:	10/10/13	Data File:	310013-02.084
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	63	60	125
Indium	55 vo	60	125
Holmium	57 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-02 x10
Date Analyzed:	10/10/13	Data File:	310013-02 x10.056
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	86	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.61
Nickel	7.03
Copper	8.00
Zinc	47.0
Arsenic	14.0 ip
Selenium	53.9 ip
Silver	<0.640
Cadmium	<0.940
Antimony	0.810
Barium	157
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-03
Date Analyzed:	10/10/13	Data File:	310013-03.075
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	93	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.826
Nickel	1.04
Copper	3.85
Zinc	14.5
Arsenic	0.872 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.763
Barium	21.1
Thallium	<0.0740
Lead	1.20

Analysis For Total Metals By EPA Method 200.8

Client ID:	HC-20-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-04
Date Analyzed:	10/10/13	Data File:	310013-04.077
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	91	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.43
Nickel	1.07
Copper	<0.340
Zinc	4.24
Arsenic	17.9 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.335
Barium	20.6
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-05
Date Analyzed:	10/10/13	Data File:	310013-05.087
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	55 vo	60	125
Indium	51 vo	60	125
Holmium	55 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	1.06 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-05 x10
Date Analyzed:	10/10/13	Data File:	310013-05 x10.059
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	85	60	125
Holmium	87	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.63
Nickel	4.77
Copper	10.7
Zinc	<6.00
Arsenic	289 ip
Selenium	61.6 ip
Silver	<0.640
Cadmium	<0.940
Antimony	19.6
Barium	250
Thallium	<0.740
Lead	<1.44

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-06
Date Analyzed:	10/10/13	Data File:	310013-06.086
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	57 vo	60	125
Indium	52 vo	60	125
Holmium	55 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-06 x10
Date Analyzed:	10/10/13	Data File:	310013-06 x10.061
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	85	60	125
Indium	83	60	125
Holmium	86	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.98
Nickel	4.86
Copper	18.9
Zinc	29.7
Arsenic	71.7 ip
Selenium	64.8 ip
Silver	<0.640
Cadmium	<0.940
Antimony	29.5
Barium	94.9
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-10D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-07
Date Analyzed:	10/10/13	Data File:	310013-07.078
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	68	60	125
Holmium	69	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.940
Nickel	1.66
Copper	0.388
Zinc	<0.600
Arsenic	7.23 ip
Selenium	28.9 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	93.0
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-56D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-08
Date Analyzed:	10/10/13	Data File:	310013-08.079
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	67	60	125
Holmium	67	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.03
Nickel	1.65
Copper	0.356
Zinc	<0.600
Arsenic	7.48 ip
Selenium	30.1 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	90.9
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-09
Date Analyzed:	10/10/13	Data File:	310013-09.083
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	71	60	125
Indium	56 vo	60	125
Holmium	57 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.133 J
Thallium	<0.074 J
Lead	0.440 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-09 x10
Date Analyzed:	10/10/13	Data File:	310013-09 x10.064
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	86	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.64
Nickel	<4.60
Copper	5.10
Zinc	<6.00
Arsenic	11.4 ip
Selenium	44.2 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	154
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-2-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-10
Date Analyzed:	10/10/13	Data File:	310013-10.085
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	77	60	125
Indium	72	60	125
Holmium	78	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.64
Nickel	1.76
Copper	3.50
Zinc	5.20
Arsenic	46.5 ip
Selenium	19.4 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	7.00
Barium	59.7
Thallium	<0.0740
Lead	1.04

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-7-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-11
Date Analyzed:	10/10/13	Data File:	310013-11.076
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	94	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.275
Nickel	3.29
Copper	0.683
Zinc	5.95
Arsenic	2.30 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.107
Barium	13.5
Thallium	<0.0740
Lead	<0.144

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ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	I3-646 mb
Date Analyzed:	10/10/13	Data File:	I3-646 mb.011
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	100	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-01
Date Analyzed:	10/09/13	Data File:	310013-01.080
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	69	60	125
Indium	55 vo	60	125
Holmium	60	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.216 J
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-15D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-01 x10
Date Analyzed:	10/09/13	Data File:	310013-01 x10.023
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	92	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.63
Nickel	<4.60
Zinc	7.24
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	76.4
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-02
Date Analyzed:	10/09/13	Data File:	310013-02.081
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	60	60	125
Indium	50 vo	60	125
Holmium	57 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-3S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-02 x10
Date Analyzed:	10/09/13	Data File:	310013-02 x10.024
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	92	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.66
Nickel	5.99
Zinc	105
Silver	<0.640
Cadmium	<0.940
Antimony	0.610
Barium	162
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-03
Date Analyzed:	10/09/13	Data File:	310013-03.067
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	104	60	125
Holmium	108	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.423
Nickel	0.703
Zinc	7.41
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.794
Barium	14.2
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	HC-20-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-04
Date Analyzed:	10/09/13	Data File:	310013-04.082
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	82	60	125
Holmium	87	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.46
Nickel	1.18
Zinc	4.77
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.364
Barium	20.1
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-05
Date Analyzed:	10/09/13	Data File:	310013-05.083
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	52 vo	60	125
Indium	42 vo	60	125
Holmium	49 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-13S-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-05 x10
Date Analyzed:	10/09/13	Data File:	310013-05 x10.027
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	91	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.28
Nickel	5.38
Zinc	<6.00
Silver	<0.640
Cadmium	<0.940
Antimony	23.1
Barium	248
Thallium	<0.740
Lead	<1.44

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ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-06
Date Analyzed:	10/09/13	Data File:	310013-06.085
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	55 vo	60	125
Indium	48 vo	60	125
Holmium	55 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	1.24 J

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ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-6-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-06 x10
Date Analyzed:	10/09/13	Data File:	310013-06 x10.029
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	91	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	4.33
Nickel	6.98
Zinc	29.8
Silver	<0.640
Cadmium	<0.940
Antimony	27.4
Barium	93.3
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-10D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-07
Date Analyzed:	10/09/13	Data File:	310013-07.075
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	65	60	125
Holmium	69	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.03
Nickel	2.09
Zinc	1.11
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0570
Barium	90.4
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-56D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-08
Date Analyzed:	10/09/13	Data File:	310013-08.076
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	66	60	125
Holmium	70	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.11
Nickel	1.97
Zinc	2.91
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0600
Barium	85.5
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-09
Date Analyzed:	10/09/13	Data File:	310013-09.077
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	71	60	125
Indium	54 vo	60	125
Holmium	58 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.117 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-4D-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-09 x10
Date Analyzed:	10/09/13	Data File:	310013-09 x10.032
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	94	60	125
Holmium	101	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.94
Nickel	<4.60
Zinc	<6.00
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	152
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-2-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-10
Date Analyzed:	10/09/13	Data File:	310013-10.084
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	73	60	125
Indium	63	60	125
Holmium	70	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.40
Nickel	2.14
Zinc	3.69
Silver	<0.0640
Cadmium	<0.0940
Antimony	8.18
Barium	76.0
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-7-100113	Client:	SLR International Corp.
Date Received:	10/01/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310013-11
Date Analyzed:	10/09/13	Data File:	310013-11.074
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	90	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.391
Nickel	3.93
Zinc	7.66
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.139
Barium	13.9
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	I3-647 mb
Date Analyzed:	10/09/13	Data File:	I3-647 mb.011
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	97	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Zinc	<0.600
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013
Date Extracted: 10/07/13
Date Analyzed: 10/08/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
EMW-15D-100113 310013-01	<0.0015
EMW-3S-100113 310013-02	<0.0015
SLR-6-100113 310013-03	0.0055
HC-20-100113 310013-04	<0.0015
EMW-13S-100113 310013-05	0.0020
CMW-6-100113 310013-06	0.0033
EMW-10D-100113 310013-07	<0.0015
EMW-56D-100113 310013-08	<0.0015
EMW-4D-100113 310013-09	<0.0015
CMW-2-100113 310013-10	0.0046
SLR-7-100113 310013-11	<0.0015
Method Blank	<0.0015

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013
Date Extracted: 10/07/13
Date Analyzed: 10/08/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
EMW-15D-100113 310013-01	<0.0015
EMW-3S-100113 310013-02	<0.0015
SLR-6-100113 310013-03	<0.0015
HC-20-100113 310013-04	<0.0015
EMW-13S-100113 310013-05	<0.0015
CMW-6-100113 310013-06	0.0030
EMW-10D-100113 310013-07	<0.0015
EMW-56D-100113 310013-08	<0.0015
EMW-4D-100113 310013-09	<0.0015
CMW-2-100113 310013-10	0.0017
SLR-7-100113 310013-11	<0.0015
Method Blank	<0.0015

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013
Date Extracted: NA
Date Analyzed: 10/03/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
EMW-15D-100113 310013-01	19
EMW-3S-100113 310013-02	<9.7
SLR-6-100113 310013-03	<9.7
HC-20-100113 310013-04	<9.7
EMW-13S-100113 310013-05	<9.7
CMW-6-100113 310013-06	<9.7
EMW-10D-100113 310013-07	24
EMW-56D-100113 310013-08	23
EMW-4D-100113 310013-09	48
CMW-2-100113 310013-10	<9.7
SLR-7-100113 310013-11	<9.7
Method Blank	<9.7

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 309543-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	102	69-134

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	500	87	91	58-134	4

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 310013-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	101	55-144
Chloromethane	ug/L (ppb)	50	<0.22	93	67-131
Vinyl chloride	ug/L (ppb)	50	<0.13	98	61-139
Bromomethane	ug/L (ppb)	50	<0.2	231 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	100	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	100	71-128
Acetone	ug/L (ppb)	250	<2.6	86	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	99	71-123
Methylene chloride	ug/L (ppb)	50	<3	107	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	101	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	99	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	99	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	107	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	95	73-119
Chloroform	ug/L (ppb)	50	<0.24	98	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	93	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	100	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	102	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	99	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	107	72-123
Benzene	ug/L (ppb)	50	<0.13	96	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	95	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	100	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	104	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	101	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	120	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	107	76-120
Toluene	ug/L (ppb)	50	<0.13	95	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	108	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	105	81-111
2-Hexanone	ug/L (ppb)	250	<1	109	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	100	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	100	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	108	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	104	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	94	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	99	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	103	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	99	63-128
o-Xylene	ug/L (ppb)	50	<0.22	100	64-129
Styrene	ug/L (ppb)	50	<0.22	101	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	99	76-118
Bromoform	ug/L (ppb)	50	<0.22	111	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	101	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	101	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	102	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	106	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	102	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	99	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	99	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	102	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	100	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	102	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	99	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	95	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	91	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	95	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	108	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	95	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	91	67-120
Naphthalene	ug/L (ppb)	50	<0.28	105	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	93	79-115

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	114	116	54-149	2
Chloromethane	ug/L (ppb)	50	106	109	67-133	3
Vinyl chloride	ug/L (ppb)	50	104	106	73-132	2
Bromomethane	ug/L (ppb)	50	245 vo	261 vo	69-123	6
Chloroethane	ug/L (ppb)	50	103	106	68-126	3
Trichlorofluoromethane	ug/L (ppb)	50	106	108	70-132	2
Acetone	ug/L (ppb)	250	107	98	44-145	9
1,1-Dichloroethene	ug/L (ppb)	50	102	102	75-119	0
Methylene chloride	ug/L (ppb)	50	106	107	63-132	1
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	101	101	70-122	0
trans-1,2-Dichloroethene	ug/L (ppb)	50	100	101	76-118	1
1,1-Dichloroethane	ug/L (ppb)	50	102	104	80-116	2
2,2-Dichloropropane	ug/L (ppb)	50	106	110	62-141	4
cis-1,2-Dichloroethene	ug/L (ppb)	50	98	98	81-111	0
Chloroform	ug/L (ppb)	50	100	102	81-109	2
2-Butanone (MEK)	ug/L (ppb)	250	101	97	53-140	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	102	103	79-109	1
1,1,1-Trichloroethane	ug/L (ppb)	50	104	106	80-116	2
1,1-Dichloropropene	ug/L (ppb)	50	104	106	78-112	2
Carbon tetrachloride	ug/L (ppb)	50	110	112	72-128	2
Benzene	ug/L (ppb)	50	99	100	81-108	1
Trichloroethene	ug/L (ppb)	50	97	99	77-108	2
1,2-Dichloropropane	ug/L (ppb)	50	104	105	82-109	1
Bromodichloromethane	ug/L (ppb)	50	108	109	76-120	1
Dibromomethane	ug/L (ppb)	50	104	104	80-110	0
4-Methyl-2-pentanone	ug/L (ppb)	250	119	117	59-142	2
cis-1,3-Dichloropropene	ug/L (ppb)	50	114	116	76-128	2
Toluene	ug/L (ppb)	50	99	100	83-108	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	116	120	76-128	3
1,1,2-Trichloroethane	ug/L (ppb)	50	108	110	82-110	2
2-Hexanone	ug/L (ppb)	250	109	111	53-145	2
1,3-Dichloropropane	ug/L (ppb)	50	103	106	83-110	3
Tetrachloroethene	ug/L (ppb)	50	103	106	78-109	3
Dibromochloromethane	ug/L (ppb)	50	113	117	63-140	3
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	107	110	85-113	3
Chlorobenzene	ug/L (ppb)	50	97	100	84-108	3
Ethylbenzene	ug/L (ppb)	50	101	104	84-110	3
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	108	112	76-125	4
m,p-Xylene	ug/L (ppb)	100	101	104	84-112	3
o-Xylene	ug/L (ppb)	50	101	105	82-113	4
Styrene	ug/L (ppb)	50	104	108	84-116	4
Isopropylbenzene	ug/L (ppb)	50	102	105	81-122	3
Bromoform	ug/L (ppb)	50	116	120	40-161	3
n-Propylbenzene	ug/L (ppb)	50	103	104	81-115	1
Bromobenzene	ug/L (ppb)	50	102	103	80-113	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	105	106	83-117	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	106	106	79-118	0
1,2,3-Trichloropropane	ug/L (ppb)	50	102	103	74-116	1
2-Chlorotoluene	ug/L (ppb)	50	101	103	79-112	2
4-Chlorotoluene	ug/L (ppb)	50	102	103	81-113	1
tert-Butylbenzene	ug/L (ppb)	50	105	107	81-119	2
1,2,4-Trimethylbenzene	ug/L (ppb)	50	102	104	83-116	2
sec-Butylbenzene	ug/L (ppb)	50	105	106	83-116	1
p-Isopropyltoluene	ug/L (ppb)	50	103	103	82-119	0
1,3-Dichlorobenzene	ug/L (ppb)	50	97	97	83-111	0
1,4-Dichlorobenzene	ug/L (ppb)	50	93	94	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	97	97	83-111	0
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	110	111	62-133	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	97	100	77-117	3
Hexachlorobutadiene	ug/L (ppb)	50	94	95	74-118	1
Naphthalene	ug/L (ppb)	50	106	106	75-131	0
1,2,3-Trichlorobenzene	ug/L (ppb)	50	97	99	82-115	2

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	10	34	40	18-52	16
Bis(2-chloroethyl) ether	ug/L (ppb)	10	87	96	52-113	10
2-Chlorophenol	ug/L (ppb)	10	84	97	50-110	14
1,3-Dichlorobenzene	ug/L (ppb)	10	89	98	45-109	10
1,4-Dichlorobenzene	ug/L (ppb)	10	91	100	44-118	9
1,2-Dichlorobenzene	ug/L (ppb)	10	91	101	46-116	10
Benzyl alcohol	ug/L (ppb)	10	83	92	42-100	10
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	92	100	51-124	8
2-Methylphenol	ug/L (ppb)	10	75	91	38-100	19
Hexachloroethane	ug/L (ppb)	10	89	99	42-117	11
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	90	102	48-124	12
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	69	83	48-87	18
Nitrobenzene	ug/L (ppb)	10	92	100	50-118	8
Isophorone	ug/L (ppb)	10	103	107	55-116	4
2-Nitrophenol	ug/L (ppb)	10	105	113	42-127	7
2,4-Dimethylphenol	ug/L (ppb)	10	66	91	45-100	32 vo
Benzoic acid	ug/L (ppb)	65	27	30	10-46	11
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	98	105	55-115	7
2,4-Dichlorophenol	ug/L (ppb)	10	101	110	55-113	9
1,2,4-Trichlorobenzene	ug/L (ppb)	10	92	99	50-109	7
Hexachlorobutadiene	ug/L (ppb)	10	92	97	50-109	5
4-Chloroaniline	ug/L (ppb)	20	101	101	30-109	0
4-Chloro-3-methylphenol	ug/L (ppb)	10	99	108	54-114	9
2-Methylnaphthalene	ug/L (ppb)	10	97	102	53-113	5
Hexachlorocyclopentadiene	ug/L (ppb)	10	51	58	26-94	13
2,4,6-Trichlorophenol	ug/L (ppb)	10	98	105	46-114	7
2,4,5-Trichlorophenol	ug/L (ppb)	10	100	109	57-122	9
2-Chloronaphthalene	ug/L (ppb)	10	90	98	52-112	9
2-Nitroaniline	ug/L (ppb)	10	113	119	47-128	5
Dimethyl phthalate	ug/L (ppb)	10	111	112	55-116	1
2,6-Dinitrotoluene	ug/L (ppb)	10	118	119	49-126	1
3-Nitroaniline	ug/L (ppb)	20	112	118	21-125	5
2,4-Dinitrophenol	ug/L (ppb)	10	75	96	29-130	25 vo
Dibenzofuran	ug/L (ppb)	10	97	102	53-113	5
2,4-Dinitrotoluene	ug/L (ppb)	10	120	123	48-129	2
4-Nitrophenol	ug/L (ppb)	10	41	49	12-59	18
Diethyl phthalate	ug/L (ppb)	10	111	109	55-116	2
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	98	100	52-115	2
N-Nitrosodiphenylamine	ug/L (ppb)	10	99	104	51-112	5
4-Nitroaniline	ug/L (ppb)	20	103	112	42-115	8
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	83	101	40-128	20
4-Bromophenyl phenyl ether	ug/L (ppb)	10	98	102	53-114	4
Hexachlorobenzene	ug/L (ppb)	10	96	99	54-115	3
Pentachlorophenol	ug/L (ppb)	10	90	103	49-114	13
Carbazole	ug/L (ppb)	10	97	106	54-115	9
Di-n-butyl phthalate	ug/L (ppb)	10	103	108	54-115	5
Benzyl butyl phthalate	ug/L (ppb)	10	112	118	53-122	5
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	112	120	54-122	7
Di-n-octyl phthalate	ug/L (ppb)	10	116	120	50-131	3

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	84	86	67-116	2
Acenaphthylene	ug/L (ppb)	1	88	90	65-119	2
Acenaphthene	ug/L (ppb)	1	87	88	66-118	1
Fluorene	ug/L (ppb)	1	92	93	64-125	1
Phenanthrene	ug/L (ppb)	1	89	90	67-120	1
Anthracene	ug/L (ppb)	1	93	95	65-122	2
Fluoranthene	ug/L (ppb)	1	94	95	65-127	1
Pyrene	ug/L (ppb)	1	94	92	62-130	2
Benz(a)anthracene	ug/L (ppb)	1	90	90	60-118	0
Chrysene	ug/L (ppb)	1	94	96	66-125	2
Benzo(b)fluoranthene	ug/L (ppb)	1	97	99	55-135	2
Benzo(k)fluoranthene	ug/L (ppb)	1	92	102	62-125	10
Benzo(a)pyrene	ug/L (ppb)	1	92	95	58-127	3
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	92	86	36-142	7
Dibenz(a,h)anthracene	ug/L (ppb)	1	80	75	37-133	6
Benzo(g,h,i)perylene	ug/L (ppb)	1	84	79	34-135	6

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	2.5	116	109	70-130	6
Aroclor 1260	ug/L (ppb)	2.5	109	104	70-130	5

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 309543-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	98	96	67-145	2
Chromium	ug/L (ppb)	20	1.26	87	89	64-132	2
Nickel	ug/L (ppb)	20	0.728	84	82	61-128	2
Copper	ug/L (ppb)	20	<0.340	78	79	63-124	1
Zinc	ug/L (ppb)	50	<0.600	88	80	55-141	10
Arsenic	ug/L (ppb)	10	5.31 ip	97 b	92 b	60-150	5 b
Selenium	ug/L (ppb)	5	<0.560 ip	92	93	43-178	1
Silver	ug/L (ppb)	5	<0.0640	81	82	71-115	1
Cadmium	ug/L (ppb)	5	<0.0940	97	97	83-116	0
Antimony	ug/L (ppb)	20	0.0730	96	97	62-125	1
Barium	ug/L (ppb)	50	12.6	103 b	102 b	79-126	1 b
Thallium	ug/L (ppb)	5	<0.0740	97	96	73-119	1
Lead	ug/L (ppb)	10	<0.144	95	92	79-121	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	96	73-135
Chromium	ug/L (ppb)	20	96	80-119
Nickel	ug/L (ppb)	20	97	79-122
Copper	ug/L (ppb)	20	97	81-119
Zinc	ug/L (ppb)	50	96	76-124
Arsenic	ug/L (ppb)	10	92	80-111
Selenium	ug/L (ppb)	5	97	81-119
Silver	ug/L (ppb)	5	85	80-116
Cadmium	ug/L (ppb)	5	95	83-113
Antimony	ug/L (ppb)	20	85	79-108
Barium	ug/L (ppb)	50	96	83-117
Thallium	ug/L (ppb)	5	96	78-116
Lead	ug/L (ppb)	10	95	83-115

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	101	97	73-135	4
Chromium	ug/L (ppb)	20	102	101	80-119	1
Nickel	ug/L (ppb)	20	101	100	79-122	1
Zinc	ug/L (ppb)	50	99	98	76-124	1
Silver	ug/L (ppb)	5	91	88	80-116	3
Cadmium	ug/L (ppb)	5	101	97	83-113	4
Antimony	ug/L (ppb)	20	88	90	79-108	2
Barium	ug/L (ppb)	50	103	99	83-117	4
Thallium	ug/L (ppb)	5	104	102	78-116	2
Lead	ug/L (ppb)	10	102	100	83-115	2

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 309543-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	0.0015	96	93	63-132	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	100	78-118

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	100	102	78-118	2

Date of Report: 11/05/13
Date Received: 10/01/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310013

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 310077-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	16	22	32 a	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
TSS	mg/L	50	105	61-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

October 18, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 310013
ARI Job No.: XI10

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted eleven water samples on October 3, 2013 under ARI job XI10. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile XI10

Enclosures

XTIO

SAMPLE CHAIN OF CUSTODY

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.	PO #
310013	C-570

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
☒ Standard Turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500			Notes
EMW-15D-100113		10/1/13	0749	water	2									X	X			
EMW-~~13S~~ 35S-100113			0914											X	X			
SLR-6-100113			1120											X	X			
HC-20-100113			1311											X	X			
EMW-13S-100113			0756											X	X			
CMW-6-100113			0939											X	X			
EMW-10D-100113			1158											X	X			
EMW-56D-100113			1100											X	X			
EMW-40-100113			0841											X	X			
CMW-2-100113		↓	1056	↓	↓									X	X			
SLR-7-100113		10/1/13	1420	water	2									X	X			

ANALYSES REQUESTED

10/2/13

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Michele Costales Poquiz	F&BI	10/2/13	4:30 PM
Received by:	A. Volgardsen	ARI	10/3/13	1010
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC SLRC.DOC

XT10.000003

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Friedman & Bruya Project Name: _____

COC No(s): _____ (NA) Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Express

Assigned ARI Job No: XJ10 Tracking No: 4512789 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 0.E

Time: 1010

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90877952

Cooler Accepted by: AV Date: 10/3/13 Time: 1010

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap Wet Ice (Gel Packs) Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

Samples Logged by: TC Date: 10-3-13 Time: 1100

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: XI10
Client: Friedman & Bruya
Project Event: 310013
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	EMW-15D-10013	XI10A	13-21343	Water	10/01/13 07:49	10/03/13 10:10
2.	EMW-3S-10013	XI10B	13-21344	Water	10/01/13 09:14	10/03/13 10:10
3.	SLR-6-1001113	XI10C	13-21345	Water	10/01/13 11:20	10/03/13 10:10
4.	HC-20-100113	XI10D	13-21346	Water	10/01/13 13:11	10/03/13 10:10
5.	EMW-13S-100113	XI10E	13-21347	Water	10/01/13 07:56	10/03/13 10:10
6.	CMW-6-100113	XI10F	13-21348	Water	10/01/13 09:39	10/03/13 10:10
7.	EMW-10D-100113	XI10G	13-21349	Water	10/01/13 11:58	10/03/13 10:10
8.	EMW-56D-100113	XI10H	13-21350	Water	10/01/13 11:00	10/03/13 10:10
9.	EMW-4D-100113	XI10I	13-21351	Water	10/01/13 08:41	10/03/13 10:10
10.	CMW-2-100113	XI10J	13-21352	Water	10/01/13 10:56	10/03/13 10:10
11.	SLR-7-100113	XI10K	13-21353	Water	10/01/13 14:20	10/03/13 10:10

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: EMW-15D-10013
ARI ID: 13-21343 XI10A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	7,560
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	4,220

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: EMW-3S-10013
ARI ID: 13-21344 XI10B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	9,580
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	5,080

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: SLR-6-1001113
ARI ID: 13-21345 XI10C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	46.0
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	5.5

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: HC-20-100113
ARI ID: 13-21346 XI10D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	198
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	5.7

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: EMW-13S-100113
ARI ID: 13-21347 XI10E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	10,700
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1,000	6,100

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: CMW-6-100113
ARI ID: 13-21348 XI10F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	9,640
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1,000	5,650

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: EMW-10D-100113
ARI ID: 13-21349 XI10G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	100	4,450
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	500	2,370

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: EMW-56D-100113
ARI ID: 13-21350 XI10H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	4,100
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	500	2,370

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: EMW-4D-100113
ARI ID: 13-21351 XI10I

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	6,300
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1,000	3,760

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: CMW-2-100113
ARI ID: 13-21352 XI10J

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	50.0	3,220
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	500	1,630

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: 10/01/13
Date Received: 10/03/13

Client ID: SLR-7-100113
ARI ID: 13-21353 XI10K

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	244
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1.0	6.1

RL Analytical reporting limit
U Undetected at reported detection limit

LAB CONTROL RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	10/07/13	mg/L	485	500	97.0%

METHOD BLANK RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	10/07/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/04/13	mg/L	< 1.0 U	FB
		10/08/13		< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
XI10-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310013
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride	SM4500-CLE	10/04/13	mg/L	5.0	5.0	100.0%
ERA #411010		10/08/13		4.9	5.0	98.0%

APPLIED SPECIATION AND CONSULTING, LLC

18804 Northcreek Parkway Bothell, WA, 98011
Tel: (425) 483-3300 Fax: (425) 483-9818
www.appliedspeciation.com

November 5, 2013

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

Project Name: 310013

Ms Poquiz,

Attached is the report associated with eleven (11) aqueous samples submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received on the same day, October 16, 2013, in a sealed cooler at 4.2°C. Dissolved metals analyses were performed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS). Any analytical issues associated with the analyses are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC

Report prepared for:

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Project Name: 310013

November 5, 2013

1. Sample Reception

Eleven (11) aqueous samples were submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received in acceptable condition on the same day, October 16, 2013, in a sealed container at 4.2°C.

The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. The pH values of the samples were checked upon sample reception to confirm the adequacy of sample preservation.

The samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. The samples were stored in a secure enclosed container, known to be free from trace metals contamination, until the digestion and analysis could be performed.

The sample ID listed on the container for the client sample EMW-3S-10013 did not match the sample ID provided on the accompanying chain-of-custody (COC) form. The sample container read EMW-3S-10113. All other descriptive parameters on the sample container agreed with those provided on the associated COC.

The date suffix for the client sample EMW-10D-100113 was missing from the sample ID on the sample container. All other descriptive parameters on the sample container agreed with those provided on the associated COC.

The sample container/COC form agreement issues described above were documented on the associated COC forms by sample reception staff at Applied Speciation and Consulting. In each case the sample was logged into the system under the sample ID/descriptive parameter provided on the COC.

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. All preserved samples were digested in accordance with EPA Method 200.8 on October 18, 2013. The samples were digested in two batches, TM1 and TM2. All sample digests were then analyzed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS).

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases associated with the analytical platform.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimum interval of every ten analytical runs.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS All sample digests for batch TM1 dissolved arsenic, copper, and selenium analysis were analyzed by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS) on October 22, 2013. All sample digests associated with batch TM2 were analyzed on November 1, 2013, using the same analytical platform. Aliquots of each sample are introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with interfering ions of the same target mass to charge ratios (m/z). A solid-state detector detects ions transmitted through the mass analyzer, on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

4. Analytical Issues

The overall analyses went well and no significant analytical issues were encountered. All quality control parameters associated with these samples were within acceptance limits.

The estimated method detection limits (eMDL) for dissolved metals have been calculated using the standard deviation of the preparation blanks preserved and analyzed concurrently with the submitted samples.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013 Date Received: 10/16/2013

Client Sample ID
EMW-15D-100113

Laboratory Sample ID
EMW-15D-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	1.02
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.410
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.092 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013 Date Received: 10/16/2013

Client Sample ID
EMW-3S-10013

Laboratory Sample ID
EMW-35-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	0.955
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.610
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.047 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013 Date Received: 10/16/2013

Client Sample ID
SLR-6-100113

Laboratory Sample ID
SLR-6-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	0.499
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	2.85
Diss Se	EPA 200.8	TM1	5	0.039	0.20	< 0.039 U

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013 Date Received: 10/16/2013

Client Sample ID
HC-20-100113

Laboratory Sample ID
HC-20-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	19.7
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.415
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.090 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013 Date Received: 10/16/2013

Client Sample ID
EMW-13S-100113

Laboratory Sample ID
EMW-13S-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	283
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	3.79
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.123 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013 Date Received: 10/16/2013

Client Sample ID
CMW-6-100113

Laboratory Sample ID
CMW-6-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	57.7
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	12.9
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.218

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013 Date Received: 10/16/2013

Client Sample ID
EMW-10D-100113

Laboratory Sample ID
EMW-10D-100113 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	0.520
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.442
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.122 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	Batch ID	PBW-1	PBW-2	PBW-3	PBW-4	Mean	StdDev	eMDL*	eMDL 5x	Sample RL
Diss As	TM1	0.011	0.011	0.002	-0.001	0.006	0.006	0.004	0.018	0.20
Diss Cu	TM1	0.058	0.071	0.068	0.104	0.075	0.020	0.012	0.060	0.20
Diss Se	TM1	-0.002	-0.027	0.002	-0.010	-0.009	0.013	0.008	0.039	0.20

eMDL = Estimated Method Detection Limit
* Please see narrative regarding eMDL calculations

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Certified Reference Material

Analyte (µg/L)	Batch ID	LCS	True Value	Result	Recovery
Total As	TM1	LCS	400.0	400.1	100.0
Total As	TM1	TMDA-70	40.7	42.8	105.2
Total Cu	TM1	LCS	400.0	416.8	104.2
Total Cu	TM1	TMDA-70	399	414	103.8
Total Se	TM1	LCS	400.0	404.2	101.1
Total Se	TM1	TMDA-70	25.9	25.5	98.5

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Batch ID	Rep 1	Rep 2	Mean	RPD
Diss As	EMW-10D-100113	TM1	0.520	0.510	0.515	2.0
Diss Cu	EMW-10D-100113	TM1	0.442	0.451	0.447	2.1
Diss Se	EMW-10D-100113	TM1	0.122 J	0.117 J	0.119	4.7

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Batch ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
Diss As	EMW-10D-100113	TM1	400.0	414.5	103.5	400.0	430.0	107.4	3.7
Diss Cu	EMW-10D-100113	TM1	400.0	358.9	89.6	400.0	379.6	94.8	5.6
Diss Se	EMW-10D-100113	TM1	400.0	396.9	99.2	400.0	428.5	107.1	7.6

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013 Date Received: 10/16/2013

Client Sample ID
EMW-56D-100113

Laboratory Sample ID
EMW-56D-100113

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	0.634
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.44
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013 Date Received: 10/16/2013

Client Sample ID
EMW-4D-100113

Laboratory Sample ID
EMW-4D-100113

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	1.36
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.41
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013 Date Received: 10/16/2013

Client Sample ID
CMW-2-100113

Laboratory Sample ID
CMW-2-100113

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	61.3
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	1.84
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.127 J

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/1/2013 Date Received: 10/16/2013

Client Sample ID
SLR-7-100113

Laboratory Sample ID
SLR-7-100113

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	2.32
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.74
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	Batch ID	PBW-1	PBW-2	PBW-3	PBW-4	Mean	StdDev	eMDL*	eMDL 5x	Sample RL
Diss As	TM2	0.013	0.012	0.011	0.005	0.010	0.003	0.002	0.010	0.20
Diss Cu	TM2	0.02	0.12	0.00	-0.02	0.03	0.06	0.04	0.18	0.20
Diss Se	TM2	-0.058	-0.042	-0.025	-0.002	-0.032	0.024	0.014	0.072	0.20

eMDL = Estimated Method Detection Limit
* Please see narrative regarding eMDL calculations

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Certified Reference Material

Analyte (µg/L)	Batch ID	LCS	True Value	Result	Recovery
Total As	TM2	LCS	400.0	370.3	92.6
Total As	TM2	TMDA-70	40.7	38.7	95.0
Total Cu	TM2	LCS	400.0	395.4	98.9
Total Cu	TM2	TMDA-70	399	388	97.3
Total Se	TM2	LCS	400.0	375.7	93.9
Total Se	TM2	TMDA-70	25.9	23.6	91.0

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Batch ID	Rep 1	Rep 2	Mean	RPD
Diss As	Batch QC	TM2	5.444	5.524	5.484	1.5
Diss Cu	Batch QC	TM2	0.33	0.29	0.31	12.4
Diss Se	Batch QC	TM2	< 0.072 U	< 0.072 U	NC	NC

NC = Not calculated due to one or more values below the eMDL

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Batch ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
Diss As	Batch QC	TM2	400.0	375.7	92.6	400.0	431.3	106.4	13.8
Diss Cu	Batch QC	TM2	400.0	353.3	88.2	400.0	410.6	102.6	15.0
Diss Se	Batch QC	TM2	400.0	371.4	92.8	400.0	424.3	106.1	13.3

SAMPLE CHAIN OF CUSTODY

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR ~~Analytical Resources, Inc. (ARI)~~ Applied Speciation 10/16/13

PROJECT NAME/NO.: 310013

PO #: C-595

REMARKS: Please e-mail results

~~ELECTRONIC DATA REQUESTED (EIM)~~ 10/16/13

TURNAROUND TIME
- [X] Standard Turnaround
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [X] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Samples Received at ____ °C

	Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500	Dissolved As, Se, Cu by 1CP-DRC-MS		Notes
	EMW-15D-100113		10/1/13	0749	water	1											X		PQLs needed
(1)	EMW-3S-10013			0914													X		As 0.150 ppb
	SLR-6-100113			1120													X		Se 0.554 ppb
	HC-20-100113			1311													X		Cu 0.336 ppb
	EMW-13S-100113			0756													X		
	CMW-6-100113			0939													X		All samples
(2)	EMW-~~56~~10D-100113 10/16/13			1158													X		were field
	EMW-56D-100113			1100													X		filtered 2x
	EMW-4D-100113			0841													X		
	CMW-2-100113			1056													X		
	SLR-7-100113			1420													X		

ANALYSES REQUESTED

	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Michele Costales Poquiz	Michele Costales Poquiz	F&B1	10/16/13	10:35 AM
Received by:		Jacki Ford	ASC 4.2°C	10/16/13	1600
Relinquished by:					
Received by:					

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC SLRC.DOC

(1) sample ID reads "EMW-3S-10113" upon receipt
(2) suffix "100113" is missing from bottles sample ID but prefix and time are present upon receipt

310013

SAMPLE CHAIN OF CUSTODY

KJ 10/01/13 BI 4/14/14 AOS

Page # 1 of 2

Send Report To Mike Staton
Company SLR International Corp
Address 22118 20th Ave SE, G202
City, State, ZIP Bothell, WA, 98021
Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature) Amanda M.

PROJECT NAME/NO.: 8th Ave Terminals, Inc. Site Crowley 101.00205.00030
PO#: 101.00205.00030

REMARKS: NWTPH-Dx for DRO + HO after silica gel cleanup. Please submit samples for ICP-DRC-MS as soon as possible.

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

per Amanda M. via 10/2/13

✓ = added per Mike Staton via 10/16/13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	Total Priority Pollutant Metals + Ba by 200.8	Total Hg by 1631E	Dissolved Priority Pollutant Metals + Ba by 200.8	Dissolved Hg by 1631E	PAHs by 8270D SIM	PCBs by 8082A	TSS by 2540D	TDS by 2540C	Chloride by SM4500	Dissolved As, Ba, Cr, Fe, Mn, Se by ICP-DRC-MS per Amanda M. via 10/14/13	Notes
EMW-15D-100113	02 A-W	10/1/13	0749	WATER	23	X	X		X	X		X	X	X	X	X	X	X	X	X	~~HOLD~~ ✓	
EMW-~~15~~ 3S-100113	02 A-U		0914		21																✓	
SLR-6-100113	03		1120																		✓	
HC-20-100113	04		1311																		✓	
EMW-13S-100113	05 A-W		0756		23																~~HOLD~~	
CMW-6-100113	06 A-U		0939		21																✓	
EMW-10D-100113	07 A-W		1158		23																~~HOLD~~ ✓	
EMW-5&D-100113	08 A-U		1100		21																✓	
EMW-4D-100113	09		0841																		✓	
CMW-2-100113	10		1056																		✓	

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Amanda M.	Amanda Mengniot	SLR	10/1/13	1559
Received by: Nhan Pham	Nhan Pham	FEB I	10/1/13	1559
Relinquished by:				
Received by:		Samples received at 2 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

310013

SAMPLE CHAIN OF CUSTODY

KJ 10/01/13 BIG/UG/AOS

Page # 2 of 2

Send Report To Mike Staton
Company SLR International Corp
Address 22118 20th Ave SE, G202
City, State, ZIP Bothell, WA, 98021
Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature) Amanda M. Mengnior

PROJECT NAME/NO.: 8th Ave Terminals, Inc site Crowley 101.00205.00030

PO#: 101.00205.00030

REMARKS: NWTPH-Dx for DRO + HO after silica gel cleanup

TURNAROUND TIME
☒ Standard (2 Weeks)
☐ RUSH
Rush charges authorized by

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	Total Priority Pollutant Metals by 200.8	Total Hg by 1631E	Dissolved Priority Pollutant Metals by 200.8	Dissolved Hg by 1631E	PAHs by 8270D SIM	PCBs by 8082A	TSS by 2540D	TDS by 2540C	Chloride by SM4500	Notes: Dissolved As, Se, Cu by ICP-MS
SLR-7-100113	11 A-U	10/1/13	1420	WATER	21	X	X		X	X		X	X	X	X	X	X	X	X	X	
TB-100113	12 A-B	10/1/13	1420	WATER	2				X												

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengnior	SLR	10/1/13	1559
Received by:	Nhan Phan	FEB I	10/1/13	1559
Relinquished by:				
Received by:		Samples received at 2 °C		

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Seattle, WA 98119-2029
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
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Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
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(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 6, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on October 2, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050 project. There are 81 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR1106R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 2, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
310050-01	EMW-16D-100213
310050-02	EMW-6S-100213
310050-03	EMW-7S-100213
310050-04	CMW-1-100213
310050-05	SLR-2-100213
310050-06	DMW-6-100213
310050-07	CMW-7-100213
310050-08	EMW-5S-100213
310050-09	TB-100213

Total Petroleum Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

The percent recovery for the surrogate exceeded acceptance criteria for the sample SLR-2-100213. The sample was non-detect, therefore the results are valid.

Volatile Compounds by EPA Method 8260C

The presence of methylene chloride in the sample EMW-6S-100213 is likely due to laboratory contamination. The result has been flagged accordingly.

The trip blank sample was received with incorrect preservation for the 8260 analysis of vinyl chloride. The result should be considered an estimate.

The percent recovery for the matrix spike (MS), matrix spike duplicate (MSD), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for bromomethane. This analyte was not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The presence of bis(2-ethylhexyl) phthalate in the samples and the method blank is likely due to laboratory contamination. The results have been flagged accordingly.

The calibration result for bis(2-ethylhexyl) phthalate fell outside of acceptance criteria for the samples EMW-6S-100213, SLR-2-100213, DMW-6-100213, CMW-7-100213, and EMW-5S-100213. The values reported are estimates.

Semivolatile Organic Compounds by EPA Method 8270D SIM
The sample DMW-6-100213 was diluted due to matrix interferences. The reporting limits have been raised accordingly.

A surrogate recovery failed high for the method blank. The sample was non-detect, therefore the results are valid.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
All quality control requirements were acceptable.

Total Metals by EPA Method 200.8
Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The reporting limit for arsenic was raised due to potential low level laboratory contamination.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-16D-100213 and CMW-1-100213. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

The percent recovery for the MS and/or MSD exceeded acceptance criteria for beryllium, silver and cadmium. In addition, the RPD for the MS/MSD exceeded acceptance criteria for cadmium. The results have been flagged accordingly.

Dissolved Metals by EPA Method 200.8
Arsenic, selenium and copper were not reported. Please see the report issued by Applied Speciation and Consulting (ASC) for results for these analytes.

The internal standard associated with several analytes exceeded acceptance criteria for the samples EMW-16D-100213 and CMW-1-100213. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E
The reporting limit was raised due to potential low level laboratory contamination.

Dissolved Mercury by EPA Method 1631E
The reporting limit was raised due to potential low level laboratory contamination.

Total Suspended Solids by Method 2540D
All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C
The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500
The samples were sent to ARI for analysis. The report generated by ARI is enclosed.

Dissolved Metals by ICP-DRC-MS
The samples were sent to Applied Speciation and Consulting (ASC) for analysis. The report generated by ASC is enclosed.

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050
Date Extracted: 10/08/13
Date Analyzed: 10/08/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
EMW-16D-100213 310050-01	<12	77
EMW-6S-100213 310050-02	<12	79
EMW-7S-100213 310050-03	<12	76
CMW-1-100213 310050-04	<12	77
SLR-2-100213 310050-05	<12	77
DMW-6-100213 310050-06	<12	76
CMW-7-100213 310050-07	<12	77
EMW-5S-100213 310050-08	<12	77
Method Blank 03-1962 MB	<12	77

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050
Date Extracted: 10/07/13
Date Analyzed: 10/11/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 51-134)
EMW-16D-100213 310050-01	<6.9	<52	97
EMW-6S-100213 310050-02	<6.9	<52	102
EMW-7S-100213 310050-03	<6.9	<52	104
CMW-1-100213 310050-04	<6.9	<52	89
SLR-2-100213 310050-05	<6.9	<52	193 vo
DMW-6-100213 310050-06	<6.9	<52	96
CMW-7-100213 310050-07	<6.9	<52	96
EMW-5S-100213 310050-08	<6.9	<52	105
Method Blank 03-2026 MB	<6.9	<52	94

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-01
Date Analyzed:	10/08/13	Data File:	100745.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-6S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-02
Date Analyzed:	10/08/13	Data File:	100746.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	13 lc	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	6.8 lc	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-7S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-03
Date Analyzed:	10/08/13	Data File:	100747.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-04
Date Analyzed:	10/08/13	Data File:	100748.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	0.18	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SLR-2-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-05
Date Analyzed:	10/08/13	Data File:	100749.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-06
Date Analyzed:	10/08/13	Data File:	100750.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-7-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-07
Date Analyzed:	10/08/13	Data File:	100751.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-5S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-08
Date Analyzed:	10/08/13	Data File:	100752.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	0.25	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-09
Date Analyzed:	10/08/13	Data File:	100744.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	03-1992 mb
Date Analyzed:	10/07/13	Data File:	100726.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-01
Date Analyzed:	10/09/13	Data File:	100910.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49	32	162
Phenol-d6	30	10	170
Nitrobenzene-d5	90	50	150
2-Fluorobiphenyl	89	43	158
2,4,6-Tribromophenol	86	43	146
Terphenyl-d14	106	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.19 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-6S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-02
Date Analyzed:	10/08/13	Data File:	100813.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	32	162
Phenol-d6	25	10	170
Nitrobenzene-d5	81	50	150
2-Fluorobiphenyl	87	43	158
2,4,6-Tribromophenol	116	43	146
Terphenyl-d14	132	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.19 fb ca
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-7S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-03
Date Analyzed:	10/09/13	Data File:	100911.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	50	32	162
Phenol-d6	34	10	170
Nitrobenzene-d5	95	50	150
2-Fluorobiphenyl	90	43	158
2,4,6-Tribromophenol	118	43	146
Terphenyl-d14	95	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.24 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-04
Date Analyzed:	10/09/13	Data File:	100912.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	52	32	162
Phenol-d6	26	10	170
Nitrobenzene-d5	84	50	150
2-Fluorobiphenyl	85	43	158
2,4,6-Tribromophenol	89	43	146
Terphenyl-d14	98	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.41 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-2-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-05
Date Analyzed:	10/08/13	Data File:	100816.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	42	32	162
Phenol-d6	22	10	170
Nitrobenzene-d5	87	50	150
2-Fluorobiphenyl	91	43	158
2,4,6-Tribromophenol	103	43	146
Terphenyl-d14	103	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	0.14
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.23 fb ca
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-06
Date Analyzed:	10/08/13	Data File:	100817.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	46	32	162
Phenol-d6	30	10	170
Nitrobenzene-d5	87	50	150
2-Fluorobiphenyl	87	43	158
2,4,6-Tribromophenol	108	43	146
Terphenyl-d14	95	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.23 fb ca
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-7-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-07
Date Analyzed:	10/08/13	Data File:	100818.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	46	32	162
Phenol-d6	28	10	170
Nitrobenzene-d5	90	50	150
2-Fluorobiphenyl	95	43	158
2,4,6-Tribromophenol	105	43	146
Terphenyl-d14	102	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.21 fb ca
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-5S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-08
Date Analyzed:	10/08/13	Data File:	100819.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	53	32	162
Phenol-d6	31	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	99	43	158
2,4,6-Tribromophenol	128	43	146
Terphenyl-d14	125	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.19 fb ca
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	03-1985 mb
Date Analyzed:	10/09/13	Data File:	100909.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49	32	162
Phenol-d6	30	10	170
Nitrobenzene-d5	97	50	150
2-Fluorobiphenyl	96	43	158
2,4,6-Tribromophenol	113	43	146
Terphenyl-d14	120	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.22 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-01
Date Analyzed:	10/08/13	Data File:	100812.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	91	50	150
Benzo(a)anthracene-d12	101	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0042
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-6S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-02
Date Analyzed:	10/08/13	Data File:	100813.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	111	50	150
Benzo(a)anthracene-d12	120	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0058
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-7S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-03
Date Analyzed:	10/08/13	Data File:	100814.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	60	50	150
Benzo(a)anthracene-d12	64	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	0.016
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-04
Date Analyzed:	10/08/13	Data File:	100815.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	52	50	150
Benzo(a)anthracene-d12	51	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-2-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-05
Date Analyzed:	10/08/13	Data File:	100816.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	104	50	150
Benzo(a)anthracene-d12	108	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-06
Date Analyzed:	10/08/13	Data File:	100817.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	123	50	150
Benzo(a)anthracene-d12	135 ip	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.067
Acenaphthylene	<0.0024
Acenaphthene	2.8 ve
Fluorene	0.0042
Phenanthrene	0.019
Anthracene	0.012
Fluoranthene	0.012
Pyrene	0.0083
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-06 1/10
Date Analyzed:	10/09/13	Data File:	100912.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	228 ds	50	150
Benzo(a)anthracene-d12	138 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.066
Acenaphthylene	<0.024
Acenaphthene	3.1
Fluorene	<0.04
Phenanthrene	<0.066
Anthracene	<0.028
Fluoranthene	<0.046
Pyrene	<0.036
Benz(a)anthracene	<0.042
Chrysene	<0.038
Benzo(a)pyrene	<0.078
Benzo(b)fluoranthene	<0.052
Benzo(k)fluoranthene	<0.076
Indeno(1,2,3-cd)pyrene	<0.07
Dibenz(a,h)anthracene	<0.04
Benzo(g,h,i)perylene	<0.044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-7-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-07
Date Analyzed:	10/08/13	Data File:	100818.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	115	50	150
Benzo(a)anthracene-d12	120	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0053
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0056
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-5S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	310050-08
Date Analyzed:	10/08/13	Data File:	100819.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	110	50	150
Benzo(a)anthracene-d12	118	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	0.0046
Fluorene	<0.004
Phenanthrene	0.012
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/07/13	Lab ID:	03-1984 mb
Date Analyzed:	10/08/13	Data File:	100811.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	119	50	150
Benzo(a)anthracene-d12	131 vo	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-01 1/0.25
Date Analyzed:	10/16/13	Data File:	101622.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	83	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-6S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-02 1/0.25
Date Analyzed:	10/16/13	Data File:	101624.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	98	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-7S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-03 1/0.25
Date Analyzed:	10/16/13	Data File:	101626.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	99	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-04 1/0.25
Date Analyzed:	10/16/13	Data File:	101632.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	94	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	SLR-2-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-05 1/0.25
Date Analyzed:	10/16/13	Data File:	101634.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	100	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-06 1/0.25
Date Analyzed:	10/17/13	Data File:	101636.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	89	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-7-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-07 1/0.25
Date Analyzed:	10/17/13	Data File:	101638.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-5S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	310050-08 1/0.25
Date Analyzed:	10/17/13	Data File:	40.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	105	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/08/13	Lab ID:	03-2028 mb 1/0.25
Date Analyzed:	10/16/13	Data File:	12.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	99	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-01
Date Analyzed:	10/28/13	Data File:	310050-01.015
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	69	60	125
Indium	40 vo	60	125
Holmium	50 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.503 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-01 x10
Date Analyzed:	10/28/13	Data File:	310050-01 x10.019
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	84	60	125
Holmium	84	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	<1.38
Nickel	7.90
Copper	4.20
Zinc	<6.00
Arsenic	41.0 ip
Selenium	130 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	256
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-6S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-02
Date Analyzed:	10/28/13	Data File:	310050-02.016
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	97	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.368
Nickel	0.983
Copper	1.44
Zinc	0.786
Arsenic	1.28 ip
Selenium	0.681 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	1.58
Barium	7.59
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-7S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-03
Date Analyzed:	10/28/13	Data File:	310050-03.017
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	111	60	125
Indium	93	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.951
Nickel	0.918
Copper	0.456
Zinc	<0.600
Arsenic	2.51 ip
Selenium	0.841 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0650
Barium	12.7
Thallium	<0.0740
Lead	0.179

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Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-04
Date Analyzed:	10/28/13	Data File:	310050-04.060
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	49 vo	60	125
Indium	45 vo	60	125
Holmium	51 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	0.178 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-04 x10
Date Analyzed:	10/28/13	Data File:	310050-04 x10.065
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	76	60	125
Indium	76	60	125
Holmium	73	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	<1.38
Nickel	7.91
Copper	6.18
Zinc	51.1
Arsenic	38.4 ip
Selenium	110 ip
Silver	0.640
Cadmium	<0.940
Antimony	1.01
Barium	82.8
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-2-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-05
Date Analyzed:	10/28/13	Data File:	310050-05.052
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	80	60	125
Indium	77	60	125
Holmium	76	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.758
Nickel	1.57
Copper	3.52
Zinc	1.94
Arsenic	1.49 ip
Selenium	0.943 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	2.20
Barium	5.83
Thallium	<0.0740
Lead	0.266

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-06
Date Analyzed:	10/28/13	Data File:	310050-06.061
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	81	60	125
Holmium	76	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.63
Nickel	0.570
Copper	0.523
Zinc	2.91
Arsenic	56.1 ip
Selenium	3.13 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0680
Barium	11.6
Thallium	<0.0740
Lead	0.170

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-7-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-07
Date Analyzed:	10/28/13	Data File:	310050-07.054
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	80	60	125
Indium	78	60	125
Holmium	77	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.368
Nickel	6.35
Copper	2.45
Zinc	5.75
Arsenic	4.12 ip
Selenium	10.6 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.274
Barium	32.9
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-5S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	310050-08
Date Analyzed:	10/28/13	Data File:	310050-08.053
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	80	60	125
Holmium	78	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.777
Nickel	2.02
Copper	0.717
Zinc	1.05
Arsenic	2.81 ip
Selenium	0.951 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0590
Barium	15.4
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/15/13	Lab ID:	I3-683 mb
Date Analyzed:	10/28/13	Data File:	I3-683 mb.013
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	98	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<1.00
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-01
Date Analyzed:	10/14/13	Data File:	310050-01.074
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	55 vo	60	125
Indium	37 vo	60	125
Holmium	38 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-16D-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-01 x10
Date Analyzed:	10/14/13	Data File:	310050-01 x10.047
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	82	60	125
Indium	82	60	125
Holmium	87	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.39
Nickel	8.23
Zinc	10.9
Silver	<0.640
Cadmium	<0.940
Antimony	4.78
Barium	256
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-6S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-02
Date Analyzed:	10/14/13	Data File:	310050-02.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	84	60	125
Indium	88	60	125
Holmium	92	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.360
Nickel	0.959
Zinc	10.5
Silver	<0.0640
Cadmium	<0.0940
Antimony	1.52
Barium	8.00
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-7S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-03
Date Analyzed:	10/14/13	Data File:	310050-03.067
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	88	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.03
Nickel	0.925
Zinc	5.80
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	12.8
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-04
Date Analyzed:	10/14/13	Data File:	310050-04.072
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	48 vo	60	125
Indium	49 vo	60	125
Holmium	48 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-1-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-04 x10
Date Analyzed:	10/14/13	Data File:	310050-04 x10.051
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	83	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.44
Nickel	8.39
Zinc	50.5
Silver	0.780
Cadmium	<0.940
Antimony	1.91
Barium	79.0
Thallium	<0.740
Lead	8.60

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-2-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-05
Date Analyzed:	10/14/13	Data File:	310050-05.068
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	86	60	125
Indium	91	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.695
Nickel	1.12
Zinc	1.81
Silver	<0.0640
Cadmium	<0.0940
Antimony	2.47
Barium	3.08
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-6-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-06
Date Analyzed:	10/14/13	Data File:	310050-06.073
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	109	60	125
Indium	96	60	125
Holmium	101	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.56
Nickel	0.797
Zinc	2.72
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0800
Barium	11.8
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-7-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-07
Date Analyzed:	10/14/13	Data File:	310050-07.069
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	82	60	125
Indium	85	60	125
Holmium	87	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.504
Nickel	8.07
Zinc	6.99
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.271
Barium	31.0
Thallium	<0.0740
Lead	0.163

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-5S-100213	Client:	SLR International Corp.
Date Received:	10/02/13	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	310050-08
Date Analyzed:	10/14/13	Data File:	310050-08.070
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	95	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.967
Nickel	3.09
Zinc	3.75
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	15.2
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	101.00205.00030, F&BI 310050
Date Extracted:	10/14/13	Lab ID:	I3-677 mb
Date Analyzed:	10/14/13	Data File:	I3-677 mb.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	98	60	125
Holmium	108	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Zinc	<0.600
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050
Date Extracted: 10/03/13
Date Analyzed: 10/04/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
EMW-16D-100213 310050-01	<0.0015
EMW-6S-100213 310050-02	<0.0015
EMW-7S-100213 310050-03	<0.0015
CMW-1-100213 310050-04	0.0016
SLR-2-100213 310050-05	0.0034
DMW-6-100213 310050-06	<0.0015
CMW-7-100213 310050-07	0.0020
EMW-5S-100213 310050-08	<0.0015
Method Blank	<0.0015

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050
Date Extracted: 10/09/13
Date Analyzed: 10/10/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
EMW-16D-100213 310050-01	0.0018
EMW-6S-100213 310050-02	<0.0015
EMW-7S-100213 310050-03	<0.0015
CMW-1-100213 310050-04	0.0015
SLR-2-100213 310050-05	0.0027
DMW-6-100213 310050-06	<0.0015
CMW-7-100213 310050-07	0.0021
EMW-5S-100213 310050-08	<0.0015
Method Blank	<0.0015

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050
Date Extracted: NA
Date Analyzed: 10/03/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
EMW-16D-100213 310050-01	18
EMW-6S-100213 310050-02	<9.7
EMW-7S-100213 310050-04	<9.7
CMW-1-100213 310050-04	<9.7
SLR-2-100213 310050-05	<9.7
DMW-6-100213 310050-06	<9.7
CMW-7-100213 310050-07	<9.7
EMW-5S-100213 310050-08	<9.7
Method Blank	<9.7

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 310050-07 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	100	69-134

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	500	67	75	58-134	11

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 309543-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	94	55-144
Chloromethane	ug/L (ppb)	50	<0.22	95	67-131
Vinyl chloride	ug/L (ppb)	50	0.57	96	61-139
Bromomethane	ug/L (ppb)	50	<0.2	226 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	99	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	97	71-128
Acetone	ug/L (ppb)	250	<2.6	79	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	93	71-123
Methylene chloride	ug/L (ppb)	50	<3	100	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	95	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	93	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	94	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	104	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	89	73-119
Chloroform	ug/L (ppb)	50	<0.24	93	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	86	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	93	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	97	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	94	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	101	72-123
Benzene	ug/L (ppb)	50	<0.13	91	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	90	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	95	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	97	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	93	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	109	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	103	76-120
Toluene	ug/L (ppb)	50	<0.13	91	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	107	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	99	81-111
2-Hexanone	ug/L (ppb)	250	<1	99	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	95	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	94	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	104	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	99	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	90	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	95	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	101	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	94	63-128
o-Xylene	ug/L (ppb)	50	<0.22	96	64-129
Styrene	ug/L (ppb)	50	<0.22	97	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	96	76-118
Bromoform	ug/L (ppb)	50	<0.22	110	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	95	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	95	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	96	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	97	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	94	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	93	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	93	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	98	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	95	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	97	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	95	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	90	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	87	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	90	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	101	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	91	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	89	67-120
Naphthalene	ug/L (ppb)	50	<0.28	99	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	90	79-115

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	104	107	54-149	3
Chloromethane	ug/L (ppb)	50	100	101	67-133	1
Vinyl chloride	ug/L (ppb)	50	102	103	73-132	1
Bromomethane	ug/L (ppb)	50	270 vo	256 vo	69-123	5
Chloroethane	ug/L (ppb)	50	104	105	68-126	1
Trichlorofluoromethane	ug/L (ppb)	50	105	107	70-132	2
Acetone	ug/L (ppb)	250	102	104	44-145	2
1,1-Dichloroethene	ug/L (ppb)	50	102	102	75-119	0
Methylene chloride	ug/L (ppb)	50	106	108	63-132	2
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	103	105	70-122	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	100	102	76-118	2
1,1-Dichloroethane	ug/L (ppb)	50	101	103	80-116	2
2,2-Dichloropropane	ug/L (ppb)	50	111	115	62-141	4
cis-1,2-Dichloroethene	ug/L (ppb)	50	97	98	81-111	1
Chloroform	ug/L (ppb)	50	100	101	81-109	1
2-Butanone (MEK)	ug/L (ppb)	250	97	101	53-140	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	101	79-109	2
1,1,1-Trichloroethane	ug/L (ppb)	50	104	106	80-116	2
1,1-Dichloropropene	ug/L (ppb)	50	102	104	78-112	2
Carbon tetrachloride	ug/L (ppb)	50	109	111	72-128	2
Benzene	ug/L (ppb)	50	98	99	81-108	1
Trichloroethene	ug/L (ppb)	50	97	100	77-108	3
1,2-Dichloropropane	ug/L (ppb)	50	103	105	82-109	2
Bromodichloromethane	ug/L (ppb)	50	106	108	76-120	2
Dibromomethane	ug/L (ppb)	50	102	104	80-110	2
4-Methyl-2-pentanone	ug/L (ppb)	250	119	121	59-142	2
cis-1,3-Dichloropropene	ug/L (ppb)	50	111	115	76-128	4
Toluene	ug/L (ppb)	50	97	98	83-108	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	113	116	76-128	3
1,1,2-Trichloroethane	ug/L (ppb)	50	107	108	82-110	1
2-Hexanone	ug/L (ppb)	250	107	110	53-145	3
1,3-Dichloropropane	ug/L (ppb)	50	102	103	83-110	1
Tetrachloroethene	ug/L (ppb)	50	102	104	78-109	2
Dibromochloromethane	ug/L (ppb)	50	112	113	63-140	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	107	107	85-113	0
Chlorobenzene	ug/L (ppb)	50	97	97	84-108	0
Ethylbenzene	ug/L (ppb)	50	101	102	84-110	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	107	108	76-125	1
m,p-Xylene	ug/L (ppb)	100	101	102	84-112	1
o-Xylene	ug/L (ppb)	50	103	103	82-113	0
Styrene	ug/L (ppb)	50	104	105	84-116	1
Isopropylbenzene	ug/L (ppb)	50	102	104	81-122	2
Bromoform	ug/L (ppb)	50	114	115	40-161	1
n-Propylbenzene	ug/L (ppb)	50	103	105	81-115	2
Bromobenzene	ug/L (ppb)	50	103	104	80-113	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	104	106	83-117	2
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	104	105	79-118	1
1,2,3-Trichloropropane	ug/L (ppb)	50	100	102	74-116	2
2-Chlorotoluene	ug/L (ppb)	50	102	103	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	101	102	81-113	1
tert-Butylbenzene	ug/L (ppb)	50	106	107	81-119	1
1,2,4-Trimethylbenzene	ug/L (ppb)	50	102	104	83-116	2
sec-Butylbenzene	ug/L (ppb)	50	105	107	83-116	2
p-Isopropyltoluene	ug/L (ppb)	50	103	104	82-119	1
1,3-Dichlorobenzene	ug/L (ppb)	50	97	99	83-111	2
1,4-Dichlorobenzene	ug/L (ppb)	50	93	94	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	98	99	83-111	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	108	110	62-133	2
1,2,4-Trichlorobenzene	ug/L (ppb)	50	99	101	77-117	2
Hexachlorobutadiene	ug/L (ppb)	50	98	98	74-118	0
Naphthalene	ug/L (ppb)	50	108	109	75-131	1
1,2,3-Trichlorobenzene	ug/L (ppb)	50	99	100	82-115	1

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	10	32	37	18-52	14
Bis(2-chloroethyl) ether	ug/L (ppb)	10	85	93	52-113	9
2-Chlorophenol	ug/L (ppb)	10	86	95	50-110	10
1,3-Dichlorobenzene	ug/L (ppb)	10	83	85	45-109	2
1,4-Dichlorobenzene	ug/L (ppb)	10	84	85	44-118	1
1,2-Dichlorobenzene	ug/L (ppb)	10	86	87	46-116	1
Benzyl alcohol	ug/L (ppb)	10	75	82	42-100	9
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	92	97	51-124	5
2-Methylphenol	ug/L (ppb)	10	77	85	38-100	10
Hexachloroethane	ug/L (ppb)	10	82	84	42-117	2
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	92	102	48-124	10
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	72	78	48-87	8
Nitrobenzene	ug/L (ppb)	10	86	92	50-118	7
Isophorone	ug/L (ppb)	10	99	105	55-116	6
2-Nitrophenol	ug/L (ppb)	10	98	107	42-127	9
2,4-Dimethylphenol	ug/L (ppb)	10	76	76	45-100	0
Benzoic acid	ug/L (ppb)	65	19	23	10-46	19
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	93	100	55-115	7
2,4-Dichlorophenol	ug/L (ppb)	10	97	105	55-113	8
1,2,4-Trichlorobenzene	ug/L (ppb)	10	84	85	50-109	1
Hexachlorobutadiene	ug/L (ppb)	10	81	82	50-109	1
4-Chloroaniline	ug/L (ppb)	20	93	91	30-109	2
4-Chloro-3-methylphenol	ug/L (ppb)	10	98	106	54-114	8
2-Methylnaphthalene	ug/L (ppb)	10	90	95	53-113	5
Hexachlorocyclopentadiene	ug/L (ppb)	10	64	69	26-94	8
2,4,6-Trichlorophenol	ug/L (ppb)	10	93	100	46-114	7
2,4,5-Trichlorophenol	ug/L (ppb)	10	99	106	57-122	7
2-Chloronaphthalene	ug/L (ppb)	10	84	91	52-112	8
2-Nitroaniline	ug/L (ppb)	10	106	111	47-128	5
Dimethyl phthalate	ug/L (ppb)	10	102	106	55-116	4
2,6-Dinitrotoluene	ug/L (ppb)	10	110	115	49-126	4
3-Nitroaniline	ug/L (ppb)	20	103	104	21-125	1
2,4-Dinitrophenol	ug/L (ppb)	10	98	109	29-130	11
Dibenzofuran	ug/L (ppb)	10	92	97	53-113	5
2,4-Dinitrotoluene	ug/L (ppb)	10	112	117	48-129	4
4-Nitrophenol	ug/L (ppb)	10	39	44	12-59	12
Diethyl phthalate	ug/L (ppb)	10	104	106	55-116	2
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	93	97	52-115	4
N-Nitrosodiphenylamine	ug/L (ppb)	10	94	100	51-112	6
4-Nitroaniline	ug/L (ppb)	20	97	102	42-115	5
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	100	109	40-128	9
4-Bromophenyl phenyl ether	ug/L (ppb)	10	92	98	53-114	6
Hexachlorobenzene	ug/L (ppb)	10	91	95	54-115	4
Pentachlorophenol	ug/L (ppb)	10	95	106	49-114	11
Carbazole	ug/L (ppb)	10	97	102	54-115	5
Di-n-butyl phthalate	ug/L (ppb)	10	103	109	54-115	6
Benzyl butyl phthalate	ug/L (ppb)	10	110	117	53-122	6
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	111	122	54-122	9
Di-n-octyl phthalate	ug/L (ppb)	10	112	122	50-131	9

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	81	85	67-116	5
Acenaphthylene	ug/L (ppb)	1	83	88	65-119	6
Acenaphthene	ug/L (ppb)	1	80	86	66-118	7
Fluorene	ug/L (ppb)	1	85	91	64-125	7
Phenanthrene	ug/L (ppb)	1	81	87	67-120	7
Anthracene	ug/L (ppb)	1	81	88	65-122	8
Fluoranthene	ug/L (ppb)	1	81	90	65-127	11
Pyrene	ug/L (ppb)	1	85	90	62-130	6
Benz(a)anthracene	ug/L (ppb)	1	79	86	60-118	8
Chrysene	ug/L (ppb)	1	83	91	66-125	9
Benzo(b)fluoranthene	ug/L (ppb)	1	77	93	55-135	19
Benzo(k)fluoranthene	ug/L (ppb)	1	81	88	62-125	8
Benzo(a)pyrene	ug/L (ppb)	1	78	87	58-127	11
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	78	83	36-142	6
Dibenz(a,h)anthracene	ug/L (ppb)	1	71	80	37-133	12
Benzo(g,h,i)perylene	ug/L (ppb)	1	72	82	34-135	13

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.63	96	112	70-130	15
Aroclor 1260	ug/L (ppb)	0.63	92	100	70-130	8

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 310050-01 1/10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.980	144	155 vo	67-145	7
Chromium	ug/L (ppb)	20	<1.38	104	106	64-132	2
Nickel	ug/L (ppb)	20	7.90	90 b	92 b	61-128	2 b
Copper	ug/L (ppb)	20	4.20	83 b	86 b	63-124	4 b
Zinc	ug/L (ppb)	50	<6.00	81	82	55-141	1
Arsenic	ug/L (ppb)	10	41.0	121 b	119 b	60-150	2 b
Selenium	ug/L (ppb)	5	130	150 b	181 b	43-178	19 b
Silver	ug/L (ppb)	5	<0.640	69 vo	70 vo	71-115	1
Cadmium	ug/L (ppb)	5	<0.940	100	76 vo	83-116	27 vo
Antimony	ug/L (ppb)	20	<0.520	97	99	62-125	2
Barium	ug/L (ppb)	50	256	103 b	113 b	79-126	9 b
Thallium	ug/L (ppb)	5	<0.740	76	79	73-119	4
Lead	ug/L (ppb)	10	<1.44	79	81	79-121	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	104	73-135
Chromium	ug/L (ppb)	20	92	80-119
Nickel	ug/L (ppb)	20	93	79-122
Copper	ug/L (ppb)	20	119	81-119
Zinc	ug/L (ppb)	50	93	76-124
Arsenic	ug/L (ppb)	10	86	80-111
Selenium	ug/L (ppb)	5	92	81-119
Silver	ug/L (ppb)	5	84	80-116
Cadmium	ug/L (ppb)	5	96	83-113
Antimony	ug/L (ppb)	20	81	79-108
Barium	ug/L (ppb)	50	98	83-117
Thallium	ug/L (ppb)	5	102	78-116
Lead	ug/L (ppb)	10	98	83-115

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	111	110	73-135	1
Chromium	ug/L (ppb)	20	105	105	80-119	0
Nickel	ug/L (ppb)	20	103	102	79-122	1
Zinc	ug/L (ppb)	50	99	99	76-124	0
Silver	ug/L (ppb)	5	82	82	80-116	0
Cadmium	ug/L (ppb)	5	98	98	83-113	0
Antimony	ug/L (ppb)	20	91	93	79-108	2
Barium	ug/L (ppb)	50	100	98	83-117	2
Thallium	ug/L (ppb)	5	99	97	78-116	2
Lead	ug/L (ppb)	10	98	96	83-115	2

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 310050-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	96	94	63-132	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	104	78-118

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	97	98	78-118	1

Date of Report: 11/06/13
Date Received: 10/02/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310050

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 310050-08 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<9.7	<9.7	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
TSS	mg/L	50	116	61-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

RECEIVED
OCT 22 2013

October 18, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 310050
ARI Job No.: XI09

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted eight water samples on October 3, 2013 under ARI job XI09. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile XI09

Enclosures

SAMPLE CHAIN OF CUSTODY

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.	PO #
310050	C-570

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
- [x] Standard Turnaround
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [ ] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500			Notes
						ANALYSES REQUESTED												
EMW-16D-100213		10/2/13	1102	water	2									X	X			
EMW-6S-100213			1302											X	X			
EMW-7S-100213			1500											X	X			
CMW-1-100213			1059											X	X			
SLR-2-100213			1329											X	X			
DMW-6-100213			1229											X	X			
CMW-7-100213			1038											X	X			
EMW-5S-100213			1439											X	X			

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Michele Costales Poquiz	Michele Costales Poquiz	F&B1	10/2/13	5:29PM
Received by:	A. Volgardsen	ARI	10/3/13	1010
Relinquished by:				
Received by:				

FORMS\COC\COC SLRC.DOC

XIO9 : 00002

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Friedman & Bruya

Project Name: _____

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Express

Assigned ARI Job No: XI09

Tracking No: 4512789 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 0.8

Time: 1010

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#: 90877952

Cooler Accepted by: AV Date: 10/3/13 Time: 1010

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap Wet Ice (Gel Packs) Baggies Foam Block Paper Other: _____			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

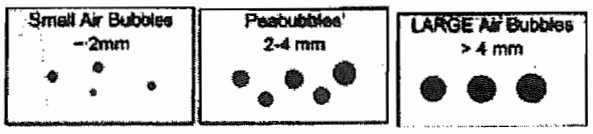
Samples Logged by: TS Date: 10-3-13 Time: 1100

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: XI09
Client: Friedman & Bruya
Project Event: 310050
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	EMW-16D-100213	XI09A	13-21335	Water	10/02/13 11:02	10/03/13 10:10
2.	EMW-6S-100213	XI09B	13-21336	Water	10/02/13 13:02	10/03/13 10:10
3.	EMW-7S-100213	XI09C	13-21337	Water	10/02/13 15:00	10/03/13 10:10
4.	CMW-1-100213	XI09D	13-21338	Water	10/02/13 10:59	10/03/13 10:10
5.	SLR-2-100213	XI09E	13-21339	Water	10/02/13 13:29	10/03/13 10:10
6.	DMW-6-100213	XI09F	13-21340	Water	10/02/13 12:29	10/03/13 10:10
7.	CMW-7-100213	XI09G	13-21341	Water	10/02/13 10:38	10/03/13 10:10
8.	EMW-5S-100213	XI09H	13-21342	Water	10/02/13 14:39	10/03/13 10:10

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: EMW-16D-100213
ARI ID: 13-21335 XI09A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	19,300
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2,000	11,700

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: EMW-6S-100213
ARI ID: 13-21336 XI09B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	163
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	3.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: EMW-7S-100213
ARI ID: 13-21337 XI09C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	219
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	5.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: CMW-1-100213
ARI ID: 13-21338 XI09D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	200	15,400
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	9,130

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: SLR-2-100213
ARI ID: 13-21339 XI09E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	180
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	3.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: DMW-6-100213
ARI ID: 13-21340 XI09F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	5.0	197
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	9.1

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: CMW-7-100213
ARI ID: 13-21341 XI09G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	20.0	1,690
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	200	830

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Client ID: EMW-5S-100213
ARI ID: 13-21342 XI09H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/07/13 100713#1	SM2540C	mg/L	10.0	339
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	2.0	13.2

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310050
Date Sampled: 10/02/13
Date Received: 10/03/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: XI09A Client ID: EMW-16D-100213						
Total Dissolved Solids	SM2540C	10/07/13	mg/L	19,300	20,600	6.5%
Chloride	SM4500-CLE	10/04/13	mg/L	11,700	11,800	0.9%

LAB CONTROL RESULTS-CONVENTIONALS
XI09-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310050
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	10/07/13	mg/L	485	500	97.0%

METHOD BLANK RESULTS-CONVENTIONALS
XI09-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310050
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	10/07/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/04/13	mg/L	< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
XI09-Friedman & Bruya

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/17/13

Project: NA
Event: 310050
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/04/13	mg/L	5.0	5.0	100.0%

APPLIED SPECIATION AND CONSULTING, LLC

18804 Northcreek Parkway Bothell, WA, 98011
Tel: (425) 483-3300 Fax: (425) 483-9818
www.appliedspeciation.com

November 5, 2013

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

Project Name: 310050

Ms Poquiz,

Attached is the report associated with eight (8) aqueous samples submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received on the same day, October 16, 2013, in a sealed cooler at 4.2°C. Dissolved metals analyses were performed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS). Any analytical issues associated with the analyses are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC

Report prepared for:

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Project Name: 310050

November 5, 2013

1. Sample Reception

Eight (8) aqueous samples were submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received in acceptable condition on the same day, October 16, 2013, in a sealed container at 4.2°C.

The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. The pH values of the samples were checked upon sample reception to confirm the adequacy of sample preservation.

The samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. The samples were stored in a secure enclosed container, known to be free from trace metals contamination, until the digestion and analysis could be performed.

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. All preserved samples were digested in accordance with EPA Method 200.8 on October 18, 2013. All sample digests were then analyzed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS).

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases associated with the analytical platform.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimum interval of every ten analytical runs.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS All sample digests for dissolved arsenic, copper, and selenium analysis were analyzed by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS) on November 1, 2013. Aliquots of each sample are introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with interfering ions of the same target mass to charge ratios (m/z). A solid-state detector detects ions transmitted through the mass analyzer, on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

4. Analytical Issues

The overall analyses went well and no significant analytical issues were encountered. All quality control parameters associated with these samples were within acceptance limits.

The estimated method detection limits (eMDL) for dissolved metals have been calculated using the standard deviation of the preparation blanks preserved and analyzed concurrently with the submitted samples.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/2/2013 Date Received: 10/16/2013

Client Sample ID
EMW-16D-100213

Laboratory Sample ID
EMW-16D-10213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	1.56
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	1.53
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.154 J

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/2/2013 Date Received: 10/16/2013

Client Sample ID
EMW-6S-100213

Laboratory Sample ID
EMW-6S-10213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	0.651
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.83
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/2/2013 Date Received: 10/16/2013

Client Sample ID
EMW-7S-100213

Laboratory Sample ID
EMW-7S-10213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	1.97
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.18 J
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.078 J

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/2/2013 Date Received: 10/16/2013

Client Sample ID
CMW-1-100213

Laboratory Sample ID
CMW-1-100213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	1.19
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	1.47
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/2/2013 Date Received: 10/16/2013

Client Sample ID
SLR-2-100213

Laboratory Sample ID
SLR-2-100213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	0.477
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	2.36
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.081 J

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/2/2013 Date Received: 10/16/2013

Client Sample ID
DMW-6-100213

Laboratory Sample ID
DMW-6-100213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	59.4
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.48
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.179 J

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/2/2013 Date Received: 10/16/2013

Client Sample ID
CMW-7-100213

Laboratory Sample ID
CMW-7-100213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	0.714
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	2.77
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.442

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/2/2013 Date Received: 10/16/2013

Client Sample ID
EMW-5S-100213

Laboratory Sample ID
EMW-5S-100213

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	2.05
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.65
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	Batch ID	PBW-1	PBW-2	PBW-3	PBW-4	Mean	StdDev	eMDL*	eMDL 5x	Sample RL
Diss As	TM2	0.013	0.012	0.011	0.005	0.010	0.003	0.002	0.010	0.20
Diss Cu	TM2	0.02	0.12	0.00	-0.02	0.03	0.06	0.04	0.18	0.20
Diss Se	TM2	-0.058	-0.042	-0.025	-0.002	-0.032	0.024	0.014	0.072	0.20

eMDL = Estimated Method Detection Limit
* Please see narrative regarding eMDL calculations

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Certified Reference Material

Analyte (µg/L)	Batch ID	LCS	True Value	Result	Recovery
Total As	TM2	LCS	400.0	370.3	92.6
Total As	TM2	TMDA-70	40.7	38.7	95.0
Total Cu	TM2	LCS	400.0	395.4	98.9
Total Cu	TM2	TMDA-70	399	388	97.3
Total Se	TM2	LCS	400.0	375.7	93.9
Total Se	TM2	TMDA-70	25.9	23.6	91.0

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Batch ID	Rep 1	Rep 2	Mean	RPD
Diss As	Batch QC	TM2	5.444	5.524	5.484	1.5
Diss Cu	Batch QC	TM2	0.33	0.29	0.31	12.4
Diss Se	Batch QC	TM2	< 0.072 U	< 0.072 U	NC	NC

NC = Not calculated due to one or more values below the eMDL

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Batch ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
Diss As	Batch QC	TM2	400.0	375.7	92.6	400.0	431.3	106.4	13.8
Diss Cu	Batch QC	TM2	400.0	353.3	88.2	400.0	410.6	102.6	15.0
Diss Se	Batch QC	TM2	400.0	371.4	92.8	400.0	424.3	106.1	13.3

SAMPLE CHAIN OF CUSTODY

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR ~~Analytical Resources, Inc. (ARI)~~ Applied Speciation 10/14/13

PROJECT NAME/NO.: 310050

PO #: C-595

REMARKS: Please e-mail results

~~ELECTRONIC DATA REQUESTED (EIM)~~ 10/14/13

TURNAROUND TIME
- [x] Standard Turnaround
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [x] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500	Dissolved As, Se, Cu by ICP-DRC-MS		Notes
EMW-16D-100213		10/2/13	1102	water	1											X		PQLs needed:
EMW-6S-100213			1302													X		As 0.150 ppb
EMW-7S-100213			1500													X		Se 0.554 ppb
CMW-1-100213			1059													X		Cu 0.334 ppb
SLR-2-100213			1329													X		
DMW-6-100213			1229													X		All samples
CMW-7-100213			1038													X		were field
EMW-5S-100213			1439													X		filtered 2x

ANALYSES REQUESTED

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Michele Costales Poquiz	Michele Costales Poquiz	F&B	10/16/13	10:25 AM
Received by:	Jacki Ford	ASC 4.2°C	10/16/13	1600
Relinquished by:				
Received by:				

310050

SAMPLE CHAIN OF CUSTODY

* KJ 10/2/13 BTX/BOX/VS

Page # 1 of ____

Send Report To Mike Staton

Company SLR International Corp

Address 22118 20th Ave SE, G202

City, State, ZIP Bothell, WA, 98021

Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature) Amanda M. Meu

PROJECT NAME/NO. 8th Ave Terminals, Inc Site Crowley 101.00205.00030

PO# 101.00205.00030

REMARKS NWTPH-Dx for DRO + HO after silica gel cleanup

TURNAROUND TIME
- ☐ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

✓ = added per Amanda M. 10/2/13

* = added per Mike Staton 10/4/13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	Total Priority Pollutant Metals + Ca by 200.8	Total Hg by 1631E	Dissolved Priority Pollutant Metals + Ca by 200.8	Dissolved Hg by 1631E	PAHs by 8270D SIM	PCBs by 8082A	TSS by 2540D	TDS by 2540C	Chloride by SM4500	Notes
EMW-16D-100213	01 A-H	10/2/13	1102	WATER	21	X	X		X	X		X	X	X	X	X	X	X	X	X	⊗
EMW-6S-100213	02		1302			✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	⊗
EMW-7S-100213	03		1500			✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	⊗
CMW-1-100213	04		1059			✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	⊗
SLR-2-100213	05		1329			✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	⊗
DMW-6-100213	06		1229			✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	⊗
CMW-7-100213	07		1038			✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	⊗
EMW-5S-100213	08		1439			✓	✓		✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	⊗
TB-100213	09 A-B		1555		2				X												

Dissolved As, Se, ω by ICP-MS

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Amanda M. Meu	Amanda Meugniot	SLR	10/2/13	1635
Received by: Michele Costales Porter Poqiz	Michele Costales Poqiz	F&BI	10/2/13	1635
Relinquished by:				
Received by:		Samples received at ____ °C		

Friedman & Bruya, Inc.
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Seattle, WA 98119-2029
Ph. (206) 285-8282
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
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November 6, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on October 3, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077 project. There are 73 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR1106R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on October 3, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
310077-01	EMW-8S-100313
310077-02	CMW-4-100313
310077-03	EMW-57S-100313
310077-04	EMW-2S-100313
310077-05	SLR-1-100313
310077-06	EMW-12S-100313
310077-07	SLR-3-100313
310077-08	TB-100313

Total Petroleum Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The trip blank sample was received with incorrect preservation for the 8260 analysis of vinyl chloride. The result should be considered an estimate.

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for bromomethane. This analyte was not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The presence of bis(2-ethylhexyl) phthalate in the samples CMW-4-100313, EMW-57S-100313, EMW-2S-100313, SLR-1-100313, EMW-12S-100313, SLR-3-100313 and the method blank is likely due to laboratory contamination. The results have been flagged accordingly.

The calibration result for bis(2-ethylhexyl) phthalate fell outside of acceptance criteria for the samples CMW-4-100313. The value reported is an estimate.

Semivolatile Organic Compounds by EPA Method 8270D SIM

Compounds in the sample matrix interfered with the quantitation of a surrogate for the samples EMW-57S-100313, EMW-2S-100313, SLR-1-100313, and EMW-12S-100313. The results have been flagged accordingly.

A surrogate recovery failed high for the method blank. The method blank was non-detect, therefore the results are valid.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A

All quality control requirements were acceptable.

Total Metals by EPA Method 200.8

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The reporting limit for arsenic was raised due to potential low level laboratory contamination.

The internal standard associated with several analytes exceeded acceptance criteria for the sample CMW-4-100313. The sample was diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

The percent recovery for the MS and/or MSD exceeded acceptance criteria for beryllium, silver and cadmium. In addition, the RPD for the MS/MSD exceeded acceptance criteria for cadmium. The results have been flagged accordingly.

Dissolved Metals by EPA Method 200.8

Arsenic, selenium and copper were not reported. Please see the report issued by Applied Speciation and Consulting (ASC) for results for these analytes.

The internal standard associated with several analytes exceeded acceptance criteria for the sample CMW-4-100313. The sample was diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Dissolved Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Total Suspended Solids by Method 2540D

All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C

The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500

The samples were sent to ARI for analysis. The report generated by ARI is enclosed.

Dissolved Metals by ICP-DRC-MS

The samples were sent to Applied Speciation and Consulting (ASC) for analysis. The report generated by ASC is enclosed.

Date of Report: 11/06/13
Date Received: 10/03/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077
Date Extracted: 10/08/13
Date Analyzed: 10/08/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
EMW-8S-100313 310077-01	<12	76
CMW-4-100313 310077-02	<12	77
EMW-57S-100313 310077-03	110	75
EMW-2S-100313 310077-04	110	79
SLR-1-100313 310077-05	<12	75
EMW-12S-100313 310077-06	15	74
SLR-3-100313 310077-07	<12	89
Method Blank 03-1962 MB	<12	77

Date of Report: 11/06/13
Date Received: 10/03/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077
Date Extracted: 10/07/13
Date Analyzed: 10/11/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 51-134)
EMW-8S-100313 310077-01	<6.9	<52	96
CMW-4-100313 310077-02	<6.9	<52	101
EMW-57S-100313 310077-03	<6.9	<52	92
EMW-2S-100313 310077-04	<6.9	<52	95
SLR-1-100313 310077-05	<6.9	<52	105
EMW-12S-100313 310077-06	<6.9	<52	60
SLR-3-100313 310077-07	<6.9	<52	74
Method Blank 03-2026 MB	<6.9	<52	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-8S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-01
Date Analyzed:	10/09/13	Data File:	100909.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-02
Date Analyzed:	10/09/13	Data File:	100910.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-57S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-03
Date Analyzed:	10/09/13	Data File:	100911.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	1.5	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	1.1	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	0.45	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-2S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-04
Date Analyzed:	10/09/13	Data File:	100912.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	1.5	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	1.0	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	0.42	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SLR-1-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-05
Date Analyzed:	10/09/13	Data File:	100913.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-12S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-06
Date Analyzed:	10/09/13	Data File:	100914.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	103	50	150
4-Bromofluorobenzene	104	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	0.58
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	2.5
Methylene chloride	<3	o-Xylene	1.3
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	0.45
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	SLR-3-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-07
Date Analyzed:	10/09/13	Data File:	100915.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	310077-08
Date Analyzed:	10/09/13	Data File:	100916.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/09/13	Lab ID:	03-1998 mb
Date Analyzed:	10/09/13	Data File:	100908.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-8S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-01
Date Analyzed:	10/08/13	Data File:	100820.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	41	32	162
Phenol-d6	25	10	170
Nitrobenzene-d5	85	50	150
2-Fluorobiphenyl	87	43	158
2,4,6-Tribromophenol	115	43	146
Terphenyl-d14	119	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	0.065
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.18
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-02
Date Analyzed:	10/08/13	Data File:	100821.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	56	32	162
Phenol-d6	33	10	170
Nitrobenzene-d5	90	50	150
2-Fluorobiphenyl	91	43	158
2,4,6-Tribromophenol	110	43	146
Terphenyl-d14	116	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.31 fb ca
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-57S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-03
Date Analyzed:	10/09/13	Data File:	100908.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	52	32	162
Phenol-d6	32	10	170
Nitrobenzene-d5	102	50	150
2-Fluorobiphenyl	103	43	158
2,4,6-Tribromophenol	144	43	146
Terphenyl-d14	137	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	0.025	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.24 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-2S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-04
Date Analyzed:	10/09/13	Data File:	100904.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	56	32	162
Phenol-d6	35	10	170
Nitrobenzene-d5	101	50	150
2-Fluorobiphenyl	102	43	158
2,4,6-Tribromophenol	130	43	146
Terphenyl-d14	128	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	0.027	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.18 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-1-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-05
Date Analyzed:	10/09/13	Data File:	100913.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	57	32	162
Phenol-d6	37	10	170
Nitrobenzene-d5	103	50	150
2-Fluorobiphenyl	98	43	158
2,4,6-Tribromophenol	134	43	146
Terphenyl-d14	119	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.23	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.30 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-12S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-06
Date Analyzed:	10/09/13	Data File:	100906.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	52	32	162
Phenol-d6	33	10	170
Nitrobenzene-d5	95	50	150
2-Fluorobiphenyl	99	43	158
2,4,6-Tribromophenol	133	43	146
Terphenyl-d14	133	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.24 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	SLR-3-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-07
Date Analyzed:	10/09/13	Data File:	100907.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	58	32	162
Phenol-d6	39	10	170
Nitrobenzene-d5	89	50	150
2-Fluorobiphenyl	71	43	158
2,4,6-Tribromophenol	97	43	146
Terphenyl-d14	66	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	0.065
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	1.0 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	03-1985 mb
Date Analyzed:	10/09/13	Data File:	100909.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49	32	162
Phenol-d6	30	10	170
Nitrobenzene-d5	97	50	150
2-Fluorobiphenyl	96	43	158
2,4,6-Tribromophenol	113	43	146
Terphenyl-d14	120	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.22 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-8S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-01
Date Analyzed:	10/08/13	Data File:	100820.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	118	50	150
Benzo(a)anthracene-d12	128	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	0.017
Phenanthrene	<0.0066
Anthracene	0.020
Fluoranthene	0.031
Pyrene	0.036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-02
Date Analyzed:	10/08/13	Data File:	100821.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	112	50	150
Benzo(a)anthracene-d12	116	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.050
Acenaphthylene	<0.0024
Acenaphthene	0.013
Fluorene	0.0071
Phenanthrene	0.027
Anthracene	0.0094
Fluoranthene	0.012
Pyrene	0.011
Benz(a)anthracene	0.0067
Chrysene	0.0055
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	0.0070
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-57S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-03
Date Analyzed:	10/09/13	Data File:	100907.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	121	50	150
Benzo(a)anthracene-d12	138 ip	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0033
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-2S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-04
Date Analyzed:	10/09/13	Data File:	100908.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	129	50	150
Benzo(a)anthracene-d12	146 ip	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0033
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-1-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-05
Date Analyzed:	10/09/13	Data File:	100909.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	121	50	150
Benzo(a)anthracene-d12	135 ip	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0044
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0048
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-12S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-06
Date Analyzed:	10/09/13	Data File:	100910.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	122	50	150
Benzo(a)anthracene-d12	133 ip	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	SLR-3-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	310077-07
Date Analyzed:	10/09/13	Data File:	100911.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	87	50	150
Benzo(a)anthracene-d12	90	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.017
Acenaphthylene	<0.0024
Acenaphthene	0.013
Fluorene	0.018
Phenanthrene	0.022
Anthracene	0.0056
Fluoranthene	0.0092
Pyrene	0.013
Benz(a)anthracene	<0.0042
Chrysene	0.0079
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	03-1984 mb
Date Analyzed:	10/08/13	Data File:	100811.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	119	50	150
Benzo(a)anthracene-d12	131 vo	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-8S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-01 1/0.25
Date Analyzed:	10/17/13	Data File:	101642.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	79	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-02 1/0.25
Date Analyzed:	10/17/13	Data File:	101644.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	87	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-57S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-03 1/0.25
Date Analyzed:	10/17/13	Data File:	101646.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	95	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-2S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-04 1/0.25
Date Analyzed:	10/17/13	Data File:	101648.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	97	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	SLR-1-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-05 1/0.25
Date Analyzed:	10/17/13	Data File:	101650.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	79	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-12S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-06 1/0.25
Date Analyzed:	10/17/13	Data File:	101656.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	SLR-3-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	310077-07 1/0.25
Date Analyzed:	10/17/13	Data File:	101658.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	57	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/08/13	Lab ID:	03-2028 mb 1/0.25
Date Analyzed:	10/16/13	Data File:	12.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	99	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-8S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-01
Date Analyzed:	10/28/13	Data File:	310077-01.063
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	83	60	125
Indium	74	60	125
Holmium	71	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.00
Nickel	1.36
Copper	0.472
Zinc	1.85
Arsenic	36.5 ip
Selenium	0.836 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.173
Barium	39.5
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-02
Date Analyzed:	10/28/13	Data File:	310077-02.064
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	55 vo	60	125
Indium	48 vo	60	125
Holmium	53 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	0.252 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-02 x10
Date Analyzed:	10/28/13	Data File:	310077-02 x10.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	77	60	125
Indium	78	60	125
Holmium	75	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.78
Nickel	9.15
Copper	7.27
Zinc	11.7
Arsenic	225 ip
Selenium	89.8 ip
Silver	<0.640
Cadmium	<0.940
Antimony	25.5
Barium	381
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-57S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-03
Date Analyzed:	10/28/13	Data File:	310077-03.055
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	79	60	125
Holmium	75	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.962
Nickel	2.68
Copper	1.55
Zinc	1.66
Arsenic	1.69 ip
Selenium	0.857 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	7.32
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-2S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-04
Date Analyzed:	10/28/13	Data File:	310077-04.056
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	86	60	125
Indium	78	60	125
Holmium	75	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.883
Nickel	0.734
Copper	0.403
Zinc	<0.600
Arsenic	2.03 ip
Selenium	0.810 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	7.44
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-1-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-05
Date Analyzed:	10/28/13	Data File:	310077-05.057
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	77	60	125
Holmium	76	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.91
Nickel	1.36
Copper	0.598
Zinc	<0.600
Arsenic	3.16 ip
Selenium	0.834 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.137
Barium	23.4
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-12S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-06
Date Analyzed:	10/28/13	Data File:	310077-06.059
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	78	60	125
Holmium	76	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.182
Nickel	2.77
Copper	1.60
Zinc	0.915
Arsenic	1.10 ip
Selenium	0.891 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.531
Barium	9.61
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-3-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	310077-07
Date Analyzed:	10/28/13	Data File:	310077-07.062
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	118	60	125
Indium	75	60	125
Holmium	79	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	0.195
Chromium	27.6
Nickel	3.60
Copper	3.68
Zinc	3.89
Arsenic	29.4 ip
Selenium	6.47 ip
Silver	0.348
Cadmium	2.48
Antimony	0.739
Barium	104
Thallium	<0.0740
Lead	0.645

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	I3-683 mb
Date Analyzed:	10/25/13	Data File:	I3-683 mb.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	83	60	125
Indium	86	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<1.00
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/15/13	Lab ID:	I3-683 mb
Date Analyzed:	10/28/13	Data File:	I3-683 mb.013
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	98	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<1.00
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-8S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-01
Date Analyzed:	10/14/13	Data File:	310077-01.080
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	84	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.22
Nickel	1.54
Zinc	8.14
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.145
Barium	38.8
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-02
Date Analyzed:	10/14/13	Data File:	310077-02.083
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	54 vo	60	125
Indium	54 vo	60	125
Holmium	54 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-4-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-02 x10
Date Analyzed:	10/14/13	Data File:	310077-02 x10.057
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	82	60	125
Indium	82	60	125
Holmium	85	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.14
Nickel	8.25
Zinc	19.3
Silver	<0.640
Cadmium	<0.940
Antimony	25.1
Barium	381
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-57S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-03
Date Analyzed:	10/14/13	Data File:	310077-03.075
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	93	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.26
Nickel	0.765
Zinc	2.95
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0700
Barium	7.24
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-2S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-04
Date Analyzed:	10/14/13	Data File:	310077-04.076
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	86	60	125
Indium	88	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.06
Nickel	0.717
Zinc	2.29
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	7.38
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-1-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-05
Date Analyzed:	10/14/13	Data File:	310077-05.077
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	95	60	125
Indium	90	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.92
Nickel	1.37
Zinc	1.27
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.112
Barium	23.0
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-12S-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-06
Date Analyzed:	10/14/13	Data File:	310077-06.078
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	88	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.413
Nickel	2.87
Zinc	2.03
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.601
Barium	9.98
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-3-100313	Client:	SLR International Corp.
Date Received:	10/03/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	310077-07
Date Analyzed:	10/14/13	Data File:	310077-07.079
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	116	60	125
Indium	83	60	125
Holmium	89	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	0.108
Chromium	27.0
Nickel	3.23
Zinc	4.86
Silver	0.347
Cadmium	2.19
Antimony	0.695
Barium	97.7
Thallium	<0.0740
Lead	0.559

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/14/13	Lab ID:	I3-677 mb
Date Analyzed:	10/14/13	Data File:	I3-677 mb.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	98	60	125
Holmium	108	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Zinc	<0.600
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Date of Report: 11/06/13
Date Received: 10/03/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077
Date Extracted: 10/09/13
Date Analyzed: 10/10/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
EMW-8S-100313 310077-01	<0.0015
CMW-4-100313 310077-02	0.0024
EMW-57S-100313 310077-03	<0.0015
EMW-2S-100313 310077-04	<0.0015
SLR-1-100313 310077-05	<0.0015
EMW-12S-100313 310077-06	<0.0015
SLR-3-100313 310077-07	0.0040
Method Blank	<0.0015

Date of Report: 11/06/13
Date Received: 10/03/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077
Date Extracted: 10/09/13
Date Analyzed: 10/10/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
EMW-8S-100313 310077-01	<0.0015
CMW-4-100313 310077-02	0.0022
EMW-57S-100313 310077-03	<0.0015
EMW-2S-100313 310077-04	<0.0015
SLR-1-100313 310077-05	<0.0015
EMW-12S-100313 310077-06	<0.0015
SLR-3-100313 310077-07	0.0037
Method Blank	<0.0015

Date of Report: 11/06/13
Date Received: 10/03/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077
Date Extracted: NA
Date Analyzed: 10/08/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
EMW-8S-100313 310077-01	<9.7
CMW-4-100313 310077-02	13
EMW-57S-100313 310077-03	<9.7
EMW-2S-100313 310077-04	11
SLR-1-100313 310077-05	<9.7
EMW-12S-100313 310077-06	<9.7
SLR-3-100313 310077-07	<9.7
Method Blank	<9.7

Date of Report: 11/06/13
Date Received: 10/03/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 310050-07 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	100	69-134

Date of Report: 11/06/13
Date Received: 10/03/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	500	67	75	58-134	11

Date of Report: 11/06/13
Date Received: 10/03/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 310077-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	102	55-144
Chloromethane	ug/L (ppb)	50	<0.22	101	67-131
Vinyl chloride	ug/L (ppb)	50	<0.13	100	61-139
Bromomethane	ug/L (ppb)	50	<0.2	222 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	100	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	103	71-128
Acetone	ug/L (ppb)	250	<2.6	84	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	101	71-123
Methylene chloride	ug/L (ppb)	50	<3	109	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	99	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	100	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	102	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	101	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	97	73-119
Chloroform	ug/L (ppb)	50	<0.24	101	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	94	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	103	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	103	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	103	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	110	72-123
Benzene	ug/L (ppb)	50	<0.13	99	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	98	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	105	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	109	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	105	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	117	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	112	76-120
Toluene	ug/L (ppb)	50	<0.13	99	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	114	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	110	81-111
2-Hexanone	ug/L (ppb)	250	<1	109	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	106	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	104	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	116	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	108	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	99	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	103	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	108	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	103	63-128
o-Xylene	ug/L (ppb)	50	<0.22	104	64-129
Styrene	ug/L (ppb)	50	<0.22	107	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	103	76-118
Bromoform	ug/L (ppb)	50	<0.22	118	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	105	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	103	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	105	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	107	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	103	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	103	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	102	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	106	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	104	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	106	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	103	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	98	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094 j	94	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	97	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	108	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	98	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	94	67-120
Naphthalene	ug/L (ppb)	50	<0.28	105	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	97	79-115

Date of Report: 11/06/13
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Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	93	93	54-149	0
Chloromethane	ug/L (ppb)	50	91	92	67-133	1
Vinyl chloride	ug/L (ppb)	50	90	91	73-132	1
Bromomethane	ug/L (ppb)	50	212 vo	227 vo	69-123	7
Chloroethane	ug/L (ppb)	50	90	94	68-126	4
Trichlorofluoromethane	ug/L (ppb)	50	93	94	70-132	1
Acetone	ug/L (ppb)	250	93	93	44-145	0
1,1-Dichloroethene	ug/L (ppb)	50	90	91	75-119	1
Methylene chloride	ug/L (ppb)	50	95	96	63-132	1
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	90	91	70-122	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	89	89	76-118	0
1,1-Dichloroethane	ug/L (ppb)	50	92	92	80-116	0
2,2-Dichloropropane	ug/L (ppb)	50	96	98	62-141	2
cis-1,2-Dichloroethene	ug/L (ppb)	50	87	86	81-111	1
Chloroform	ug/L (ppb)	50	90	91	81-109	1
2-Butanone (MEK)	ug/L (ppb)	250	92	90	53-140	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	92	91	79-109	1
1,1,1-Trichloroethane	ug/L (ppb)	50	93	94	80-116	1
1,1-Dichloropropene	ug/L (ppb)	50	94	92	78-112	2
Carbon tetrachloride	ug/L (ppb)	50	100	100	72-128	0
Benzene	ug/L (ppb)	50	89	87	81-108	2
Trichloroethene	ug/L (ppb)	50	88	88	77-108	0
1,2-Dichloropropane	ug/L (ppb)	50	93	92	82-109	1
Bromodichloromethane	ug/L (ppb)	50	98	96	76-120	2
Dibromomethane	ug/L (ppb)	50	92	91	80-110	1
4-Methyl-2-pentanone	ug/L (ppb)	250	106	102	59-142	4
cis-1,3-Dichloropropene	ug/L (ppb)	50	104	101	76-128	3
Toluene	ug/L (ppb)	50	87	88	83-108	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	106	103	76-128	3
1,1,2-Trichloroethane	ug/L (ppb)	50	96	96	82-110	0
2-Hexanone	ug/L (ppb)	250	100	98	53-145	2
1,3-Dichloropropane	ug/L (ppb)	50	93	92	83-110	1
Tetrachloroethene	ug/L (ppb)	50	92	92	78-109	0
Dibromochloromethane	ug/L (ppb)	50	103	102	63-140	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	96	95	85-113	1
Chlorobenzene	ug/L (ppb)	50	87	87	84-108	0
Ethylbenzene	ug/L (ppb)	50	91	91	84-110	0
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	96	99	76-125	3
m,p-Xylene	ug/L (ppb)	100	90	91	84-112	1
o-Xylene	ug/L (ppb)	50	91	92	82-113	1
Styrene	ug/L (ppb)	50	93	93	84-116	0
Isopropylbenzene	ug/L (ppb)	50	89	92	81-122	3
Bromoform	ug/L (ppb)	50	104	107	40-161	3
n-Propylbenzene	ug/L (ppb)	50	93	92	81-115	1
Bromobenzene	ug/L (ppb)	50	92	91	80-113	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	93	93	83-117	0
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	95	92	79-118	3
1,2,3-Trichloropropane	ug/L (ppb)	50	92	90	74-116	2
2-Chlorotoluene	ug/L (ppb)	50	91	90	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	92	90	81-113	2
tert-Butylbenzene	ug/L (ppb)	50	94	95	81-119	1
1,2,4-Trimethylbenzene	ug/L (ppb)	50	92	91	83-116	1
sec-Butylbenzene	ug/L (ppb)	50	94	94	83-116	0
p-Isopropyltoluene	ug/L (ppb)	50	91	91	82-119	0
1,3-Dichlorobenzene	ug/L (ppb)	50	87	86	83-111	1
1,4-Dichlorobenzene	ug/L (ppb)	50	83	82	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	87	87	83-111	0
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	98	100	62-133	2
1,2,4-Trichlorobenzene	ug/L (ppb)	50	88	89	77-117	1
Hexachlorobutadiene	ug/L (ppb)	50	84	87	74-118	4
Naphthalene	ug/L (ppb)	50	93	95	75-131	2
1,2,3-Trichlorobenzene	ug/L (ppb)	50	87	88	82-115	1

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Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	10	32	37	18-52	14
Bis(2-chloroethyl) ether	ug/L (ppb)	10	85	93	52-113	9
2-Chlorophenol	ug/L (ppb)	10	86	95	50-110	10
1,3-Dichlorobenzene	ug/L (ppb)	10	83	85	45-109	2
1,4-Dichlorobenzene	ug/L (ppb)	10	84	85	44-118	1
1,2-Dichlorobenzene	ug/L (ppb)	10	86	87	46-116	1
Benzyl alcohol	ug/L (ppb)	10	75	82	42-100	9
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	92	97	51-124	5
2-Methylphenol	ug/L (ppb)	10	77	85	38-100	10
Hexachloroethane	ug/L (ppb)	10	82	84	42-117	2
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	92	102	48-124	10
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	72	78	48-87	8
Nitrobenzene	ug/L (ppb)	10	86	92	50-118	7
Isophorone	ug/L (ppb)	10	99	105	55-116	6
2-Nitrophenol	ug/L (ppb)	10	98	107	42-127	9
2,4-Dimethylphenol	ug/L (ppb)	10	76	76	45-100	0
Benzoic acid	ug/L (ppb)	65	19	23	10-46	19
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	93	100	55-115	7
2,4-Dichlorophenol	ug/L (ppb)	10	97	105	55-113	8
1,2,4-Trichlorobenzene	ug/L (ppb)	10	84	85	50-109	1
Hexachlorobutadiene	ug/L (ppb)	10	81	82	50-109	1
4-Chloroaniline	ug/L (ppb)	20	93	91	30-109	2
4-Chloro-3-methylphenol	ug/L (ppb)	10	98	106	54-114	8
2-Methylnaphthalene	ug/L (ppb)	10	90	95	53-113	5
Hexachlorocyclopentadiene	ug/L (ppb)	10	64	69	26-94	8
2,4,6-Trichlorophenol	ug/L (ppb)	10	93	100	46-114	7
2,4,5-Trichlorophenol	ug/L (ppb)	10	99	106	57-122	7
2-Chloronaphthalene	ug/L (ppb)	10	84	91	52-112	8
2-Nitroaniline	ug/L (ppb)	10	106	111	47-128	5
Dimethyl phthalate	ug/L (ppb)	10	102	106	55-116	4
2,6-Dinitrotoluene	ug/L (ppb)	10	110	115	49-126	4
3-Nitroaniline	ug/L (ppb)	20	103	104	21-125	1
2,4-Dinitrophenol	ug/L (ppb)	10	98	109	29-130	11
Dibenzofuran	ug/L (ppb)	10	92	97	53-113	5
2,4-Dinitrotoluene	ug/L (ppb)	10	112	117	48-129	4
4-Nitrophenol	ug/L (ppb)	10	39	44	12-59	12
Diethyl phthalate	ug/L (ppb)	10	104	106	55-116	2
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	93	97	52-115	4
N-Nitrosodiphenylamine	ug/L (ppb)	10	94	100	51-112	6
4-Nitroaniline	ug/L (ppb)	20	97	102	42-115	5
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	100	109	40-128	9
4-Bromophenyl phenyl ether	ug/L (ppb)	10	92	98	53-114	6
Hexachlorobenzene	ug/L (ppb)	10	91	95	54-115	4
Pentachlorophenol	ug/L (ppb)	10	95	106	49-114	11
Carbazole	ug/L (ppb)	10	97	102	54-115	5
Di-n-butyl phthalate	ug/L (ppb)	10	103	109	54-115	6
Benzyl butyl phthalate	ug/L (ppb)	10	110	117	53-122	6
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	111	122	54-122	9
Di-n-octyl phthalate	ug/L (ppb)	10	112	122	50-131	9

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Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	81	85	67-116	5
Acenaphthylene	ug/L (ppb)	1	83	88	65-119	6
Acenaphthene	ug/L (ppb)	1	80	86	66-118	7
Fluorene	ug/L (ppb)	1	85	91	64-125	7
Phenanthrene	ug/L (ppb)	1	81	87	67-120	7
Anthracene	ug/L (ppb)	1	81	88	65-122	8
Fluoranthene	ug/L (ppb)	1	81	90	65-127	11
Pyrene	ug/L (ppb)	1	85	90	62-130	6
Benz(a)anthracene	ug/L (ppb)	1	79	86	60-118	8
Chrysene	ug/L (ppb)	1	83	91	66-125	9
Benzo(b)fluoranthene	ug/L (ppb)	1	77	93	55-135	19
Benzo(k)fluoranthene	ug/L (ppb)	1	81	88	62-125	8
Benzo(a)pyrene	ug/L (ppb)	1	78	87	58-127	11
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	78	83	36-142	6
Dibenz(a,h)anthracene	ug/L (ppb)	1	71	80	37-133	12
Benzo(g,h,i)perylene	ug/L (ppb)	1	72	82	34-135	13

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Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.63	96	112	70-130	15
Aroclor 1260	ug/L (ppb)	0.63	92	100	70-130	8

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Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 310050-01 1/10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.980	144	155 vo	67-145	7
Chromium	ug/L (ppb)	20	<1.38	104	106	64-132	2
Nickel	ug/L (ppb)	20	7.90	90 b	92 b	61-128	2 b
Copper	ug/L (ppb)	20	4.20	83 b	86 b	63-124	4 b
Zinc	ug/L (ppb)	50	<6.00	81	82	55-141	1
Arsenic	ug/L (ppb)	10	41.0	121 b	119 b	60-150	2 b
Selenium	ug/L (ppb)	5	130	150 b	181 b	43-178	19 b
Silver	ug/L (ppb)	5	<0.640	69 vo	70 vo	71-115	1
Cadmium	ug/L (ppb)	5	<0.940	100	76 vo	83-116	27 vo
Antimony	ug/L (ppb)	20	<0.520	97	99	62-125	2
Barium	ug/L (ppb)	50	256	103 b	113 b	79-126	9 b
Thallium	ug/L (ppb)	5	<0.740	76	79	73-119	4
Lead	ug/L (ppb)	10	<1.44	79	81	79-121	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	104	73-135
Chromium	ug/L (ppb)	20	92	80-119
Nickel	ug/L (ppb)	20	93	79-122
Copper	ug/L (ppb)	20	119	81-119
Zinc	ug/L (ppb)	50	93	76-124
Arsenic	ug/L (ppb)	10	86	80-111
Selenium	ug/L (ppb)	5	92	81-119
Silver	ug/L (ppb)	5	84	80-116
Cadmium	ug/L (ppb)	5	96	83-113
Antimony	ug/L (ppb)	20	81	79-108
Barium	ug/L (ppb)	50	98	83-117
Thallium	ug/L (ppb)	5	102	78-116
Lead	ug/L (ppb)	10	98	83-115

Date of Report: 11/06/13
Date Received: 10/03/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	111	110	73-135	1
Chromium	ug/L (ppb)	20	105	105	80-119	0
Nickel	ug/L (ppb)	20	103	102	79-122	1
Zinc	ug/L (ppb)	50	99	99	76-124	0
Silver	ug/L (ppb)	5	82	82	80-116	0
Cadmium	ug/L (ppb)	5	98	98	83-113	0
Antimony	ug/L (ppb)	20	91	93	79-108	2
Barium	ug/L (ppb)	50	100	98	83-117	2
Thallium	ug/L (ppb)	5	99	97	78-116	2
Lead	ug/L (ppb)	10	98	96	83-115	2

Date of Report: 11/06/13
Date Received: 10/03/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 310077-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	92	96	63-132	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	101	78-118

Date of Report: 11/06/13
Date Received: 10/03/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	97	98	78-118	1

Date of Report: 11/06/13
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Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 310077

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 310077-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	13	<9.7	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
TSS	mg/L	50	102	61-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

RECEIVED
OCT 24 2013

October 22, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 310077
ARI Job No.: XI69

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted seven water samples on October 7, 2013 under ARI job XI69. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile XI69

Enclosures

XI69

SAMPLE CHAIN OF CUSTODY

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.: 310077

PO #: C-571

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

Page # _____ of _____

TURNAROUND TIME
☒ Standard Turnaround
☐ RUSH _____
Rush charges authorized by: _____

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500			Notes
EMW-8S-100313		10/3/13	0754	water	2									X	X			Short holding
CMW-4-100313			0950											X	X			time for TDS.
EMW-57S-100313			1100											X	X			
EMW-2S-100313			1148											X	X			
SLR-1-100313			0847											X	X			
EMW-12S-100313			1015											X	X			
SLR-3-100313		↓	1150	↓	↓									X	X			
~~TB-100313~~ 10/7/13																		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Michele Costales Poquiz	Michele Costales Poquiz	F&B	10/7/13	11:06 AM
Received by:	Jennifer Millsap	ARI	10/7/13	1300
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC SLRC.DOC

XI69 : 00002

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Friedman+Bruya Project Name: 310077

COC No(s): _____ (NA) Delivered by: Fed-Ex UPS Courier Hand Delivered Other Postal Express

Assigned ARI Job No: XI69 Tracking No: 4554020 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 4.5

Time: 1307

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90871952

Cooler Accepted by: JM Date: 10/7/13 Time: 1300

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI : (NA) YES Date/Time:_____ Equipment:_____ Split by:_____

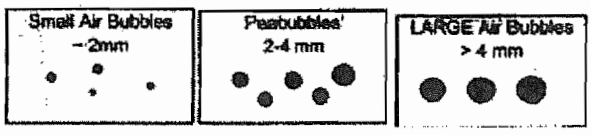
Samples Logged by: AV Date: 10/7/13 Time: 1412

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: XI69
Client: Friedman and Bruya, Inc
Project Event: 310077
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	EMW-8S-100313	XI69A	13-21605	Water	10/03/13 07:54	10/07/13 13:00
2.	CMW-4-100313	XI69B	13-21606	Water	10/03/13 09:50	10/07/13 13:00
3.	EMW-57S-100313	XI69C	13-21607	Water	10/03/13 11:00	10/07/13 13:00
4.	EMW-2S-100313	XI69D	13-21608	Water	10/03/13 11:48	10/07/13 13:00
5.	SLR-1-100313	XI69E	13-21609	Water	10/03/13 08:47	10/07/13 13:00
6.	EMW-12S-100313	XI69F	13-21610	Water	10/03/13 10:15	10/07/13 13:00
7.	SLR-3-100313	XI69G	13-21611	Water	10/03/13 11:50	10/07/13 13:00

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Client ID: EMW-8S-100313
ARI ID: 13-21605 XI69A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	5.0	278
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1.0	7.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Client ID: CMW-4-100313
ARI ID: 13-21606 XI69B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	200	12,500
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1,000	7,280

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Client ID: EMW-57S-100313
ARI ID: 13-21607 XI69C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	5.0	226
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	1.0	7.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Client ID: EMW-2S-100313
ARI ID: 13-21608 XI69D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	5.0	230
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	2.0	7.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Client ID: SLR-1-100313
ARI ID: 13-21609 XI69E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	5.0	316
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	2.0	13.2

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Client ID: EMW-12S-100313
ARI ID: 13-21610 XI69F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	5.0	224
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	2.0	13.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Client ID: SLR-3-100313
ARI ID: 13-21611 XI69G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/10/13 101013#1	SM2540C	mg/L	13.3	1,320
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	10.0	39.0

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: XI69A Client ID: EMW-8S-100313							
Chloride	SM4500-CLE	10/08/13	mg/L	7.0	30.7	25.0	94.8%

REPLICATE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: 10/03/13
Date Received: 10/07/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: XI69A Client ID: EMW-8S-100313						
Total Dissolved Solids	SM2540C	10/10/13	mg/L	278	276	0.7%
Chloride	SM4500-CLE	10/08/13	mg/L	7.0	6.9	1.4%

LAB CONTROL RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	10/10/13	mg/L	507	500	101.4%

METHOD BLANK RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	10/10/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/08/13	mg/L	< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
XI69-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/22/13

Project: NA
Event: 310077
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/08/13	mg/L	4.9	5.0	98.0%

APPLIED SPECIATION AND CONSULTING, LLC

18804 Northcreek Parkway Bothell, WA, 98011
Tel: (425) 483-3300 Fax: (425) 483-9818
www.appliedspeciation.com

November 5, 2013

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

Project Name: 310077

Ms Poquiz,

Attached is the report associated with seven (7) aqueous samples submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received on the same day, October 16, 2013, in a sealed cooler at 4.2°C. Dissolved metals analyses were performed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS). Any analytical issues associated with the analyses are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC

Report prepared for:

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Project Name: 310077

November 5, 2013

1. Sample Reception

Seven (7) aqueous samples were submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received in acceptable condition on the same day, October 16, 2013, in a sealed container at 4.2°C.

The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. The pH values of the samples were checked upon sample reception to confirm the adequacy of sample preservation.

The samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. The samples were stored in a secure enclosed container, known to be free from trace metals contamination, until the digestion and analysis could be performed.

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. All preserved samples were digested in accordance with EPA Method 200.8 on October 18, 2013. All sample digests were then analyzed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS).

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases associated with the analytical platform.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimum interval of every ten analytical runs.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS All sample digests for dissolved arsenic, copper, and selenium analysis were analyzed by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS) on October 22, 2013. Aliquots of each sample are introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with interfering ions of the same target mass to charge ratios (m/z). A solid-state detector detects ions transmitted through the mass analyzer, on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

4. Analytical Issues

The overall analyses went well and no significant analytical issues were encountered. All quality control parameters associated with these samples were within acceptance limits.

The estimated method detection limits (eMDL) for dissolved metals have been calculated using the standard deviation of the preparation blanks preserved and analyzed concurrently with the submitted samples.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/3/2013 Date Received: 10/16/2013

Client Sample ID
EMW-8S-100313

Laboratory Sample ID
EMW-8S-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	40.7
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.361
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.133 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/3/2013 Date Received: 10/16/2013

Client Sample ID
CMW-4-100313

Laboratory Sample ID
CMW-4-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	206
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	3.64
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.175 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/3/2013 Date Received: 10/16/2013

Client Sample ID
EMW-57S-100313

Laboratory Sample ID
EMW-575-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	1.48
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.411
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.090 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/3/2013 Date Received: 10/16/2013

Client Sample ID
EMW-2S-100313

Laboratory Sample ID
EMW-25-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	1.29
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.419
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.057 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/3/2013 Date Received: 10/16/2013

Client Sample ID
SLR-1-100313

Laboratory Sample ID
SLR-1-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	2.61
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	0.482
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.141 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/3/2013 Date Received: 10/16/2013

Client Sample ID
EMW-12S-100313

Laboratory Sample ID
EMW-12S-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	0.318
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	1.84
Diss Se	EPA 200.8	TM1	5	0.039	0.20	0.169 J

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 10/3/2013 Date Received: 10/16/2013

Client Sample ID
SLR-3-100313

Laboratory Sample ID
SLR-3-100313 Diss

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM1	5	0.018	0.20	28.8
Diss Cu	EPA 200.8	TM1	5	0.060	0.20	5.90
Diss Se	EPA 200.8	TM1	5	0.039	0.20	1.45

All results are reported in µg/L and reflect the applied dilution
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	Batch ID	PBW-1	PBW-2	PBW-3	PBW-4	Mean	StdDev	eMDL*	eMDL 5x	Sample RL
Diss As	TM1	0.011	0.011	0.002	-0.001	0.006	0.006	0.004	0.018	0.20
Diss Cu	TM1	0.058	0.071	0.068	0.104	0.075	0.020	0.012	0.060	0.20
Diss Se	TM1	-0.002	-0.027	0.002	-0.010	-0.009	0.013	0.008	0.039	0.20

eMDL = Estimated Method Detection Limit
* Please see narrative regarding eMDL calculations

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Certified Reference Material

Analyte (µg/L)	Batch ID	LCS	True Value	Result	Recovery
Total As	TM1	LCS	400.0	400.1	100.0
Total As	TM1	TMDA-70	40.7	42.8	105.2
Total Cu	TM1	LCS	400.0	416.8	104.2
Total Cu	TM1	TMDA-70	399	414	103.8
Total Se	TM1	LCS	400.0	404.2	101.1
Total Se	TM1	TMDA-70	25.9	25.5	98.5

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Batch ID	Rep 1	Rep 2	Mean	RPD
Diss As	Batch QC	TM1	0.520	0.510	0.515	2.0
Diss Cu	Batch QC	TM1	0.442	0.451	0.447	2.1
Diss Se	Batch QC	TM1	0.122 J	0.117 J	0.119	4.7

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Batch ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
Diss As	Batch QC	TM1	400.0	414.5	103.5	400.0	430.0	107.4	3.7
Diss Cu	Batch QC	TM1	400.0	358.9	89.6	400.0	379.6	94.8	5.6
Diss Se	Batch QC	TM1	400.0	396.9	99.2	400.0	428.5	107.1	7.6

pg 1 of 4

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR MP 10/16/13
~~Analytical Resources, Inc. (ARI)~~ Applied Speciation

PROJECT NAME/NO.: 310077

PO #: C-595

REMARKS

Please e-mail results

~~ELECTRONIC DATA REQUESTED (EIM)~~ MP 10/16/13

TURNAROUND TIME
- [X] Standard Turnaround
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [X] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500	Dissolved As, Se, Cu by ICP-DRC-MS		Notes
						ANALYSES REQUESTED												
EMW-8S-100313		10/3/13	0754	water	1											X		PQLs needed:
CMW-4-100313			0950													X		As 0.150 ppb
EMW-57S-100313			1100													X		Se 0.554 ppb
EMW-2S-100313			1148													X		Cu 0.336 ppb
SLR-1-100313			0847													X		
EMW-12S-100313			1015													X		All samples were
SLR-3-100313			1150													X		field filtered 2x

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Michele Costales Poquiz	Michele Costales Poquiz	F&B1	10/16/13	10:29 AM
Received by:	Jacki Ford	ASC 4.2°C	10/16/13	1600
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

310077

SAMPLE CHAIN OF CUSTODY

KJ 10/3/13 BOY/BIY/VS

Page # 1 of 1

Send Report To Mike Staton

Company SLR International Corp.

Address 22118 20th Ave SE, G202

City, State, ZIP Bothell, WA, 98021

Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: 8th Ave Terminals, Inc Site Crowley 101.00205.00030

PO#: 101.00205.00030

REMARKS: NWTPH-Dx for DRO + HO after silica gel cleanup

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Va added per Mike Staton /ze 10/16/13

ANALYSES REQUESTED

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	Total Priority Pollutant Metals by 200.8	Total Hg by 1631E	Dissolved Priority Pollutant Metals by 200.8	Dissolved Hg by 1631E	PAHs by 8270D-SIM	PCBs by 8082A	TSS by 2540D	TDS by 2540C	Chloride by SM4500	Notes	Dissolved As, Ag, Cu, Ni, Se by ICP-DAC-MS
EMW-8S-100313	01 A-W	10/3/13	0754	WATER	21	X	X		X	X		X	X	X	X	X	X	X	X	X		✓
CMW-4-100313	02 A-W		0950		23																	✓ ~~HOLD~~ ze 10/16
EMW-57S-100313	03 A-W		1100		21																	✓
EMW-2S-100313	04		1148																			✓
SLR-1-100313	05		0847																			✓
EMW-12S-100313	06 A-W		1015																			✓
SLR-3-100313	07		1150																			✓
TB-100313	08 A-B		0825		2				X													

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengriot	SLR	10/3/13	1441
Received by:	Nhan Phan	FEBI	10/3/13	1441
Relinquished by:				
Received by:		Samples received at 2 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 19, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the amended results from the testing of material submitted on September 23, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396 project. The results for total and dissolved arsenic and selenium have been flagged due to matrix interference.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR1008R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 8, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on September 23, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396 project. There are 47 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR1008R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 23, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
309396-01	SLR-6-092313
309396-02	DMW-3-092313
309396-03	EMW-11S-092313
309396-04	DMW-6-092313
309396-05	EMW-6S-092313
309396-06	EMW-7S-092313
309396-07	HC-20-092313
309396-08	DMW-2-092313
309396-09	EMW-9S-092313
309396-10	SLR-3-092313
309396-11	SLR-2-092313
309396-12	SLR-1-092313
309396-13	EMW-2S-092313
309396-14	EMW-1S-092313
309396-15	SLR-7-092313

Total Metals by EPA Method 200.8

The reporting limits for copper, zinc and antimony were raised due to laboratory contamination.

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

Dissolved Metals by EPA Method 200.8

The reporting limits for copper, zinc and antimony were raised due to laboratory contamination.

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The internal standard associated with several analytes in the 200.8 analysis of the sample SLR-3-092313 exceeded acceptance criteria. The sample was diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E

The reporting limit was raised due to laboratory contamination.

CASE NARRATIVE (continued)

Dissolved Mercury by EPA Method 1631E
The reporting limit was raised due to laboratory contamination.

Total Suspended Solids by Method 2540D
All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C
The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI will be forwarded to your office upon receipt.

Chloride by Method SM4500
The samples were sent to ARI for analysis. The report generated by ARI will be forwarded to your office upon receipt.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-6-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-01
Date Analyzed:	09/25/13	Data File:	309396-01.019
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	100	60	125
Holmium	103	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.09
Nickel	2.00
Copper	<2.00
Zinc	<2.50
Arsenic	0.252 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	18.7
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-3-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-02
Date Analyzed:	09/25/13	Data File:	309396-02.022
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	95	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.69
Nickel	0.763
Copper	<2.00
Zinc	<2.50
Arsenic	5.41 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	12.7
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-11S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-03
Date Analyzed:	09/25/13	Data File:	309396-03.023
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	97	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.29
Nickel	4.04
Copper	<2.00
Zinc	14.5
Arsenic	4.42 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	218
Thallium	<0.0740
Lead	0.173

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-6-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-04
Date Analyzed:	09/25/13	Data File:	309396-04.024
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	123	60	125
Indium	103	60	125
Holmium	106	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.49
Nickel	0.596
Copper	<2.00
Zinc	<2.50
Arsenic	41.1 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	11.8
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-6S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-05
Date Analyzed:	09/25/13	Data File:	309396-05.025
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	97	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.26
Nickel	1.27
Copper	<2.00
Zinc	<2.50
Arsenic	2.03 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	19.9
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-7S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-06
Date Analyzed:	09/25/13	Data File:	309396-06.027
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	105	60	125
Indium	97	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.50
Nickel	0.992
Copper	<2.00
Zinc	<2.50
Arsenic	3.38 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	15.1
Thallium	<0.0740
Lead	0.165

Analysis For Total Metals By EPA Method 200.8

Client ID:	HC-20-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-07
Date Analyzed:	09/25/13	Data File:	309396-07.028
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	96	60	125
Holmium	100	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.41
Nickel	1.35
Copper	<2.00
Zinc	7.63
Arsenic	14.5 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	21.5
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-2-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-08
Date Analyzed:	09/25/13	Data File:	309396-08.029
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	92	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.78
Nickel	1.25
Copper	<2.00
Zinc	6.20
Arsenic	7.47 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	12.1
Thallium	<0.0740
Lead	2.04

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-9S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-09
Date Analyzed:	09/25/13	Data File:	309396-09.030
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	109	60	125
Indium	100	60	125
Holmium	102	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.69
Nickel	0.909
Copper	<2.00
Zinc	3.63
Arsenic	25.6 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	64.4
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-3-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-10
Date Analyzed:	09/25/13	Data File:	309396-10.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	122	60	125
Indium	87	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	24.0
Nickel	3.51
Copper	<2.00
Zinc	4.37
Arsenic	27.7 ip
Selenium	5.99 ip
Silver	0.427
Cadmium	2.50
Antimony	<1.25
Barium	106
Thallium	<0.0740
Lead	0.673

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-2-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-11
Date Analyzed:	09/25/13	Data File:	309396-11.031
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	91	60	125
Indium	95	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.02
Nickel	1.92
Copper	2.38
Zinc	4.35
Arsenic	1.94 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	2.49
Barium	8.30
Thallium	<0.0740
Lead	0.311

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-1-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-12
Date Analyzed:	09/25/13	Data File:	309396-12.032
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	100	60	125
Indium	96	60	125
Holmium	99	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	3.74
Nickel	3.20
Copper	5.47
Zinc	45.9
Arsenic	3.67 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	1.93
Barium	31.1
Thallium	<0.0740
Lead	3.66

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-2S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-13
Date Analyzed:	09/25/13	Data File:	309396-13.033
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	94	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.53
Nickel	1.05
Copper	<2.00
Zinc	<2.50
Arsenic	0.961 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	9.37
Thallium	<0.0740
Lead	<0.144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-1S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-14
Date Analyzed:	09/25/13	Data File:	309396-14.034
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	121	60	125
Indium	96	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.53
Nickel	1.71
Copper	<2.00
Zinc	11.4
Arsenic	19.1 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	37.8
Thallium	<0.0740
Lead	2.59

Analysis For Total Metals By EPA Method 200.8

Client ID:	SLR-7-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-15
Date Analyzed:	09/25/13	Data File:	309396-15.035
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	96	60	125
Indium	95	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.736
Nickel	3.70
Copper	<2.00
Zinc	<2.50
Arsenic	2.32 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	15.7
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	I3-606 mb
Date Analyzed:	09/25/13	Data File:	I3-606 mb.017
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	99	60	125
Holmium	101	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<2.00
Zinc	<2.50
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-6-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-01
Date Analyzed:	09/26/13	Data File:	309396-01.055
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	88	60	125
Indium	91	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.363
Nickel	1.87
Copper	3.20
Zinc	4.70
Arsenic	0.304 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	19.6
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-3-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-02
Date Analyzed:	09/26/13	Data File:	309396-02.037
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	110	60	125
Indium	94	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.12
Nickel	2.82
Copper	<2.00
Zinc	<2.50
Arsenic	4.84 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	12.5
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-11S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-03
Date Analyzed:	09/26/13	Data File:	309396-03.038
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	106	60	125
Indium	95	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.760
Nickel	4.41
Copper	<2.00
Zinc	13.2
Arsenic	4.05 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	200
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-6-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-04
Date Analyzed:	09/26/13	Data File:	309396-04.040
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	119	60	125
Indium	94	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.12
Nickel	1.13
Copper	<2.00
Zinc	<2.50
Arsenic	42.3 ip
Selenium	0.570 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	11.7
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-6S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-05
Date Analyzed:	09/26/13	Data File:	309396-05.041
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	94	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.791
Nickel	1.41
Copper	<2.00
Zinc	<2.50
Arsenic	1.86 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	19.3
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-7S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-06
Date Analyzed:	09/26/13	Data File:	309396-06.042
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	107	60	125
Indium	93	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.02
Nickel	1.21
Copper	<2.00
Zinc	<2.50
Arsenic	2.55 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	13.4
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	HC-20-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-07
Date Analyzed:	09/26/13	Data File:	309396-07.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	89	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.10
Nickel	1.74
Copper	<2.00
Zinc	8.84
Arsenic	14.0 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	21.0
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-2-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-08
Date Analyzed:	09/26/13	Data File:	309396-08.044
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	103	60	125
Indium	91	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.76
Nickel	1.10
Copper	<2.00
Zinc	3.92
Arsenic	6.67 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	10.8
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-9S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-09
Date Analyzed:	09/26/13	Data File:	309396-09.045
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	87	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.33
Nickel	0.992
Copper	<2.00
Zinc	9.39
Arsenic	26.4 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	67.2
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-3-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-10
Date Analyzed:	09/26/13	Data File:	309396-10.052
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	126 vo	60	125
Indium	83	60	125
Holmium	86	60	125

Analyte:	Concentration ug/L (ppb)
Copper	<2.00 J
Antimony	<1.25
Thallium	<0.0740

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-3-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-10 x10
Date Analyzed:	09/26/13	Data File:	309396-10 x10.058
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	90	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	30.3
Nickel	6.92
Copper	<20.0
Zinc	<25.0
Arsenic	25.1 ip
Selenium	7.18 ip
Silver	<0.640
Cadmium	2.32
Antimony	<12.5
Barium	104
Thallium	<0.740
Lead	3.60

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-2-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-11
Date Analyzed:	09/26/13	Data File:	309396-11.046
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	89	60	125
Indium	89	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.396
Nickel	3.70
Copper	2.35
Zinc	3.86
Arsenic	0.428 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	2.46
Barium	5.74
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-1-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-12
Date Analyzed:	09/26/13	Data File:	309396-12.047
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	109	60	125
Indium	90	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.52
Nickel	3.11
Copper	<2.00
Zinc	2.93
Arsenic	3.57 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	27.4
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-2S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-13
Date Analyzed:	09/26/13	Data File:	309396-13.048
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	85	60	125
Holmium	87	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.997
Nickel	2.53
Copper	<2.00
Zinc	2.86
Arsenic	0.876 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	8.47
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-1S-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-14
Date Analyzed:	09/26/13	Data File:	309396-14.049
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	125	60	125
Indium	92	60	125
Holmium	90	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.14
Nickel	1.90
Copper	<2.00
Zinc	5.45
Arsenic	16.6 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	29.6
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	SLR-7-092313	Client:	SLR International Corp.
Date Received:	09/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	309396-15
Date Analyzed:	09/26/13	Data File:	309396-15.051
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	89	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.436
Nickel	6.35
Copper	<2.00
Zinc	5.01
Arsenic	2.30 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	14.5
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/25/13	Lab ID:	I3-608 mb
Date Analyzed:	09/26/13	Data File:	I3-608 mb.054
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	93	60	125
Indium	91	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<2.00
Zinc	<2.50
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Date of Report: 10/08/13
Date Received: 09/23/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396
Date Extracted: 09/25/13
Date Analyzed: 09/26/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
SLR-6-092313 309396-01	<0.0015
DMW-3-092313 309396-02	<0.0015
EMW-11S-092313 309396-03	0.0016
DMW-6-092313 309396-04	<0.0015
EMW-6S-092313 309396-05	<0.0015
EMW-7S-092313 309396-06	<0.0015
HC-20-092313 309396-07	<0.0015
DMW-2-092313 309396-08	<0.0015
EMW-9S-092313 309396-09	<0.0015
SLR-3-092313 309396-10	0.0022
SLR-2-092313 309396-11	0.0018
SLR-1-092313 309396-12	0.0046
EMW-2S-092313 309396-13	<0.0015

Date of Report: 10/08/13
Date Received: 09/23/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396
Date Extracted: 09/25/13
Date Analyzed: 09/26/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
EMW-1S-092313 309396-14	0.0032
SLR-7-092313 309396-15	<0.0015
Method Blank	<0.0015

Date of Report: 10/08/13
Date Received: 09/23/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396
Date Extracted: 09/25/13
Date Analyzed: 09/26/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
SLR-6-092313 309396-01	<0.0015
DMW-3-092313 309396-02	<0.0015
EMW-11S-092313 309396-03	0.0016
DMW-6-092313 309396-04	<0.0015
EMW-6S-092313 309396-05	<0.0015
EMW-7S-092313 309396-06	<0.0015
HC-20-092313 309396-07	<0.0015
DMW-2-092313 309396-08	<0.0015
EMW-9S-092313 309396-09	<0.0015
SLR-3-092313 309396-10	0.0020
SLR-2-092313 309396-11	<0.0015
SLR-1-092313 309396-12	<0.0015
EMW-2S-092313 309396-13	<0.0015

Date of Report: 10/08/13
Date Received: 09/23/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396
Date Extracted: 09/25/13
Date Analyzed: 09/26/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
EMW-1S-092313 309396-14	<0.0015
SLR-7-092313 309396-15	<0.0015
Method Blank	<0.0015

Date of Report: 10/08/13
Date Received: 09/23/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396
Date Extracted: NA
Date Analyzed: 9/26/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
SLR-6-092313 309396-01	<10
DMW-3-092313 309396-02	24
EMW-11S-092313 309396-03	<10
DMW-6-092313 309396-04	<10
EMW-6S-092313 309396-05	<10
EMW-7S-092313 309396-06	<10
HC-20-092313 309396-07	<10
DMW-2-092313 309396-08	<10
EMW-9S-092313 309396-09	<10
SLR-3-092313 309396-10	<10
SLR-2-092313 309396-11	<10
SLR-1-092313 309396-12	<10
EMW-2S-092313 309396-13	<10

Date of Report: 10/08/13
Date Received: 09/23/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396
Date Extracted: NA
Date Analyzed: 9/26/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
EMW-1S-092313 309396-14	130
SLR-7-092313 309396-15	16
Method Blank	<10

Date of Report: 10/08/13
Date Received: 09/23/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 309396-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	109	105	67-145	4
Chromium	ug/L (ppb)	20	2.09	99	94	64-132	5
Nickel	ug/L (ppb)	20	2.00	97	91	61-128	6
Copper	ug/L (ppb)	20	<2.00	98	92	63-124	6
Zinc	ug/L (ppb)	50	<2.50	98	93	55-141	5
Arsenic	ug/L (ppb)	10	0.252 ip	103	99	60-150	4
Selenium	ug/L (ppb)	5	<0.560 ip	109	105	43-178	4
Silver	ug/L (ppb)	5	<0.0640	92	90	71-115	2
Cadmium	ug/L (ppb)	5	<0.0940	95	91	83-116	4
Antimony	ug/L (ppb)	20	<1.25	96	94	62-125	2
Barium	ug/L (ppb)	50	18.7	99 b	93 b	79-126	6 b
Thallium	ug/L (ppb)	5	<0.0740	95	92	73-119	3
Lead	ug/L (ppb)	10	<0.144	93	89	79-121	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	100	73-135
Chromium	ug/L (ppb)	20	98	80-119
Nickel	ug/L (ppb)	20	99	79-122
Copper	ug/L (ppb)	20	106	81-119
Zinc	ug/L (ppb)	50	96	76-124
Arsenic	ug/L (ppb)	10	92	80-111
Selenium	ug/L (ppb)	5	98	81-119
Silver	ug/L (ppb)	5	96	80-116
Cadmium	ug/L (ppb)	5	96	83-113
Antimony	ug/L (ppb)	20	94	79-108
Barium	ug/L (ppb)	50	98	83-117
Thallium	ug/L (ppb)	5	94	78-116
Lead	ug/L (ppb)	10	93	83-115

Date of Report: 10/08/13
Date Received: 09/23/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: 309396-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	107	108	67-145	1
Chromium	ug/L (ppb)	20	0.363	90	89	64-132	1
Nickel	ug/L (ppb)	20	1.87	89	89	61-128	0
Copper	ug/L (ppb)	20	3.20	87	88	63-124	1
Zinc	ug/L (ppb)	50	4.70	89	89	55-141	0
Arsenic	ug/L (ppb)	10	0.304 ip	92	91	60-150	1
Selenium	ug/L (ppb)	5	<0.560 ip	92	90	43-178	2
Silver	ug/L (ppb)	5	<0.0640	84	85	71-115	1
Cadmium	ug/L (ppb)	5	<0.0940	91	95	83-116	4
Antimony	ug/L (ppb)	20	<1.25	94	98	62-125	4
Barium	ug/L (ppb)	50	19.6	93 b	92 b	79-126	1 b
Thallium	ug/L (ppb)	5	<0.0740	91	95	73-119	4
Lead	ug/L (ppb)	10	<0.144	91	91	79-121	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	102	73-135
Chromium	ug/L (ppb)	20	91	80-119
Nickel	ug/L (ppb)	20	95	79-122
Copper	ug/L (ppb)	20	95	81-119
Zinc	ug/L (ppb)	50	101	76-124
Arsenic	ug/L (ppb)	10	91	80-111
Selenium	ug/L (ppb)	5	93	81-119
Silver	ug/L (ppb)	5	95	80-116
Cadmium	ug/L (ppb)	5	98	83-113
Antimony	ug/L (ppb)	20	93	79-108
Barium	ug/L (ppb)	50	101	83-117
Thallium	ug/L (ppb)	5	97	78-116
Lead	ug/L (ppb)	10	95	83-115

Date of Report: 10/08/13
Date Received: 09/23/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 309396-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	98	100	63-132	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	97	78-118

Date of Report: 10/08/13
Date Received: 09/23/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: 309396-06 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	98	96	63-132	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	98	78-118

Date of Report: 10/08/13
Date Received: 09/23/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309396

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 309396-15 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	16	15	6	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	98	100	61-131	2

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

October 7, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 309396
ARI Job No.: XG33

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted fifteen water samples on September 24, 2013 under ARI job XG33. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile XG33

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • 206-695-6200 • 206-695-6201 fax

X955

SAMPLE CHAIN OF CUSTODY

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.	PO #
309396	C-553

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
☒ Standard Turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500			Notes
SLR-6-092313		9/23/13	1027	water	2									X	X			
DMW-3-092313			1214											X	X			
EMW-11S-092313			1332											X	X			
DMW-6-092313			1436											X	X			
EMW-6S-092313			1023											X	X			
EMW-7S-092313			1135											X	X			
HC-20-092313			1242											X	X			
DMW-2-092313			1353											X	X			
EMW-9S-092313			1511											X	X			
SLR-3-092313			1515											X	X			

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Michele Costales Poquiz	F&B	9/24/13	10:57 AM
Received by:	A Volgardsen	ARI	9/24/13	1157
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC SLRC.DOC

29999 X955

SAMPLE CHAIN OF CUSTODY

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.	PO #
309396	C-553

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
☒ Standard Turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500			Notes
						ANALYSES REQUESTED												
SLR-2-092313		9/23/13	1250	water	2									X	X			
SLR-1-092313			1210											X	X			
EMW-2S-092313			1010											X	X			
EMW-1S-092313			1330											X	X			
SLR-7-092313			1430											X	X			

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Michele Costales Poquiz	F&B1	9/24/13	10:57AM
Received by:	A. Vogel	ARI	9/24/13	1157
Relinquished by:				
Received by:				

FORMS\COC\COC SLRC.DOC

SSGDS-553X

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Friedman & Bruya
COC No(s): _____ (NA)
Assigned ARI Job No: XG33

Project Name: _____
Delivered by: Fed-Ex UPS (Courier) Hand Delivered Other: Fed Ex Express
Tracking No: 4514189 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2 0-6.0 °C for chemistry) 6.6
Time: 1156
If cooler temperature is out of compliance fill out form 00070F
Temp Gun ID#: 70277952

Cooler Accepted by: AV Date: 9/24/13 Time: 1157

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? Bubble Wrap Wet Ice (Gel Packs) Baggies Foam Block Paper Other:			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs).	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI...	(NA)		

Was Sample Split by ARI (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

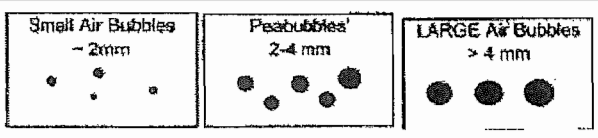
Samples Logged by: AV Date: 9/24/13 Time: 1246

***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By Date:



Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: XG33
Client: Friedman and Bruya, Inc
Project Event: 309396
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	SLR-6-092313	XG33A	13-20400	Water	09/23/13 10:27	09/24/13 11:57
2.	DMW-3-092313	XG33B	13-20401	Water	09/23/13 12:14	09/24/13 11:57
3.	EMW-11S-092313	XG33C	13-20402	Water	09/23/13 13:32	09/24/13 11:57
4.	DMW-6-092313	XG33D	13-20403	Water	09/23/13 14:36	09/24/13 11:57
5.	EMW-6S-092313	XG33E	13-20404	Water	09/23/13 10:23	09/24/13 11:57
6.	EMW-7S-092313	XG33F	13-20405	Water	09/23/13 11:35	09/24/13 11:57
7.	HC-20-092313	XG33G	13-20406	Water	09/23/13 12:42	09/24/13 11:57
8.	DMW-2-092313	XG33H	13-20407	Water	09/23/13 13:53	09/24/13 11:57
9.	EMW-9S-092313	XG33I	13-20408	Water	09/23/13 15:11	09/24/13 11:57
10.	SLR-3-092313	XG33J	13-20409	Water	09/23/13 15:15	09/24/13 11:57
11.	SLR-2-092313	XG33K	13-20410	Water	09/23/13 12:50	09/24/13 11:57
12.	SLR-1-092313	XG33L	13-20411	Water	09/23/13 12:10	09/24/13 11:57
13.	EMW-2S-092313	XG33M	13-20412	Water	09/23/13 10:10	09/24/13 11:57
14.	EMW-1S-092313	XG33N	13-20413	Water	09/23/13 13:30	09/24/13 11:57
15.	SLR-7-092313	XG33O	13-20414	Water	09/23/13 14:30	09/24/13 11:57

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: SLR-6-092313
ARI ID: 13-20400 XG33A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	224
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	2.0	11.5

RL Analytical reporting limit
U Undetected at reported detection limit

XG33 : 60066

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: DMW-3-092313
ARI ID: 13-20401 XG33B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	200
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	5.0	11.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: EMW-11S-092313
ARI ID: 13-20402 XG33C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	250
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	1.0	6.5

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: DMW-6-092313
ARI ID: 13-20403 XG33D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	230
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	5.0	11.3

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: EMW-6S-092313
ARI ID: 13-20404 XG33E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	225
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	1.0	6.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: EMW-7S-092313
ARI ID: 13-20405 XG33F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	240
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	5.0	6.3

RL Analytical reporting limit
U Undetected at reported detection limit

XG33:00011

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: HC-20-092313
ARI ID: 13-20406 XG33G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	200
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	1.0	4.8

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: DMW-2-092313
ARI ID: 13-20407 XG33H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	268
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	1.0	9.1

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: EMW-9S-092313
ARI ID: 13-20408 XG33I

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	244
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	5.0	9.6

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: SLR-3-092313
ARI ID: 13-20409 XG33J

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	13.3	1,250
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	20.0	42.2

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: SLR-2-092313
ARI ID: 13-20410 XG33K

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	218
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	1.0	2.4

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: SLR-1-092313
ARI ID: 13-20411 XG33L

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	259
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	2.0	11.7

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: EMW-2S-092313
ARI ID: 13-20412 XG33M

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	234
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	5.0	10.0

RL Analytical reporting limit
U Undetected at reported detection limit

XG33:00018

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: EMW-1S-092313
ARI ID: 13-20413 XG33N

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	10.0	328
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	5.0	5.7

RL Analytical reporting limit
U Undetected at reported detection limit

XG33:00019

SAMPLE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Client ID: SLR-7-092313
ARI ID: 13-20414 XG33O

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	09/26/13 092613#1	SM2540C	mg/L	5.0	268
Chloride	10/01/13 100113#1	SM4500-CLE	mg/L	1.0	6.7

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: XG33A Client ID: SLR-6-092313							
Chloride	SM4500-CLE	10/01/13	mg/L	11.5	38.9	25.0	109.6%

XG33:00021

REPLICATE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: 09/23/13
Date Received: 09/24/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: XG33A Client ID: SLR-6-092313						
Total Dissolved Solids	SM2540C	09/26/13	mg/L	224	226	0.9%
Chloride	SM4500-CLE	10/01/13	mg/L	11.5	11.4	0.9%

XG33 : 060822

LAB CONTROL RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	09/26/13	mg/L	490	500	98.0%

METHOD BLANK RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	09/26/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/01/13	mg/L	< 1.0 U	FB

FB Filtration Blank

XG33 : 00024

STANDARD REFERENCE RESULTS-CONVENTIONALS
XG33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/07/13

Project: NA
Event: 309396
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/01/13	mg/L	5.0	5.0	100.0%

309396

SAMPLE CHAIN OF CUSTODY

Ky 09-23-13 BL4

Page # 1 of 2

Send Report To Mike Staton

Company SLR International Corporation

Address 22118 20th Ave SE, G-202

City, State, ZIP Bothell, WA 98021

Phone # (425) 402-8800 Fax # (425) 402-8188

SAMPLERS *(signature)*

PROJECT NAME/NO.: 8th Ave Terminals, Inc Site Crowley 101-00205.00030

PO#: 101.00205.00030

REMARKS

TURNAROUND TIME
- [x] Standard (2 Weeks)
- [ ] RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- [ ] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Total Priority Pollutant metals & Ba by 200.8	Total Hg by 1631E	Dissolved Priority Pollutant metals & Ba by 200.8	Dissolved Hg by 1631E	TSS by 2540D	TDS by 2540C	Chloride by SM4500	Notes
SLR-6-092313	01A-P	9/23/13	1027	WATER	6							X	X	X	X	X	X	X	
DMW-3-092313	02		1214																
EMW-1S-092313	03		1332																
DMW-6-092313	04		1436																
EMW-6S-092313	05		1023																
EMW-7S-092313	06		1135																
HC-20-092313	07		1242																
DMW-2-092313	08		1353																
EMW-9S-092313	09		1511																
SLR-3-092313	10	↓	1515	↓	↓							↓	↓	↓	↓	↓	↓	↓	

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengniot	SLR	9/23/13	1620
Received by:	N/N/A	FRI	9/23/13	1620
Relinquished by:				
Received by:		Samples received at 3 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC.DOC

309396

SAMPLE CHAIN OF CUSTODY

KJ 09-23-13

BI4

Page # 2 of 2

Send Report To Mike Staton

Company SLR International Corp

Address 22118 20th Ave SE, G202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax # 425-402-8788

SAMPLERS *(signature)*

PROJECT NAME/NO.: 8th Ave Terminals, Inc Site Cowley 101.0025.0030

PO#: 101.0025.0030

REMARKS

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS	Total Phenols by Method 420.1	Total Hg by 1631E	Dissolved Methyl Hg by Method 1630	Dissolved Hg by 1631E	TSS by 2540D	TDS by 2540C	Chlorides by SM4500	Notes
SLR-2-092313	11A	9/23/13	1250	WATER	6							X	X	X	X	X	X	X	
SLR-1-092313	12		1210																
EMW-25-092313	13		1010																
EMW-15-092313	14		1330																
SLR-7-092313	15		1430																

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengist	SLR	9/23/13	1620
Received by:	VINH	FBI	9/23/13	1620
Relinquished by:				
Received by:		Samples received at 3 °C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 19, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the amended results from the testing of material submitted on September 26, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475 project. The results for total and dissolved arsenic and selenium have been flagged due to matrix interference.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR1008R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

October 8, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on September 26, 2013 from the 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475 project. There are 14 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR1008R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 26, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
309475-01	CMW-7-092613

Total Metals by EPA Method 200.8

The reporting limits for copper, zinc and antimony were raised due to potential low level laboratory contamination.

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

Dissolved Metals by EPA Method 200.8

The reporting limits for copper, zinc and antimony were raised due to potential low level laboratory contamination.

Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

Total Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Dissolved Mercury by EPA Method 1631E

The reporting limit was raised due to potential low level laboratory contamination.

Total Suspended Solids by Method 2540D

All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C

The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI will be forwarded to your office upon receipt.

Chloride by Method SM4500

The samples were sent to ARI for analysis. The report generated by ARI will be forwarded to your office upon receipt.

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-7-092613	Client:	SLR International Corp.
Date Received:	09/26/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	309475-01
Date Analyzed:	09/30/13	Data File:	309475-01.073
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	66	60	125
Indium	64	60	125
Holmium	71	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.03
Nickel	3.80
Copper	10.5
Zinc	<2.50
Arsenic	4.31 ip
Selenium	15.0 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	53.0
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/27/13	Lab ID:	I3-618 mb
Date Analyzed:	09/30/13	Data File:	I3-618 mb.011
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	101	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<2.00
Zinc	<2.50
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-7-092613	Client:	SLR International Corp.
Date Received:	09/26/13	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	309475-01
Date Analyzed:	10/02/13	Data File:	309475-01.063
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	79	60	125
Indium	77	60	125
Holmium	80	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.575
Nickel	5.55
Copper	8.33
Zinc	<2.50
Arsenic	4.54 ip
Selenium	15.4 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	51.4
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	Not Applicable	Project:	Crowley 101.00205.00030
Date Extracted:	09/30/13	Lab ID:	I3-622 mb
Date Analyzed:	10/02/13	Data File:	I3-622 mb.044
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	83	60	125
Indium	83	60	125
Holmium	85	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<2.00
Zinc	<2.50
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<1.25
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Date of Report: 10/08/13
Date Received: 09/26/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475
Date Extracted: 09/30/13
Date Analyzed: 10/03/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
CMW-7-092613 309475-01	0.0015
Method Blank	<0.0015

Date of Report: 10/08/13
Date Received: 09/26/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475
Date Extracted: 09/30/13
Date Analyzed: 10/01/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
CMW-7-092613 309475-01	<0.0015
Method Blank	<0.0015

Date of Report: 10/08/13
Date Received: 09/26/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475
Date Extracted: NA
Date Analyzed: 9/30/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
CMW-7-092613 309475-01	<10
Method Blank	<10

Date of Report: 10/08/13
Date Received: 09/26/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 309420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	103	101	67-145	2
Chromium	ug/L (ppb)	20	0.601	101	103	64-132	2
Nickel	ug/L (ppb)	20	3.34	97	95	61-128	2
Copper	ug/L (ppb)	20	<2.00	100	97	63-124	3
Zinc	ug/L (ppb)	50	<2.50	98	95	55-141	3
Arsenic	ug/L (ppb)	10	0.321 ip	104	103	60-150	1
Selenium	ug/L (ppb)	5	<0.560 ip	105	106	43-178	1
Silver	ug/L (ppb)	5	<0.0640	96	99	71-115	3
Cadmium	ug/L (ppb)	5	<0.0940	102	100	83-116	2
Antimony	ug/L (ppb)	20	<1.25	101	101	62-125	0
Barium	ug/L (ppb)	50	10.3	103 b	100 b	79-126	3 b
Thallium	ug/L (ppb)	5	<0.0740	98	96	73-119	2
Lead	ug/L (ppb)	10	<0.144	96	95	79-121	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	104	73-135
Chromium	ug/L (ppb)	20	106	80-119
Nickel	ug/L (ppb)	20	105	79-122
Copper	ug/L (ppb)	20	112	81-119
Zinc	ug/L (ppb)	50	102	76-124
Arsenic	ug/L (ppb)	10	99	80-111
Selenium	ug/L (ppb)	5	103	81-119
Silver	ug/L (ppb)	5	106	80-116
Cadmium	ug/L (ppb)	5	103	83-113
Antimony	ug/L (ppb)	20	102	79-108
Barium	ug/L (ppb)	50	105	83-117
Thallium	ug/L (ppb)	5	102	78-116
Lead	ug/L (ppb)	10	99	83-115

Date of Report: 10/08/13
Date Received: 09/26/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	97	91	73-135	6
Chromium	ug/L (ppb)	20	100	94	80-119	6
Nickel	ug/L (ppb)	20	100	95	79-122	5
Copper	ug/L (ppb)	20	98	95	81-119	3
Zinc	ug/L (ppb)	50	98	93	76-124	5
Arsenic	ug/L (ppb)	10	96	92	80-111	4
Selenium	ug/L (ppb)	5	104	92	81-119	12
Silver	ug/L (ppb)	5	104	99	80-116	5
Cadmium	ug/L (ppb)	5	99	96	83-113	3
Antimony	ug/L (ppb)	20	99	97	79-108	2
Barium	ug/L (ppb)	50	106	101	83-117	5
Thallium	ug/L (ppb)	5	103	103	78-116	0
Lead	ug/L (ppb)	10	100	97	83-115	3

Date of Report: 10/08/13
Date Received: 09/26/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 309420-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	<0.0015	96	99	63-132	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	103	78-118

Date of Report: 10/08/13
Date Received: 09/26/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	99	100	78-118	1

Date of Report: 10/08/13
Date Received: 09/26/13
Project: 8th Ave Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309475

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 309514-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<10	<10	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	83	91	61-131	9

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

October 9, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 309475
ARI Job No.: XH33

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted one water sample on September 30, 2013 under ARI job XH33. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The sample was analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of this sample.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile XH33

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

X4133

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO. 309475

PO # C-561

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
☒ Standard Turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED: TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500			Notes
CMW-7-092613		9/26/13	1112	water	2									X	X			

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Michele Costales Poquiz	Michele Costales Poquiz	FB	9/26/13	12:12 PM
Received by:	Taylor Streeter	ARI	9-30-13	1425
Relinquished by:				
Received by:				

FORMS\COC\COC SLRC.DOC

X4133 SAMPLE CHAIN

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client. Friedman & Bruya

Project Name. _____

COC No(s) _____ (NA)

Delivered by. Fed-Ex UPS Courier Hand Delivered Other: Postal Service

Assigned ARI Job No. XH33

Tracking No: _____ NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2 0-6.0 °C for chemistry) 1.9

Time. 1425

If cooler temperature is out of compliance fill out form 00070F

Temp Gun ID#. 90877952

Cooler Accepted by: TB Date 9-30-13 Time 1425

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used?	Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:		
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

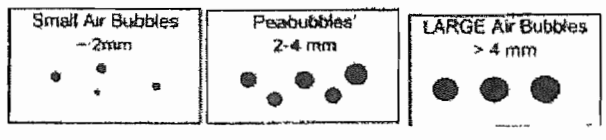
Samples Logged by AV Date: 9/30/13 Time. 1436

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By. Date:



Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: XH33
Client: Friedman and Bruya, Inc
Project Event: 309475
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	CMW-7-092613	XH33A	13-21145	Water	09/26/13 11:12	09/30/13 14:25

XH33 : 000004

SAMPLE RESULTS-CONVENTIONALS
XH33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309475
Date Sampled: 09/26/13
Date Received: 09/30/13

Client ID: CMW-7-092613
ARI ID: 13-21145 XH33A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/01/13 100113#1	SM2540C	mg/L	50.0	2,380
Chloride	10/08/13 100813#1	SM4500-CLE	mg/L	200	1,260

RL Analytical reporting limit
U Undetected at reported detection limit

REPLICATE RESULTS-CONVENTIONALS
XH33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309475
Date Sampled: 09/26/13
Date Received: 09/30/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: XH33A Client ID: CMW-7-092613						
Total Dissolved Solids	SM2540C	10/01/13	mg/L	2,380	2,500	4.9%

LAB CONTROL RESULTS-CONVENTIONALS
XH33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309475
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	10/01/13	mg/L	494	500	98.8%

METHOD BLANK RESULTS-CONVENTIONALS
XH33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309475
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	10/01/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/08/13	mg/L	< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
XH33-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/09/13

Project: NA
Event: 309475
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/08/13	mg/L	4.9	5.0	98.0%

XH33 . 00009

309475

SAMPLE CHAIN OF CUSTODY

KJ 09/26/13

AIS

Page # 1 of

Send Report To Mike Staton

Company SLR International Corp

Address 22118 20th Ave SE, G202

City, State, ZIP Bothell, WA, 98021

Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS *(signature)*

PROJECT NAME/NO.: 8th Ave Terminals, Inc Site Crowley 101.00285.00030

PO#: 101.00205.00030

REMARKS

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by8260	SVOCs by 8270	HFS	Total Priority Pollutant Metals + Be 200.8	Total Hg by 1631E	Dissolved Priority Pollutant Metals + Be 200.8	Dissolved Hg by 1631E	TSS by 2540D	TDS by 2540C	Chloride by SM4500	Notes
CMW-7-092613	01 A-F	9/26/13	1112	WATER	6							X	X	X	X	X	X	X	
														Samples received at 4 °C					

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengniot	SLR	9/26/13	1250
Received by:	Kurt Johnson	FSB	9/26/13	1250
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 21, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the amended results from the testing of material submitted on September 30, 2013 from the 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543 project. The arsenic and selenium results for sample ENW-14D-093013 have been flagged.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR1105R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

November 5, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on September 30, 2013 from the 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543 project. There are 84 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR1105R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on September 30, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
309543-01	CMW-5-093013
309543-02	DMW-2-093013
309543-03	EMW-9S-093013
309543-04	CMW-3-093013
309543-05	EMW-1S-093013
309543-06	EMW-14D-093013
309543-07	EMW-11S-093013
309543-08	DMW-3-093013
309543-09	TB-093013

Total Petroleum Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

All quality control requirements were acceptable.

Volatile Compounds by EPA Method 8260C

The trip blank sample was received with incorrect preservation for the 8260 analysis of vinyl chloride. In addition, only preserved vials were available for the dilution of the sample DMW-3-093013, therefore vinyl chloride was analyzed with incorrect preservation. The results should be considered estimates.

The presence of methylene chloride in the trip blank sample is likely due to laboratory contamination. The result has been flagged accordingly.

The percent recovery for the matrix spike (MS), laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) failed high for bromomethane. This analyte was not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The samples DMW-2-093013 and DMW-3-093013 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

The calibration result for 4,6-dinitro-2-methylphenol fell outside of acceptance criteria for the samples DMW-2-093013, EMW-9S-093013, EMW-11S-093013 and DMW-3-093013. The values reported are estimates.

The presence of bis(2-ethylhexyl) phthalate in the samples DMW-2-093013, EMW-9S-093013, CMW-3-093013, EMW-11S-093013, and the method blank is likely due to laboratory contamination. The results have been flagged accordingly.

The relative percent difference (RPD) for the LCS/LCSD failed high for 2,4-dimethylphenol and 2,4-dinitrophenol. These analytes were not identified in the samples, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D SIM
The samples DMW-2-093013 and DMW-3-093013 were diluted due to matrix interferences. The reporting limits have been raised accordingly.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A
All quality control requirements were acceptable.

Total Metals by EPA Method 200.8
Compounds in the sample matrix interfered with the quantitation of arsenic and selenium. The results have been flagged accordingly.

The internal standard associated with several analytes exceeded acceptance criteria for the samples CMW-3-093013 and EMW-14D-093013. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Dissolved Metals by EPA Method 200.8
Arsenic, selenium and copper were not reported. Please see the report issued by Applied Speciation and Consulting (ASC) for results for these analytes.

The internal standard associated with several analytes exceeded acceptance criteria for the samples CMW-3-093013 and EMW-14D-093013. The samples were diluted and reanalyzed. The results for the full strength and the dilution analyses are included.

Total Mercury by EPA Method 1631E
The reporting limit was raised due to potential low level laboratory contamination.

Dissolved Mercury by EPA Method 1631E
The reporting limit was raised due to potential low level laboratory contamination.

Total Suspended Solids by Method 2540D
All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540C
The samples were sent to Analytical Resources, Inc. (ARI) for analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500
The samples were sent to ARI for analysis. The report generated by ARI is enclosed.

Dissolved Metals by ICP-DRC-MS
The samples were sent to Applied Speciation and Consulting (ASC) for analysis. The report generated by ASC is enclosed.

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543
Date Extracted: 10/07/13
Date Analyzed: 10/07/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
CMW-5-093013 309543-01	<12	80
DMW-2-093013 309543-02	32	84
EMW-9S-093013 309543-03	<12	78
CMW-3-093013 309543-04	<12	78
EMW-1S-093013 309543-05	<12	80
EMW-14D-093013 309543-06	<12	77
EMW-11S-093013 309543-07	<12	77
DMW-3-093013 309543-08	710	87
Method Blank 03-1960 MB	<12	76

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543
Date Extracted: 10/03/13
Date Analyzed: 10/11/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 51-134)
CMW-5-093013 309543-01	<6.9	<52	91
DMW-2-093013 309543-02	100 x	<52	92
EMW-9S-093013 309543-03	<6.9	<52	98
CMW-3-093013 309543-04	<6.9	<52	93
EMW-1S-093013 309543-05	<6.9	<52	97
EMW-14D-093013 309543-06	<6.9	<52	80
EMW-11S-093013 309543-07	<6.9	<52	110
DMW-3-093013 309543-08	2,500 x	<52	94
Method Blank 03-1982 MB	<6.9	<52	84

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-5-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-01
Date Analyzed:	10/07/13	Data File:	100727.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	0.57	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-02
Date Analyzed:	10/07/13	Data File:	100729.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	0.30	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	0.26
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	0.15	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	3.5
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-9S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-03
Date Analyzed:	10/07/13	Data File:	100730.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	0.25	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-04
Date Analyzed:	10/07/13	Data File:	100731.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-1S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-05
Date Analyzed:	10/07/13	Data File:	100732.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-06
Date Analyzed:	10/07/13	Data File:	100733.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	EMW-11S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-07
Date Analyzed:	10/07/13	Data File:	100734.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-08
Date Analyzed:	10/07/13	Data File:	100735.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	0.35
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	0.33
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	0.71	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	0.25
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	1.5
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	0.24
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	620 ve
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-08 1/10
Date Analyzed:	10/08/13	Data File:	100832.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1.6	1,3-Dichloropropane	<2
Chloromethane	<2.2	Tetrachloroethene	<2.8
Vinyl chloride	<1.3 pr	Dibromochloromethane	<2.4
Bromomethane	<2	1,2-Dibromoethane (EDB)	<2.4
Chloroethane	<1.8	Chlorobenzene	<1
Trichlorofluoromethane	<1.7	Ethylbenzene	<1.6
Acetone	<26	1,1,1,2-Tetrachloroethane	<3.2
1,1-Dichloroethene	<1.9	m,p-Xylene	<5
Methylene chloride	<30	o-Xylene	<2.2
Methyl t-butyl ether (MTBE)	<1.3	Styrene	<2.2
trans-1,2-Dichloroethene	<2.4	Isopropylbenzene	<1.5
1,1-Dichloroethane	<1.8	Bromoform	<2.2
2,2-Dichloropropane	<3	n-Propylbenzene	<1.4
cis-1,2-Dichloroethene	<2.4	Bromobenzene	<1.8
Chloroform	<2.4	1,3,5-Trimethylbenzene	<1.8
2-Butanone (MEK)	<9.4	1,1,2,2-Tetrachloroethane	<2.4
1,2-Dichloroethane (EDC)	<1.1	1,2,3-Trichloropropane	<2.8
1,1,1-Trichloroethane	<2	2-Chlorotoluene	<1.3
1,1-Dichloropropene	<2.6	4-Chlorotoluene	<1.6
Carbon tetrachloride	<2.4	tert-Butylbenzene	<1.5
Benzene	<1.3	1,2,4-Trimethylbenzene	2.2
Trichloroethene	<1.7	sec-Butylbenzene	<1.2
1,2-Dichloropropane	<3.2	p-Isopropyltoluene	<1.5
Bromodichloromethane	<3.8	1,3-Dichlorobenzene	<1.5
Dibromomethane	<2.8	1,4-Dichlorobenzene	<0.94 j
4-Methyl-2-pentanone	<13	1,2-Dichlorobenzene	<1.3
cis-1,3-Dichloropropene	<2	1,2-Dibromo-3-chloropropane	<4.4 j
Toluene	<1.3	1,2,4-Trichlorobenzene	<3.4
trans-1,3-Dichloropropene	<3.4	Hexachlorobutadiene	<4.6
1,1,2-Trichloroethane	<2.8	Naphthalene	660
2-Hexanone	<10	1,2,3-Trichlorobenzene	<3.8

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TB-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-09
Date Analyzed:	10/07/13	Data File:	100728.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	98	50	150
4-Bromofluorobenzene	97	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13 pr	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	8.6 lc	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	03-1992 mb
Date Analyzed:	10/07/13	Data File:	100726.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44 j
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-5-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-01
Date Analyzed:	10/04/13	Data File:	100408.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	41	32	162
Phenol-d6	29	10	170
Nitrobenzene-d5	99	50	150
2-Fluorobiphenyl	96	43	158
2,4,6-Tribromophenol	117	43	146
Terphenyl-d14	94	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	<0.17
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-02
Date Analyzed:	10/07/13	Data File:	100704.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	54	32	162
Phenol-d6	37	10	170
Nitrobenzene-d5	106	50	150
2-Fluorobiphenyl	103	43	158
2,4,6-Tribromophenol	135	43	146
Terphenyl-d14	111	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.18	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	2.0
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38 ca
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	3.4
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.17 fb
2-Methylnaphthalene	16 ve	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-02 1/10
Date Analyzed:	10/07/13	Data File:	100709.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	57 ds	32	162
Phenol-d6	31 ds	10	170
Nitrobenzene-d5	90 ds	50	150
2-Fluorobiphenyl	100 ds	43	158
2,4,6-Tribromophenol	111 ds	43	146
Terphenyl-d14	137 ds	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<2.8
Bis(2-chloroethyl) ether	<0.6	2,4,5-Trichlorophenol	<2.2
2-Chlorophenol	<1.6	2-Chloronaphthalene	<0.44
1,3-Dichlorobenzene	<0.34	2-Nitroaniline	<0.86
1,4-Dichlorobenzene	<0.34	Dimethyl phthalate	<0.5
1,2-Dichlorobenzene	<0.24	2,6-Dinitrotoluene	<0.62
Benzyl alcohol	<4	3-Nitroaniline	<4.6
Bis(2-chloroisopropyl) ether	<0.3	2,4-Dinitrophenol	<24
2-Methylphenol	<2.6	Dibenzofuran	1.9
Hexachloroethane	<0.6	2,4-Dinitrotoluene	<0.56
N-Nitroso-di-n-propylamine	<1.1	4-Nitrophenol	<13
3-Methylphenol + 4-Methylphenol	<4.2	Diethyl phthalate	<0.6
Nitrobenzene	<0.44	4-Chlorophenyl phenyl ether	<0.72
Isophorone	<0.3	N-Nitrosodiphenylamine	<0.5
2-Nitrophenol	<1.7	4-Nitroaniline	<5.6
2,4-Dimethylphenol	<2.8	4,6-Dinitro-2-methylphenol	<3.8 ca
Benzoic acid	<140	4-Bromophenyl phenyl ether	<0.56
Bis(2-chloroethoxy)methane	<0.34	Hexachlorobenzene	<0.5
2,4-Dichlorophenol	<2.6	Pentachlorophenol	<3.2
1,2,4-Trichlorobenzene	<0.5	Carbazole	3.2
Hexachlorobutadiene	<0.7	Di-n-butyl phthalate	<0.68
4-Chloroaniline	<0.56	Benzyl butyl phthalate	<0.86
4-Chloro-3-methylphenol	<2.4	Bis(2-ethylhexyl) phthalate	<1.7
2-Methylnaphthalene	14	Di-n-octyl phthalate	<0.44
Hexachlorocyclopentadiene	<0.94		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-9S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-03
Date Analyzed:	10/07/13	Data File:	100710.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	52	32	162
Phenol-d6	32	10	170
Nitrobenzene-d5	95	50	150
2-Fluorobiphenyl	99	43	158
2,4,6-Tribromophenol	125	43	146
Terphenyl-d14	109	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	0.077
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38 ca
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	0.18
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.17 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-04
Date Analyzed:	10/04/13	Data File:	100410.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	54	32	162
Phenol-d6	38	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	97	43	158
2,4,6-Tribromophenol	114	43	146
Terphenyl-d14	99	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.24	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.28 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-1S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-05
Date Analyzed:	10/04/13	Data File:	100411.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	41	32	162
Phenol-d6	28	10	170
Nitrobenzene-d5	94	50	150
2-Fluorobiphenyl	92	43	158
2,4,6-Tribromophenol	115	43	146
Terphenyl-d14	82	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	<0.17
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-06
Date Analyzed:	10/04/13	Data File:	100412.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	50	32	162
Phenol-d6	36	10	170
Nitrobenzene-d5	85	50	150
2-Fluorobiphenyl	85	43	158
2,4,6-Tribromophenol	79	43	146
Terphenyl-d14	85	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	<0.17
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	EMW-11S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-07
Date Analyzed:	10/07/13	Data File:	100711.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	58	32	162
Phenol-d6	32	10	170
Nitrobenzene-d5	101	50	150
2-Fluorobiphenyl	99	43	158
2,4,6-Tribromophenol	118	43	146
Terphenyl-d14	116	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	0.38	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38 ca
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.20 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-08 1/100
Date Analyzed:	10/07/13	Data File:	100706.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	60 ds	32	162
Phenol-d6	33 ds	10	170
Nitrobenzene-d5	80 ds	50	150
2-Fluorobiphenyl	100 ds	43	158
2,4,6-Tribromophenol	100 ds	43	146
Terphenyl-d14	100 ds	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<14	2,4,6-Trichlorophenol	<28
Bis(2-chloroethyl) ether	<6	2,4,5-Trichlorophenol	<22
2-Chlorophenol	<16	2-Chloronaphthalene	<4.4
1,3-Dichlorobenzene	<3.4	2-Nitroaniline	<8.6
1,4-Dichlorobenzene	<3.4	Dimethyl phthalate	<5
1,2-Dichlorobenzene	<2.4	2,6-Dinitrotoluene	<6.2
Benzyl alcohol	<40	3-Nitroaniline	<46
Bis(2-chloroisopropyl) ether	<3	2,4-Dinitrophenol	<240
2-Methylphenol	<26	Dibenzofuran	97
Hexachloroethane	<6	2,4-Dinitrotoluene	<5.6
N-Nitroso-di-n-propylamine	<11	4-Nitrophenol	<130
3-Methylphenol + 4-Methylphenol	<42	Diethyl phthalate	<6
Nitrobenzene	<4.4	4-Chlorophenyl phenyl ether	<7.2
Isophorone	<3	N-Nitrosodiphenylamine	<5
2-Nitrophenol	<17	4-Nitroaniline	<56
2,4-Dimethylphenol	<28	4,6-Dinitro-2-methylphenol	<38 ca
Benzoic acid	<1,400	4-Bromophenyl phenyl ether	<5.6
Bis(2-chloroethoxy)methane	<3.4	Hexachlorobenzene	<5
2,4-Dichlorophenol	<26	Pentachlorophenol	<32
1,2,4-Trichlorobenzene	<5	Carbazole	66
Hexachlorobutadiene	<7	Di-n-butyl phthalate	<6.8
4-Chloroaniline	<5.6	Benzyl butyl phthalate	<8.6
4-Chloro-3-methylphenol	<24	Bis(2-ethylhexyl) phthalate	<17
2-Methylnaphthalene	190	Di-n-octyl phthalate	<4.4
Hexachlorocyclopentadiene	<9.4		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	03-1980 mb
Date Analyzed:	10/04/13	Data File:	100407.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	44	32	162
Phenol-d6	30	10	170
Nitrobenzene-d5	96	50	150
2-Fluorobiphenyl	100	43	158
2,4,6-Tribromophenol	118	43	146
Terphenyl-d14	119	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.19 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-5-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-01
Date Analyzed:	10/04/13	Data File:	100404.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	82	50	150
Benzo(a)anthracene-d12	96	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0064
Acenaphthylene	<0.0024
Acenaphthene	0.033
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	0.0069
Fluoranthene	<0.0046
Pyrene	0.0063
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-02
Date Analyzed:	10/05/13	Data File:	100430.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	106	50	150
Benzo(a)anthracene-d12	122	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	3.0 ve
Acenaphthylene	0.17
Acenaphthene	13 ve
Fluorene	4.7 ve
Phenanthrene	4.4 ve
Anthracene	0.33
Fluoranthene	0.25
Pyrene	0.15
Benz(a)anthracene	0.0054
Chrysene	0.0070
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	0.0088
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	0.0054

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-02 1/100
Date Analyzed:	10/07/13	Data File:	100707.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	266 ds	50	150
Benzo(a)anthracene-d12	84 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	3.6
Acenaphthylene	<0.24
Acenaphthene	17
Fluorene	4.8
Phenanthrene	5.3
Anthracene	0.29
Fluoranthene	<0.46
Pyrene	<0.36
Benz(a)anthracene	<0.42
Chrysene	<0.38
Benzo(a)pyrene	<0.78
Benzo(b)fluoranthene	<0.52
Benzo(k)fluoranthene	<0.76
Indeno(1,2,3-cd)pyrene	<0.7
Dibenz(a,h)anthracene	<0.4
Benzo(g,h,i)perylene	<0.44

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-9S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-03
Date Analyzed:	10/04/13	Data File:	100405.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	85	50	150
Benzo(a)anthracene-d12	93	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.013
Acenaphthylene	<0.0024
Acenaphthene	0.030
Fluorene	0.059
Phenanthrene	0.15
Anthracene	0.25
Fluoranthene	0.086
Pyrene	0.079
Benz(a)anthracene	0.013
Chrysene	0.022
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	0.0066
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-04
Date Analyzed:	10/04/13	Data File:	100415.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	116	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	0.0042
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-1S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-05
Date Analyzed:	10/04/13	Data File:	100416.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	105	50	150
Benzo(a)anthracene-d12	126	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0050
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	0.010
Anthracene	0.0043
Fluoranthene	0.0055
Pyrene	0.0048
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-06
Date Analyzed:	10/04/13	Data File:	100417.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	97	50	150
Benzo(a)anthracene-d12	108	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.015
Acenaphthylene	<0.0024
Acenaphthene	0.0096
Fluorene	0.0059
Phenanthrene	0.021
Anthracene	0.0065
Fluoranthene	0.012
Pyrene	0.0080
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	EMW-11S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-07
Date Analyzed:	10/04/13	Data File:	100418.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	109	50	150
Benzo(a)anthracene-d12	122	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.012
Acenaphthylene	<0.0024
Acenaphthene	0.068
Fluorene	0.0082
Phenanthrene	0.018
Anthracene	0.012
Fluoranthene	0.012
Pyrene	0.011
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-08 1/100
Date Analyzed:	10/05/13	Data File:	100431.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	573 ds	50	150
Benzo(a)anthracene-d12	153 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	430 ve
Acenaphthylene	4.1
Acenaphthene	250
Fluorene	140
Phenanthrene	140
Anthracene	13
Fluoranthene	11
Pyrene	7.5
Benz(a)anthracene	<0.42
Chrysene	<0.38
Benzo(a)pyrene	<0.78
Benzo(b)fluoranthene	<0.52
Benzo(k)fluoranthene	<0.76
Indeno(1,2,3-cd)pyrene	<0.7
Dibenz(a,h)anthracene	<0.4
Benzo(g,h,i)perylene	<0.44

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	309543-08 1/1000
Date Analyzed:	10/07/13	Data File:	100708.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	1320 ds	50	150
Benzo(a)anthracene-d12	120 ds	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	470
Acenaphthylene	4.1
Acenaphthene	280
Fluorene	140
Phenanthrene	160
Anthracene	12
Fluoranthene	10
Pyrene	7.1
Benz(a)anthracene	<4.2
Chrysene	<3.8
Benzo(a)pyrene	<7.8
Benzo(b)fluoranthene	<5.2
Benzo(k)fluoranthene	<7.6
Indeno(1,2,3-cd)pyrene	<7
Dibenz(a,h)anthracene	<4
Benzo(g,h,i)perylene	<4.4

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/03/13	Lab ID:	03-1981 mb
Date Analyzed:	10/04/13	Data File:	100403.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	101	50	150
Benzo(a)anthracene-d12	109	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-5-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-01 1/0.25
Date Analyzed:	10/17/13	Data File:	101670.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	97	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-02 1/0.25
Date Analyzed:	10/17/13	Data File:	101672.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	109	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-9S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-03 1/0.25
Date Analyzed:	10/17/13	Data File:	101674.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	108	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-04 1/0.25
Date Analyzed:	10/18/13	Data File:	101750.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	82	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-1S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-05 1/0.25
Date Analyzed:	10/18/13	Data File:	101752.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	89	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-06 1/0.25
Date Analyzed:	10/18/13	Data File:	101754.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	96	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	EMW-11S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-07 1/0.25
Date Analyzed:	10/18/13	Data File:	101756.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	93	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	309543-08 1/0.25
Date Analyzed:	10/18/13	Data File:	58.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	KJ

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	112	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/04/13	Lab ID:	03-1990 mb 1/0.25
Date Analyzed:	10/17/13	Data File:	101664.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MCP

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	115	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-5-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-01
Date Analyzed:	10/10/13	Data File:	309543-01.074
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	91	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.90
Nickel	1.57
Copper	<0.340
Zinc	<0.600
Arsenic	68.9 ip
Selenium	2.22 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.155
Barium	25.1
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-02
Date Analyzed:	10/10/13	Data File:	309543-02.067
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	101	60	125
Indium	89	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.04
Nickel	1.00
Copper	<0.340
Zinc	3.14
Arsenic	4.74 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0610
Barium	11.1
Thallium	<0.0740
Lead	0.757

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-9S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-03
Date Analyzed:	10/10/13	Data File:	309543-03.072
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	92	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.40
Nickel	0.768
Copper	<0.340
Zinc	2.05
Arsenic	17.5 ip
Selenium	0.964 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.316
Barium	56.6
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-04
Date Analyzed:	10/10/13	Data File:	309543-04.073
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	58 vo	60	125
Indium	55 vo	60	125
Holmium	55 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	0.622 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-04 x10
Date Analyzed:	10/10/13	Data File:	309543-04 x10.050
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	88	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.45
Nickel	5.89
Copper	7.17
Zinc	<6.00
Arsenic	26.6 ip
Selenium	60.3 ip
Silver	<0.640
Cadmium	<0.940
Antimony	5.52
Barium	269
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-1S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-05
Date Analyzed:	10/10/13	Data File:	309543-05.069
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	123	60	125
Indium	92	60	125
Holmium	91	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.13
Nickel	1.11
Copper	<0.340
Zinc	4.49
Arsenic	14.3 ip
Selenium	0.583 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.140
Barium	30.3
Thallium	<0.0740
Lead	0.371

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Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-06
Date Analyzed:	10/10/13	Data File:	309543-06.070
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	72	60	125
Indium	58 vo	60	125
Holmium	59 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.145 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-06 x10
Date Analyzed:	10/10/13	Data File:	309543-06 x10.052
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	92	60	125
Indium	90	60	125
Holmium	95	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	<1.38
Nickel	<4.60
Copper	5.19
Zinc	<6.00
Arsenic	13.8 ip
Selenium	53.8 ip
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	253
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	EMW-11S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-07
Date Analyzed:	10/10/13	Data File:	309543-07.068
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	102	60	125
Indium	92	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.69
Nickel	3.82
Copper	3.59
Zinc	21.5
Arsenic	4.38 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.440
Barium	469
Thallium	<0.0740
Lead	3.00

Analysis For Total Metals By EPA Method 200.8

Client ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-08
Date Analyzed:	10/10/13	Data File:	309543-08.043
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	109	60	125
Indium	96	60	125
Holmium	102	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.26
Nickel	0.728
Copper	<0.340
Zinc	<0.600
Arsenic	5.31 ip
Selenium	<0.560 ip
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.0730
Barium	12.6
Thallium	<0.0740
Lead	<0.144

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	I3-646 mb
Date Analyzed:	10/10/13	Data File:	I3-646 mb.011
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	100	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

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Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-5-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-01
Date Analyzed:	10/09/13	Data File:	309543-01.073
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	110	60	125
Indium	94	60	125
Holmium	97	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.77
Nickel	1.70
Zinc	1.20
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.169
Barium	23.2
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-2-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-02
Date Analyzed:	10/09/13	Data File:	309543-02.064
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	108	60	125
Indium	99	60	125
Holmium	100	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	2.11
Nickel	1.26
Zinc	3.52
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.742
Barium	10.7
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-9S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-03
Date Analyzed:	10/09/13	Data File:	309543-03.071
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	104	60	125
Indium	93	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.58
Nickel	0.936
Zinc	4.25
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.338
Barium	58.7
Thallium	<0.0740
Lead	<0.144

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ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-04
Date Analyzed:	10/09/13	Data File:	309543-04.072
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	58 vo	60	125
Indium	52 vo	60	125
Holmium	55 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	CMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-04 x10
Date Analyzed:	10/09/13	Data File:	309543-04 x10.018
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	94	60	125
Indium	92	60	125
Holmium	93	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	3.56
Nickel	5.82
Zinc	<6.00
Silver	<0.640
Cadmium	<0.940
Antimony	5.24
Barium	270
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-1S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-05
Date Analyzed:	10/09/13	Data File:	309543-05.086
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	115	60	125
Indium	83	60	125
Holmium	86	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	0.924
Nickel	1.09
Zinc	4.25
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.124
Barium	25.6
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-06
Date Analyzed:	10/09/13	Data File:	309543-06.070
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	73	60	125
Indium	56 vo	60	125
Holmium	58 vo	60	125

Analyte:	Concentration ug/L (ppb)
Cadmium	<0.0940 J
Antimony	0.240 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-14D-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-06 x10
Date Analyzed:	10/09/13	Data File:	309543-06 x10.020
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	98	60	125
Indium	92	60	125
Holmium	96	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.50
Nickel	5.54
Zinc	<6.00
Silver	<0.640
Cadmium	<0.940
Antimony	<0.520
Barium	253
Thallium	<0.740
Lead	<1.44

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	EMW-11S-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-07
Date Analyzed:	10/09/13	Data File:	309543-07.065
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	110	60	125
Indium	101	60	125
Holmium	103	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.16
Nickel	4.32
Zinc	15.6
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.809
Barium	242
Thallium	<0.0740
Lead	0.201

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Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	DMW-3-093013	Client:	SLR International Corp.
Date Received:	09/30/13	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	309543-08
Date Analyzed:	10/09/13	Data File:	309543-08.066
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	121	60	125
Indium	100	60	125
Holmium	103	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	1.18
Nickel	0.941
Zinc	1.79
Silver	<0.0640
Cadmium	<0.0940
Antimony	0.179
Barium	12.5
Thallium	<0.0740
Lead	<0.144

Analysis For Dissolved Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	10/07/13	Lab ID:	I3-647 mb
Date Analyzed:	10/09/13	Data File:	I3-647 mb.011
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	99	60	125
Indium	97	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Zinc	<0.600
Silver	<0.0640
Cadmium	<0.0940
Antimony	<0.0520
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543
Date Extracted: 10/07/13
Date Analyzed: 10/08/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
CMW-5-093013 309543-01	0.0015
DMW-2-093013 309543-02	<0.0015
EMW-9S-093013 309543-03	<0.0015
CMW-3-093013 309543-04	0.0027
EMW-1S-093013 309543-05	<0.0015
EMW-14D-093013 309543-06	<0.0015
EMW-11S-093013 309543-07	0.012
DMW-3-093013 309543-08	<0.0015
Method Blank	<0.0015

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543
Date Extracted: 10/07/13
Date Analyzed: 10/08/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Dissolved Mercury
CMW-5-093013 309543-01	<0.0015
DMW-2-093013 309543-02	<0.0015
EMW-9S-093013 309543-03	<0.0015
CMW-3-093013 309543-04	0.0021
EMW-1S-093013 309543-05	<0.0015
EMW-14D-093013 309543-06	<0.0015
EMW-11S-093013 309543-07	0.0059
DMW-3-093013 309543-08	<0.0015
Method Blank	<0.0015

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543
Date Extracted: NA
Date Analyzed: 10/03/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
CMW-5-093013 309543-01	43
DMW-2-093013 309543-02	<9.7
EMW-9S-093013 309543-03	<9.7
CMW-3-093013 309543-04	<9.7
EMW-1S-093013 309543-05	17
EMW-14D-093013 309543-06	36
EMW-11S-093013 309543-07	28
DMW-3-093013 309543-08	16
Method Blank	<9.7

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 309543-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	102	69-134

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	500	87	91	58-134	4

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 309543-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	94	55-144
Chloromethane	ug/L (ppb)	50	<0.22	95	67-131
Vinyl chloride	ug/L (ppb)	50	0.57	96	61-139
Bromomethane	ug/L (ppb)	50	<0.2	226 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	99	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	97	71-128
Acetone	ug/L (ppb)	250	<2.6	79	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	93	71-123
Methylene chloride	ug/L (ppb)	50	<3	100	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	95	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	93	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	94	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	104	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	89	73-119
Chloroform	ug/L (ppb)	50	<0.24	93	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	86	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	93	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	97	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	94	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	101	72-123
Benzene	ug/L (ppb)	50	<0.13	91	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	90	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	95	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	97	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	93	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	109	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	103	76-120
Toluene	ug/L (ppb)	50	<0.13	91	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	107	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	99	81-111
2-Hexanone	ug/L (ppb)	250	<1	99	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	95	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	94	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	104	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	99	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	90	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	95	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	101	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	94	63-128
o-Xylene	ug/L (ppb)	50	<0.22	96	64-129
Styrene	ug/L (ppb)	50	<0.22	97	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	96	76-118
Bromoform	ug/L (ppb)	50	<0.22	110	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	95	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	95	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	96	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	97	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	94	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	93	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	93	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	98	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	95	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	97	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	95	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	90	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	87	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	90	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	101	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	91	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	89	67-120
Naphthalene	ug/L (ppb)	50	<0.28	99	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	90	79-115

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	104	107	54-149	3
Chloromethane	ug/L (ppb)	50	100	101	67-133	1
Vinyl chloride	ug/L (ppb)	50	102	103	73-132	1
Bromomethane	ug/L (ppb)	50	270 vo	256 vo	69-123	5
Chloroethane	ug/L (ppb)	50	104	105	68-126	1
Trichlorofluoromethane	ug/L (ppb)	50	105	107	70-132	2
Acetone	ug/L (ppb)	250	102	104	44-145	2
1,1-Dichloroethene	ug/L (ppb)	50	102	102	75-119	0
Methylene chloride	ug/L (ppb)	50	106	108	63-132	2
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	103	105	70-122	2
trans-1,2-Dichloroethene	ug/L (ppb)	50	100	102	76-118	2
1,1-Dichloroethane	ug/L (ppb)	50	101	103	80-116	2
2,2-Dichloropropane	ug/L (ppb)	50	111	115	62-141	4
cis-1,2-Dichloroethene	ug/L (ppb)	50	97	98	81-111	1
Chloroform	ug/L (ppb)	50	100	101	81-109	1
2-Butanone (MEK)	ug/L (ppb)	250	97	101	53-140	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	99	101	79-109	2
1,1,1-Trichloroethane	ug/L (ppb)	50	104	106	80-116	2
1,1-Dichloropropene	ug/L (ppb)	50	102	104	78-112	2
Carbon tetrachloride	ug/L (ppb)	50	109	111	72-128	2
Benzene	ug/L (ppb)	50	98	99	81-108	1
Trichloroethene	ug/L (ppb)	50	97	100	77-108	3
1,2-Dichloropropane	ug/L (ppb)	50	103	105	82-109	2
Bromodichloromethane	ug/L (ppb)	50	106	108	76-120	2
Dibromomethane	ug/L (ppb)	50	102	104	80-110	2
4-Methyl-2-pentanone	ug/L (ppb)	250	119	121	59-142	2
cis-1,3-Dichloropropene	ug/L (ppb)	50	111	115	76-128	4
Toluene	ug/L (ppb)	50	97	98	83-108	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	113	116	76-128	3
1,1,2-Trichloroethane	ug/L (ppb)	50	107	108	82-110	1
2-Hexanone	ug/L (ppb)	250	107	110	53-145	3
1,3-Dichloropropane	ug/L (ppb)	50	102	103	83-110	1
Tetrachloroethene	ug/L (ppb)	50	102	104	78-109	2
Dibromochloromethane	ug/L (ppb)	50	112	113	63-140	1
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	107	107	85-113	0
Chlorobenzene	ug/L (ppb)	50	97	97	84-108	0
Ethylbenzene	ug/L (ppb)	50	101	102	84-110	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	107	108	76-125	1
m,p-Xylene	ug/L (ppb)	100	101	102	84-112	1
o-Xylene	ug/L (ppb)	50	103	103	82-113	0
Styrene	ug/L (ppb)	50	104	105	84-116	1
Isopropylbenzene	ug/L (ppb)	50	102	104	81-122	2
Bromoform	ug/L (ppb)	50	114	115	40-161	1
n-Propylbenzene	ug/L (ppb)	50	103	105	81-115	2
Bromobenzene	ug/L (ppb)	50	103	104	80-113	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	104	106	83-117	2
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	104	105	79-118	1
1,2,3-Trichloropropane	ug/L (ppb)	50	100	102	74-116	2
2-Chlorotoluene	ug/L (ppb)	50	102	103	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	101	102	81-113	1
tert-Butylbenzene	ug/L (ppb)	50	106	107	81-119	1
1,2,4-Trimethylbenzene	ug/L (ppb)	50	102	104	83-116	2
sec-Butylbenzene	ug/L (ppb)	50	105	107	83-116	2
p-Isopropyltoluene	ug/L (ppb)	50	103	104	82-119	1
1,3-Dichlorobenzene	ug/L (ppb)	50	97	99	83-111	2
1,4-Dichlorobenzene	ug/L (ppb)	50	93	94	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	98	99	83-111	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	108	110	62-133	2
1,2,4-Trichlorobenzene	ug/L (ppb)	50	99	101	77-117	2
Hexachlorobutadiene	ug/L (ppb)	50	98	98	74-118	0
Naphthalene	ug/L (ppb)	50	108	109	75-131	1
1,2,3-Trichlorobenzene	ug/L (ppb)	50	99	100	82-115	1

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	10	34	40	18-52	16
Bis(2-chloroethyl) ether	ug/L (ppb)	10	87	96	52-113	10
2-Chlorophenol	ug/L (ppb)	10	84	97	50-110	14
1,3-Dichlorobenzene	ug/L (ppb)	10	89	98	45-109	10
1,4-Dichlorobenzene	ug/L (ppb)	10	91	100	44-118	9
1,2-Dichlorobenzene	ug/L (ppb)	10	91	101	46-116	10
Benzyl alcohol	ug/L (ppb)	10	83	92	42-100	10
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	92	100	51-124	8
2-Methylphenol	ug/L (ppb)	10	75	91	38-100	19
Hexachloroethane	ug/L (ppb)	10	89	99	42-117	11
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	90	102	48-124	12
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	69	83	48-87	18
Nitrobenzene	ug/L (ppb)	10	92	100	50-118	8
Isophorone	ug/L (ppb)	10	103	107	55-116	4
2-Nitrophenol	ug/L (ppb)	10	105	113	42-127	7
2,4-Dimethylphenol	ug/L (ppb)	10	66	91	45-100	32 vo
Benzoic acid	ug/L (ppb)	65	27	30	10-46	11
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	98	105	55-115	7
2,4-Dichlorophenol	ug/L (ppb)	10	101	110	55-113	9
1,2,4-Trichlorobenzene	ug/L (ppb)	10	92	99	50-109	7
Hexachlorobutadiene	ug/L (ppb)	10	92	97	50-109	5
4-Chloroaniline	ug/L (ppb)	20	101	101	30-109	0
4-Chloro-3-methylphenol	ug/L (ppb)	10	99	108	54-114	9
2-Methylnaphthalene	ug/L (ppb)	10	97	102	53-113	5
Hexachlorocyclopentadiene	ug/L (ppb)	10	51	58	26-94	13
2,4,6-Trichlorophenol	ug/L (ppb)	10	98	105	46-114	7
2,4,5-Trichlorophenol	ug/L (ppb)	10	100	109	57-122	9
2-Chloronaphthalene	ug/L (ppb)	10	90	98	52-112	9
2-Nitroaniline	ug/L (ppb)	10	113	119	47-128	5
Dimethyl phthalate	ug/L (ppb)	10	111	112	55-116	1
2,6-Dinitrotoluene	ug/L (ppb)	10	118	119	49-126	1
3-Nitroaniline	ug/L (ppb)	20	112	118	21-125	5
2,4-Dinitrophenol	ug/L (ppb)	10	75	96	29-130	25 vo
Dibenzofuran	ug/L (ppb)	10	97	102	53-113	5
2,4-Dinitrotoluene	ug/L (ppb)	10	120	123	48-129	2
4-Nitrophenol	ug/L (ppb)	10	41	49	12-59	18
Diethyl phthalate	ug/L (ppb)	10	111	109	55-116	2
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	98	100	52-115	2
N-Nitrosodiphenylamine	ug/L (ppb)	10	99	104	51-112	5
4-Nitroaniline	ug/L (ppb)	20	103	112	42-115	8
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	83	101	40-128	20
4-Bromophenyl phenyl ether	ug/L (ppb)	10	98	102	53-114	4
Hexachlorobenzene	ug/L (ppb)	10	96	99	54-115	3
Pentachlorophenol	ug/L (ppb)	10	90	103	49-114	13
Carbazole	ug/L (ppb)	10	97	106	54-115	9
Di-n-butyl phthalate	ug/L (ppb)	10	103	108	54-115	5
Benzyl butyl phthalate	ug/L (ppb)	10	112	118	53-122	5
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	112	120	54-122	7
Di-n-octyl phthalate	ug/L (ppb)	10	116	120	50-131	3

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	84	86	67-116	2
Acenaphthylene	ug/L (ppb)	1	88	90	65-119	2
Acenaphthene	ug/L (ppb)	1	87	88	66-118	1
Fluorene	ug/L (ppb)	1	92	93	64-125	1
Phenanthrene	ug/L (ppb)	1	89	90	67-120	1
Anthracene	ug/L (ppb)	1	93	95	65-122	2
Fluoranthene	ug/L (ppb)	1	94	95	65-127	1
Pyrene	ug/L (ppb)	1	94	92	62-130	2
Benz(a)anthracene	ug/L (ppb)	1	90	90	60-118	0
Chrysene	ug/L (ppb)	1	94	96	66-125	2
Benzo(b)fluoranthene	ug/L (ppb)	1	97	99	55-135	2
Benzo(k)fluoranthene	ug/L (ppb)	1	92	102	62-125	10
Benzo(a)pyrene	ug/L (ppb)	1	92	95	58-127	3
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	92	86	36-142	7
Dibenz(a,h)anthracene	ug/L (ppb)	1	80	75	37-133	6
Benzo(g,h,i)perylene	ug/L (ppb)	1	84	79	34-135	6

Date of Report: 11/05/13
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Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	2.5	116	109	70-130	6
Aroclor 1260	ug/L (ppb)	2.5	109	104	70-130	5

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Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 309543-08 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	98	96	67-145	2
Chromium	ug/L (ppb)	20	1.26	87	89	64-132	2
Nickel	ug/L (ppb)	20	0.728	84	82	61-128	2
Copper	ug/L (ppb)	20	<0.340	78	79	63-124	1
Zinc	ug/L (ppb)	50	<0.600	88	80	55-141	10
Arsenic	ug/L (ppb)	10	5.31 ip	97 b	92 b	60-150	5 b
Selenium	ug/L (ppb)	5	<0.560 ip	92	93	43-178	1
Silver	ug/L (ppb)	5	<0.0640	81	82	71-115	1
Cadmium	ug/L (ppb)	5	<0.0940	97	97	83-116	0
Antimony	ug/L (ppb)	20	0.0730	96	97	62-125	1
Barium	ug/L (ppb)	50	12.6	103 b	102 b	79-126	1 b
Thallium	ug/L (ppb)	5	<0.0740	97	96	73-119	1
Lead	ug/L (ppb)	10	<0.144	95	92	79-121	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	96	73-135
Chromium	ug/L (ppb)	20	96	80-119
Nickel	ug/L (ppb)	20	97	79-122
Copper	ug/L (ppb)	20	97	81-119
Zinc	ug/L (ppb)	50	96	76-124
Arsenic	ug/L (ppb)	10	92	80-111
Selenium	ug/L (ppb)	5	97	81-119
Silver	ug/L (ppb)	5	85	80-116
Cadmium	ug/L (ppb)	5	95	83-113
Antimony	ug/L (ppb)	20	85	79-108
Barium	ug/L (ppb)	50	96	83-117
Thallium	ug/L (ppb)	5	96	78-116
Lead	ug/L (ppb)	10	95	83-115

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED METALS USING EPA METHOD 200.8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	101	97	73-135	4
Chromium	ug/L (ppb)	20	102	101	80-119	1
Nickel	ug/L (ppb)	20	101	100	79-122	1
Zinc	ug/L (ppb)	50	99	98	76-124	1
Silver	ug/L (ppb)	5	91	88	80-116	3
Cadmium	ug/L (ppb)	5	101	97	83-113	4
Antimony	ug/L (ppb)	20	88	90	79-108	2
Barium	ug/L (ppb)	50	103	99	83-117	4
Thallium	ug/L (ppb)	5	104	102	78-116	2
Lead	ug/L (ppb)	10	102	100	83-115	2

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 309543-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	0.0015	96	93	63-132	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.01	100	78-118

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR DISSOLVED MERCURY USING EPA METHOD 1631E

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.01	100	102	78-118	2

Date of Report: 11/05/13
Date Received: 09/30/13
Project: 8th Avenue Terminals, Inc. Site, Crowley 101.00205.00030, F&BI 309543

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 310077-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	16	22	32 a	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
TSS	mg/L	50	105	61-131

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

RECEIVED
OCT 16 2013

October 14, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 309543
ARI Job No.: XH56

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted eight water samples on October 1, 2013 under ARI job XH56. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The sample was analyzed for chloride and TDS, as requested on the COC.

There were no anomalies associated with the analyses of this sample.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile XH56

Enclosures

SAMPLE CHAIN OF CUSTODY

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.	PO #
309543	C-565

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
- [x] Standard Turnaround
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [ ] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Samples Received at ___ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500			Notes
						ANALYSES REQUESTED												
CMW-5-093013		9/30/13	0948	water	2									X	X			
DMW-2-093013			1140											X	X			
EMW-9S-093013			1333											X	X			
CMW-3-093013			1005											X	X			
EMW-1S-093013			1203											X	X			
EMW-14D-093013			1005											X	X			
EMW-11S-093013			1152											X	X			
DMW-3-093013			1423											X	X			
~~TB-093013~~			~~1038~~															

MP 9/30/13

Friedman & Bruya, Inc.	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
3012 16th Avenue West	Relinquished by:	Michele Costales Poquiz	F&B	9/30/13 MP 10/1/13	9:20
Seattle, WA 98119-2029	Received by:	Jennifer Millson	ARI	10/1/13	1120
Ph. (206) 285-8282	Relinquished by:				
Fax (206) 283-5044	Received by:				

FORMS\COC\COC SLRC.DOC

SHS : 00002

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Friedman & Bruya Project Name: 309543

COC No(s): _____ (NA) Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Expres

Assigned ARI Job No: XH56 Tracking No: 4553100 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 4.4

Time: 1122

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 12241222

Cooler Accepted by: JM Date: 10/1/13 Time: 1120

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ... Bubble Wrap Wet Ice (Gel Packs) Baggies Foam Block Paper Other:			
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	(NA)	YES	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI : (NA) YES Date/Time:_____ Equipment:_____ Split by:_____

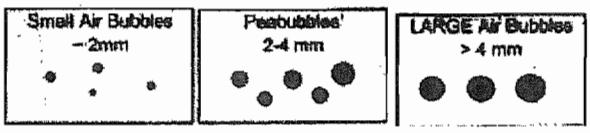
Samples Logged by: JJ Date: 10-1-13 Time: 1300

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:



Small → "sm" (< 2 mm)
Peabubbles → "pb" (2 to < 4 mm)
Large → "lg" (4 to < 6 mm)
Headspace → "hs" (> 6 mm)

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: XH56
Client: Friedman & Bruay
Project Event: 309543
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	CMW-5-093013	XH56A	13-21189	Water	09/30/13 09:48	10/01/13 11:20
2.	DMW-2-093013	XH56B	13-21190	Water	09/30/13 11:40	10/01/13 11:20
3.	EMW-9S-093013	XH56C	13-21191	Water	09/30/13 13:33	10/01/13 11:20
4.	CMW-3-093013	XH56D	13-21192	Water	09/30/13 10:05	10/01/13 11:20
5.	EMW-1S-093013	XH56E	13-21193	Water	09/30/13 12:03	10/01/13 11:20
6.	EMW-14D-093013	XH56F	13-21194	Water	09/30/13 10:05	10/01/13 11:20
7.	EMW-11S-093013	XH56G	13-21195	Water	09/30/13 11:52	10/01/13 11:20
8.	DMW-3-093013	XH56H	13-21196	Water	09/30/13 14:23	10/01/13 11:20

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Client ID: CMW-5-093013
ARI ID: 13-21189 XH56A

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	5.0	312
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	22.6

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Client ID: DMW-2-093013
ARI ID: 13-21190 XH56B

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	5.0	229
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1.0	8.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Client ID: EMW-9S-093013
ARI ID: 13-21191 XH56C

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	5.0	212
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	9.9

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Client ID: CMW-3-093013
ARI ID: 13-21192 XH56D

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	200	8,100
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	5,930

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Client ID: EMW-1S-093013
ARI ID: 13-21193 XH56E

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	5.0	257
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	10.0	14.0

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Client ID: EMW-14D-093013
ARI ID: 13-21194 XH56F

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	200	8,680
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	1,000	6,240

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Client ID: EMW-11S-093013
ARI ID: 13-21195 XH56G

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	5.0	278
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	8.6

RL Analytical reporting limit
U Undetected at reported detection limit

SAMPLE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Client ID: DMW-3-093013
ARI ID: 13-21196 XH56H

Analyte	Date Batch	Method	Units	RL	Sample
Total Dissolved Solids	10/03/13 100313#1	SM2540C	mg/L	5.0	208
Chloride	10/04/13 100413#1	SM4500-CLE	mg/L	5.0	11.8

RL Analytical reporting limit
U Undetected at reported detection limit

MS/MSD RESULTS-CONVENTIONALS
XH56-Friedman & Bruay

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: XH56A Client ID: CMW-5-093013							
Chloride	SM4500-CLE	10/04/13	mg/L	22.6	71.4	50.0	97.6%

REPLICATE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: 09/30/13
Date Received: 10/01/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: XH56A Client ID: CMW-5-093013						
Total Dissolved Solids	SM2540C	10/03/13	mg/L	312	317	1.6%
Chloride	SM4500-CLE	10/04/13	mg/L	22.6	23.5	3.9%

LAB CONTROL RESULTS-CONVENTIONALS
XH56-Friedman & Bruay

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: NA
Date Received: NA

Analyte/Method	QC ID	Date	Units	LCS	Spike Added	Recovery
Total Dissolved Solids SM2540C	ICVL	10/03/13	mg/L	493	500	98.6%

METHOD BLANK RESULTS-CONVENTIONALS
XH56-Friedman & Bruay

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Total Dissolved Solids	SM2540C	10/03/13	mg/L	< 5.0 U	
Chloride	SM4500-CLE	10/04/13	mg/L	< 1.0 U	FB

FB Filtration Blank

STANDARD REFERENCE RESULTS-CONVENTIONALS
XH56-Friedman & Bruay

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 10/14/13

Project: NA
Event: 309543
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	10/04/13	mg/L	5.0	5.0	100.0%

APPLIED SPECIATION AND CONSULTING, LLC

18804 Northcreek Parkway Bothell, WA, 98011
Tel: (425) 483-3300 Fax: (425) 483-9818
www.appliedspeciation.com

November 5, 2013

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282

Project Name: 309543

Ms Poquiz,

Attached is the report associated with eight (8) aqueous samples submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received on the same day, October 16, 2013, in a sealed cooler at 4.2°C. Dissolved metals analyses were performed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS). Any analytical issues associated with the analyses are addressed in the following report.

If you have any questions, please feel free to contact me at your convenience.

Sincerely,

Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Applied Speciation and Consulting, LLC

Report prepared for:

Michele Poquiz
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029

Project Name: 309543

November 5, 2013

1. Sample Reception

Eight (8) aqueous samples were submitted for dissolved arsenic, copper, and selenium analyses on October 16, 2013. All samples were received in acceptable condition on the same day, October 16, 2013, in a sealed container at 4.2°C.

The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. The pH values of the samples were checked upon sample reception to confirm the adequacy of sample preservation.

The samples were received in a laminar flow clean hood void of trace metals contamination and ultra-violet radiation. The samples were stored in a secure enclosed container, known to be free from trace metals contamination, until the digestion and analysis could be performed.

The sample collection time listed on the container for the client sample EMW-1S-093013 did not match the corresponding sample collection time provided on the chain-of-custody (COC) form. The associated COC form indicates that sample EMW-1S-093013 was collected on 9/30/2013 at 12:03. The corresponding sample container label indicates that sample EMW-1S-093013 was collected on 9/30/2013 at 12:29. All other descriptive parameters on the sample container agreed with those provided on the associated COC.

The sample container/COC form collection time agreement issue described above was documented on the associated COC form by sample reception staff at Applied Speciation and Consulting. The sample was logged into the system under the sample ID provided on the COC, which was in agreement with the client sample ID listed on the corresponding sample container label.

2. Sample Preparation

All sample preparation is performed in laminar flow clean hoods known to be free from trace metals contamination. All applied water for dilutions and sample preservatives are monitored for contamination to account for any biases associated with the sample results.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS The samples submitted for dissolved metals analyses were filtered and preserved prior to reception at Applied Speciation and Consulting. All preserved samples were digested in accordance with EPA Method 200.8 on October 18, 2013. All sample digests were then analyzed via inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS).

3. Sample Analysis

All sample analysis is precluded by a minimum of a five-point calibration curve spanning the entire concentration range of interest. Calibration curves are performed at the beginning of each analytical day. All calibration curves, associated with each species of interest, are standardized by linear regression resulting in a response factor. All sample results are **instrument blank corrected** to account for any operational biases associated with the analytical platform.

Prior to sample analysis, all calibration curves are verified using second source standards which are identified as initial calibration verification standards (ICV).

Ongoing instrument performance is identified by the analysis of continuing calibration verification standards (CCV) and continuing calibration blanks (CCB) at a minimum interval of every ten analytical runs.

Dissolved As, Cu, and Se Analysis by ICP-DRC-MS All sample digests for dissolved arsenic, copper, and selenium analysis were analyzed by inductively coupled plasma dynamic reaction cell mass spectrometry (ICP-DRC-MS) on November 1, 2013. Aliquots of each sample are introduced into a radio frequency (RF) plasma where energy-transfer processes cause desolvation, atomization, and ionization. The ions are extracted from the plasma through a differentially-pumped vacuum interface and travel through a pressurized chamber (DRC) containing a specific reactive gas which preferentially reacts with interfering ions of the same target mass to charge ratios (m/z). A solid-state detector detects ions transmitted through the mass analyzer, on the basis of their mass-to-charge ratio (m/z), and the resulting current is processed by a data handling system.

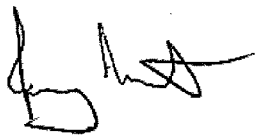
4. Analytical Issues

The overall analyses went well and no significant analytical issues were encountered. All quality control parameters associated with these samples were within acceptance limits.

The estimated method detection limits (eMDL) for dissolved metals have been calculated using the standard deviation of the preparation blanks preserved and analyzed concurrently with the submitted samples.

If you have any questions or concerns regarding this report, please feel free to contact me.

Sincerely,



Jeremy Maute
Project Coordinator
Applied Speciation and Consulting, LLC

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/30/2013 Date Received: 10/16/2013

Client Sample ID
CMW-5-093013

Laboratory Sample ID
CMW-5-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	73.0
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.40
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.159 J

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/30/2013 Date Received: 10/16/2013

Client Sample ID
DMW-2-093013

Laboratory Sample ID
DMW-2-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	5.38
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.45
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/30/2013 Date Received: 10/16/2013

Client Sample ID
EMW-9S-093013

Laboratory Sample ID
EMW-9S-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	21.4
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.26
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/30/2013 Date Received: 10/16/2013

Client Sample ID
CMW-3-093013

Laboratory Sample ID
CMW-3-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	12.6
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	2.12
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/30/2013 Date Received: 10/16/2013

Client Sample ID
EMW-1S-093013

Laboratory Sample ID
EMW-1S-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	12.5
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.47
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.107 J

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/30/2013 Date Received: 10/16/2013

Client Sample ID
EMW-14D-093013

Laboratory Sample ID
EMW-14D-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	1.25
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.50
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/30/2013 Date Received: 10/16/2013

Client Sample ID
EMW-11S-093013

Laboratory Sample ID
EMW-115-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	3.44
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	2.55
Diss Se	EPA 200.8	TM2	5	0.072	0.20	0.125 J

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Date Sampled: 9/30/2013 Date Received: 10/16/2013

Client Sample ID
DMW-3-093013

Laboratory Sample ID
DMW-3-093013

Analyte	Method	Batch ID	Dilution	eMDL	Reporting Limit	Concentration
Diss As	EPA 200.8	TM2	5	0.010	0.20	5.44
Diss Cu	EPA 200.8	TM2	5	0.18	0.20	0.33
Diss Se	EPA 200.8	TM2	5	0.072	0.20	< 0.072 U

All results are reported in µg/L and reflect the applied dilution
U = Sample concentration is below the eMDL
J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Preparation Blank Summary

Analyte (µg/L)	Batch ID	PBW-1	PBW-2	PBW-3	PBW-4	Mean	StdDev	eMDL*	eMDL 5x	Sample RL
Diss As	TM2	0.013	0.012	0.011	0.005	0.010	0.003	0.002	0.010	0.20
Diss Cu	TM2	0.02	0.12	0.00	-0.02	0.03	0.06	0.04	0.18	0.20
Diss Se	TM2	-0.058	-0.042	-0.025	-0.002	-0.032	0.024	0.014	0.072	0.20

eMDL = Estimated Method Detection Limit
* Please see narrative regarding eMDL calculations

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Certified Reference Material

Analyte (µg/L)	Batch ID	LCS	True Value	Result	Recovery
Total As	TM2	LCS	400.0	370.3	92.6
Total As	TM2	TMDA-70	40.7	38.7	95.0
Total Cu	TM2	LCS	400.0	395.4	98.9
Total Cu	TM2	TMDA-70	399	388	97.3
Total Se	TM2	LCS	400.0	375.7	93.9
Total Se	TM2	TMDA-70	25.9	23.6	91.0

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Duplicates

Analyte (µg/L)	Sample ID	Batch ID	Rep 1	Rep 2	Mean	RPD
Diss As	DMW-3-093013	TM2	5.444	5.524	5.484	1.5
Diss Cu	DMW-3-093013	TM2	0.33	0.29	0.31	12.4
Diss Se	DMW-3-093013	TM2	< 0.072 U	< 0.072 U	NC	NC

NC = Not calculated due to one or more values below the eMDL

U = Sample concentration is below the eMDL

J = Sample concentration is between the eMDL and the RL

Trace Element Results for Friedman and Bruya
Contact: Michele Poquiz

Date: November 5, 2013
Report Generated by: Jeremy Maute
Applied Speciation and Consulting, LLC

Quality Control Summary - Matrix Spike/ Matrix Spike Duplicate

Analyte (µg/L)	Sample ID	Batch ID	Spike Conc	MS Result	Recovery	Spike Conc	MSD Result	Recovery	RPD
Diss As	DMW-3-093013	TM2	400.0	375.7	92.6	400.0	431.3	106.4	13.8
Diss Cu	DMW-3-093013	TM2	400.0	353.3	88.2	400.0	410.6	102.6	15.0
Diss Se	DMW-3-093013	TM2	400.0	371.4	92.8	400.0	424.3	106.1	13.3

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR ~~Analytical Resources, Inc. (ARI)~~ Applied Speciation (per 10/16/13)

PROJECT NAME/NO.: 309543

PO #: C-595

REMARKS

Please e-mail results

~~ELECTRONIC DATA REQUESTED (EIM)~~ (per 10/16/13)

TURNAROUND TIME

X Standard Turnaround

☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

X Dispose after 30 days

☐ Return samples

☐ Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500	Dissolved As, Se, Cu by ICP-DRC-MS		Notes
CMW-5-093013		9/30/13	0948	water												X		PQLs needed:
DMW-2-093013			1140													X		As 0.150ppb
EMW-9S-093013			1333													X		Se 0.554ppb
CMW-3-093013			1005													X		Cu 0.336 ppb
EMW-1S-093013			1203													X		
EMW-14D-093013			1005													X		All samples
EMW-11S-093013			1152													X		were field
DMW-3-093013			1423													X		filtered 2x

ANALYSES REQUESTED

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Michele Costales Poquiz	F&B1	10/16/13	10:15 AM
Received by:	Jacki Ford	ASC 4.2°C	10/16/13	1000
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FORMS\COC\COC SLRC.DOC

① EMW-1S-093013 was collected at 1229 on 9/30/13 according to sample label upon receipt

309543

SAMPLE CHAIN OF CUSTODY

KJ 09-30-13

BU/V3/BSL

Page # 1 of 1

Send Report To Mike Staton

Company SLR International Corp

Address 22118 20th Ave SE, G202

City, State, ZIP Bothell, WA, 98021

Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: 8th Avenue Terminals, Inc Site Enowley 101.00205.00030

PO#: 101.00205.00030

REMARKS: NWTPH-Dx for DRO + HO after silica gel cleanup

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☐ Will call with instructions

✓=added per Mike Staton 10/15/13

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	Total Priority Pollutant Metals + Ba by 200.8	Total Hg by 1631E	Dissolved Priority Pollutant metals + Ba by 200.8	Dissolved Hg by 1631E	PAHs by 8270D SIM	PCBs by 8082A	TSS by SM2540D	TDS by 2540C	Chloride by SM4500	Notes	Dissolved As, Se, Cu by ICP-MS
CMW-5-093013	01 A,i	9/30/13	0948	WATER	21	X	X		X	X		X	X	X	X	X	X	X	X	X		✓
DMW-2-093013	02 A,i		1140																			✓
EMW-9S-093013	03 A,i		1333																			✓
CMW-3-093013	04 A,i		1005																			✓
EMW-1S-093013	05 A,i		1203																			✓
EMW-14D-093013	06 A,i		1005																			✓
EMW-11S-093013	07 A,i		1152																			✓
DMW-3-093013	08 A,i		1423		↓	↓	↓		↓	↓		↓	↓	↓	↓	↓	↓	↓	↓	↓		✓
TB-093013	09 A,B	↓	1038	↓	2				X													

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengniot	SLR	9/30/13	1618
Received by:	Kurt Johnson	F+B	9/30/13	1618
Relinquished by:				
Received by:		Samples received at ___°C		

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 13, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on July 24, 2013 from the Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358 project. There are 41 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0813R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 24, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
307358-01	Seep-1
307358-02	Seep-2
307358-03	Seep-3

Total Petroleum Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

The percent recovery for the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) failed high. The result has been flagged accordingly.

Volatile Compounds by EPA Method 8260C

The calibration result for bromomethane fell outside of acceptance criteria. The values reported are estimates.

The percent recovery for the matrix spike (MS), matrix spike duplicate (MSD), LCS, and LCSD failed high for several compounds. The samples were non-detect for these compounds, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The presence of bis(2-ethylhexyl) phthalate in the samples and method blank is likely due to laboratory contamination. The results have been flagged accordingly.

The internal standard associated with di-n-octyl phthalate exceeded acceptance criteria for the sample Seep-2. The results have been flagged accordingly.

The internal standard exceeded acceptance criteria for the sample Seep-3. The sample was diluted and reanalyzed. The results from the original analysis and the re-analysis are included.

The percent recovery for the LCSD and the RPD for the LCS/LCSD exceeded acceptance criteria for 2,4-dimethylphenol and benzoic acid. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM

A surrogate exceeded acceptance criteria for the sample Seep-2. The result has been flagged accordingly.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A

All quality control requirements were acceptable.

Total Metals by EPA Method 200.8

The internal standards associated with several analytes exceeded acceptance criteria for the samples Seep-1, Seep-2, and Seep-3. The samples were diluted and reanalyzed. The results from the original analysis and the re-analysis are included.

Total Mercury by EPA Method 1631E

All quality control requirements were acceptable.

Total Suspended Solids by Method 2540D

All quality control requirements were acceptable.

Total Organic Carbon by EPA Method 9060M

The samples were sent to Analytical Resources, Inc. for total organic carbon analysis. The report generated by ARI is enclosed.

Chloride by Method SM4500

The samples were sent to ARI for chloride analysis. The report generated by ARI is enclosed.

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358
Date Extracted: 07/25/13
Date Analyzed: 07/25/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
Seep-1 307358-01	<12	89
Seep-2 307358-02	<12	89
Seep-3 307358-03	<12	88
Method Blank 03-1443 MB	<12	91

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358
Date Extracted: 07/29/13
Date Analyzed: 07/30/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 51-134)
Seep-1 307358-01	<6.9	<52	87
Seep-2 307358-02	<6.9	<52	88
Seep-3 307358-03	<6.9	<52	89
Method Blank 03-1477 MB	<6.9	<52	74

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Seep-1	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/26/13	Lab ID:	307358-01
Date Analyzed:	07/26/13	Data File:	072612.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca j	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Seep-2	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/25/13	Lab ID:	307358-02
Date Analyzed:	07/25/13	Data File:	072509.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca j	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/25/13	Lab ID:	307358-03
Date Analyzed:	07/25/13	Data File:	072510.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	99	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca j	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/25/13	Lab ID:	03-1328 mb2
Date Analyzed:	07/25/13	Data File:	072507.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	96	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca j	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Seep-1	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307358-01
Date Analyzed:	08/02/13	Data File:	080216.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	35	32	162
Phenol-d6	31	10	170
Nitrobenzene-d5	106	50	150
2-Fluorobiphenyl	107	43	158
2,4,6-Tribromophenol	71	43	146
Terphenyl-d14	114	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	1.2 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Seep-2	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307358-02
Date Analyzed:	08/02/13	Data File:	080217.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	49	32	162
Phenol-d6	33	10	170
Nitrobenzene-d5	102	50	150
2-Fluorobiphenyl	105	43	158
2,4,6-Tribromophenol	110	43	146
Terphenyl-d14	123	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.28 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307358-03
Date Analyzed:	08/03/13	Data File:	080218.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	59 J	32	162
Phenol-d6	34 J	10	170
Nitrobenzene-d5	100 J	50	150
2-Fluorobiphenyl	107 J	43	158
2,4,6-Tribromophenol	103 J	43	146
Terphenyl-d14	139 J	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14 J	2,4,6-Trichlorophenol	<0.28 J
Bis(2-chloroethyl) ether	<0.06 J	2,4,5-Trichlorophenol	<0.22 J
2-Chlorophenol	<0.16 J	2-Chloronaphthalene	<0.044 J
1,3-Dichlorobenzene	<0.034 J	2-Nitroaniline	<0.086 J
1,4-Dichlorobenzene	<0.034 J	Dimethyl phthalate	<0.05 J
1,2-Dichlorobenzene	<0.024 J	2,6-Dinitrotoluene	<0.062 J
Benzyl alcohol	<0.4 J	3-Nitroaniline	<0.46 J
Bis(2-chloroisopropyl) ether	<0.03 J	2,4-Dinitrophenol	<2.4 J
2-Methylphenol	<0.26 J	Dibenzofuran	<0.034 J
Hexachloroethane	<0.06 J	2,4-Dinitrotoluene	<0.056 J
N-Nitroso-di-n-propylamine	<0.11 J	4-Nitrophenol	<1.3 J
3-Methylphenol + 4-Methylphenol	<0.42 J	Diethyl phthalate	<0.06 J
Nitrobenzene	<0.044 J	4-Chlorophenyl phenyl ether	<0.072 J
Isophorone	<0.03 J	N-Nitrosodiphenylamine	<0.05 J
2-Nitrophenol	<0.17 J	4-Nitroaniline	<0.56 J
2,4-Dimethylphenol	<0.28 J jl	4,6-Dinitro-2-methylphenol	<0.38 J
Benzoic acid	<14 J	4-Bromophenyl phenyl ether	<0.056 J
Bis(2-chloroethoxy)methane	<0.034 J	Hexachlorobenzene	<0.05 J
2,4-Dichlorophenol	<0.26 J	Pentachlorophenol	<0.32 J
1,2,4-Trichlorobenzene	<0.05 J	Carbazole	<0.048 J
Hexachlorobutadiene	<0.07 J	Di-n-butyl phthalate	<0.068 J
4-Chloroaniline	<0.056 J	Benzyl butyl phthalate	<0.086 J
4-Chloro-3-methylphenol	<0.24 J	Bis(2-ethylhexyl) phthalate	0.26 J fb
2-Methylnaphthalene	<0.034 J	Di-n-octyl phthalate	<0.044 J
Hexachlorocyclopentadiene	<0.094 J		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	207358-03 1/10
Date Analyzed:	08/05/13	Data File:	080512.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	46 ds	32	162
Phenol-d6	27 ds	10	170
Nitrobenzene-d5	83 ds	50	150
2-Fluorobiphenyl	100 ds	43	158
2,4,6-Tribromophenol	83 ds	43	146
Terphenyl-d14	102 ds	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<1.4	2,4,6-Trichlorophenol	<2.8
Bis(2-chloroethyl) ether	<0.6	2,4,5-Trichlorophenol	<2.2
2-Chlorophenol	<1.6	2-Chloronaphthalene	<0.44
1,3-Dichlorobenzene	<0.34	2-Nitroaniline	<0.86
1,4-Dichlorobenzene	<0.34	Dimethyl phthalate	<0.5
1,2-Dichlorobenzene	<0.24	2,6-Dinitrotoluene	<0.62
Benzyl alcohol	<4	3-Nitroaniline	<4.6
Bis(2-chloroisopropyl) ether	<0.3	2,4-Dinitrophenol	<24
2-Methylphenol	<2.6	Dibenzofuran	<0.34
Hexachloroethane	<0.6	2,4-Dinitrotoluene	<0.56
N-Nitroso-di-n-propylamine	<1.1	4-Nitrophenol	<13
3-Methylphenol + 4-Methylphenol	<4.2	Diethyl phthalate	<0.6
Nitrobenzene	<0.44	4-Chlorophenyl phenyl ether	<0.72
Isophorone	<0.3	N-Nitrosodiphenylamine	<0.5
2-Nitrophenol	<1.7	4-Nitroaniline	<5.6
2,4-Dimethylphenol	<2.8 jl	4,6-Dinitro-2-methylphenol	<3.8
Benzoic acid	<140	4-Bromophenyl phenyl ether	<0.56
Bis(2-chloroethoxy)methane	<0.34	Hexachlorobenzene	<0.5
2,4-Dichlorophenol	<2.6	Pentachlorophenol	<3.2
1,2,4-Trichlorobenzene	<0.5	Carbazole	<0.48
Hexachlorobutadiene	<0.7	Di-n-butyl phthalate	<0.68
4-Chloroaniline	<0.56	Benzyl butyl phthalate	<0.86
4-Chloro-3-methylphenol	<2.4	Bis(2-ethylhexyl) phthalate	<1.7
2-Methylnaphthalene	<0.34	Di-n-octyl phthalate	<0.44
Hexachlorocyclopentadiene	<0.94		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	03-1486 mb
Date Analyzed:	08/02/13	Data File:	080213.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	30	32	162
Phenol-d6	25	10	170
Nitrobenzene-d5	89	50	150
2-Fluorobiphenyl	88	43	158
2,4,6-Tribromophenol	63	43	146
Terphenyl-d14	95	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.18 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Seep-1	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307358-01
Date Analyzed:	07/31/13	Data File:	073111.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	93	50	150
Benzo(a)anthracene-d12	110	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.011
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	0.0092
Anthracene	<0.0028
Fluoranthene	0.0063
Pyrene	0.0044
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Seep-2	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307358-02
Date Analyzed:	08/01/13	Data File:	080109.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	125	50	150
Benzo(a)anthracene-d12	145 vo	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0046
Acenaphthylene	<0.0024
Acenaphthene	0.0044
Fluorene	<0.004
Phenanthrene	0.0082
Anthracene	<0.0028
Fluoranthene	0.0047
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307358-03
Date Analyzed:	07/31/13	Data File:	073113.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	96	50	150
Benzo(a)anthracene-d12	107	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0048
Acenaphthylene	<0.0024
Acenaphthene	0.0050
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	03-1487 mb
Date Analyzed:	07/31/13	Data File:	073108.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	50	150
Benzo(a)anthracene-d12	99	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Seep-1	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-01 1/0.25
Date Analyzed:	07/30/13	Data File:	18.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Seep-2	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-02 1/0.25
Date Analyzed:	07/30/13	Data File:	20.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	86	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-03 1/0.25
Date Analyzed:	07/30/13	Data File:	22.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	03-1480 mb 1/0.25
Date Analyzed:	07/30/13	Data File:	073012.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-1	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-01
Date Analyzed:	07/30/13	Data File:	307358-01.033
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	51 vo	60	125
Indium	50 vo	60	125
Holmium	45 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.0640 J
Cadmium	<0.250 J
Thallium	<0.0740 J
Lead	0.153 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-1	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-01 x10
Date Analyzed:	07/30/13	Data File:	307358-01 x10.039
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	81	60	125
Indium	80	60	125
Holmium	80	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.27
Nickel	6.86
Copper	45.4
Zinc	15.4
Arsenic	36.1
Selenium	132
Silver	<0.640
Cadmium	<2.50
Antimony	0.790
Barium	39.4
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-2	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-02
Date Analyzed:	07/30/13	Data File:	307358-02.034
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	53 vo	60	125
Indium	51 vo	60	125
Holmium	45 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.0640 J
Cadmium	<0.250 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-2	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-02 x10
Date Analyzed:	07/30/13	Data File:	307358-02 x10.040
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	80	60	125
Indium	78	60	125
Holmium	78	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.53
Nickel	7.24
Copper	50.9
Zinc	12.3
Arsenic	38.5
Selenium	143
Silver	<0.640
Cadmium	<2.50
Antimony	<0.520 j
Barium	26.5
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-03
Date Analyzed:	07/30/13	Data File:	307358-03.035
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	54 vo	60	125
Indium	51 vo	60	125
Holmium	45 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.0640 J
Cadmium	<0.250 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-3	Client:	SLR International Corp.
Date Received:	07/24/13	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307358-03 x10
Date Analyzed:	07/30/13	Data File:	307358-03 x10.041
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	69	60	125
Indium	67	60	125
Holmium	68	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	3.96
Nickel	9.72
Copper	57.7
Zinc	39.6
Arsenic	45.2
Selenium	157
Silver	<0.640
Cadmium	<2.50
Antimony	3.10
Barium	89.7
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley RIFS 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	I3-458 mb
Date Analyzed:	07/30/13	Data File:	I3-458 mb.008
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	97	60	125
Indium	99	60	125
Holmium	98	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	<0.0520 j
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358
Date Extracted: 07/30/13
Date Analyzed: 07/31/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
Seep-1 307358-01	0.0025
Seep-2 307358-02	<0.0015
Seep-3 307358-03	0.0026
Method Blank	<0.0015

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358
Date Extracted: NA
Date Analyzed: 07/30/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
Seep-1 307358-01	<10
Seep-2 307358-02	<10
Seep-3 307358-03	<10
Method Blank	<10

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 307333-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	101	69-134

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	60	83	58-134	32 vo

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 307333-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	123	55-144
Chloromethane	ug/L (ppb)	50	<0.22	104	67-131
Vinyl chloride	ug/L (ppb)	50	0.15	104	61-139
Bromomethane	ug/L (ppb)	50	<0.2	1039 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	168 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	133 vo	71-128
Acetone	ug/L (ppb)	250	<2.6	97	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	108	71-123
Methylene chloride	ug/L (ppb)	50	<3	99	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	103	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	101	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	102	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	107	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	100	73-119
Chloroform	ug/L (ppb)	50	<0.24	93	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	99	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	97	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	108	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	95	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	113	72-123
Benzene	ug/L (ppb)	50	<0.13	95	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	96	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	101	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	113	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	104	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	124 vo	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	113	76-120
Toluene	ug/L (ppb)	50	<0.13	93	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	112	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	102	81-111
2-Hexanone	ug/L (ppb)	250	<1	119	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	98	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	94	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	116	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	108	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	95	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	96	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	104	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	96	63-128
o-Xylene	ug/L (ppb)	50	<0.22	97	64-129
Styrene	ug/L (ppb)	50	<0.22	99	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	97	76-118
Bromoform	ug/L (ppb)	50	<0.22	125	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	99	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	99	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	98	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	109	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	101	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	98	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	97	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	100	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	98	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	97	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	97	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	95	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	92	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	98	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	118	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	91	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	83	67-120
Naphthalene	ug/L (ppb)	50	<0.28	106	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	92	79-115

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	110	111	54-149	1
Chloromethane	ug/L (ppb)	50	99	101	67-133	2
Vinyl chloride	ug/L (ppb)	50	95	96	73-132	1
Bromomethane	ug/L (ppb)	50	881 vo	933 vo	69-123	6
Chloroethane	ug/L (ppb)	50	156 vo	156 vo	68-126	0
Trichlorofluoromethane	ug/L (ppb)	50	123	125	70-132	2
Acetone	ug/L (ppb)	250	96	92	44-145	4
1,1-Dichloroethene	ug/L (ppb)	50	105	106	75-119	1
Methylene chloride	ug/L (ppb)	50	96	99	63-132	3
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	100	101	70-122	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	98	76-118	0
1,1-Dichloroethane	ug/L (ppb)	50	99	100	80-116	1
2,2-Dichloropropane	ug/L (ppb)	50	104	109	62-141	5
cis-1,2-Dichloroethene	ug/L (ppb)	50	98	99	81-111	1
Chloroform	ug/L (ppb)	50	91	92	81-109	1
2-Butanone (MEK)	ug/L (ppb)	250	100	95	53-140	5
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	94	94	79-109	0
1,1,1-Trichloroethane	ug/L (ppb)	50	104	106	80-116	2
1,1-Dichloropropene	ug/L (ppb)	50	95	96	78-112	1
Carbon tetrachloride	ug/L (ppb)	50	107	111	72-128	4
Benzene	ug/L (ppb)	50	93	94	81-108	1
Trichloroethene	ug/L (ppb)	50	97	97	77-108	0
1,2-Dichloropropane	ug/L (ppb)	50	98	100	82-109	2
Bromodichloromethane	ug/L (ppb)	50	108	108	76-120	0
Dibromomethane	ug/L (ppb)	50	100	100	80-110	0
4-Methyl-2-pentanone	ug/L (ppb)	250	108	106	59-142	2
cis-1,3-Dichloropropene	ug/L (ppb)	50	111	111	76-128	0
Toluene	ug/L (ppb)	50	94	95	83-108	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	112	112	76-128	0
1,1,2-Trichloroethane	ug/L (ppb)	50	99	100	82-110	1
2-Hexanone	ug/L (ppb)	250	102	101	53-145	1
1,3-Dichloropropane	ug/L (ppb)	50	96	96	83-110	0
Tetrachloroethene	ug/L (ppb)	50	94	95	78-109	1
Dibromochloromethane	ug/L (ppb)	50	112	114	63-140	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	105	104	85-113	1
Chlorobenzene	ug/L (ppb)	50	94	94	84-108	0
Ethylbenzene	ug/L (ppb)	50	95	97	84-110	2
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	104	107	76-125	3
m,p-Xylene	ug/L (ppb)	100	96	96	84-112	0
o-Xylene	ug/L (ppb)	50	97	98	82-113	1
Styrene	ug/L (ppb)	50	98	99	84-116	1
Isopropylbenzene	ug/L (ppb)	50	97	100	81-122	3
Bromoform	ug/L (ppb)	50	118	120	40-161	2
n-Propylbenzene	ug/L (ppb)	50	100	98	81-115	2
Bromobenzene	ug/L (ppb)	50	97	96	80-113	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	100	99	83-117	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	105	103	79-118	2
1,2,3-Trichloropropane	ug/L (ppb)	50	97	97	74-116	0
2-Chlorotoluene	ug/L (ppb)	50	98	97	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	97	97	81-113	0
tert-Butylbenzene	ug/L (ppb)	50	103	103	81-119	0
1,2,4-Trimethylbenzene	ug/L (ppb)	50	100	99	83-116	1
sec-Butylbenzene	ug/L (ppb)	50	99	99	83-116	0
p-Isopropyltoluene	ug/L (ppb)	50	100	100	82-119	0
1,3-Dichlorobenzene	ug/L (ppb)	50	96	95	83-111	1
1,4-Dichlorobenzene	ug/L (ppb)	50	93	92	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	99	99	83-111	0
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	117	116	62-133	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	98	95	77-117	3
Hexachlorobutadiene	ug/L (ppb)	50	88	88	74-118	0
Naphthalene	ug/L (ppb)	50	105	104	75-131	1
1,2,3-Trichlorobenzene	ug/L (ppb)	50	98	96	82-115	2

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	10	40	41	18-52	2
Bis(2-chloroethyl) ether	ug/L (ppb)	10	88	93	52-113	6
2-Chlorophenol	ug/L (ppb)	10	80	83	50-110	4
1,3-Dichlorobenzene	ug/L (ppb)	10	79	76	45-109	4
1,4-Dichlorobenzene	ug/L (ppb)	10	80	77	44-118	4
1,2-Dichlorobenzene	ug/L (ppb)	10	81	78	46-116	4
Benzyl alcohol	ug/L (ppb)	10	72	80	42-100	11
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	96	98	51-124	2
2-Methylphenol	ug/L (ppb)	10	73	67	38-100	9
Hexachloroethane	ug/L (ppb)	10	79	74	42-117	7
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	84	93	48-124	10
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	67	65	48-87	3
Nitrobenzene	ug/L (ppb)	10	88	94	50-118	7
Isophorone	ug/L (ppb)	10	90	96	55-116	6
2-Nitrophenol	ug/L (ppb)	10	87	95	42-127	9
2,4-Dimethylphenol	ug/L (ppb)	10	75	37 vo	45-100	68 vo
Benzoic acid	ug/L (ppb)	65	24	31	10-46	25 vo
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	87	92	55-115	6
2,4-Dichlorophenol	ug/L (ppb)	10	88	92	55-113	4
1,2,4-Trichlorobenzene	ug/L (ppb)	10	82	77	50-109	6
Hexachlorobutadiene	ug/L (ppb)	10	85	77	50-109	10
4-Chloroaniline	ug/L (ppb)	20	78	80	30-109	3
4-Chloro-3-methylphenol	ug/L (ppb)	10	90	93	54-114	3
2-Methylnaphthalene	ug/L (ppb)	10	86	86	53-113	0
Hexachlorocyclopentadiene	ug/L (ppb)	10	69	61	26-94	12
2,4,6-Trichlorophenol	ug/L (ppb)	10	89	94	46-114	5
2,4,5-Trichlorophenol	ug/L (ppb)	10	91	96	57-122	5
2-Chloronaphthalene	ug/L (ppb)	10	84	87	52-112	4
2-Nitroaniline	ug/L (ppb)	10	93	104	47-128	11
Dimethyl phthalate	ug/L (ppb)	10	90	98	55-116	9
2,6-Dinitrotoluene	ug/L (ppb)	10	91	101	49-126	10
3-Nitroaniline	ug/L (ppb)	20	86	95	21-125	10
2,4-Dinitrophenol	ug/L (ppb)	10	89	102	29-130	14
Dibenzofuran	ug/L (ppb)	10	85	91	53-113	7
2,4-Dinitrotoluene	ug/L (ppb)	10	95	105	48-129	10
4-Nitrophenol	ug/L (ppb)	10	41	42	12-59	2
Diethyl phthalate	ug/L (ppb)	10	88	94	55-116	7
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	88	93	52-115	6
N-Nitrosodiphenylamine	ug/L (ppb)	10	87	91	51-112	4
4-Nitroaniline	ug/L (ppb)	20	92	99	42-115	7
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	94	105	40-128	11
4-Bromophenyl phenyl ether	ug/L (ppb)	10	88	95	53-114	8
Hexachlorobenzene	ug/L (ppb)	10	85	93	54-115	9
Pentachlorophenol	ug/L (ppb)	10	110	114	49-114	4
Carbazole	ug/L (ppb)	10	88	94	54-115	7
Di-n-butyl phthalate	ug/L (ppb)	10	96	98	54-115	2
Benzyl butyl phthalate	ug/L (ppb)	10	100	102	53-122	2
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	95	97	54-122	2
Di-n-octyl phthalate	ug/L (ppb)	10	96	88	50-131	9

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	80	84	67-116	5
Acenaphthylene	ug/L (ppb)	1	87	89	65-119	2
Acenaphthene	ug/L (ppb)	1	83	86	66-118	4
Fluorene	ug/L (ppb)	1	89	91	64-125	2
Phenanthrene	ug/L (ppb)	1	86	89	67-120	3
Anthracene	ug/L (ppb)	1	84	83	65-122	1
Fluoranthene	ug/L (ppb)	1	92	93	65-127	1
Pyrene	ug/L (ppb)	1	89	90	62-130	1
Benz(a)anthracene	ug/L (ppb)	1	82	84	60-118	2
Chrysene	ug/L (ppb)	1	87	90	66-125	3
Benzo(b)fluoranthene	ug/L (ppb)	1	80	81	55-135	1
Benzo(k)fluoranthene	ug/L (ppb)	1	79	85	62-125	7
Benzo(a)pyrene	ug/L (ppb)	1	73	73	58-127	0
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	75	71	36-142	5
Dibenz(a,h)anthracene	ug/L (ppb)	1	73	64	37-133	13
Benzo(g,h,i)perylene	ug/L (ppb)	1	73	66	34-135	10

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.625	80	95	70-130	17
Aroclor 1260	ug/L (ppb)	0.625	86	94	70-130	9

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 307309-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	102	98	67-145	4
Chromium	ug/L (ppb)	20	0.165	92	90	64-132	2
Nickel	ug/L (ppb)	20	2.58	85	83	61-128	2
Copper	ug/L (ppb)	20	0.399	82	81	63-124	1
Zinc	ug/L (ppb)	50	0.773	82	80	55-141	2
Arsenic	ug/L (ppb)	10	3.17	100 b	97 b	60-150	3 b
Selenium	ug/L (ppb)	5	<0.560	103	101	43-178	2
Silver	ug/L (ppb)	5	<0.0640	92	89	71-115	3
Cadmium	ug/L (ppb)	5	<0.250	96	93	83-116	3
Antimony	ug/L (ppb)	20	0.408	93	92	62-125	1
Barium	ug/L (ppb)	50	84.8	103 b	90 b	79-126	13 b
Thallium	ug/L (ppb)	5	<0.0740	90	90	73-119	0
Lead	ug/L (ppb)	10	0.245	90	90	79-121	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	93	73-135
Chromium	ug/L (ppb)	20	90	80-119
Nickel	ug/L (ppb)	20	90	79-122
Copper	ug/L (ppb)	20	91	81-119
Zinc	ug/L (ppb)	50	89	76-124
Arsenic	ug/L (ppb)	10	83	80-111
Selenium	ug/L (ppb)	5	92	81-119
Silver	ug/L (ppb)	5	90	80-116
Cadmium	ug/L (ppb)	5	90	83-113
Antimony	ug/L (ppb)	20	85	79-108
Barium	ug/L (ppb)	50	91	83-117
Thallium	ug/L (ppb)	5	85	78-116
Lead	ug/L (ppb)	10	87	83-115

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 307358-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	0.0025	105	105	63-132	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	106	78-118

Date of Report: 08/13/13
Date Received: 07/24/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307358

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 307358-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<10	<10	nm	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	96	99	61-131	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

August 5, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 307358
ARI Job No.: WY66

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted three water samples on July 25, 2013, under ARI job WY66. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TOC, as requested on the COC.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile WY66

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

wy616

SAMPLE CHAIN OF CUSTODY

Page # 1 of 1

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.: 307358

PO #: C-483

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
☒ Standard Turnaround
☐ RUSH
Rush charges authorized by:

SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500	pH		Notes
						ANALYSES REQUESTED												
Seep - 1		7/24/13	1030	water	2								X		X			
Seep - 2		↓	1005	↓	↓								X		X			
Seep - 3		↓	1050	↓	↓								X		X			

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Michele Costales Poquiz	Michele Costales Poquiz	F&B	7/25/13	8:22 AM
Received by: A. Volgardsen	A. Volgardsen	ARI	7/25/13	1100
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

2005 : SLRC

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Friedman + Bruya

Project Name: _____

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Ex

Assigned ARI Job No: WY66

Tracking No: 4538993 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO
Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 5.6		
If cooler temperature is out of compliance fill out form 00070F	Temp Gun ID#: 90877952	

Cooler Accepted by: AV Date: 7/25/13 Time: 1100

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used?	Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:		
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		YES	(NO)
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	(YES)	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI : (NA) YES Date/Time: _____ Equipment: _____ Split by: _____

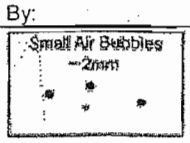
Samples Logged by: AV Date: 7/25/13 Time: 1111

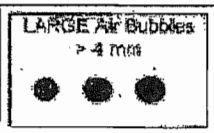
***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:





Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

WY66 : 00003

PRESERVATION VERIFICATION 07/25/13
Page 1 of 1

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **WY66**

PC: Cheronne
VTSR: 07/25/13

Inquiry Number: NONE
Analysis Requested: 07/25/13
Contact: Poquiz, Michele
Client: Friedman and Bruya, Inc
Logged by: AV
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

Project #: 307358
Project:
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	TPHD <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
13-15590 **WY66A**	SEEP-1											pass										
13-15591 **WY66B**	SEEP-2											pass										
13-15592 **WY66C**	SEEP-3											pass										

1307358 SDG 7/25/13

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WY66
Client: Friedman and Bruya, Inc
Project Event: 307358
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	SEEP-1	WY66A	13-15590	Water	07/24/13 10:30	07/25/13 11:00
2.	SEEP-2	WY66B	13-15591	Water	07/24/13 10:05	07/25/13 11:00
3.	SEEP-3	WY66C	13-15592	Water	07/24/13 10:50	07/25/13 11:00

WY66:00365

SAMPLE RESULTS-CONVENTIONALS
WY66-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized
Reported: 08/05/13

Project: NA
Event: 307358
Date Sampled: 07/24/13
Date Received: 07/25/13

Client ID: SEEP-1
ARI ID: 13-15590 WY66A

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	08/02/13 080213#1	SM4500-CLE	mg/L	2,000	9,650
Total Organic Carbon	07/25/13 072513#1	EPA 9060M	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

WY66:080805

SAMPLE RESULTS-CONVENTIONALS
WY66-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/05/13

Project: NA
Event: 307358
Date Sampled: 07/24/13
Date Received: 07/25/13

Client ID: SEEP-2
ARI ID: 13-15591 WY66B

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	08/02/13 080213#1	SM4500-CLE	mg/L	2,000	9,710
Total Organic Carbon	07/25/13 072513#1	EPA 9060M	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

WY66:00007

SAMPLE RESULTS-CONVENTIONALS
WY66-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/05/13

Project: NA
Event: 307358
Date Sampled: 07/24/13
Date Received: 07/25/13

Client ID: SEEP-3
ARI ID: 13-15592 WY66C

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	08/02/13 080213#1	SM4500-CLE	mg/L	2,000	8,100
Total Organic Carbon	07/25/13 072513#1	EPA 9060M	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

WY66:080805

METHOD BLANK RESULTS-CONVENTIONALS
WY66-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/05/13

Project: NA
Event: 307358
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Chloride	SM4500-CLE	08/02/13	mg/L	< 1.0 U	FB
Total Organic Carbon	EPA 9060M	07/25/13	mg/L	< 1.50 U	

FB Filtration Blank

WY66:066893

STANDARD REFERENCE RESULTS-CONVENTIONALS
WY66-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/05/13

Project: NA
Event: 307358
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	08/02/13	mg/L	4.9	5.0	98.0%
Total Organic Carbon ERA #0408-13-02	EPA 9060M	07/25/13	mg/L	21.6	20.0	108.0%

307358

SAMPLE CHAIN OF CUSTODY

KJ 07/24/13

Page # 1 of 1

VA/ATA/AQ

Send Report To Mike Staton

Company SLR International Corp

Address 22118 20th Ave SE, G202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley RIFS 8th Ave Terminals 101.00205.00030

PO#: 101.00205.00030

REMARKS: NWTPH-Dx after silica gel cleanup

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☒ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	Total Priority Pollutant Metals + Barium 200.8	Total Mercury by 1631E	PAHs by 8270D SIM	PCBs by 8082A	TSS by SM 2540D	Chloride by SM4500	TOC by 9060M	Notes
Seep-1	01A-D	7/24/13	1030	WATER	18	X	X		X	X		X	X	X	X	X	X	X	
Seep-2	02		1005																
Seep-3	03		1050																
~~Seep-6~~																			
												Samples received at 3.9 °C							

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Mengriot	SLR	7/24/13	1300
Received by:	Nhan Phan	FEBI	7/24/13	1300
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Kurt Johnson, B.S.
Eric Young, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 12, 2013

Mike Staton
SLR International Corp.
22118 20th Ave. SE., G-202
Bothell, WA 98021

Dear Mr. Staton:

Included are the results from the testing of material submitted on July 23, 2013 from the Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333 project. There are 34 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Michele Costales Poquiz

Michele Costales Poquiz
Chemist

Enclosures
SLR0812R.DOC

CASE NARRATIVE

This case narrative encompasses samples received on July 23, 2013 by Friedman & Bruya, Inc. from the SLR International Corp. Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID	SLR International Corp.
307333-01	Seep-4
307333-02	Seep-5

Total Petroleum Hydrocarbons as Gasoline by Method NWTPH-Gx

All quality control requirements were acceptable.

Total Petroleum Hydrocarbons as Diesel and Motor Oil by Method NWTPH-Dx with Silica Gel

The relative percent difference (RPD) for the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) failed high. The samples were non-detect therefore the results are valid.

Volatile Compounds by EPA Method 8260C

The calibration result for bromomethane fell outside of acceptance criteria. The values reported are estimates.

The presence of 1,4-dichlorobenzene in the method blank is likely due to laboratory contamination. The result has been flagged accordingly.

The percent recovery for the matrix spike (MS), matrix spike duplicate (MSD), LCS, and LCSD failed high for several compounds. The samples were non-detect for these compounds, therefore the results are valid.

Semivolatile Organic Compounds by EPA Method 8270D

The presence of bis(2-ethylhexyl) phthalate in the samples is likely due to laboratory contamination. The results have been flagged accordingly.

The percent recovery for the LCSD and the RPD for the LCS/LCSD exceeded acceptance criteria for 2,4-dimethylphenol and benzoic acid. The results have been flagged accordingly.

Semivolatile Organic Compounds by EPA Method 8270D SIM

All quality control requirements were acceptable.

Polychlorinated Biphenyls as Aroclor 1016/1260 by EPA Method 8082A

All quality control requirements were acceptable.

Total Metals by EPA Method 200.8

The internal standards associated with several analytes exceeded acceptance criteria for the samples Seep-4 and Seep-5. The samples were diluted and reanalyzed. The results from the original analysis and the re-analysis are included.

Total Mercury by EPA Method 1631E

All quality control requirements were acceptable.

Total Dissolved Solids by Method 2540D

All quality control requirements were acceptable.

Total Organic Carbon by EPA Method 9060M

The report generated by Analytical Resources, Inc. is enclosed.

Chloride by Method SM4500

The report generated by Analytical Resources, Inc. is enclosed.

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333
Date Extracted: 07/24/13
Date Analyzed: 07/24/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE USING METHOD NWTPH-Gx

Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Gasoline Range	Surrogate (% Recovery) (Limit 51-134)
Seep-4 307333-01	<12	95
Seep-5 307333-02	<12	98
Method Blank 03-1443 MB	<12	91

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333
Date Extracted: 07/29/13
Date Analyzed: 07/30/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL AND MOTOR OIL USING METHOD NWTPH-Dx
Sample Extracts Passed Through a Silica Gel Column Prior to Analysis
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Diesel Range (C_{10}-C_{25})	Motor Oil Range (C_{25}-C_{36})	Surrogate (% Recovery) (Limit 51-134)
Seep-4 307333-01	<6.9	<52	87
Seep-5 307333-02	<6.9	<52	82
Method Blank 03-1477 MB	<6.9	<52	74

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Seep-4	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307333-01
Date Analyzed:	07/24/13	Data File:	072426.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	0.15	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca j	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Seep-5	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307333-02
Date Analyzed:	07/24/13	Data File:	072427.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	50	150
Toluene-d8	102	50	150
4-Bromofluorobenzene	100	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca j	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	<0.094 j
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	03-1328 mb
Date Analyzed:	07/24/13	Data File:	072425.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	97	50	150
4-Bromofluorobenzene	98	50	150

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<0.16	1,3-Dichloropropane	<0.2
Chloromethane	<0.22	Tetrachloroethene	<0.28
Vinyl chloride	<0.13	Dibromochloromethane	<0.24
Bromomethane	<0.2 ca j	1,2-Dibromoethane (EDB)	<0.24
Chloroethane	<0.18	Chlorobenzene	<0.1
Trichlorofluoromethane	<0.17	Ethylbenzene	<0.16
Acetone	<2.6	1,1,1,2-Tetrachloroethane	<0.32
1,1-Dichloroethene	<0.19	m,p-Xylene	<0.5
Methylene chloride	<3	o-Xylene	<0.22
Methyl t-butyl ether (MTBE)	<0.13	Styrene	<0.22
trans-1,2-Dichloroethene	<0.24	Isopropylbenzene	<0.15
1,1-Dichloroethane	<0.18	Bromoform	<0.22
2,2-Dichloropropane	<0.3	n-Propylbenzene	<0.14
cis-1,2-Dichloroethene	<0.24	Bromobenzene	<0.18
Chloroform	<0.24	1,3,5-Trimethylbenzene	<0.18
2-Butanone (MEK)	<0.94	1,1,2,2-Tetrachloroethane	<0.24
1,2-Dichloroethane (EDC)	<0.11	1,2,3-Trichloropropane	<0.28
1,1,1-Trichloroethane	<0.2	2-Chlorotoluene	<0.13
1,1-Dichloropropene	<0.26	4-Chlorotoluene	<0.16
Carbon tetrachloride	<0.24	tert-Butylbenzene	<0.15
Benzene	<0.13	1,2,4-Trimethylbenzene	<0.11
Trichloroethene	<0.17	sec-Butylbenzene	<0.12
1,2-Dichloropropane	<0.32	p-Isopropyltoluene	<0.15
Bromodichloromethane	<0.38	1,3-Dichlorobenzene	<0.15
Dibromomethane	<0.28	1,4-Dichlorobenzene	0.12 lc
4-Methyl-2-pentanone	<1.3	1,2-Dichlorobenzene	<0.13
cis-1,3-Dichloropropene	<0.2	1,2-Dibromo-3-chloropropane	<0.44
Toluene	<0.13	1,2,4-Trichlorobenzene	<0.34
trans-1,3-Dichloropropene	<0.34	Hexachlorobutadiene	<0.46
1,1,2-Trichloroethane	<0.28	Naphthalene	<0.28
2-Hexanone	<1	1,2,3-Trichlorobenzene	<0.38

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Seep-4	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307333-01
Date Analyzed:	08/02/13	Data File:	080214.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	47	32	162
Phenol-d6	34	10	170
Nitrobenzene-d5	104	50	150
2-Fluorobiphenyl	105	43	158
2,4,6-Tribromophenol	91	43	146
Terphenyl-d14	107	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.51 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Seep-5	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307333-02
Date Analyzed:	08/02/13	Data File:	080215.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	48	32	162
Phenol-d6	35	10	170
Nitrobenzene-d5	107	50	150
2-Fluorobiphenyl	104	43	158
2,4,6-Tribromophenol	110	43	146
Terphenyl-d14	105	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.55 fb
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044
Hexachlorocyclopentadiene	<0.094		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Semivolatile Compounds By EPA Method 8270D

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	03-1486 mb
Date Analyzed:	08/02/13	Data File:	080213.D
Matrix:	Water	Instrument:	GCMS8
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2-Fluorophenol	30	32	162
Phenol-d6	25	10	170
Nitrobenzene-d5	89	50	150
2-Fluorobiphenyl	88	43	158
2,4,6-Tribromophenol	63	43	146
Terphenyl-d14	95	39	168

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Phenol	<0.14	2,4,6-Trichlorophenol	<0.28
Bis(2-chloroethyl) ether	<0.06	2,4,5-Trichlorophenol	<0.22
2-Chlorophenol	<0.16	2-Chloronaphthalene	<0.044
1,3-Dichlorobenzene	<0.034	2-Nitroaniline	<0.086
1,4-Dichlorobenzene	<0.034	Dimethyl phthalate	<0.05
1,2-Dichlorobenzene	<0.024	2,6-Dinitrotoluene	<0.062
Benzyl alcohol	<0.4	3-Nitroaniline	<0.46
Bis(2-chloroisopropyl) ether	<0.03	2,4-Dinitrophenol	<2.4
2-Methylphenol	<0.26	Dibenzofuran	<0.034
Hexachloroethane	<0.06	2,4-Dinitrotoluene	<0.056
N-Nitroso-di-n-propylamine	<0.11	4-Nitrophenol	<1.3
3-Methylphenol + 4-Methylphenol	<0.42	Diethyl phthalate	<0.06
Nitrobenzene	<0.044	4-Chlorophenyl phenyl ether	<0.072
Isophorone	<0.03	N-Nitrosodiphenylamine	<0.05
2-Nitrophenol	<0.17	4-Nitroaniline	<0.56
2,4-Dimethylphenol	<0.28 jl	4,6-Dinitro-2-methylphenol	<0.38
Benzoic acid	<14	4-Bromophenyl phenyl ether	<0.056
Bis(2-chloroethoxy)methane	<0.034	Hexachlorobenzene	<0.05
2,4-Dichlorophenol	<0.26	Pentachlorophenol	<0.32
1,2,4-Trichlorobenzene	<0.05	Carbazole	<0.048
Hexachlorobutadiene	<0.07	Di-n-butyl phthalate	<0.068
4-Chloroaniline	<0.056	Benzyl butyl phthalate	<0.086
4-Chloro-3-methylphenol	<0.24	Bis(2-ethylhexyl) phthalate	0.18 lc
2-Methylnaphthalene	<0.034	Di-n-octyl phthalate	<0.044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Seep-4	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307333-01
Date Analyzed:	07/31/13	Data File:	073109.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	86	50	150
Benzo(a)anthracene-d12	100	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0051
Acenaphthylene	<0.0024
Acenaphthene	0.035
Fluorene	<0.004
Phenanthrene	0.011
Anthracene	<0.0028
Fluoranthene	0.019
Pyrene	0.021
Benz(a)anthracene	0.0088
Chrysene	0.011
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	0.014
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	0.0078
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	0.0078

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Seep-5	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	307333-02
Date Analyzed:	07/31/13	Data File:	073110.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	93	50	150
Benzo(a)anthracene-d12	107	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	0.0056
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	0.0067
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For Semivolatile Compounds By EPA Method 8270D SIM

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	07/30/13	Lab ID:	03-1487 mb
Date Analyzed:	07/31/13	Data File:	073108.D
Matrix:	Water	Instrument:	GCMS6
Units:	ug/L (ppb)	Operator:	ya

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Anthracene-d10	92	50	150
Benzo(a)anthracene-d12	99	50	129

Compounds:	Concentration ug/L (ppb)
Naphthalene	<0.004
Acenaphthylene	<0.0024
Acenaphthene	<0.0038
Fluorene	<0.004
Phenanthrene	<0.0066
Anthracene	<0.0028
Fluoranthene	<0.0046
Pyrene	<0.0036
Benz(a)anthracene	<0.0042
Chrysene	<0.0038
Benzo(a)pyrene	<0.0078
Benzo(b)fluoranthene	<0.0052
Benzo(k)fluoranthene	<0.0076
Indeno(1,2,3-cd)pyrene	<0.007
Dibenz(a,h)anthracene	<0.004
Benzo(g,h,i)perylene	<0.0044

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Seep-4	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307333-01 1/0.25
Date Analyzed:	07/30/13	Data File:	14.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	90	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Seep-5	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	307333-02 1/0.25
Date Analyzed:	07/30/13	Data File:	16.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	88	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For PCBs By EPA Method 8082

Client Sample ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	07/29/13	Lab ID:	03-1480 mb 1/0.25
Date Analyzed:	07/30/13	Data File:	073012.D\ECD1A.CH
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	mwdl

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	84	50	150

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.01 j
Aroclor 1232	<0.01 j
Aroclor 1016	<0.01 j
Aroclor 1242	<0.01 j
Aroclor 1248	<0.01 j
Aroclor 1254	<0.01 j
Aroclor 1260	<0.01 j

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-4	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307333-01
Date Analyzed:	08/01/13	Data File:	307333-01.051
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	47 vo	60	125
Indium	46 vo	60	125
Holmium	45 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.0640 J
Cadmium	<0.250 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-4	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307333-01 x10
Date Analyzed:	08/01/13	Data File:	307333-01 x10.054
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	79	60	125
Indium	76	60	125
Holmium	81	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	1.89
Nickel	6.02
Copper	39.8
Zinc	7.39
Arsenic	29.6
Selenium	114
Silver	<0.640
Cadmium	<2.50
Antimony	<0.520
Barium	15.0
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-5	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307333-02
Date Analyzed:	08/01/13	Data File:	307333-02.052
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	47 vo	60	125
Indium	47 vo	60	125
Holmium	47 vo	60	125

Analyte:	Concentration ug/L (ppb)
Silver	<0.0640 J
Cadmium	<0.250 J
Thallium	<0.0740 J
Lead	<0.144 J

Analysis For Total Metals By EPA Method 200.8

Client ID:	Seep-5	Client:	SLR International Corp.
Date Received:	07/23/13	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	307333-02 x10
Date Analyzed:	08/01/13	Data File:	307333-02 x10.055
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	77	60	125
Indium	75	60	125
Holmium	80	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.980
Chromium	2.16
Nickel	5.85
Copper	35.7
Zinc	10.8
Arsenic	28.3
Selenium	106
Silver	<0.640
Cadmium	<2.50
Antimony	0.970
Barium	51.9
Thallium	<0.740
Lead	<1.44

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SLR International Corp.
Date Received:	N/A	Project:	Crowley 101.00205.00030
Date Extracted:	07/24/13	Lab ID:	I3-449 mb
Date Analyzed:	08/01/13	Data File:	I3-449 mb.040
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	AP

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	90	60	125
Indium	92	60	125
Holmium	94	60	125

Analyte:	Concentration ug/L (ppb)
Beryllium	<0.0980
Chromium	<0.138
Nickel	<0.460
Copper	<0.340
Zinc	<0.600
Arsenic	<0.150
Selenium	<0.560
Silver	<0.0640
Cadmium	<0.250
Antimony	<0.0520 j
Barium	<0.260
Thallium	<0.0740
Lead	<0.144

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333
Date Extracted: 07/24/13
Date Analyzed: 07/25/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL MERCURY
USING EPA METHOD 1631E
Results Reported as ug/L (ppb)

Sample ID Laboratory ID	Total Mercury
Seep-4 307333-01	0.0016
Seep-5 307333-02	0.0023
Method Blank	<0.0015

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333
Date Extracted: NA
Date Analyzed: 07/30/13

RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Results Reported as mg/L (ppm)

Sample ID Laboratory ID	Total Suspended Solids
Seep-4 307333-01	<10
Seep-5 307333-02	<10
Method Blank	<10

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TPH AS GASOLINE USING METHOD NWTPH-Gx

Laboratory Code: 307333-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<12	<12	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	101	69-134

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS DIESEL EXTENDED USING METHOD NWTPH-Dx

Laboratory Code: Laboratory Control Sample Silica Gel

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	60	83	58-134	32 vo

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: 307333-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<0.16	123	55-144
Chloromethane	ug/L (ppb)	50	<0.22	104	67-131
Vinyl chloride	ug/L (ppb)	50	0.15	104	61-139
Bromomethane	ug/L (ppb)	50	<0.2	1039 vo	66-129
Chloroethane	ug/L (ppb)	50	<0.18	168 vo	68-126
Trichlorofluoromethane	ug/L (ppb)	50	<0.17	133 vo	71-128
Acetone	ug/L (ppb)	250	<2.6	97	48-149
1,1-Dichloroethene	ug/L (ppb)	50	<0.19	108	71-123
Methylene chloride	ug/L (ppb)	50	<3	99	61-126
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<0.13	103	68-125
trans-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	101	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<0.18	102	79-113
2,2-Dichloropropane	ug/L (ppb)	50	<0.3	107	58-132
cis-1,2-Dichloroethene	ug/L (ppb)	50	<0.24	100	73-119
Chloroform	ug/L (ppb)	50	<0.24	93	80-112
2-Butanone (MEK)	ug/L (ppb)	250	<0.94	99	69-123
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<0.11	97	78-113
1,1,1-Trichloroethane	ug/L (ppb)	50	<0.2	108	79-116
1,1-Dichloropropene	ug/L (ppb)	50	<0.26	95	67-121
Carbon tetrachloride	ug/L (ppb)	50	<0.24	113	72-123
Benzene	ug/L (ppb)	50	<0.13	95	79-109
Trichloroethene	ug/L (ppb)	50	<0.17	96	75-109
1,2-Dichloropropane	ug/L (ppb)	50	<0.32	101	80-111
Bromodichloromethane	ug/L (ppb)	50	<0.38	113	78-117
Dibromomethane	ug/L (ppb)	50	<0.28	104	80-112
4-Methyl-2-pentanone	ug/L (ppb)	250	<1.3	124 vo	79-123
cis-1,3-Dichloropropene	ug/L (ppb)	50	<0.2	113	76-120
Toluene	ug/L (ppb)	50	<0.13	93	73-117
trans-1,3-Dichloropropene	ug/L (ppb)	50	<0.34	112	75-122
1,1,2-Trichloroethane	ug/L (ppb)	50	<0.28	102	81-111
2-Hexanone	ug/L (ppb)	250	<1	119	75-126
1,3-Dichloropropane	ug/L (ppb)	50	<0.2	98	81-111
Tetrachloroethene	ug/L (ppb)	50	<0.28	94	72-113
Dibromochloromethane	ug/L (ppb)	50	<0.24	116	69-129
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<0.24	108	83-114
Chlorobenzene	ug/L (ppb)	50	<0.1	95	75-115
Ethylbenzene	ug/L (ppb)	50	<0.16	96	71-120
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<0.32	104	78-122
m,p-Xylene	ug/L (ppb)	100	<0.5	96	63-128
o-Xylene	ug/L (ppb)	50	<0.22	97	64-129
Styrene	ug/L (ppb)	50	<0.22	99	70-122
Isopropylbenzene	ug/L (ppb)	50	<0.15	97	76-118
Bromoform	ug/L (ppb)	50	<0.22	125	49-138
n-Propylbenzene	ug/L (ppb)	50	<0.14	99	74-117
Bromobenzene	ug/L (ppb)	50	<0.18	99	70-121
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<0.18	98	81-112
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<0.24	109	79-120
1,2,3-Trichloropropane	ug/L (ppb)	50	<0.28	101	72-119
2-Chlorotoluene	ug/L (ppb)	50	<0.13	98	77-114
4-Chlorotoluene	ug/L (ppb)	50	<0.16	97	81-109
tert-Butylbenzene	ug/L (ppb)	50	<0.15	100	81-116
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<0.11	98	74-118
sec-Butylbenzene	ug/L (ppb)	50	<0.12	97	77-118
p-Isopropyltoluene	ug/L (ppb)	50	<0.15	97	64-132
1,3-Dichlorobenzene	ug/L (ppb)	50	<0.15	95	81-111
1,4-Dichlorobenzene	ug/L (ppb)	50	<0.094	92	78-110
1,2-Dichlorobenzene	ug/L (ppb)	50	<0.13	98	81-111
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<0.44	118	69-129
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<0.34	91	74-115
Hexachlorobutadiene	ug/L (ppb)	50	<0.46	83	67-120
Naphthalene	ug/L (ppb)	50	<0.28	106	63-136
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<0.38	92	79-115

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR VOLATILES BY EPA METHOD 8260C

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Dichlorodifluoromethane	ug/L (ppb)	50	110	111	54-149	1
Chloromethane	ug/L (ppb)	50	99	101	67-133	2
Vinyl chloride	ug/L (ppb)	50	95	96	73-132	1
Bromomethane	ug/L (ppb)	50	881 vo	933 vo	69-123	6
Chloroethane	ug/L (ppb)	50	156 vo	156 vo	68-126	0
Trichlorofluoromethane	ug/L (ppb)	50	123	125	70-132	2
Acetone	ug/L (ppb)	250	96	92	44-145	4
1,1-Dichloroethene	ug/L (ppb)	50	105	106	75-119	1
Methylene chloride	ug/L (ppb)	50	96	99	63-132	3
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	100	101	70-122	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	98	98	76-118	0
1,1-Dichloroethane	ug/L (ppb)	50	99	100	80-116	1
2,2-Dichloropropane	ug/L (ppb)	50	104	109	62-141	5
cis-1,2-Dichloroethene	ug/L (ppb)	50	98	99	81-111	1
Chloroform	ug/L (ppb)	50	91	92	81-109	1
2-Butanone (MEK)	ug/L (ppb)	250	100	95	53-140	5
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	94	94	79-109	0
1,1,1-Trichloroethane	ug/L (ppb)	50	104	106	80-116	2
1,1-Dichloropropene	ug/L (ppb)	50	95	96	78-112	1
Carbon tetrachloride	ug/L (ppb)	50	107	111	72-128	4
Benzene	ug/L (ppb)	50	93	94	81-108	1
Trichloroethene	ug/L (ppb)	50	97	97	77-108	0
1,2-Dichloropropane	ug/L (ppb)	50	98	100	82-109	2
Bromodichloromethane	ug/L (ppb)	50	108	108	76-120	0
Dibromomethane	ug/L (ppb)	50	100	100	80-110	0
4-Methyl-2-pentanone	ug/L (ppb)	250	108	106	59-142	2
cis-1,3-Dichloropropene	ug/L (ppb)	50	111	111	76-128	0
Toluene	ug/L (ppb)	50	94	95	83-108	1
trans-1,3-Dichloropropene	ug/L (ppb)	50	112	112	76-128	0
1,1,2-Trichloroethane	ug/L (ppb)	50	99	100	82-110	1
2-Hexanone	ug/L (ppb)	250	102	101	53-145	1
1,3-Dichloropropane	ug/L (ppb)	50	96	96	83-110	0
Tetrachloroethene	ug/L (ppb)	50	94	95	78-109	1
Dibromochloromethane	ug/L (ppb)	50	112	114	63-140	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	105	104	85-113	1
Chlorobenzene	ug/L (ppb)	50	94	94	84-108	0
Ethylbenzene	ug/L (ppb)	50	95	97	84-110	2
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	104	107	76-125	3
m,p-Xylene	ug/L (ppb)	100	96	96	84-112	0
o-Xylene	ug/L (ppb)	50	97	98	82-113	1
Styrene	ug/L (ppb)	50	98	99	84-116	1
Isopropylbenzene	ug/L (ppb)	50	97	100	81-122	3
Bromoform	ug/L (ppb)	50	118	120	40-161	2
n-Propylbenzene	ug/L (ppb)	50	100	98	81-115	2
Bromobenzene	ug/L (ppb)	50	97	96	80-113	1
1,3,5-Trimethylbenzene	ug/L (ppb)	50	100	99	83-117	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	105	103	79-118	2
1,2,3-Trichloropropane	ug/L (ppb)	50	97	97	74-116	0
2-Chlorotoluene	ug/L (ppb)	50	98	97	79-112	1
4-Chlorotoluene	ug/L (ppb)	50	97	97	81-113	0
tert-Butylbenzene	ug/L (ppb)	50	103	103	81-119	0
1,2,4-Trimethylbenzene	ug/L (ppb)	50	100	99	83-116	1
sec-Butylbenzene	ug/L (ppb)	50	99	99	83-116	0
p-Isopropyltoluene	ug/L (ppb)	50	100	100	82-119	0
1,3-Dichlorobenzene	ug/L (ppb)	50	96	95	83-111	1
1,4-Dichlorobenzene	ug/L (ppb)	50	93	92	82-109	1
1,2-Dichlorobenzene	ug/L (ppb)	50	99	99	83-111	0
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	117	116	62-133	1
1,2,4-Trichlorobenzene	ug/L (ppb)	50	98	95	77-117	3
Hexachlorobutadiene	ug/L (ppb)	50	88	88	74-118	0
Naphthalene	ug/L (ppb)	50	105	104	75-131	1
1,2,3-Trichlorobenzene	ug/L (ppb)	50	98	96	82-115	2

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR SEMIVOLATILES BY EPA METHOD 8270D

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Phenol	ug/L (ppb)	10	40	41	18-52	2
Bis(2-chloroethyl) ether	ug/L (ppb)	10	88	93	52-113	6
2-Chlorophenol	ug/L (ppb)	10	80	83	50-110	4
1,3-Dichlorobenzene	ug/L (ppb)	10	79	76	45-109	4
1,4-Dichlorobenzene	ug/L (ppb)	10	80	77	44-118	4
1,2-Dichlorobenzene	ug/L (ppb)	10	81	78	46-116	4
Benzyl alcohol	ug/L (ppb)	10	72	80	42-100	11
Bis(2-chloroisopropyl) ether	ug/L (ppb)	10	96	98	51-124	2
2-Methylphenol	ug/L (ppb)	10	73	67	38-100	9
Hexachloroethane	ug/L (ppb)	10	79	74	42-117	7
N-Nitroso-di-n-propylamine	ug/L (ppb)	10	84	93	48-124	10
3-Methylphenol + 4-Methylphenol	ug/L (ppb)	10	67	65	48-87	3
Nitrobenzene	ug/L (ppb)	10	88	94	50-118	7
Isophorone	ug/L (ppb)	10	90	96	55-116	6
2-Nitrophenol	ug/L (ppb)	10	87	95	42-127	9
2,4-Dimethylphenol	ug/L (ppb)	10	75	37 vo	45-100	68 vo
Benzoic acid	ug/L (ppb)	65	24	31	10-46	25 vo
Bis(2-chloroethoxy)methane	ug/L (ppb)	10	87	92	55-115	6
2,4-Dichlorophenol	ug/L (ppb)	10	88	92	55-113	4
1,2,4-Trichlorobenzene	ug/L (ppb)	10	82	77	50-109	6
Hexachlorobutadiene	ug/L (ppb)	10	85	77	50-109	10
4-Chloroaniline	ug/L (ppb)	20	78	80	30-109	3
4-Chloro-3-methylphenol	ug/L (ppb)	10	90	93	54-114	3
2-Methylnaphthalene	ug/L (ppb)	10	86	86	53-113	0
Hexachlorocyclopentadiene	ug/L (ppb)	10	69	61	26-94	12
2,4,6-Trichlorophenol	ug/L (ppb)	10	89	94	46-114	5
2,4,5-Trichlorophenol	ug/L (ppb)	10	91	96	57-122	5
2-Chloronaphthalene	ug/L (ppb)	10	84	87	52-112	4
2-Nitroaniline	ug/L (ppb)	10	93	104	47-128	11
Dimethyl phthalate	ug/L (ppb)	10	90	98	55-116	9
2,6-Dinitrotoluene	ug/L (ppb)	10	91	101	49-126	10
3-Nitroaniline	ug/L (ppb)	20	86	95	21-125	10
2,4-Dinitrophenol	ug/L (ppb)	10	89	102	29-130	14
Dibenzofuran	ug/L (ppb)	10	85	91	53-113	7
2,4-Dinitrotoluene	ug/L (ppb)	10	95	105	48-129	10
4-Nitrophenol	ug/L (ppb)	10	41	42	12-59	2
Diethyl phthalate	ug/L (ppb)	10	88	94	55-116	7
4-Chlorophenyl phenyl ether	ug/L (ppb)	10	88	93	52-115	6
N-Nitrosodiphenylamine	ug/L (ppb)	10	87	91	51-112	4
4-Nitroaniline	ug/L (ppb)	20	92	99	42-115	7
4,6-Dinitro-2-methylphenol	ug/L (ppb)	10	94	105	40-128	11
4-Bromophenyl phenyl ether	ug/L (ppb)	10	88	95	53-114	8
Hexachlorobenzene	ug/L (ppb)	10	85	93	54-115	9
Pentachlorophenol	ug/L (ppb)	10	110	114	49-114	4
Carbazole	ug/L (ppb)	10	88	94	54-115	7
Di-n-butyl phthalate	ug/L (ppb)	10	96	98	54-115	2
Benzyl butyl phthalate	ug/L (ppb)	10	100	102	53-122	2
Bis(2-ethylhexyl) phthalate	ug/L (ppb)	10	95	97	54-122	2
Di-n-octyl phthalate	ug/L (ppb)	10	96	88	50-131	9

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR PNA'S BY EPA METHOD 8270D SIM

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Naphthalene	ug/L (ppb)	1	80	84	67-116	5
Acenaphthylene	ug/L (ppb)	1	87	89	65-119	2
Acenaphthene	ug/L (ppb)	1	83	86	66-118	4
Fluorene	ug/L (ppb)	1	89	91	64-125	2
Phenanthrene	ug/L (ppb)	1	86	89	67-120	3
Anthracene	ug/L (ppb)	1	84	83	65-122	1
Fluoranthene	ug/L (ppb)	1	92	93	65-127	1
Pyrene	ug/L (ppb)	1	89	90	62-130	1
Benz(a)anthracene	ug/L (ppb)	1	82	84	60-118	2
Chrysene	ug/L (ppb)	1	87	90	66-125	3
Benzo(b)fluoranthene	ug/L (ppb)	1	80	81	55-135	1
Benzo(k)fluoranthene	ug/L (ppb)	1	79	85	62-125	7
Benzo(a)pyrene	ug/L (ppb)	1	73	73	58-127	0
Indeno(1,2,3-cd)pyrene	ug/L (ppb)	1	75	71	36-142	5
Dibenz(a,h)anthracene	ug/L (ppb)	1	73	64	37-133	13
Benzo(g,h,i)perylene	ug/L (ppb)	1	73	66	34-135	10

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR POLYCHLORINATED BIPHENYLS AS AROCLOR 1016/1260 BY EPA METHOD 8082A

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.625	80	95	70-130	17
Aroclor 1260	ug/L (ppb)	0.625	86	94	70-130	9

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL METALS USING EPA METHOD 200.8

Laboratory Code: 307177-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Beryllium	ug/L (ppb)	5	<0.0980	113	113	67-145	0
Chromium	ug/L (ppb)	20	0.667	90	91	64-132	1
Nickel	ug/L (ppb)	20	0.959	83	84	61-128	1
Copper	ug/L (ppb)	20	0.904	83	84	63-124	1
Zinc	ug/L (ppb)	50	1.11	83	84	55-141	1
Arsenic	ug/L (ppb)	10	1.47	100	104	60-150	4
Selenium	ug/L (ppb)	5	<0.560	100	104	43-178	4
Silver	ug/L (ppb)	5	<0.0640	93	97	71-115	4
Cadmium	ug/L (ppb)	5	0.562	99	102	83-116	3
Antimony	ug/L (ppb)	20	0.401	88	92	62-125	4
Barium	ug/L (ppb)	50	8.25	99	103	79-126	4
Thallium	ug/L (ppb)	5	<0.0740	92	93	73-119	1
Lead	ug/L (ppb)	10	<0.144	93	95	79-121	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Beryllium	ug/L (ppb)	5	104	73-135
Chromium	ug/L (ppb)	20	86	80-119
Nickel	ug/L (ppb)	20	83	79-122
Copper	ug/L (ppb)	20	85	81-119
Zinc	ug/L (ppb)	50	81	76-124
Arsenic	ug/L (ppb)	10	85	80-111
Selenium	ug/L (ppb)	5	90	81-119
Silver	ug/L (ppb)	5	92	80-116
Cadmium	ug/L (ppb)	5	92	83-113
Antimony	ug/L (ppb)	20	88	79-108
Barium	ug/L (ppb)	50	92	83-117
Thallium	ug/L (ppb)	5	85	78-116
Lead	ug/L (ppb)	10	87	83-115

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER SAMPLES FOR TOTAL MERCURY USING EPA METHOD 1631E

Laboratory Code: 307333-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Mercury	ug/L (ppb)	0.010	0.0016	95	98	63-132	3

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Mercury	ug/L (ppb)	0.010	99	78-118

Date of Report: 08/12/13
Date Received: 07/23/13
Project: Crowley RIFS 8th Ave Terminals 101.00205.00030, F&BI 307333

QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF WATER SAMPLES FOR TOTAL SUSPENDED SOLIDS BY METHOD 2540D

Laboratory Code: 307358-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
TSS	mg/L	<10	<10	na	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L	50	96	99	61-131	3

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

A1 – More than one compound of similar molecule structure was identified with equal probability.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for this range fell outside of acceptance criteria. The value reported is an estimate.

c - The presence of the analyte indicated may be due to carryover from previous sample injections.

d - The sample was diluted. Detection limits may be raised due to dilution.

ds - The sample was diluted. Detection limits are raised due to dilution and surrogate recoveries may not be meaningful.

dv - Insufficient sample was available to achieve normal reporting limits and limits are raised accordingly.

fb - Analyte present in the blank and the sample.

fc – The compound is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. The variability is attributed to sample inhomogeneity.

ht - Analysis performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of normal control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.

j – The result is below normal reporting limits. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The analyte result in the laboratory control sample is out of control limits. The reported concentration should be considered an estimate.

jr - The rpd result in laboratory control sample associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

lc - The presence of the compound indicated is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc – The sample was received in a container not approved by the method. The value reported should be considered an estimate.

pr – The sample was received with incorrect preservation. The value reported should be considered an estimate.

ve - Estimated concentration calculated for an analyte response above the valid instrument calibration range. A dilution is required to obtain an accurate quantification of the analyte.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Analytical Resources, Incorporated
Analytical Chemists and Consultants

August 5, 2013

Michele Costales Poquiz
Friedman & Bruya
3012 16th Ave W
Seattle, WA 98119

RE: Project: 307333
ARI Job No.: WY50

Dear Michele:

Please find enclosed the Chain-of-Custody record (COC), sample receipt documentation, and the final data for the samples from the project referenced above. Analytical Resources, Inc. (ARI) accepted two water samples on July 24, 2013, under ARI job WY50. For further details regarding sample receipt, please refer to the enclosed Cooler Receipt Form.

The samples were analyzed for chloride and TOC, as requested on the COC.

There were no anomalies associated with the analyses of these samples.

An electronic copy of this report and all associated raw data will be kept on file at ARI. Should you have any questions or concerns, please feel free to call me at your convenience.

Respectfully,
ANALYTICAL RESOURCES, INC.

Cheronne Oreiro
Project Manager
(206) 695-6214
cheronneo@arilabs.com
www.arilabs.com

cc: eFile WY50

Enclosures

4611 South 134th Place, Suite 100 • Tukwila WA 98168 • **206-695-6200** • **206-695-6201** fax

WYSO

SAMPLE CHAIN OF CUSTODY

Send Report To Michele Costales Poquiz

Company Friedman & Bruya, Inc.

Address 3012 16th Ave. W.

City, State, ZIP Seattle, WA 98119

Phone # (206) 285-8282 Fax # (206) 283-5044

Email Address mpoquiz@friedmanandbruya.com

SUBCONTRACTOR
Analytical Resources, Inc. (ARI)

PROJECT NAME/NO.: 307333

PO #: c-478

REMARKS

Please e-mail results

ELECTRONIC DATA REQUESTED (EIM)

TURNAROUND TIME
- [x] Standard Turnaround
- [ ] RUSH
- Rush charges authorized by:

SAMPLE DISPOSAL
- [ ] Dispose after 30 days
- [ ] Return samples
- [ ] Will call with instructions

Samples Received at ____ °C

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers (MP 7/24/13)	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Hexavalent Cr by 7196A	Total Organic Carbon by 9060M	TDS by 2540C	Chloride by SM4500	~~DOC by EPA 415.3~~		Notes
Seep - 4		7/23/13	1145	water	~~3~~ 2								X		X	X		DOC canceled
Seep - 5		7/23/13	1225	water	~~3~~ 2								X		X	X		per client MP 7/24/13

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: Michele Costales Poquiz	Michele Costales Poquiz	F&B	7/23/13 (24 MP)	10:37 AM
Received by: A. Volgardsen	A. Volgardsen	ARI	7/24/13	1250
Relinquished by:				
Received by:				

FORMS\COC\COC SLRC.DOC

ORDER #: 307333

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Friedman + Bruya

Project Name: _____

COC No(s): _____ (NA)

Delivered by: Fed-Ex UPS Courier Hand Delivered Other: Postal Exp

Assigned ARI Job No: WY50

Tracking No: 455882446 NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of to cooler?	YES	(NO)
Were custody papers included with the cooler?	(YES)	NO
Were custody papers properly filled out (ink, signed, etc.)	(YES)	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)..... 6.0 ___ ___ ___

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: 90877975

Cooler Accepted by: AV Date: 7/24/13 Time: 1250

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	(NO)
What kind of packing material was used? ...	Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:		
Was sufficient ice used (if appropriate)?	NA	(YES)	NO
Were all bottles sealed in individual plastic bags?		(YES)	NO
Did all bottles arrive in good condition (unbroken)?		(YES)	NO
Were all bottle labels complete and legible?		(YES)	NO
Did the number of containers listed on COC match with the number of containers received?		(YES)	NO
Did all bottle labels and tags agree with custody papers?		(YES)	NO
Were all bottles used correct for the requested analyses?		(YES)	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)...	NA	(YES)	NO
Were all VOC vials free of air bubbles?	(NA)	YES	NO
Was sufficient amount of sample sent in each bottle?		(YES)	NO
Date VOC Trip Blank was made at ARI	(NA)		

Was Sample Split by ARI : (NA) YES Date/Time:_____ Equipment:_____ Split by:_____

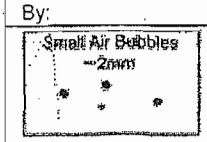
Samples Logged by: AV Date: 7/24/13 Time: 1431

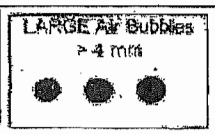
***** Notify Project Manager of discrepancies or concerns *****

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:





Small → "sm"
Peabubbles → "pb"
Large → "lg"
Headspace → "hs"

WY50 : 000025

PRESERVATION VERIFICATION 07/24/13
Page 1 of 1

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: **WY50**

Inquiry Number: NONE
Analysis Requested: 07/24/13
Contact: Poquiz, Michele
Client: Friedman and Bruya, Inc
Logged by: AV
Sample Set Used: Yes-481
Validatable Package: No
Deliverables:

PC: Cheronne
VTSR: 07/24/13

Project #: 307333
Project:
Sample Site:
SDG No:
Analytical Protocol: In-house

LOGNUM ARI ID	CLIENT ID	CN >12	WAD >12	NH3 <2	COD <2	FOG <2	MET <2	PHEN <2	PHOS <2	TKN <2	NO23 <2	TOC <2	S2 >9	TPHD <2	Fe2+ <2	DMET FLT	DOC FLT	PARAMETER	ADJUSTED TO	LOT NUMBER	AMOUNT ADDED	DATE/BY
13-15494 **WY50A**	SEEP-4											Pass										
13-15495 **WY50B**	SEEP-5											Pass										

ARI-EDDA : EDA.xls

Sample ID Cross Reference Report

ANALYTICAL RESOURCES INCORPORATED

ARI Job No: WY50
Client: Friedman and Bruya, Inc
Project Event: 307333
Project Name: N/A

	Sample ID	ARI Lab ID	ARI LIMS ID	Matrix	Sample Date/Time	VTSR
1.	SEEP-4	WY50A	13-15494	Water	07/23/13 11:45	07/24/13 12:50
2.	SEEP-5	WY50B	13-15495	Water	07/23/13 12:25	07/24/13 12:50

WY50:00005

SAMPLE RESULTS-CONVENTIONALS
WY50-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/05/13

Project: NA
Event: 307333
Date Sampled: 07/23/13
Date Received: 07/24/13

Client ID: SEEP-4
ARI ID: 13-15494 WY50A

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	08/02/13 080213#1	SM4500-CLE	mg/L	2,000	8,320
Total Organic Carbon	07/25/13 072513#1	EPA 9060M	mg/L	1.50	4.28

RL Analytical reporting limit
U Undetected at reported detection limit

WY50:080805

SAMPLE RESULTS-CONVENTIONALS
WY50-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/05/13

Project: NA
Event: 307333
Date Sampled: 07/23/13
Date Received: 07/24/13

Client ID: SEEP-5
ARI ID: 13-15495 WY50B

Analyte	Date Batch	Method	Units	RL	Sample
Chloride	08/02/13 080213#1	SM4500-CLE	mg/L	1,000	8,140
Total Organic Carbon	07/25/13 072513#1	EPA 9060M	mg/L	1.50	< 1.50 U

RL Analytical reporting limit
U Undetected at reported detection limit

WY50 : 080807

MS/MSD RESULTS-CONVENTIONALS
WY50-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/05/13

Project: NA
Event: 307333
Date Sampled: 07/23/13
Date Received: 07/24/13

Analyte	Method	Date	Units	Sample	Spike	Spike Added	Recovery
ARI ID: WY50A Client ID: SEEP-4							
Total Organic Carbon	EPA 9060M	07/25/13	mg/L	4.28	23.9	20.0	98.1%

WY50 : 080806

REPLICATE RESULTS-CONVENTIONALS
WY50-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/05/13

Project: NA
Event: 307333
Date Sampled: 07/23/13
Date Received: 07/24/13

Analyte	Method	Date	Units	Sample	Replicate(s)	RPD/RSD
ARI ID: WY50A Client ID: SEEP-4						
Chloride	SM4500-CLE	08/02/13	mg/L	8,320	8,960	7.4%
Total Organic Carbon	EPA 9060M	07/25/13	mg/L	4.28	4.08	4.8%

WY50:00089

METHOD BLANK RESULTS-CONVENTIONALS
WY50-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/05/13

Project: NA
Event: 307333
Date Sampled: NA
Date Received: NA

Analyte	Method	Date	Units	Blank	ID
Chloride	SM4500-CLE	08/02/13	mg/L	< 1.0 U	FB
Total Organic Carbon	EPA 9060M	07/25/13	mg/L	< 1.50 U	

FB Filtration Blank

WY50:080813

STANDARD REFERENCE RESULTS-CONVENTIONALS
WY50-Friedman and Bruya, Inc

ANALYTICAL RESOURCES INCORPORATED

Matrix: Water
Data Release Authorized:
Reported: 08/05/13

Project: NA
Event: 307333
Date Sampled: NA
Date Received: NA

Analyte/SRM ID	Method	Date	Units	SRM	True Value	Recovery
Chloride ERA #411010	SM4500-CLE	08/02/13	mg/L	4.9	5.0	98.0%
Total Organic Carbon ERA #0408-13-02	EPA 9060M	07/25/13	mg/L	21.6	20.0	108.0%

307333

SAMPLE CHAIN OF CUSTODY

7/23/13 KS Vc/AOs/

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Send Report To Mike Staton

Company SLR International Corp.

Address 22118 20th Ave SE, G202

City, State, ZIP Bothell, WA 98021

Phone # 425-402-8800 Fax # 425-402-8488

SAMPLERS (signature)

PROJECT NAME/NO.: Crowley RIFS 8th Ave Terminal 101.00205.0030

PO#: 101.00205.0030

REMARKS: NWTPH-Dx after silica gel cleanup

TURNAROUND TIME
- ☒ Standard (2 Weeks)
- ☐ RUSH
- Rush charges authorized by

SAMPLE DISPOSAL
- ☐ Dispose after 30 days
- ☐ Return samples
- ☒ Will call with instructions

Sample ID	Lab ID	Date Sampled (per Amanda 7/23/13 MP)	Time Sampled	Sample Type	# of containers	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	HFS	Priority Pollutant metals by 6020	PAHs by 8270D SIM	PCBs by 8082A	TSS by D5907	Chloride by SM4500	TOC by EPA 9060A	DOC by EPA 415.3	Notes
Seep-4	01A-R	6/23/13	1145	WATER	18	X	X		X	X		X	X	X	X	X	X	X	
Seep-5	02A-R	6/23/13	1225	WATER	18	X	X		X	X		X	X	X	X	X	X	X	
																			Samples received at 2 °C

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Amanda Meighist	SLR	6/23/13	1457
Received by:	Michael Fedchl	FLBmc	↓	↓
Relinquished by:				
Received by:				

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Ph. (206) 285-8282
Fax (206) 283-5044

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