

ATTACHMENT A
LABORATORY ANALYTICAL REPORTS

Friedman & Bruya, Inc. #605227

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

June 14, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 12, 2016 from the TOC_01-600_20160512 WORFDB8, F&BI 605227 project. There are 19 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.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Jonathan Loeffler, Pete Kingston
SOU0614R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 12, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160512 WORFDB8, F&BI 605227 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605227 -01	01MW54-20160512
605227 -02	01MW65-20160512
605227 -03	01MW77-20160512
605227 -04	01MW64-20160512
605227 -05	01MW60-20160512

Sample 01MW60-20160512 was sent to Aquatic Research for sulfate, nitrate, nitrite, total phosphorus, hardness, alkalinity, TKN, and sulfide analyses. In addition, the sample was sent to Amtest for ferrous iron analysis. The reports are enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/14/16

Date Received: 05/12/16

Project: TOC_01-600_20160512 WORFDB8, F&BI 605227

Date Extracted: 05/13/16

Date Analyzed: 05/13/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
01MW54-20160512 605227-01	<1	<1	<1	<3	<100	96
01MW65-20160512 605227-02	<1	<1	<1	<3	<100	96
01MW77-20160512 605227-03	<1	<1	<1	<3	<100	95
01MW64-20160512 605227-04	<1	<1	<1	<3	<100	97
01MW60-20160512 605227-05	<1	<1	<1	<3	<100	99
Method Blank 06-947 MB	<1	<1	<1	<3	<100	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/14/16

Date Received: 05/12/16

Project: TOC_01-600_20160512 WORFDB8, F&BI 605227

Date Extracted: 05/16/16

Date Analyzed: 05/16/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 41-152)
01MW54-20160512 605227-01	<50	<250	115
01MW65-20160512 605227-02	<50	<250	106
01MW77-20160512 605227-03	55 x	<250	107
01MW64-20160512 605227-04	100 x	<250	113
01MW60-20160512 605227-05	<50	<250	102
Method Blank 06-981 MB	<50	<250	104

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	01MW60-20160512	Client:	SoundEarth Strategies
Date Received:	05/12/16	Project:	TOC_01-600_20160512 WORFDB8
Date Extracted:	05/23/16	Lab ID:	605227-05
Date Analyzed:	05/24/16	Data File:	605227-05.132
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	3,580
Manganese	1,120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	TOC_01-600_20160512 WORFDB8
Date Extracted:	05/23/16	Lab ID:	I6-325 mb
Date Analyzed:	05/23/16	Data File:	I6-325 mb.069
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	<50
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW54-20160512	Client:	SoundEarth Strategies
Date Received:	05/12/16	Project:	TOC_01-600_20160512 WORFDB8
Date Extracted:	05/16/16	Lab ID:	605227-01
Date Analyzed:	05/16/16	Data File:	051627.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	104	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW65-20160512	Client:	SoundEarth Strategies
Date Received:	05/12/16	Project:	TOC_01-600_20160512 WORFDB8
Date Extracted:	05/16/16	Lab ID:	605227-02
Date Analyzed:	05/16/16	Data File:	051628.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	57	121
Toluene-d8	106	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

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ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW77-20160512	Client:	SoundEarth Strategies
Date Received:	05/12/16	Project:	TOC_01-600_20160512 WORFDB8
Date Extracted:	05/16/16	Lab ID:	605227-03
Date Analyzed:	05/16/16	Data File:	051629.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	57	121
Toluene-d8	105	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

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ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW64-20160512	Client:	SoundEarth Strategies
Date Received:	05/12/16	Project:	TOC_01-600_20160512 WORFDB8
Date Extracted:	05/16/16	Lab ID:	605227-04
Date Analyzed:	05/16/16	Data File:	051630.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	106	63	127
4-Bromofluorobenzen e	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

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ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW60-20160512	Client:	SoundEarth Strategies
Date Received:	05/12/16	Project:	TOC_01-600_20160512 WORFDB8
Date Extracted:	05/16/16	Lab ID:	605227-05
Date Analyzed:	05/16/16	Data File:	051631.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	106	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	1.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160512 WORFDB8
Date Extracted:	05/16/16	Lab ID:	06-967 mb
Date Analyzed:	05/16/16	Data File:	051626.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	106	63	127
4-Bromofluorobenzen e	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

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ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Gasses By RSK 175

Client Sample ID:	01MW60-20160512	Client:	SoundEarth Strategies
Date Received:	05/12/16	Project:	TOC_01-600_20160512 WORFDB8
Date Extracted:	05/23/16	Lab ID:	605227-05
Date Analyzed:	05/23/16	Data File:	027F2701.D
Matrix:	Water	Instrument:	GC8
Units:	ug/L (ppb)	Operator:	JS

Compounds:	Concentration ug/L (ppb)
Methane	<5
Ethane	<10
Ethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Gasses By RSK 175

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	TOC_01-600_20160512 WORFDB8
Date Extracted:	05/23/16	Lab ID:	06-1023 mb
Date Analyzed:	05/23/16	Data File:	014F1401.D
Matrix:	Water	Instrument:	GC8
Units:	ug/L (ppb)	Operator:	JS

Compounds:	Concentration ug/L (ppb)
Methane	<5
Ethane	<10
Ethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/14/16

Date Received: 05/12/16

Project: TOC_01-600_20160512 WORFDB8, F&BI 605227

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 605227-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	96	65-118
Toluene	ug/L (ppb)	50	101	72-122
Ethylbenzene	ug/L (ppb)	50	101	73-126
Xylenes	ug/L (ppb)	150	99	74-118
Gasoline	ug/L (ppb)	1,000	90	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/14/16

Date Received: 05/12/16

Project: TOC_01-600_20160512 WORFDB8, F&BI 605227

**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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	104	104	63-142	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/14/16

Date Received: 05/12/16

Project: TOC_01-600_20160512 WORFDB8, F&BI 605227

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

Laboratory Code: 605188-01 x10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	766	152 b	108 b	70-130	34 b
Manganese	ug/L (ppb)	20	9,890	274 b	223 b	70-130	21 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	103	85-115
Manganese	ug/L (ppb)	20	106	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/14/16

Date Received: 05/12/16

Project: TOC_01-600_20160512 WORFDB8, F&BI 605227

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

Laboratory Code: 605227-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	95	36-166
Chloroethane	ug/L (ppb)	50	<1	111	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	93	60-136
Methylene chloride	ug/L (ppb)	50	<5	105	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	96	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	98	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	101	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	92	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	96	60-146
Trichloroethene	ug/L (ppb)	50	<1	97	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	89	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	98	102	50-154	4
Chloroethane	ug/L (ppb)	50	114	119	58-146	4
1,1-Dichloroethene	ug/L (ppb)	50	98	102	67-136	4
Methylene chloride	ug/L (ppb)	50	120	124	39-148	3
trans-1,2-Dichloroethene	ug/L (ppb)	50	103	108	68-128	5
1,1-Dichloroethane	ug/L (ppb)	50	103	106	79-121	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	107	112	80-123	5
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	95	99	73-132	4
1,1,1-Trichloroethane	ug/L (ppb)	50	102	106	83-130	4
Trichloroethene	ug/L (ppb)	50	99	104	80-120	5
Tetrachloroethene	ug/L (ppb)	50	94	95	76-121	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/14/16

Date Received: 05/12/16

Project: TOC_01-600_20160512 WORFDB8, F&BI 605227

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF
WATER SAMPLES FOR DISSOLVED GASSES
USING METHOD RSK 175**

Laboratory Code: 605344-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Methane	ug/L (ppb)	210	210	0
Ethane	ug/L (ppb)	<10	<10	nm
Ethene	ug/L (ppb)	<10	<10	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Methane	ug/L (ppb)	59	81	81	50-150	0
Ethane	ug/L (ppb)	110	75	74	50-150	1
Ethene	ug/L (ppb)	102	108	99	50-150	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

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

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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.

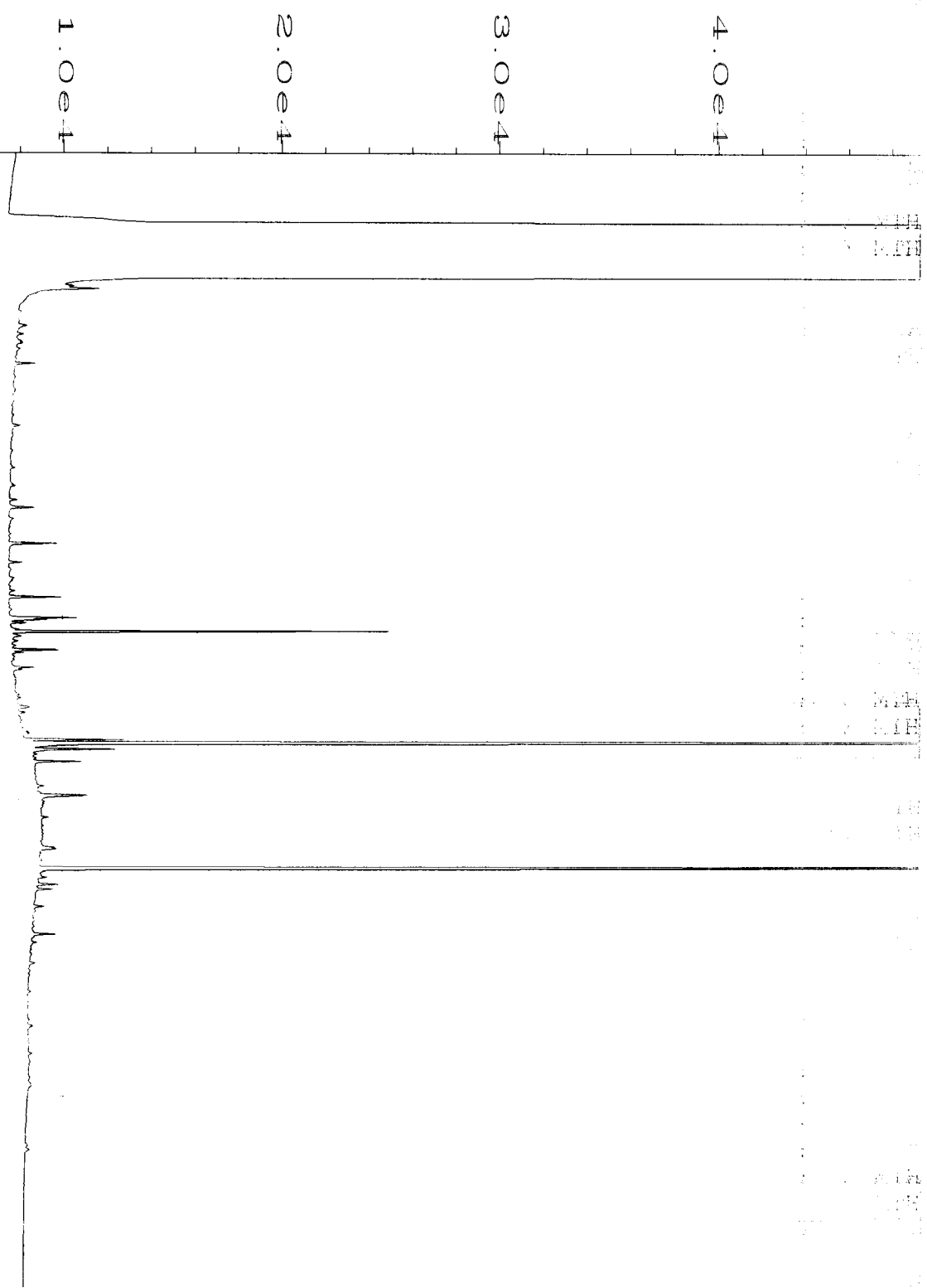
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Operator
Instrument
Sample Name
Run Time Bar
Acquired on
Report Created

Data File Name
Operator
Instrument
Sample Name
Run Time Bar
Acquired on
Report Created

Data File Name
Operator
Instrument
Sample Name
Run Time Bar
Acquired on
Report Created

Data File Name : C:\HPCHEM\1\DATA\05-16-16\047F0901.D
Operator : mwdl
Instrument : GC1
Sample Name : 605227-01
Run Time Bar Code:
Acquired on : 16 May 16 06:25 PM
Report Created on: 17 May 16 11:33 AM

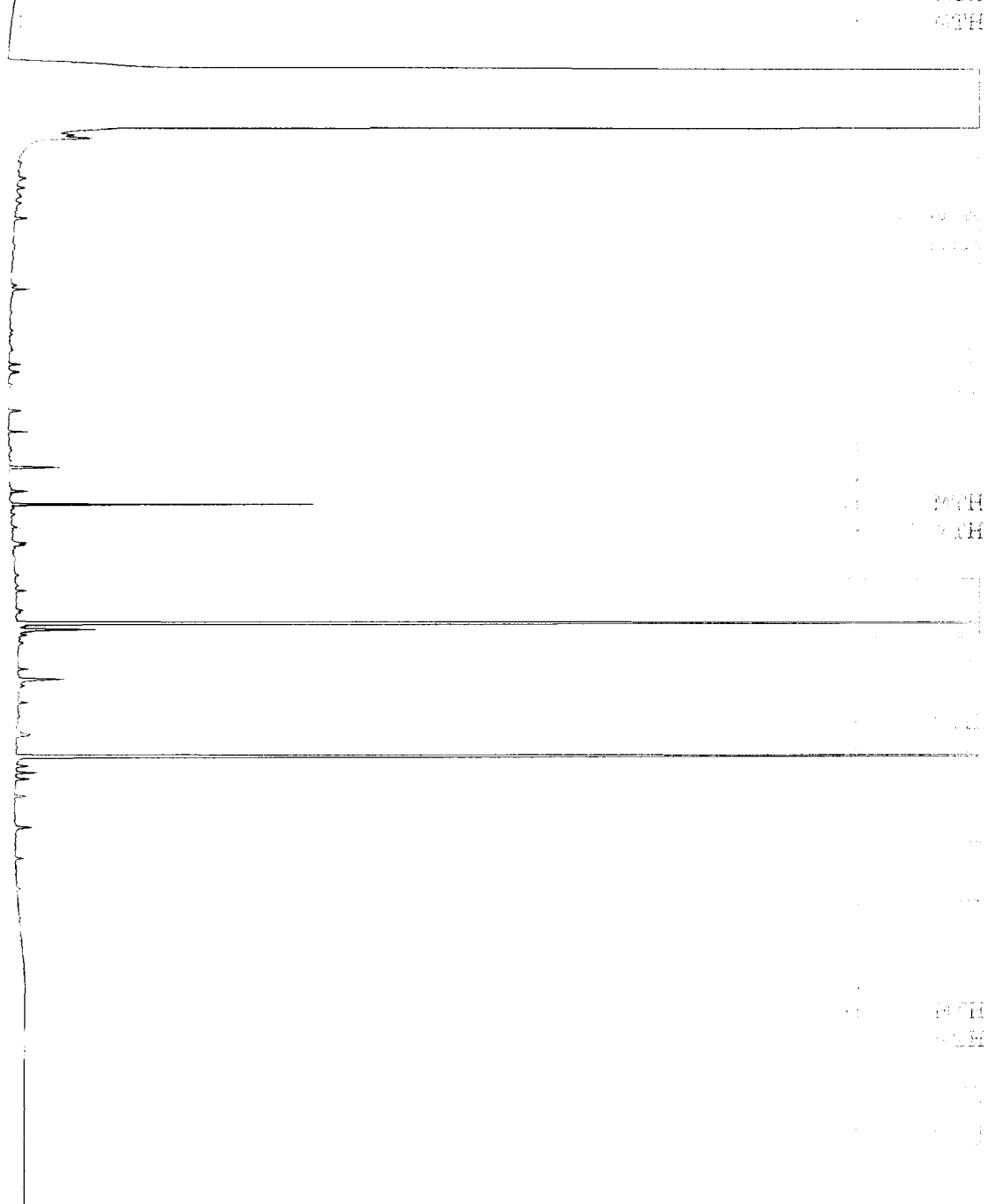
Page Number : 1
Vial Number : 47
Injection Number : 1
Sequence Line : 9
Instrument Method: DX.MTH
Analysis Method : DX.MTH



Operator
Instrument
Sample Name
Run Time Bar Code
Acquired on
Report Created on

1.0e4
2.0e4
3.0e4
4.0e4

Operator
Instrument
Sample Name
Run Time Bar Code
Acquired on
Report Created on
Operator
Instrument
Sample Name
Run Time Bar Code
Acquired on
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Operator
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Report Created on

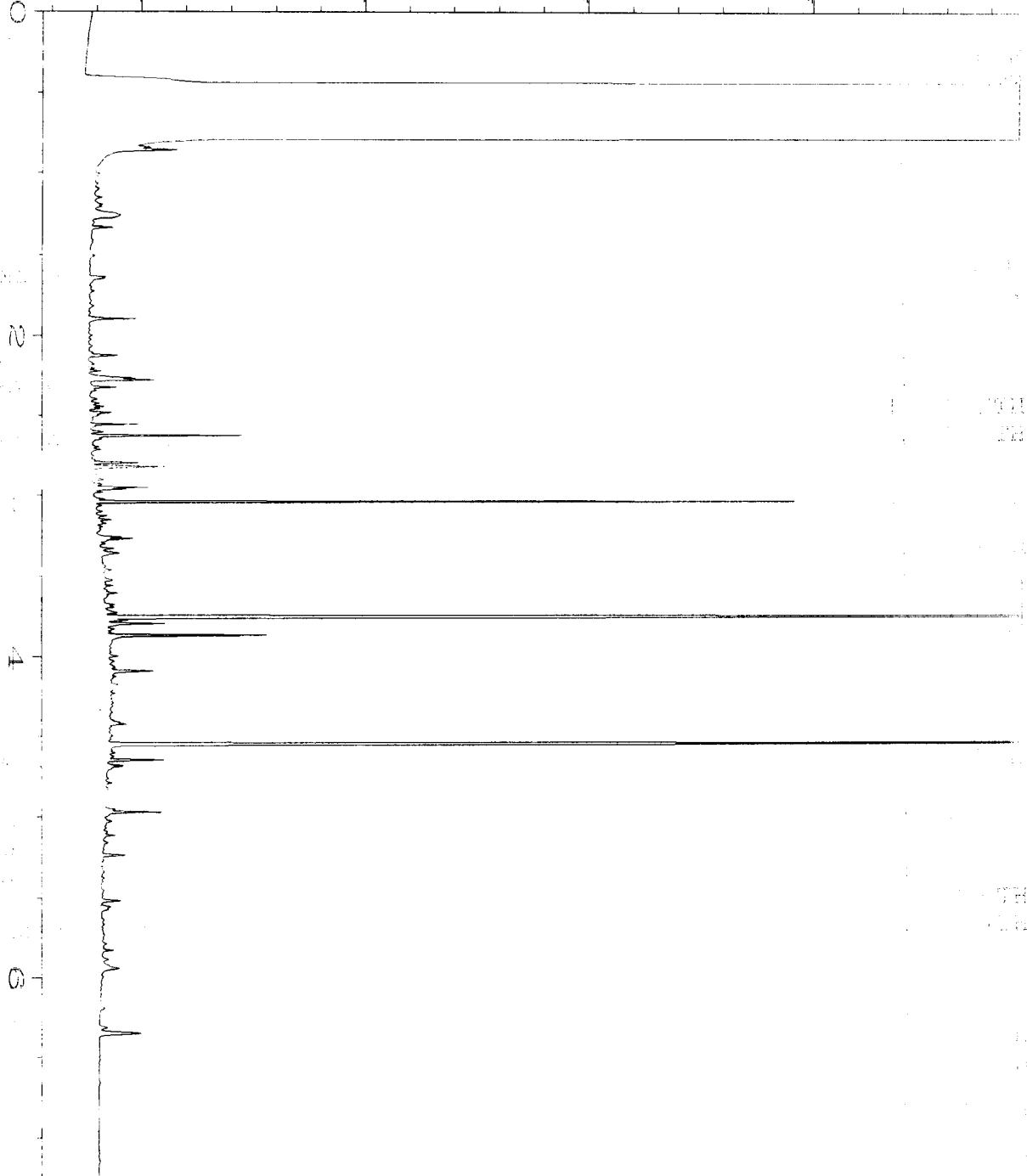


Data File Name : C:\HPCHEM\1\DATA\05-16-16\048F0901.D
Operator : mwdl
Instrument : GC1
Sample Name : 605227-02
Run Time Bar Code :
Acquired on : 16 May 16 06:36 PM
Report Created on : 17 May 16 11:33 AM
Page Number : 1
Vial Number : 48
Injection Number : 1
Sequence Line : 9
Instrument Method : DX.MTH
Analysis Method : DX.MTH

Operator
Instrument
Sample Name
Run Time Bar Code
Acquired on
Report Created on

Data File Name
 Operator
 Instrument
 Sample Name
 Run Time
 Acquired on
 Report Created

1.0e4
 2.0e4
 3.0e4
 4.0e4



Data File Name
 Operator
 Instrument
 Sample Name
 Run Time
 Acquired on
 Report Created

Data File Name
 Operator
 Instrument
 Sample Name
 Run Time
 Acquired on
 Report Created

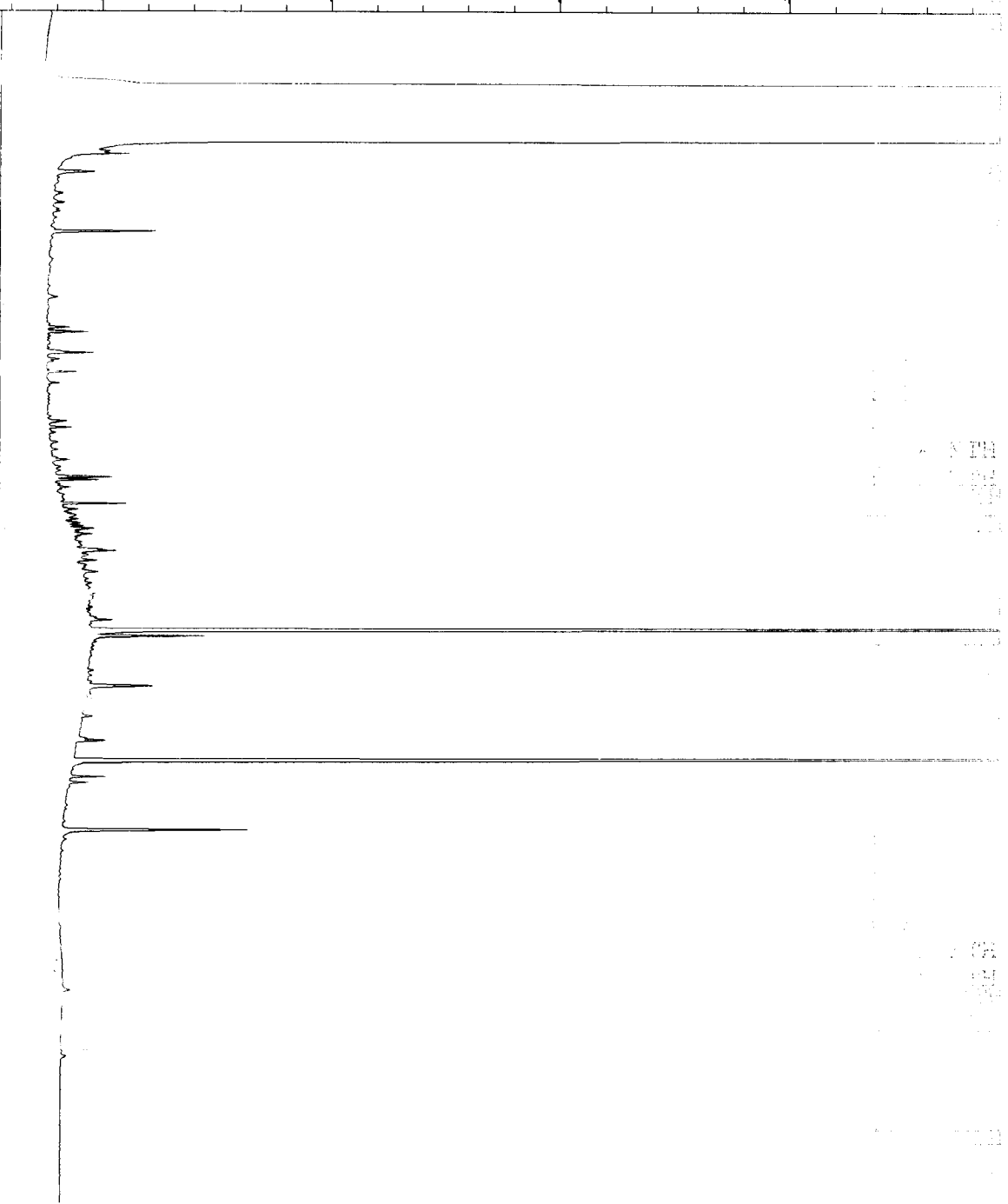
Data File Name	: C:\HPCHEM\1\DATA\05-16-16\049F0901.D	Page Number	: 1
Operator	: mwd1	Vial Number	: 49
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605227-03	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 16 May 16 06:47 PM	Analysis Method	: DX.MTH
Report Created on:	17 May 16 11:33 AM		

Data File Name
Operator
Instrument
Sample Name
Run Time
Acquired on
Report Created on

1.0e4
2.0e4
3.0e4
4.0e4

Data File Name
Operator
Instrument
Sample Name
Run Time
Acquired on
Report Created on

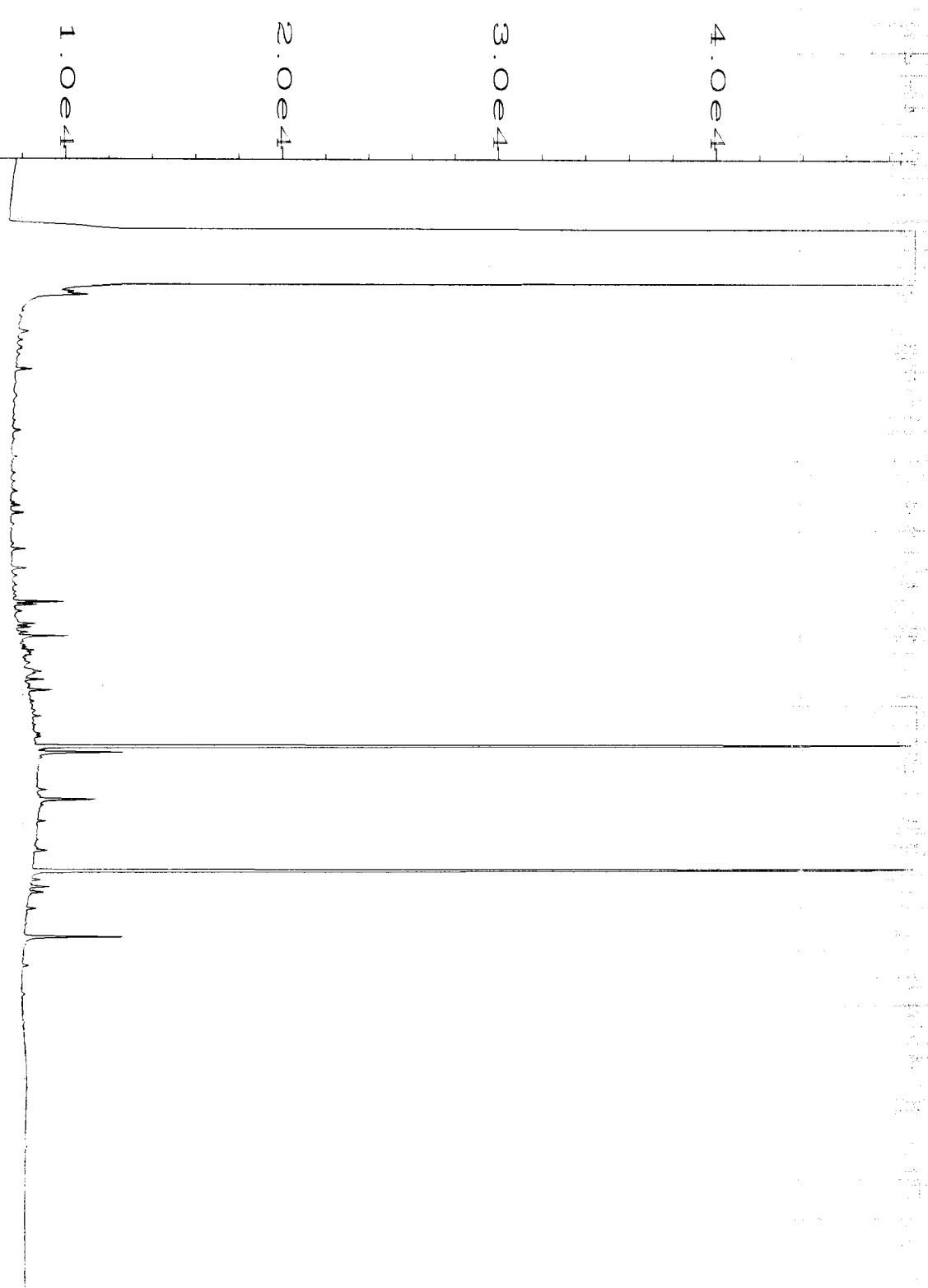
Data File Name
Operator
Instrument
Sample Name
Run Time
Acquired on
Report Created on



Data File Name	: C:\HPCHEM\1\DATA\05-16-16\050F0901.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 50
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605227-04	Sequence Line	: 9
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 16 May 16 06:58 PM	Analysis Method	: DX.MTH
Report Created on:	17 May 16 11:33 AM		

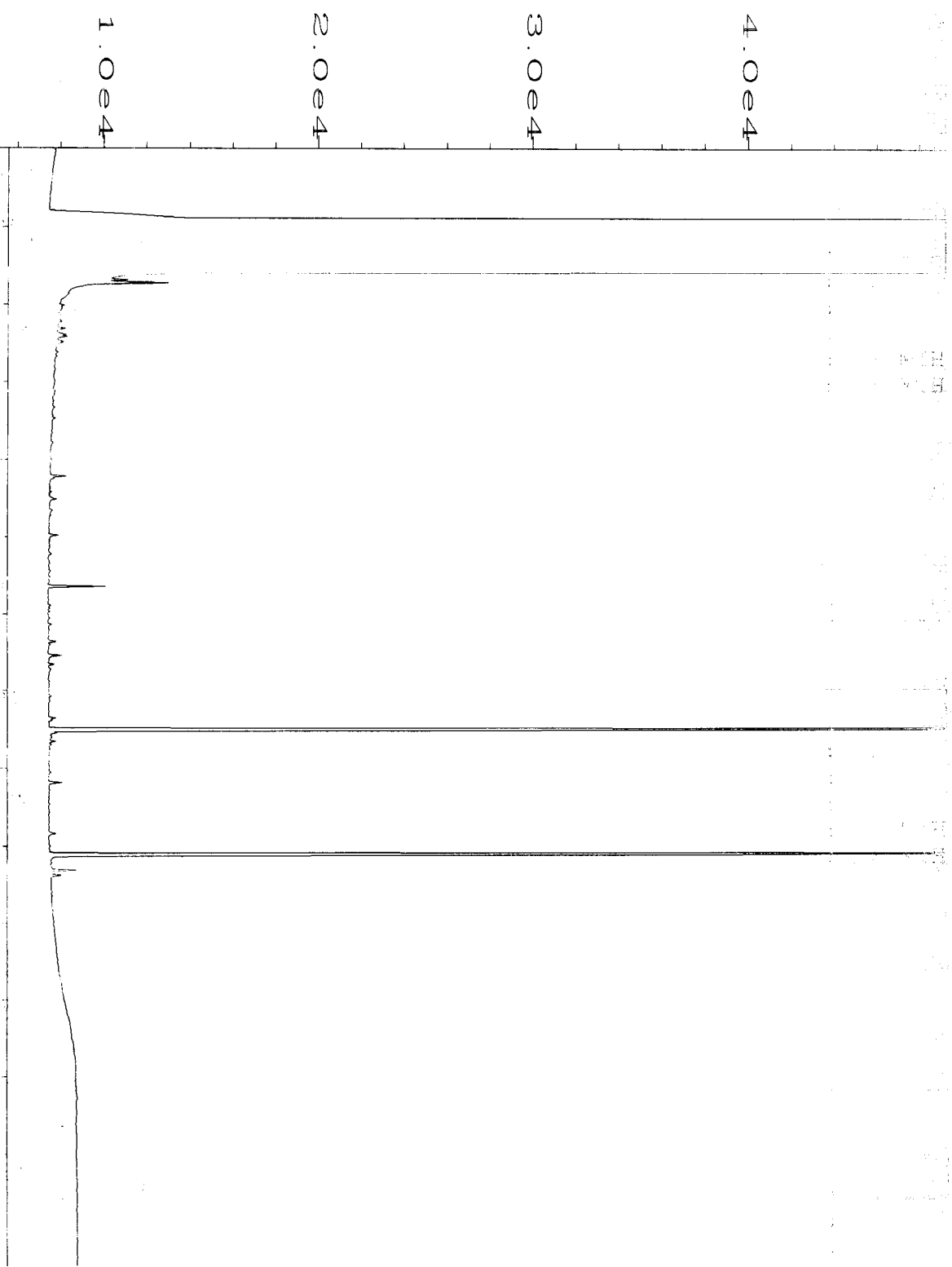
Data File Name
Operator
Instrument
Sample Name
Run Time
Acquired on
Report Created on

17150
 17100
 17000
 16900
 16800
 16700
 16600
 16500
 16400
 16300
 16200
 16100
 16000
 15900
 15800
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 200
 100
 0



Date	File Name	: C:\HPCHEM\1\DATA\05-16-16\051F0901.D	Page Number	: 1
Operator	:	mwdl	Vial Number	: 51
Instrument	:	GC1	Injection Number	: 1
Sample Name	:	605227-05	Sequence Line	: 9
Run Time Bar Code	:		Instrument Method	: DX.MTH
Acquired on	:	16 May 16 07:09 PM	Analysis Method	: DX.MTH
Report Created on	:	17 May 16 11:34 AM		

Date File Name
 Operator
 Instrument
 Sample Name
 Run Time
 Acquired on
 Report Created on
 Date File Name
 Operator
 Instrument
 Sample Name
 Run Time
 Acquired on
 Report Created on
 Date File Name
 Operator
 Instrument
 Sample Name
 Run Time
 Acquired on
 Report Created on



Data File Name	: C:\HPCHEM\1\DATA\05-16-16\020F0501.D	Page Number	: 1
Operator	: mwd1	Vial Number	: 20
Instrument	: GC1	Injection Number	: 1
Sample Name	: 06-981 mb	Sequence Line	: 5
Run Time Bar Code:		Instrument Method	: DX.MTE
Acquired on	: 16 May 16 12:38 PM	Analysis Method	: DX.MTE
Report Created on:	17 May 16 11:34 AM		

Data File No. 1
 Operator
 Sample Name
 Run Time Bar
 Acquired on
 Report Created on

 Data File No. 2
 Operator
 Sample Name
 Run Time Bar
 Acquired on
 Report Created on

 Data File No. 3
 Operator
 Sample Name
 Run Time Bar
 Acquired on
 Report Created on

 Data File No. 4
 Operator
 Sample Name
 Run Time Bar
 Acquired on
 Report Created on

 Data File No. 5
 Operator
 Sample Name
 Run Time Bar
 Acquired on
 Report Created on

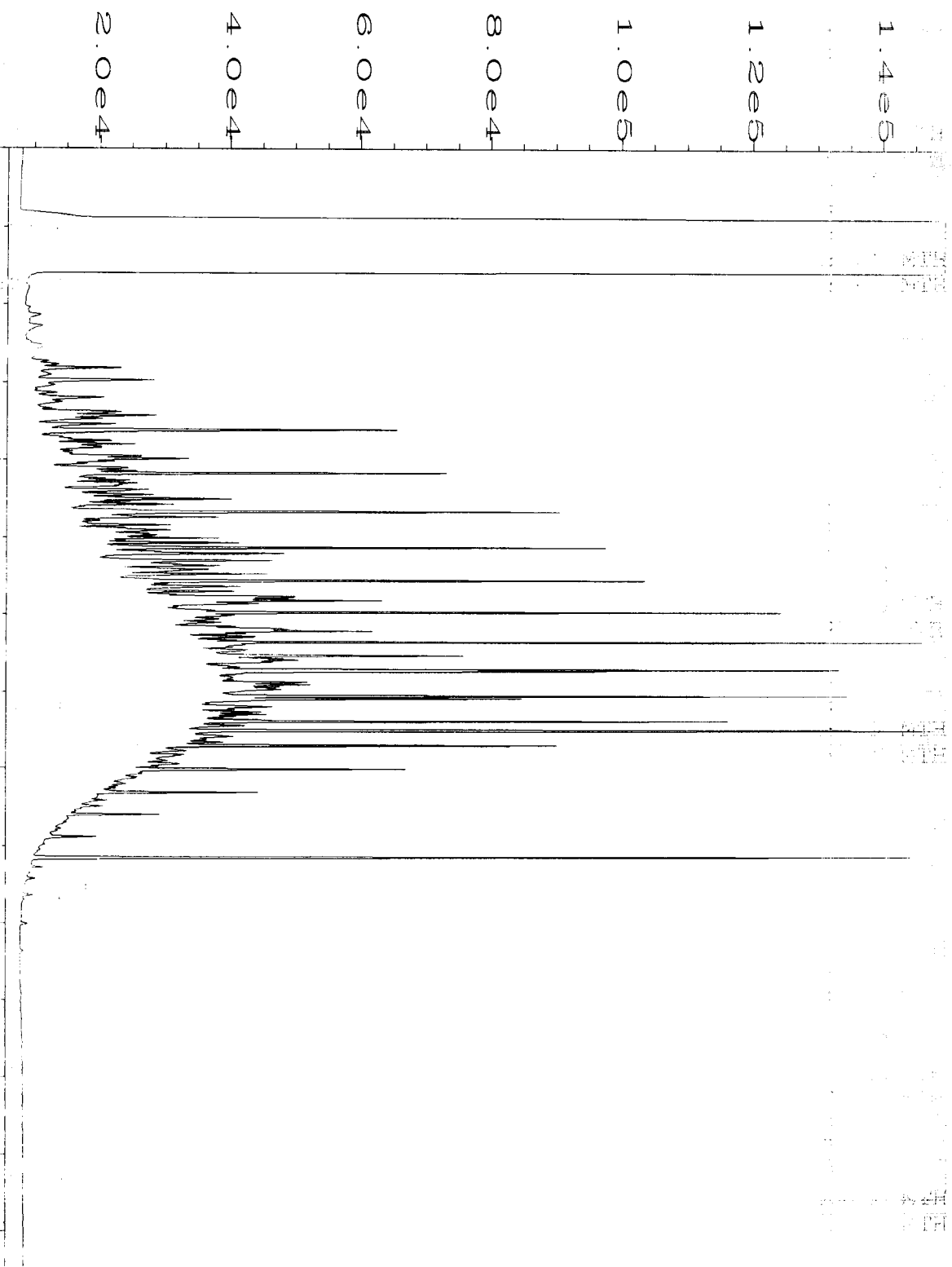
 Data File No. 6
 Operator
 Sample Name
 Run Time Bar
 Acquired on
 Report Created on

 Data File No. 7
 Operator
 Sample Name
 Run Time Bar
 Acquired on
 Report Created on

 Data File No. 8
 Operator
 Sample Name
 Run Time Bar
 Acquired on
 Report Created on

 Data File No. 9
 Operator
 Sample Name
 Run Time Bar
 Acquired on
 Report Created on

 Data File No. 10
 Operator
 Sample Name
 Run Time Bar
 Acquired on
 Report Created on



Data File Name	: C:\HPCHEM\1\DATA\05-16-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method	: DX.MTM
Acquired on	: 16 May 16 06:59 AM	Analysis Method	: DX.MTM
Report Created on:	17 May 16 11:35 AM		

Data File No. 10
 Operator
 Sample Name
 Run Time Bar
 Acquired on
 Report Created on



**Professional
Analytical
Services**

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

May 19 2016
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Attention: MICHAEL ERDAHL

Dear MICHAEL ERDAHL:

Enclosed please find the analytical data for your 605227 project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
01MW60-20160512	Water	16-A008432	MET

Your sample was received on Friday, May 13, 2016. At the time of receipt, the sample was logged in and properly maintained prior to the subsequent analysis.

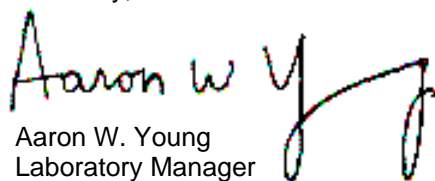
The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to conact me.

Sincerely,



Aaron W. Young
Laboratory Manager

Project #: 605227
PO Number: D-972

BACT = Bacteriological
CONV = Conventional

MET = Metals
ORG = Organics

NUT=Nutrients
DEM=Demand

MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com



Professional
Analytical
Services

ANALYSIS REPORT

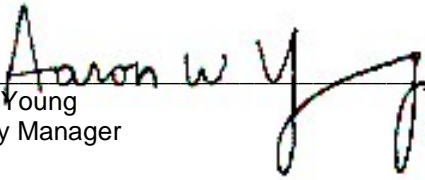
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Attention: MICHAEL ERDAHL
Project Name: 605227
Project #: 605227
PO Number: D-972
All results reported on an as received basis.

Date Received: 05/13/16
Date Reported: 5/19/16

AMTEST Identification Number 16-A008432
Client Identification 01MW60-20160512
Sampling Date 05/12/16, 14:38

Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ferrous Iron	2.23	mg/l		0.01	SM 3500Fe D	MJ	05/13/16


Aaron W. Young
Laboratory Manager

QC Summary for sample number: 16-A008432

MATRIX SPIKES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
16-A008432	Ferrous Iron	mg/l	2.23	7.19	5.00	99.20 %
16-A008432	Ferrous Iron	mg/l	2.23	7.28	5.00	101.00 %

MATRIX SPIKE DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE + SPK	MSD VALUE	RPD
Spike	Ferrous Iron	mg/l	7.19	7.28	1.2

STANDARD REFERENCE MATERIALS

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Ferrous Iron	mg/l	0.50	0.52	104. %

BLANKS

ANALYTE	UNITS	RESULT
Ferrous Iron	mg/l	< 0.01

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Send Report To Michael Erdahl
 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 <u>Amtest</u>	
PROJECT NAME/NO. <u>605227</u>	PO # <u>D-972</u>
REMARKS <p style="text-align: center;">Please Email Results</p>	

Page # 1 of 1 P.4

TURNAROUND TIME
<input checked="" type="checkbox"/> Standard (2 Weeks)
<input type="checkbox"/> RUSH _____
Rush charges authorized by: _____
SAMPLE DISPOSAL
<input type="checkbox"/> Dispose after 30 days
<input type="checkbox"/> Return samples
<input type="checkbox"/> Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes		
						Ferrous Iron	Total Iron	Hardness	Sulfate	Nitrate	Nitrite	Alkalinity	Sulfide	TKN	Total Phosphorus		Dissolved Gases	
01MW60-20160512	8432	5/12/16	1438	water	1	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	5/13/16	0820
Received by:				
Relinquished by:				
Received by:				



IEH ANALYTICAL LABORATORIES
LABORATORY & CONSULTING SERVICES
3927 AURORA AVENUE NORTH, SEATTLE, WA 98103
PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	FBI014-67	PAGE 1
REPORT DATE:	06/10/16	
DATE SAMPLED:	05/12/16	DATE RECEIVED: 05/13/16
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM FRIEDMAN & BRUYA, INC. / PROJECT NO. 605227		

CASE NARRATIVE

One water sample was received by the laboratory in good condition and analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of this sample. Sample data follows while QA/QC data is contained on subsequent pages.

SAMPLE DATA

SAMPLE ID	ALKALINITY (mgCaCO3/l)	SULFATE (mg/L)	SULFIDE (mg/L)	TOTAL-P (mg/L)	TKN (mg/L)
01MW60-20160512	349	57.9	0.36	0.208	0.897

SAMPLE ID	NITRATE (mg/L)	NITRITE (mg/L)	HARDNESS (mgCaCO3/L)
01MW60-20160512	<0.010	0.003	368



IEH ANALYTICAL LABORATORIES
LABORATORY & CONSULTING SERVICES
 3927 AURORA AVENUE NORTH, SEATTLE, WA 98103
 PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	FBI014-67	PAGE 2
REPORT DATE:	06/10/16	
DATE SAMPLED:	05/12/16	DATE RECEIVED: 05/13/16
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM FRIEDMAN & BRUYA, INC. / PROJECT NO. 605227		

QA/QC DATA

QC PARAMETER	ALKALINITY (mgCaCO3/l)	SULFATE (mg/L)	SULFIDE (mg/L)	TOTAL-P (mg/L)	TKN (mg/L)
METHOD	SM18 2320B	SM184500SO4E	EPA 376.1	EPA 365.1	EPA 351.1
DATE ANALYZED	05/23/16	06/02/16	05/18/16	06/07/16	06/08/16
DETECTION LIMIT	1.00	1.00	0.05	0.002	0.200
DUPLICATE					
SAMPLE ID	BATCH	BATCH	BATCH	BATCH	BATCH
ORIGINAL	61.5	2.43	0.28	0.089	0.508
DUPLICATE	61.0	2.40	0.28	0.090	0.509
RPD	0.82%	1.27%	0.00%	1.18%	0.17%
SPIKE SAMPLE					
SAMPLE ID		BATCH		BATCH	BATCH
ORIGINAL		2.43		0.089	0.508
SPIKED SAMPLE		12.4		0.139	2.46
SPIKE ADDED		10.0		0.050	2.00
% RECOVERY	NA	100.08%	NA	100.72%	97.59%
QC CHECK					
FOUND	105	9.88		0.095	6.74
TRUE	100	10.0		0.094	6.70
% RECOVERY	105.00%	98.80%	NA	101.06%	100.60%
BLANK					
	NA	<1.00	<0.05	<0.002	<0.200

RPD = RELATIVE PERCENT DIFFERENCE.
 NA = NOT APPLICABLE OR NOT AVAILABLE.
 NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
 OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TOO LOW RELATIVE TO SAMPLE CONCENTRATION.



IEH ANALYTICAL LABORATORIES
LABORATORY & CONSULTING SERVICES
3927 AURORA AVENUE NORTH, SEATTLE, WA 98103
PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER: FBI014-67 **PAGE 3**
REPORT DATE: 06/10/16
DATE SAMPLED: 05/12/16 **DATE RECEIVED:** 05/13/16
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER
SAMPLES FROM FRIEDMAN & BRUYA, INC. / PROJECT NO. 605227

QA/QC DATA

QC PARAMETER	NITRATE (mg/L)	NITRITE (mg/L)	HARDNESS (mgCaCO3/L)
METHOD	SM184500N03F	EPA 353.2	SM18 2340C
DATE ANALYZED	05/13/16	05/13/16	06/07/16
DETECTION LIMIT	0.010	0.002	2.00
DUPLICATE			
SAMPLE ID	BATCH	BATCH	BATCH
ORIGINAL	0.234	0.004	131
DUPLICATE	0.231	0.004	134
RPD	1.01%	0.00%	2.26%
SPIKE SAMPLE			
SAMPLE ID	BATCH	BATCH	
ORIGINAL	0.234	0.004	
SPIKED SAMPLE	0.444	0.044	
SPIKE ADDED	0.200	0.040	
% RECOVERY	105.03%	100.00%	NA
QC CHECK			
FOUND	0.412	0.040	39.5
TRUE	0.408	0.040	40.0
% RECOVERY	100.98%	100.00%	98.75%
BLANK	<0.010	<0.002	<2.00

RPD = RELATIVE PERCENT DIFFERENCE.
NA = NOT APPLICABLE OR NOT AVAILABLE.
NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TOO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Damien Gadomski
Project Manager

FB1014-67
SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 3012 16th Ave W
 City, State, ZIP Seattle, WA 98119
 Phone # (206) 285-8282 Fax # (206) 283-5044


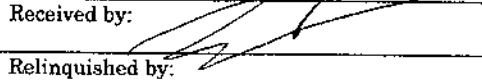
SUBCONTRACTER <i>As. Research</i>	
PROJECT NAME/NO. 605227	PO # D-980
REMARKS Please Email Results	

Page # 1 of 1

TURNAROUND TIME
<input checked="" type="checkbox"/> Standard (2 Weeks)
<input type="checkbox"/> RUSH
Rush charges authorized by: _____
SAMPLE DISPOSAL
<input type="checkbox"/> Dispose after 30 days
<input type="checkbox"/> Return samples
<input type="checkbox"/> Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED											Notes
						Total Fe	Hardness	Sulfate	Nitrate	Nitrite	Alkalinity	Sulfide	TKN	Total Phosphorus	Dissolved Gasses		
01MW60-20160512		5/12/16	1438	water	4		X	X	X	X	X	X	X	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	5/13/16	0820
Received by: 	David Pollock	LEH	5-13-16	1000
Relinquished by:				
Received by:				

126°C (4) total

605227

SAMPLE CHAIN OF CUSTODY ME 05/12/16

v2/AE3/DOY
Page # 1 of 1

Send Report To Tim Brown, cc: Jessica Brown, Jennifer Cyr, Pete Kingston, Courtney Schaumberg, Jonathan Loeffler

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) <i>Clare Toeh</i>	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - ASKO Property	PO # 0440-004-41
REMARKS	EIM Y

TURNAROUND TIME <u>Standard (2 Weeks)</u> RUSH _____ Rush charges authorized by: _____
SAMPLE DISPOSAL <input checked="" type="checkbox"/> Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOGS by EPA 8260C	Methane, Ethane, and Ethene by RSK 175	Sulfate, Nitrate, Nitrite, Total P, Hardness, and Alkalinity	Total Fe and Total Mn	Sulfide, TKN, and Fe 2+	Notes	
01MW54-20160512	01MW54	—	01A-9	5/12/16	1030	H ₂ O	6	X	X	X	X						
01MW65-20160512	01MW65	—	02	5/12/16	1110	H ₂ O	6	X	X	X	X						
01MW77-20160512	01MW77	—	03	5/12/16	1225	H ₂ O	6	X	X	X	X						
01MW64-20160512	01MW64	—	04	5/12/16	1330	H ₂ O	6	X	X	X	X						
01MW60-20160512	01MW60	—	05A	5/12/16	1435	H ₂ O	14	X	X	X	X	X	X	X	X	X	
01MW61-20160512																	

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: <i>Clare Toeh</i>	Clare Toehkin	SoundEarth	5/12/16	1606
Received by: <i>[Signature]</i>	Muff Layston	to Bline	5/12/16	1606
Relinquished by:				
Received by:		Samples received at	4 °C	

Friedman & Bruya, Inc. #605258

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

May 27, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 13, 2016 from the TOC_01-600_20160513 WORFDB8, F&BI 605258 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.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Jonathan Loeffler, Pete Kingston
SOU0527R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 13, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160513 WORFDB8, F&BI 605258 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605258 -01	01MW61-20160513
605258 -02	01MW78-20160513
605258 -03	01MW62-20160513
605258 -04	01MW15-20160513
605258 -05	01MW79-20160513

Methylene chloride was detected in the dilution of sample 01MW62-20160513. The data were flagged as due to laboratory contamination.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/13/16

Project: TOC_01-600_20160513 WORFDB8, F&BI 605258

Date Extracted: 05/16/16

Date Analyzed: 05/16/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
01MW61-20160513 605258-01	<1	<1	<1	<3	<100	101
01MW78-20160513 605258-02	<1	<1	<1	<3	<100	100
01MW62-20160513 605258-03	<1	<1	<1	<3	270 x	99
01MW15-20160513 605258-04	1.5	<1	<1	<3	<100	99
01MW79-20160513 605258-05	<1	<1	<1	<3	110 x	100
Method Blank 06-948 MB	<1	<1	<1	<3	<100	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/13/16

Project: TOC_01-600_20160513 WORFDB8, F&BI 605258

Date Extracted: 05/18/16

Date Analyzed: 05/18/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 41-152)
01MW61-20160513 605258-01	56 x	<250	108
01MW78-20160513 605258-02	<50	<250	100
01MW62-20160513 605258-03	53 x	<250	98
01MW15-20160513 605258-04	220 x	<250	102
01MW79-20160513 605258-05	1,400 x	1,100 x	113
Method Blank 06-992 MB	<50	<250	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW61-20160513	Client:	SoundEarth Strategies
Date Received:	05/13/16	Project:	TOC_01-600_20160513 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605258-01
Date Analyzed:	05/17/16	Data File:	051708.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	109	85	117
Toluene-d8	100	91	108
4-Bromofluorobenzene	97	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW78-20160513	Client:	SoundEarth Strategies
Date Received:	05/13/16	Project:	TOC_01-600_20160513 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605258-02
Date Analyzed:	05/17/16	Data File:	051709.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	85	117
Toluene-d8	100	91	108
4-Bromofluorobenzene	95	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	4.0
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW62-20160513	Client:	SoundEarth Strategies
Date Received:	05/13/16	Project:	TOC_01-600_20160513 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605258-03
Date Analyzed:	05/17/16	Data File:	051710.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	85	117
Toluene-d8	99	91	108
4-Bromofluorobenzene	96	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	7.0
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	630 ve
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW62-20160513	Client:	SoundEarth Strategies
Date Received:	05/13/16	Project:	TOC_01-600_20160513 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605258-03 1/10
Date Analyzed:	05/20/16	Data File:	052025.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<2
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	91 lc
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	<10
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	610
Tetrachloroethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW15-20160513	Client:	SoundEarth Strategies
Date Received:	05/13/16	Project:	TOC_01-600_20160513 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605258-04
Date Analyzed:	05/17/16	Data File:	051711.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	85	117
Toluene-d8	99	91	108
4-Bromofluorobenzene	97	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	8.5
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	1.4
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW79-20160513	Client:	SoundEarth Strategies
Date Received:	05/13/16	Project:	TOC_01-600_20160513 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605258-05
Date Analyzed:	05/17/16	Data File:	051712.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	85	117
Toluene-d8	100	91	108
4-Bromofluorobenzene	95	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	7.3
Chloroethane	<1
1,1-Dichloroethene	1.2
Methylene chloride	<5
trans-1,2-Dichloroethene	2.9
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	35
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	100
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160513 WORFDB8
Date Extracted:	05/17/16	Lab ID:	06-969 mb
Date Analyzed:	05/17/16	Data File:	051707.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	85	117
Toluene-d8	100	91	108
4-Bromofluorobenzene	99	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/13/16

Project: TOC_01-600_20160513 WORFDB8, F&BI 605258

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 605266-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	100	65-118
Toluene	ug/L (ppb)	50	101	72-122
Ethylbenzene	ug/L (ppb)	50	102	73-126
Xylenes	ug/L (ppb)	150	99	74-118
Gasoline	ug/L (ppb)	1,000	94	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/13/16

Project: TOC_01-600_20160513 WORFDB8, F&BI 605258

**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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	105	104	63-142	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/13/16

Project: TOC_01-600_20160513 WORFDB8, F&BI 605258

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

Laboratory Code: 605258-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	113	61-139
Chloroethane	ug/L (ppb)	50	<1	120	55-149
1,1-Dichloroethene	ug/L (ppb)	50	<1	110	71-123
Methylene chloride	ug/L (ppb)	50	<5	107	61-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	108	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<1	104	79-113
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	104	63-126
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	105	70-119
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	113	75-121
Trichloroethene	ug/L (ppb)	50	<1	97	75-109
Tetrachloroethene	ug/L (ppb)	50	<1	96	72-113

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	117	117	70-119	0
Chloroethane	ug/L (ppb)	50	124	123	66-149	1
1,1-Dichloroethene	ug/L (ppb)	50	111	112	75-119	1
Methylene chloride	ug/L (ppb)	50	106	106	63-132	0
trans-1,2-Dichloroethene	ug/L (ppb)	50	106	106	76-118	0
1,1-Dichloroethane	ug/L (ppb)	50	103	103	80-116	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	102	101	80-112	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	108	107	79-109	1
1,1,1-Trichloroethane	ug/L (ppb)	50	116	116	80-116	0
Trichloroethene	ug/L (ppb)	50	96	97	77-108	1
Tetrachloroethene	ug/L (ppb)	50	94	93	78-109	1

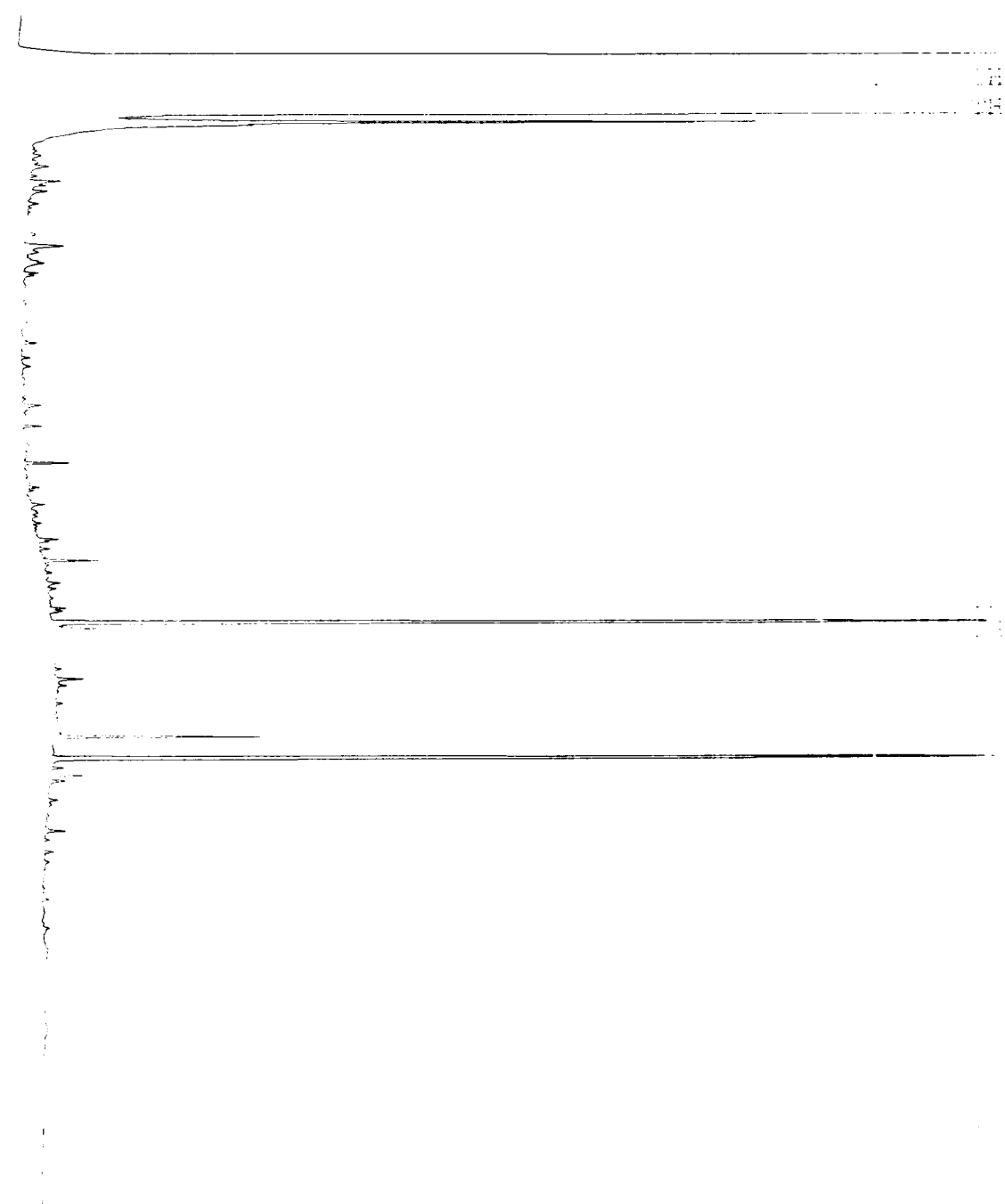
FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

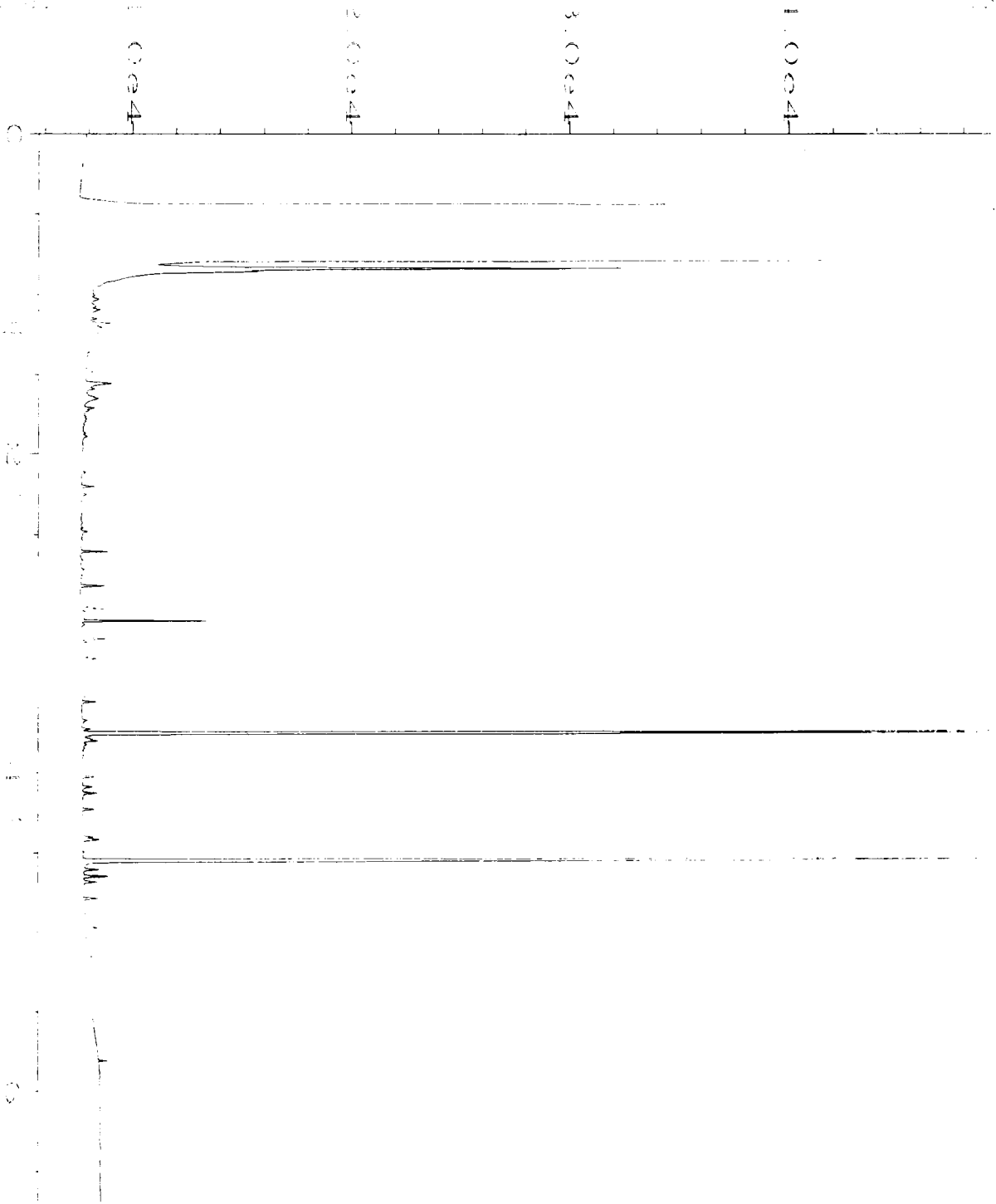
- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- 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. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- 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.

1.0e4
2.0e4
3.0e4
4.0e4



Data File Name : C:\HPCHEM\1\DATA\05-18-16\038F0901.D
Operator : mwdl
Substrate : GC1
Sample Name : 605258-01
Run Time Bar Code:
Acquired on : 18 May 16 06:35 PM
Report Created on: 19 May 16 09:52 AM
Page Number : 1
Vial Number : 38
Injection Number : 1
Sequence Line : 9
Instrument Method: DX.MTH
Analysis Method : DX.MTH

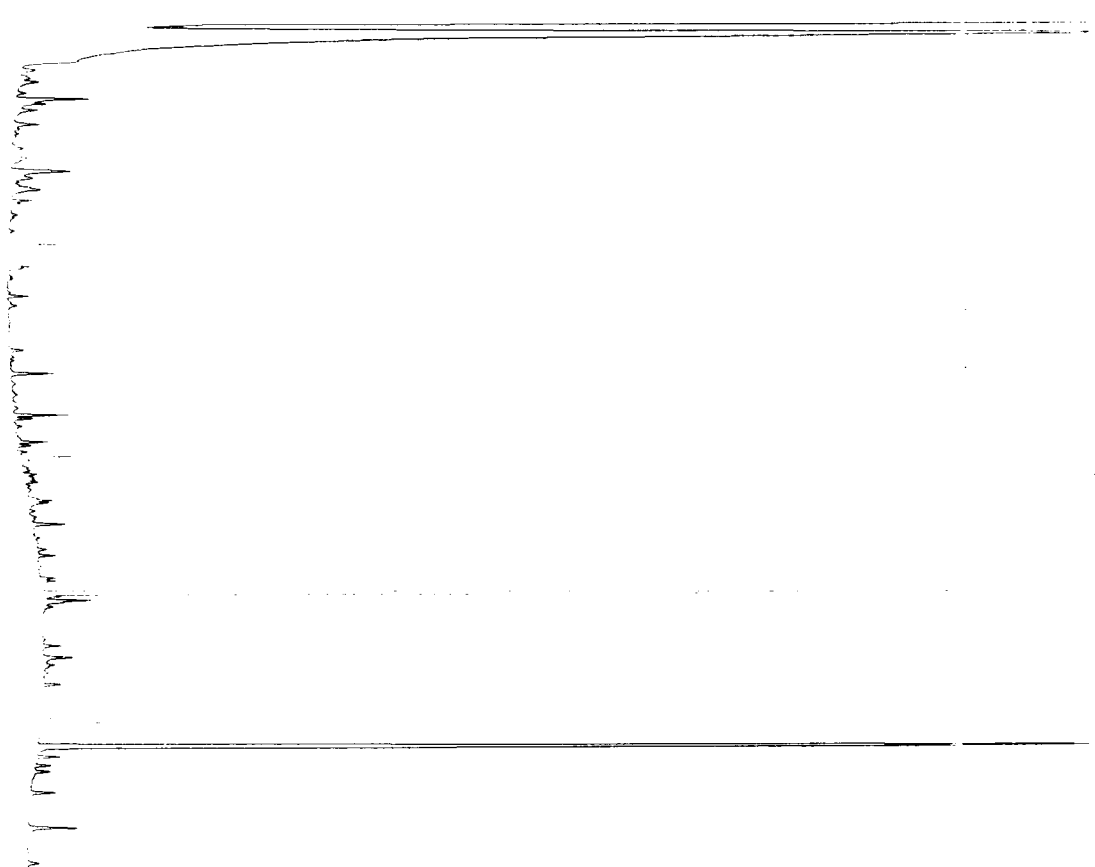
Sample Name
Run Time
Report



Data File Name : C:\HPCHEM\1\DATA\05-18-16\039F0901.D
Operator : mwdl
Instrument : GC1
Sample Name : 605258-02
Run Time Bar Code:
Acquired on : 18 May 16 06:46 PM
Report Created on: 19 May 16 09:52 AM
Page Number : 1
Vial Number : 39
Injection Number : 1
Sequence Line : 9
Instrument Method: DX.MTH
Analysis Method : DX.MTH

Operator
Instrument
Sample Name
Run Time Bar Code
Acquired On

1.0e4
2.0e4
3.0e4
4.0e4



Data File Name : C:\HPCHEM\1\DATA\05-18-16\040F0901.D
Operator : mwdl Page Number : 1
Instrument : GC1 Vial Number : 40
Sample Name : 605258-03 Injection Number : 1
Run Time Bar Code: Sequence Line : 9
Acquired On : 18 May 16 06:57 PM Instrument Method: DX.MTH
Report Created on: 19 May 16 09:52 AM Analysis Method : DX.MTH

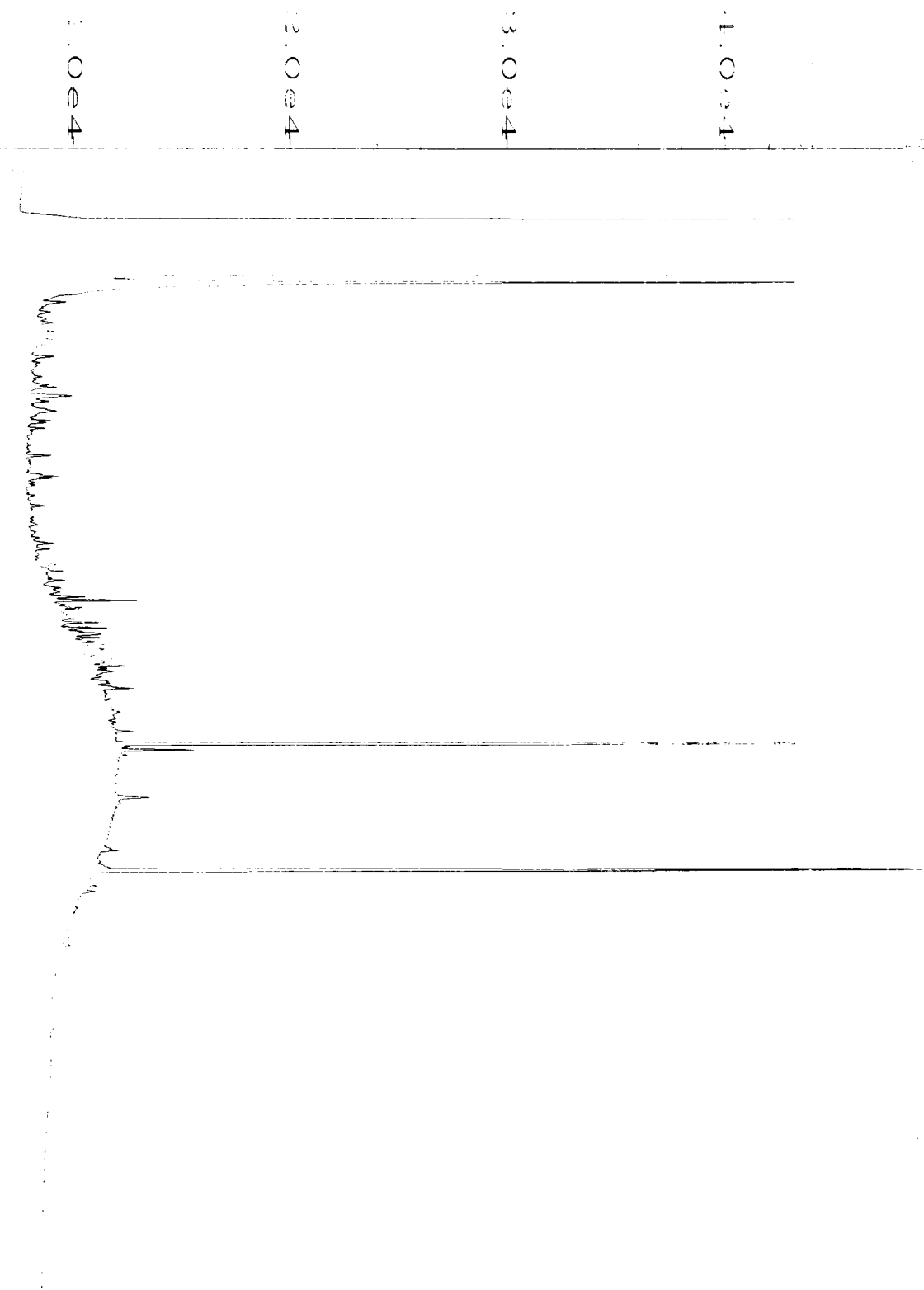
Operator
Sample Name
Run Time Bar Code

Instrument
Injection Number
Sequence Line

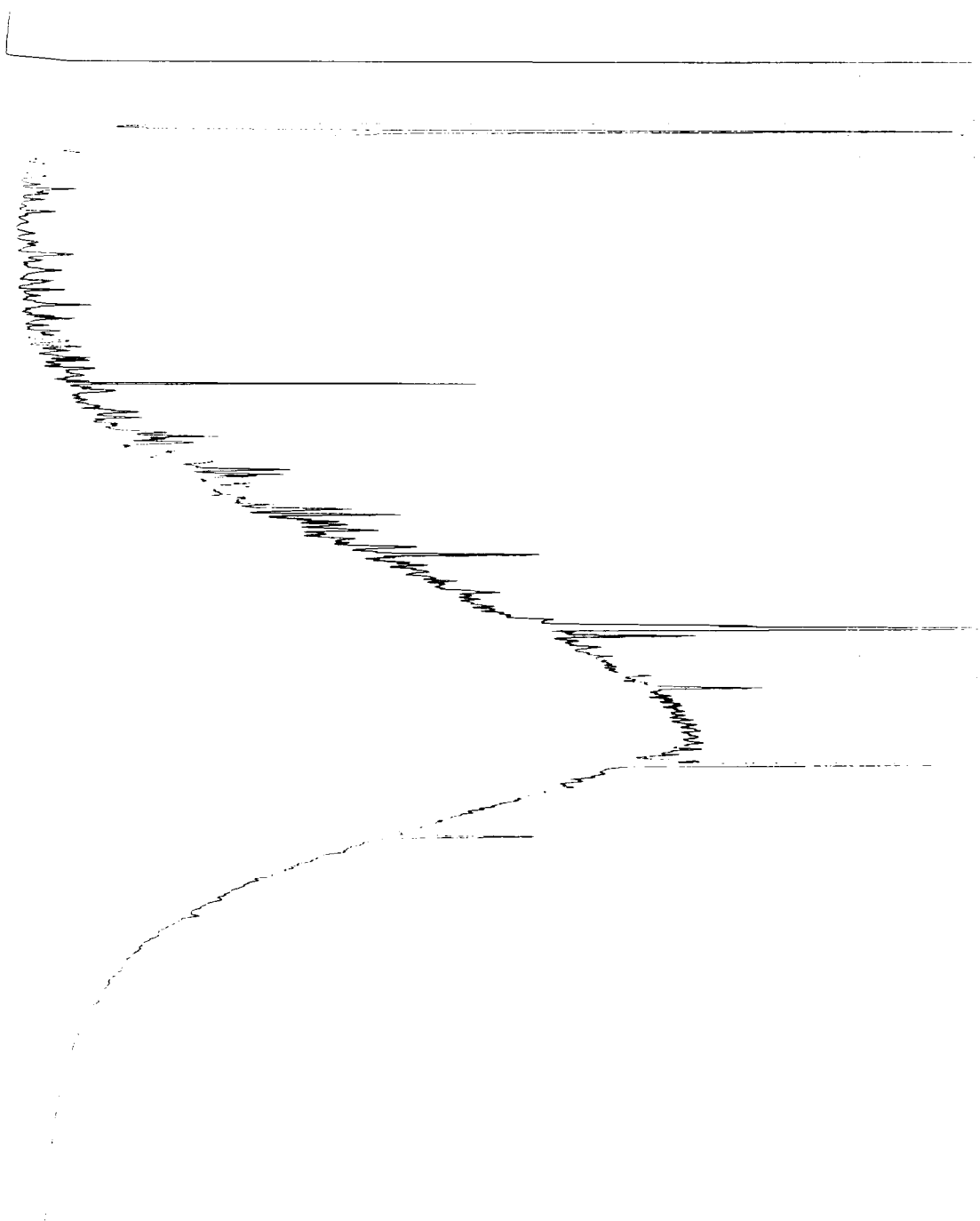
Acquired on
Report Created on

Data File Name : C:\HPCHEM\1\DATA\05-18-16\041F0901.D
Operator : mwdl
Instrument : GC1
Sample Name : 605258-04
Run Time Bar Code:
Acquired on : 18 May 16 07:09 PM
Report Created on: 19 May 16 09:52 AM

Page Number : 1
Vial Number : 41
Injection Number : 1
Sequence Line : 9
Instrument Method: DX.MTH
Analysis Method : DX.MTH

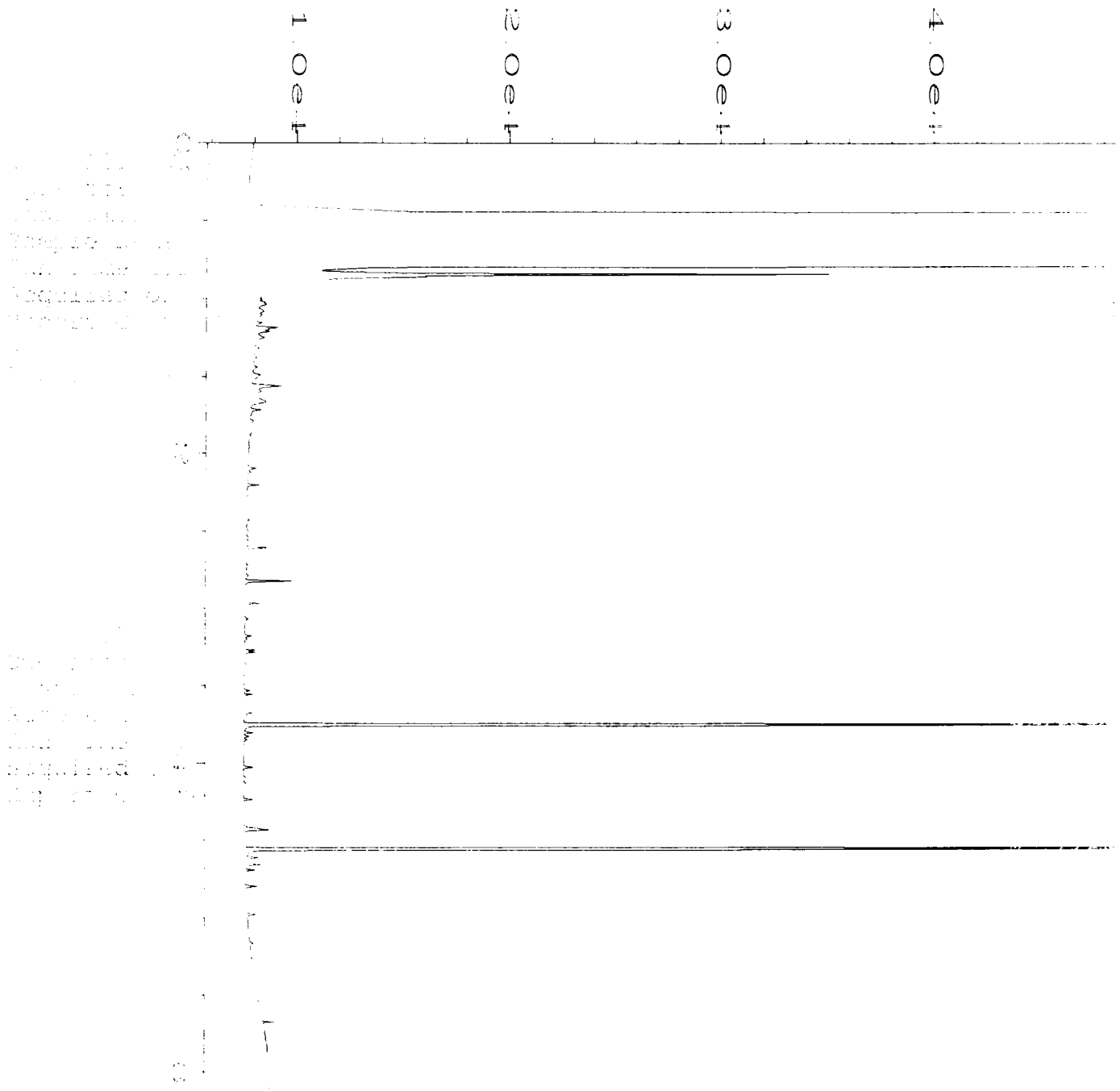


1.0e4
2.0e4
3.0e4
4.0e4



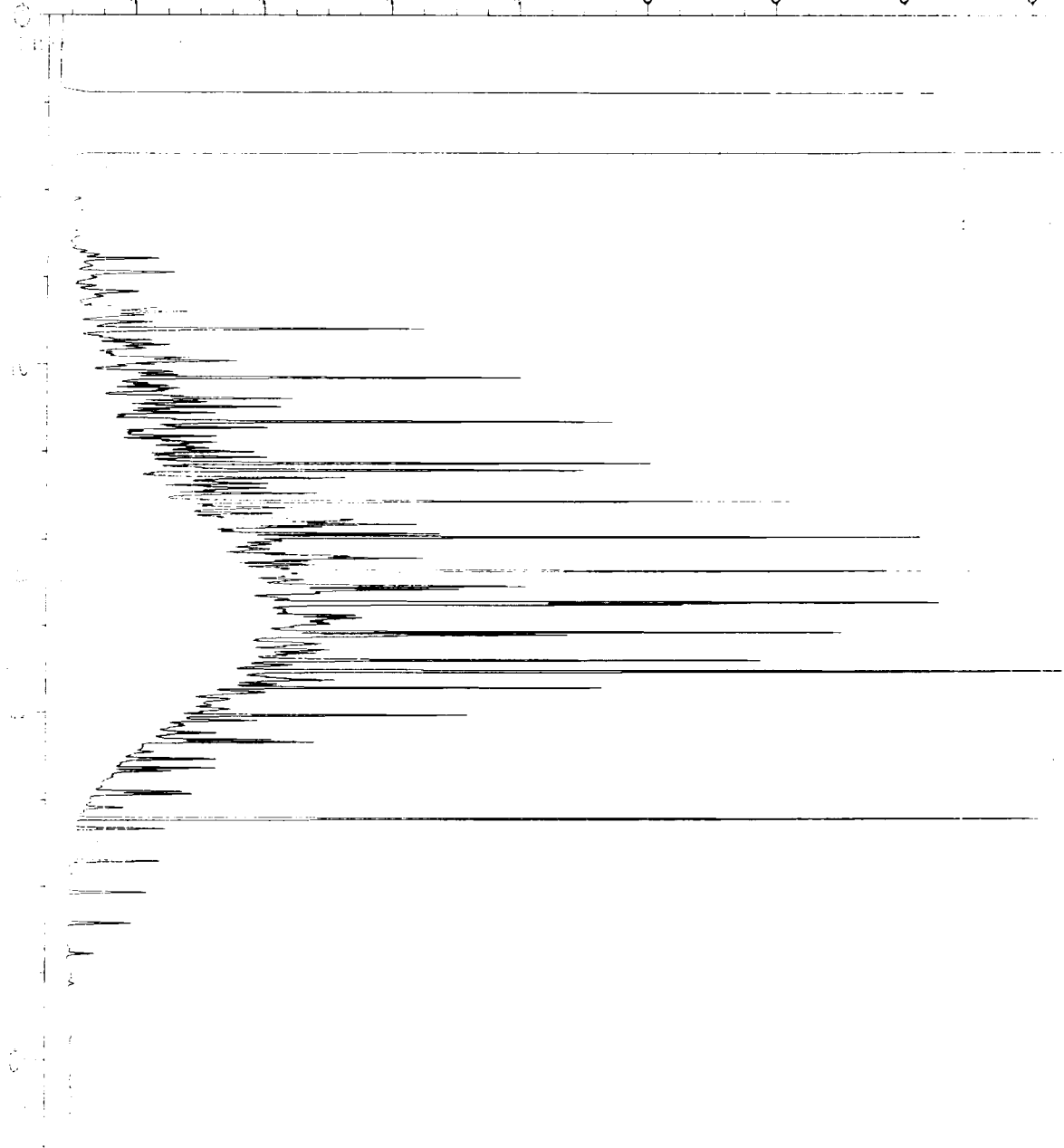
Operator
Date
Sample Name
Run Time
Acquired on
Report Created on

Data File Name : C:\HPCHEM\1\DATA\05-18-16\042F0901.D
Operator : mwdl
Instrument : GC1
Sample Name : 605258-05
Run Time Bar Code:
Acquired on : 18 May 16 07:20 PM
Report Created on: 19 May 16 09:52 AM
Page Number : 1
Vial Number : 42
Injection Number : 1
Sequence Line : 9
Instrument Method: DX.MTH
Analysis Method : DX.MTH



Sample File Name : C:\HPCHEM\1\DATA\05-18-16\030F0701.D
Operator : mwdl
Instrument : GC1
Sample Name : 06-992 mb
Run Time Bar Code:
Acquired on : 18 May 16 04:44 PM
Report Created on: 19 May 16 09:53 AM
Page Number : 1
Vial Number : 30
Injection Number : 1
Sequence Line : 7
Instrument Method: DX.MT
Analysis Method : DX.MT

1.600
1.400
1.200
1.000
8.000
6.000
4.000
2.000



File Name	: C:\HPCHEM\1\DATA\05-18-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method	: DX.MET
Acquired on	: 18 May 16 06:13 AM	Analysis Method	: DX.MET
Report Created on:	19 May 16 09:54 AM		

605258

SAMPLE CHAIN OF CUSTODY ME5/13/16

DOL/V3

Send Report To Tim Brown, cc: Jessica Brown, Jennifer Cyr, Pete Kingston, Courtney Schaumberg, Jonathan Loeffler

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) <i>Clare Tochin</i>	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - ASKO Property	PO # 0440-004-41
REMARKS	EIM Y

Page # 1 of 1

TURNAROUND TIME
Standard (2 Weeks)
RUSH _____
Rush charges authorized by: _____

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs by EPA 8260C	Methane, Ethane, and Ethene by RSK 175	Sulfate, Nitrate, Nitrite, Total P, Hardness, and Alkalinity	Total Fe and Total Mn	Sulfide, TKN, and Fe 2+	Notes
01MW61-20160513	01MW61	—	01A-F	5/13/16	10:54	H ₂ O	6	X	X	X	X					
01MW78-20160513	01MW78	—	02	5/13/16	11:46	H ₂ O	6	X	X	X	X					
01MW62-20160513	01MW62	—	03	5/13/16	12:46	H ₂ O	6	X	X	X	X					
01MW15-20160513	01MW15	—	04	5/13/16	13:30	H ₂ O	6	X	X	X	X					
01MW79-20160513	01MW15	—	05	5/13/16	14:07	H ₂ O	6	X	X	X	X					
<i>CF 5/13/16</i>																

Samples received at 3 °C

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: <i>Clare Tochin</i>	Clare Tochin	SoundEarth	5/13/16	1555
Received by: <i>Elizabeth Radford</i>	Elizabeth Radford	F&B	5/13/16	1555
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605283

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

May 25, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 16, 2016 from the TOC_01-600_20160516 WORFDB8, F&BI 605283 project. There are 11 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.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Jonathan Loeffler, Pete Kingston
SOU0525R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 16, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160516 WORFDB8, F&BI 605283 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605283 -01	01MW57-20160516
605283 -02	01MW58-20160516
605283 -03	MW03-20160516

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/16/16

Project: TOC_01-600_20160516 WORFDB8, F&BI 605283

Date Extracted: 05/17/16

Date Analyzed: 05/17/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
01MW57-20160516 605283-01	<1	<1	<1	<3	<100	99
01MW58-20160516 605283-02	<1	<1	<1	<3	<100	95
MW03-20160516 605283-03	3.9	1.7	1.3	6.1	580	96
Method Blank 06-950 MB	<1	<1	<1	<3	<100	92

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/16/16

Project: TOC_01-600_20160516 WORFDB8, F&BI 605283

Date Extracted: 05/17/16

Date Analyzed: 05/17/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 41-152)
01MW57-20160516 605283-01	<50	<250	99
01MW58-20160516 605283-02	98 x	<250	100
MW03-20160516 605283-03	4,500 x	1,700 x	118
Method Blank 06-994 MB	<50	<250	98

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW57-20160516	Client:	SoundEarth Strategies
Date Received:	05/16/16	Project:	TOC_01-600_20160516 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605283-01
Date Analyzed:	05/17/16	Data File:	051713.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	85	117
Toluene-d8	98	91	108
4-Bromofluorobenzene	95	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW58-20160516	Client:	SoundEarth Strategies
Date Received:	05/16/16	Project:	TOC_01-600_20160516 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605283-02
Date Analyzed:	05/17/16	Data File:	051714.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	108	85	117
Toluene-d8	99	91	108
4-Bromofluorobenzene	97	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.36
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW03-20160516	Client:	SoundEarth Strategies
Date Received:	05/16/16	Project:	TOC_01-600_20160516 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605283-03
Date Analyzed:	05/17/16	Data File:	051715.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	85	117
Toluene-d8	98	91	108
4-Bromofluorobenzene	96	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.75
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	10
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160516 WORFDB8
Date Extracted:	05/17/16	Lab ID:	06-969 mb
Date Analyzed:	05/17/16	Data File:	051707.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	85	117
Toluene-d8	100	91	108
4-Bromofluorobenzene	99	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/16/16

Project: TOC_01-600_20160516 WORFDB8, F&BI 605283

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 605283-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	95	65-118
Toluene	ug/L (ppb)	50	96	72-122
Ethylbenzene	ug/L (ppb)	50	97	73-126
Xylenes	ug/L (ppb)	150	95	74-118
Gasoline	ug/L (ppb)	1,000	94	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/16/16

Project: TOC_01-600_20160516 WORFDB8, F&BI 605283

**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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	101	101	63-142	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/16/16

Project: TOC_01-600_20160516 WORFDB8, F&BI 605283

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

Laboratory Code: 605258-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	113	61-139
Chloroethane	ug/L (ppb)	50	<1	120	55-149
1,1-Dichloroethene	ug/L (ppb)	50	<1	110	71-123
Methylene chloride	ug/L (ppb)	50	<5	107	61-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	108	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<1	104	79-113
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	104	63-126
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	105	70-119
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	113	75-121
Trichloroethene	ug/L (ppb)	50	<1	97	75-109
Tetrachloroethene	ug/L (ppb)	50	<1	96	72-113

Laboratory Code: Laboratory Control Sample

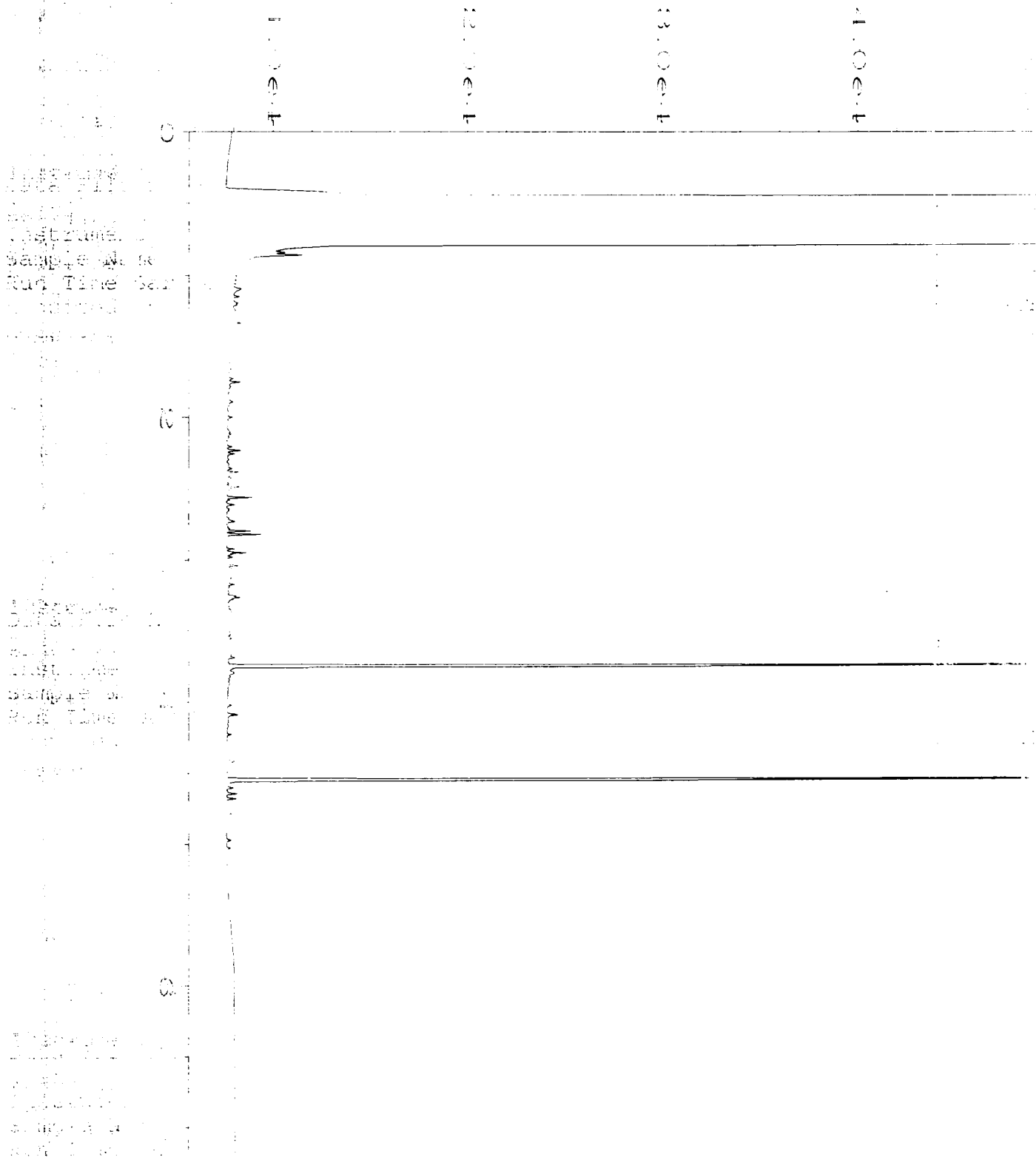
Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	117	117	70-119	0
Chloroethane	ug/L (ppb)	50	124	123	66-149	1
1,1-Dichloroethene	ug/L (ppb)	50	111	112	75-119	1
Methylene chloride	ug/L (ppb)	50	106	106	63-132	0
trans-1,2-Dichloroethene	ug/L (ppb)	50	106	106	76-118	0
1,1-Dichloroethane	ug/L (ppb)	50	103	103	80-116	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	102	101	80-112	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	108	107	79-109	1
1,1,1-Trichloroethane	ug/L (ppb)	50	116	116	80-116	0
Trichloroethene	ug/L (ppb)	50	96	97	77-108	1
Tetrachloroethene	ug/L (ppb)	50	94	93	78-109	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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.
- 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 the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- 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. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- 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.



Data File Name : C:\HPCHEM\1\DATA\05-17-16\029F0901.D
 Operator : mwdl
 Instrument : GC1
 Sample Name : 605283-01
 Run Time Bar Code:
 Acquired on : 17 May 16 04:37 PM
 Report Created on: 18 May 16 12:37 PM
 Page Number : 1
 Vial Number : 29
 Injection Number : 1
 Sequence Line : 9
 Instrument Method: DX.MT
 Analysis Method : DX.MT

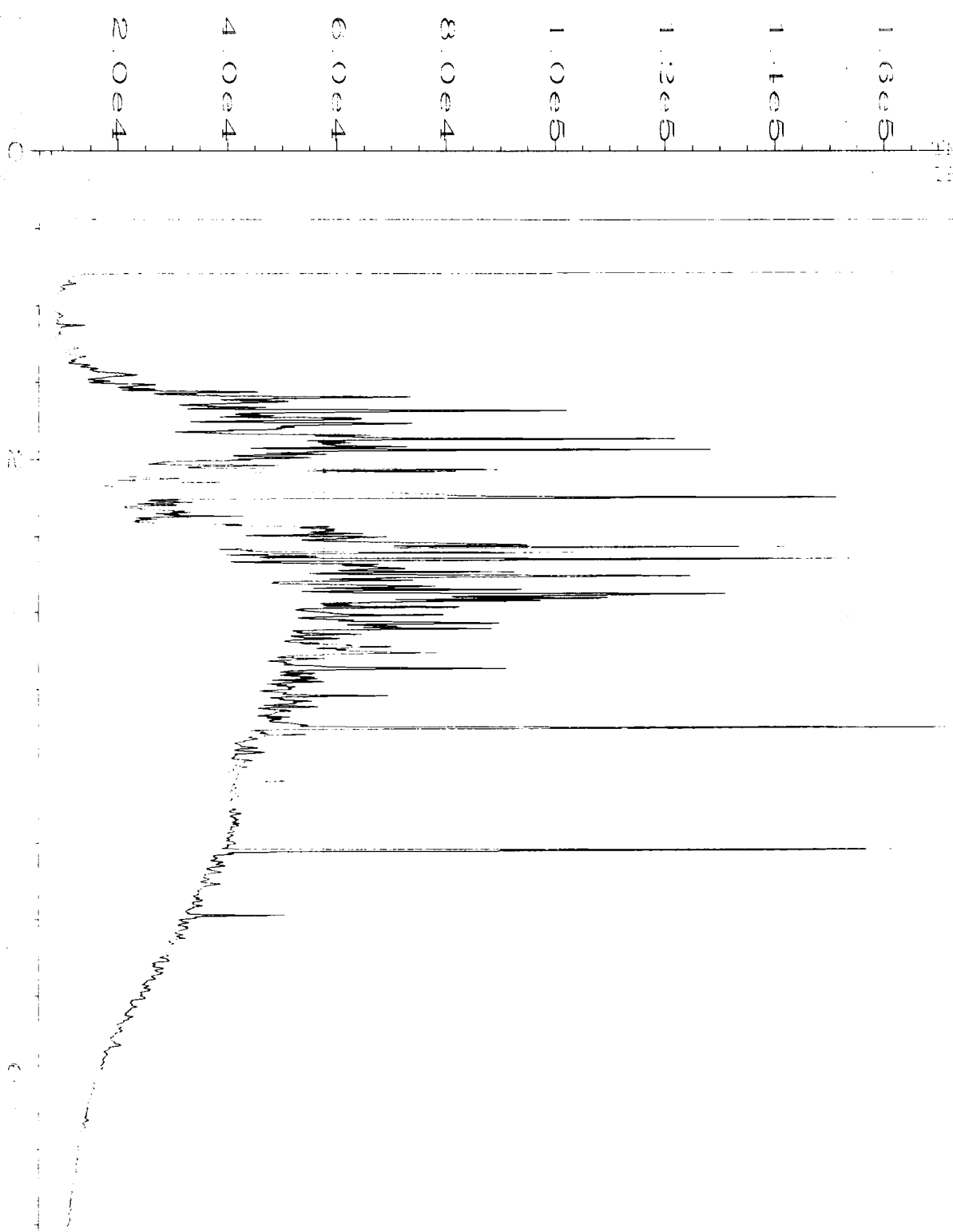
Operator:
Instrument:
Sample Name:
Run Time Bar Code:
Injection Number:
Sequence Line:

1.00e4
2.00e4
3.00e4
4.00e4

The chromatogram displays a single, very sharp and intense peak at a retention time of approximately 1.00e4 minutes. Following this peak, the signal drops to a baseline that exhibits significant noise and minor fluctuations, but no other distinct peaks are visible. The x-axis represents time in minutes, with major tick marks at 1.00e4, 2.00e4, 3.00e4, and 4.00e4. The y-axis represents detector response, with a scale from 0 to 5.00e4.

Data File Name	: C:\HPCHEM\1\DATA\05-17-16\030F0901.D	Page Number	: 1
Instrument	: GC1	Vial Number	: 30
Sample Name	: 605283-02	Injection Number	: 1
Run Time Bar Code:		Sequence Line	: 9
Acquired on	: 17 May 16 04:48 PM	Instrument Method:	DX.MTH
Report Created on:	18 May 16 12:37 PM	Analysis Method	: DX.MTH

Data File Name
Operator
Instrument
Sample Name
Run Time Bar Code
Acquired on
Report Created on



Data File Name	: C:\HPCHEM\1\DATA\05-17-16\031F0901.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 31
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605283-03	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 17 May 16 04:59 PM	Analysis Method	: DX.MTH
Report Created on:	18 May 16 12:38 PM		

Acquired on
Report Created

DX.MTH
DX.MTH

1.0e4
2.0e4
3.0e4
4.0e4

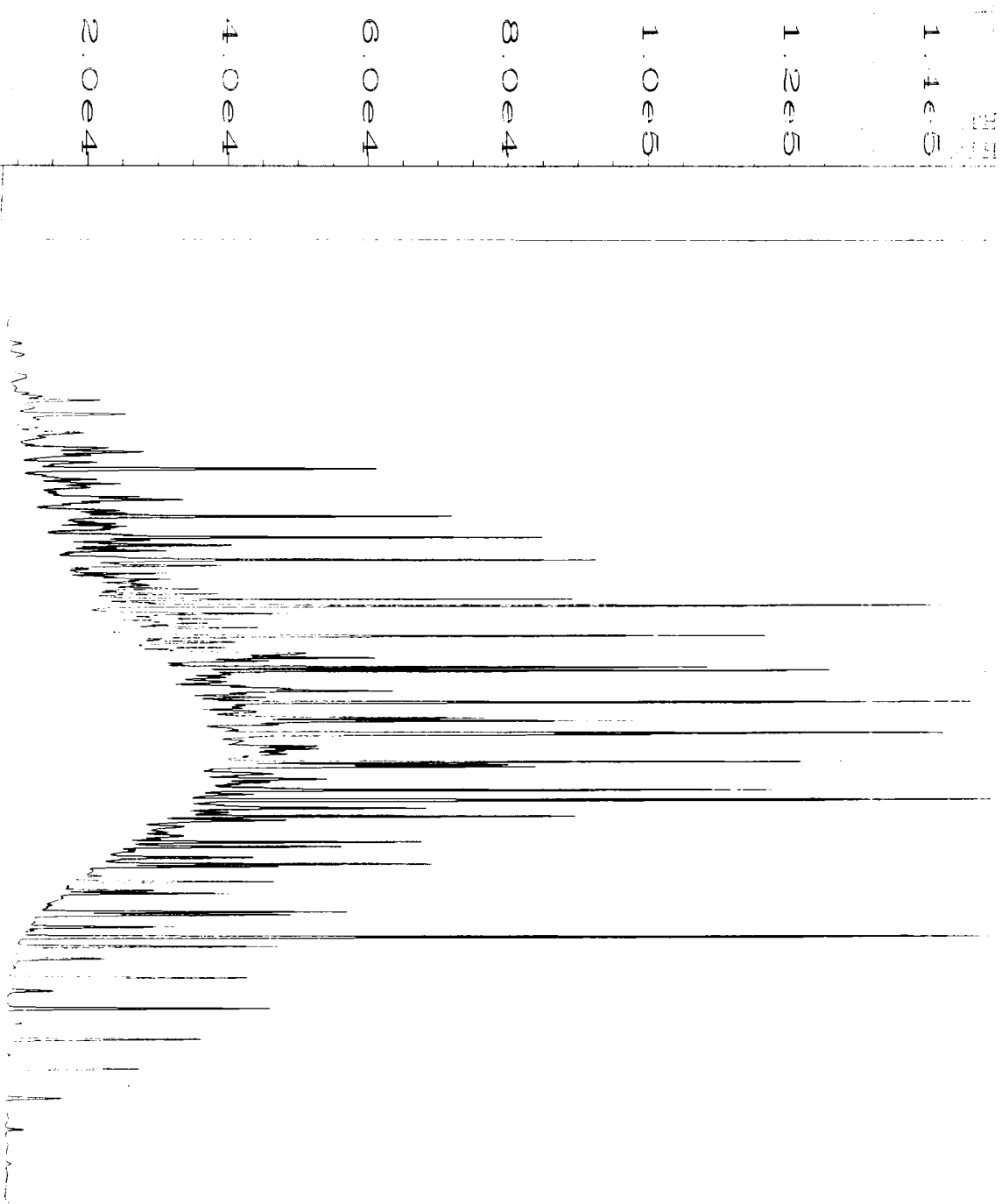
1.0e4
2.0e4
3.0e4
4.0e4

1.0e4
2.0e4
3.0e4
4.0e4

1.0e4
2.0e4
3.0e4
4.0e4

Data File Name	: C:\HPCHEM\1\DATA\05-17-16\026F0901.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 26
Instrument	: GC1	Injection Number	: 1
Sample Name	: 06-994 mb	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 17 May 16 04:06 PM	Analysis Method	: DX.MTH
Report Created on:	18 May 16 12:38 PM		

Operator
Instrument
Data File Name
Sample Name
Run Time Bar Code
Acquired on
Report Created on



Data File Name : C:\HPCHEM\1\DATA\05-17-16\003F0201.D
Operator : mwdl
Instrument : GC1
Sample Name : 500 Dx 45-182D
Run Time Bar Code:
Acquired on : 17 May 16 07:08 AM
Report Created on: 18 May 16 12:38 PM
Page Number : 1
Vial Number : 3
Injection Number : 1
Sequence Line : 2
Instrument Method: DX.MTH
Analysis Method : DX.MTH

SAMPLE CHAIN OF CUSTODY

ME 05/16/16 Page # 1 of 1 V4 D03

605283

Send Report To Tim Brown, cc: Jessica Brown, Jennifer Cyr, Pete Kingston, Courtney Schaumberg, Jonathan Loeffler

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) <i>Adc Hamilton</i>	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - ASKO Property	PO # 0440-004-41
REMARKS	EIM Y

TURNAROUND TIME <input checked="" type="checkbox"/> Standard (2 Weeks) RUSH _____ Rush charges authorized by: _____
SAMPLE DISPOSAL <input checked="" type="checkbox"/> Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs by EPA 8260C	Methane, Ethane, and Ethene by RSK 175	Sulfate, Nitrate, Nitrite, Total P, Hardness, and Alkalinity	Total Fe and Total Mn	Sulfide, TKN, and Fe 2+	Notes
01MWS7-20160516	01MWS7	-	01A-03	05-16-2016	1145	H ₂ O	6	X	X	X	X					
01MWS8-20160516	01MWS8	-	03	05-16-2016	1315	H ₂ O	6	X	X	X	X					
MW03-20160516	MW03	-	03	05-16-2016	1435	H ₂ O	6	X	X	X	X					
ATM 05-16-16																
														Samples received at <u>4</u> °C		

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: <i>Adc Hamilton</i>	Adc Hamilton	Sound Earth	05-16-16	1702
Received by: <i>[Signature]</i>	VINGT	FBI	5/16/16	1702
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605284

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

May 25, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 16, 2016 from the TOC_01-600_20160516 WORFDB8, F&BI 605284 project. There are 12 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.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Jonathan Loeffler
SOU0525R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 16, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160516 WORFDB8, F&BI 605284 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605284 -01	01MW83-20160516
605284 -02	01MW89-20160516
605284 -03	MW01-20160516
605284 -04	MW02-20160516

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/16/16

Project: TOC_01-600_20160516 WORFDB8, F&BI 605284

Date Extracted: 05/17/16

Date Analyzed: 05/17/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
01MW83-20160516 605284-01	<1	<1	<1	<3	<100	91
01MW89-20160516 605284-02	<1	<1	<1	<3	<100	92
MW01-20160516 605284-03	<1	<1	<1	<3	<100	94
MW02-20160516 605284-04	<1	<1	<1	<3	<100	96
Method Blank 06-950 MB	<1	<1	<1	<3	<100	92

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/16/16

Project: TOC_01-600_20160516 WORFDB8, F&BI 605284

Date Extracted: 05/18/16

Date Analyzed: 05/18/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 41-152)
01MW83-20160516 605284-01	<50	<250	108
01MW89-20160516 605284-02	350 x	<250	115
MW01-20160516 605284-03	62 x	<250	98
MW02-20160516 605284-04	<50	<250	110
Method Blank 06-992 MB	<50	<250	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW83-20160516	Client:	SoundEarth Strategies
Date Received:	05/16/16	Project:	TOC_01-600_20160516 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605284-01
Date Analyzed:	05/17/16	Data File:	051716.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	85	117
Toluene-d8	100	91	108
4-Bromofluorobenzene	97	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW89-20160516	Client:	SoundEarth Strategies
Date Received:	05/16/16	Project:	TOC_01-600_20160516 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605284-02
Date Analyzed:	05/17/16	Data File:	051717.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	85	117
Toluene-d8	98	91	108
4-Bromofluorobenzene	95	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW01-20160516	Client:	SoundEarth Strategies
Date Received:	05/16/16	Project:	TOC_01-600_20160516 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605284-03
Date Analyzed:	05/17/16	Data File:	051718.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	85	117
Toluene-d8	101	91	108
4-Bromofluorobenzene	97	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW02-20160516	Client:	SoundEarth Strategies
Date Received:	05/16/16	Project:	TOC_01-600_20160516 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605284-04
Date Analyzed:	05/17/16	Data File:	051719.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	85	117
Toluene-d8	101	91	108
4-Bromofluorobenzene	97	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160516 WORFDB8
Date Extracted:	05/17/16	Lab ID:	06-969 mb
Date Analyzed:	05/17/16	Data File:	051707.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	85	117
Toluene-d8	100	91	108
4-Bromofluorobenzene	99	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/16/16

Project: TOC_01-600_20160516 WORFDB8, F&BI 605284

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 605283-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	95	65-118
Toluene	ug/L (ppb)	50	96	72-122
Ethylbenzene	ug/L (ppb)	50	97	73-126
Xylenes	ug/L (ppb)	150	95	74-118
Gasoline	ug/L (ppb)	1,000	94	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/16/16

Project: TOC_01-600_20160516 WORFDB8, F&BI 605284

**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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	105	104	63-142	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/16/16

Project: TOC_01-600_20160516 WORFDB8, F&BI 605284

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

Laboratory Code: 605258-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance Criteria
				Recovery MS	
Vinyl chloride	ug/L (ppb)	50	<0.2	113	61-139
Chloroethane	ug/L (ppb)	50	<1	120	55-149
1,1-Dichloroethene	ug/L (ppb)	50	<1	110	71-123
Methylene chloride	ug/L (ppb)	50	<5	107	61-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	108	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<1	104	79-113
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	104	63-126
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	105	70-119
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	113	75-121
Trichloroethene	ug/L (ppb)	50	<1	97	75-109
Tetrachloroethene	ug/L (ppb)	50	<1	96	72-113

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	50	117	117	70-119	0
Chloroethane	ug/L (ppb)	50	124	123	66-149	1
1,1-Dichloroethene	ug/L (ppb)	50	111	112	75-119	1
Methylene chloride	ug/L (ppb)	50	106	106	63-132	0
trans-1,2-Dichloroethene	ug/L (ppb)	50	106	106	76-118	0
1,1-Dichloroethane	ug/L (ppb)	50	103	103	80-116	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	102	101	80-112	1
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	108	107	79-109	1
1,1,1-Trichloroethane	ug/L (ppb)	50	116	116	80-116	0
Trichloroethene	ug/L (ppb)	50	96	97	77-108	1
Tetrachloroethene	ug/L (ppb)	50	94	93	78-109	1

FRIEDMAN & BRUYA, INC.

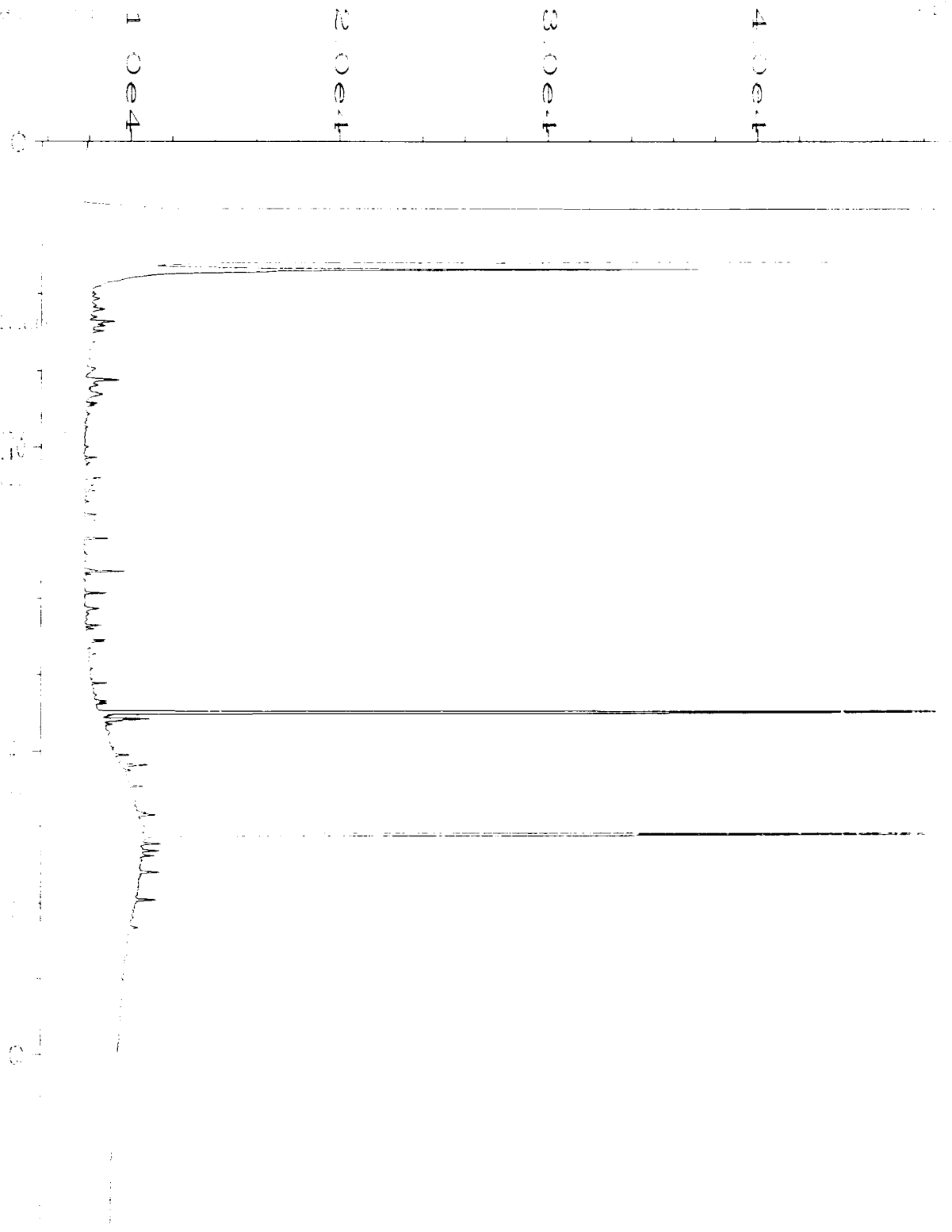
ENVIRONMENTAL CHEMISTS

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.
- 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 the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- 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. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- 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.

Operator
Instrument
Sample Name
Run Time Bar Code
Acquired on
Report Created

Page Number
Vial Number
Injection Number
Sequence Line
Instrument Method
Analysis Method



Data File Name	: C:\HPCHEM\1\DATA\05-18-16\049F0901.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 49
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605284-01	Sequence Line	: 9
Run Time Bar Code	:	Instrument Method	: DX.MTH
Acquired on	: 18 May 16 08:38 PM	Analysis Method	: DX.MTH
Report Created on	: 19 May 16 09:53 AM		

Data File Name

Operator

Instrument

Sample Name

Run Time Bar Code

Acquired on

Report created on

Data File Name

Operator

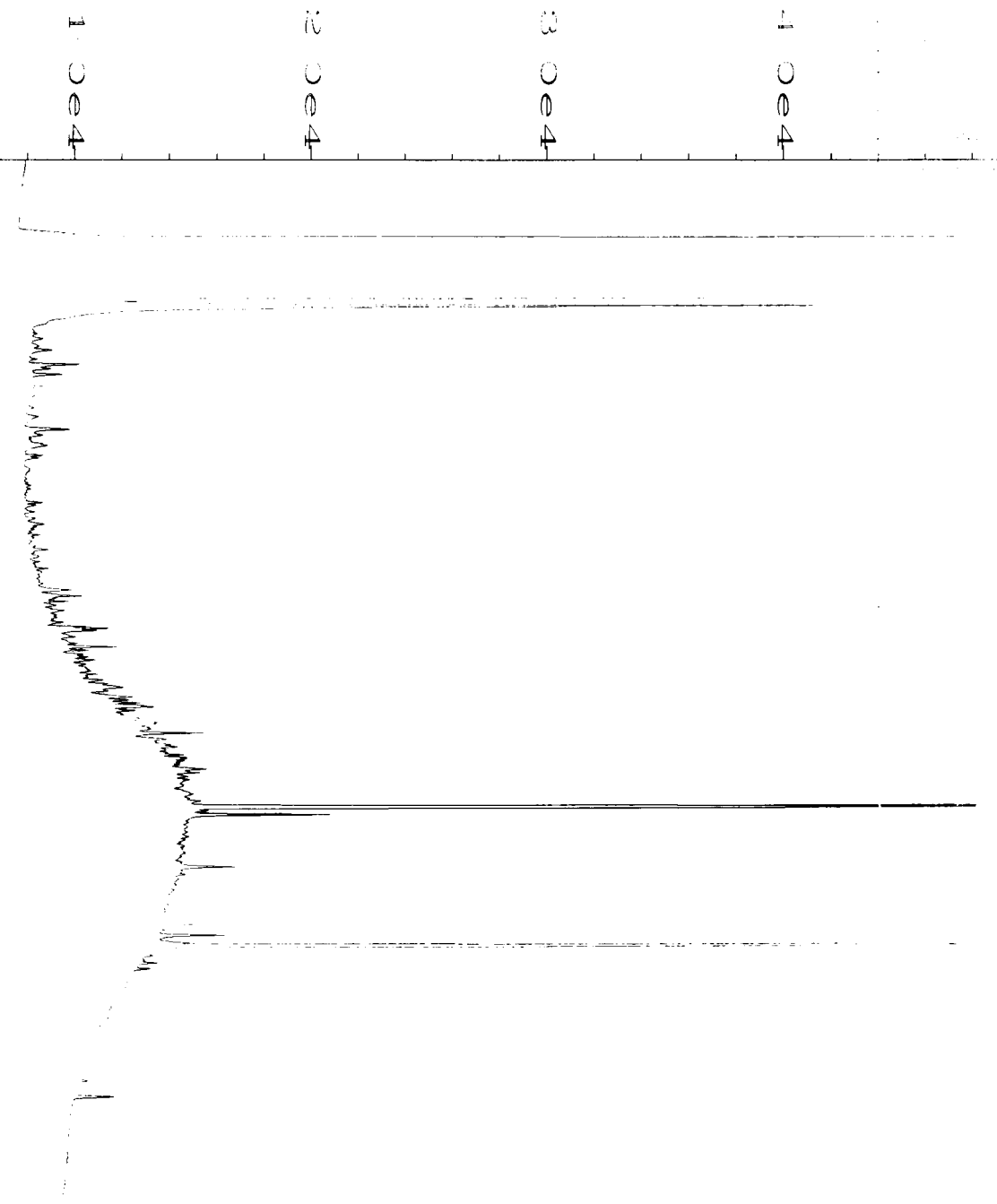
Instrument

Sample Name

Run Time Bar Code

Acquired on

Report created on



: C:\HPCHEM\1\DATA\05-18-16\050F0901.D

: mwdl

: GC1

: 605284-02

: 18 May 16 08:49 PM

: 19 May 16 09:53 AM

Page Number : 1

Vial Number : 50

Injection Number : 1

Sequence Line : 9

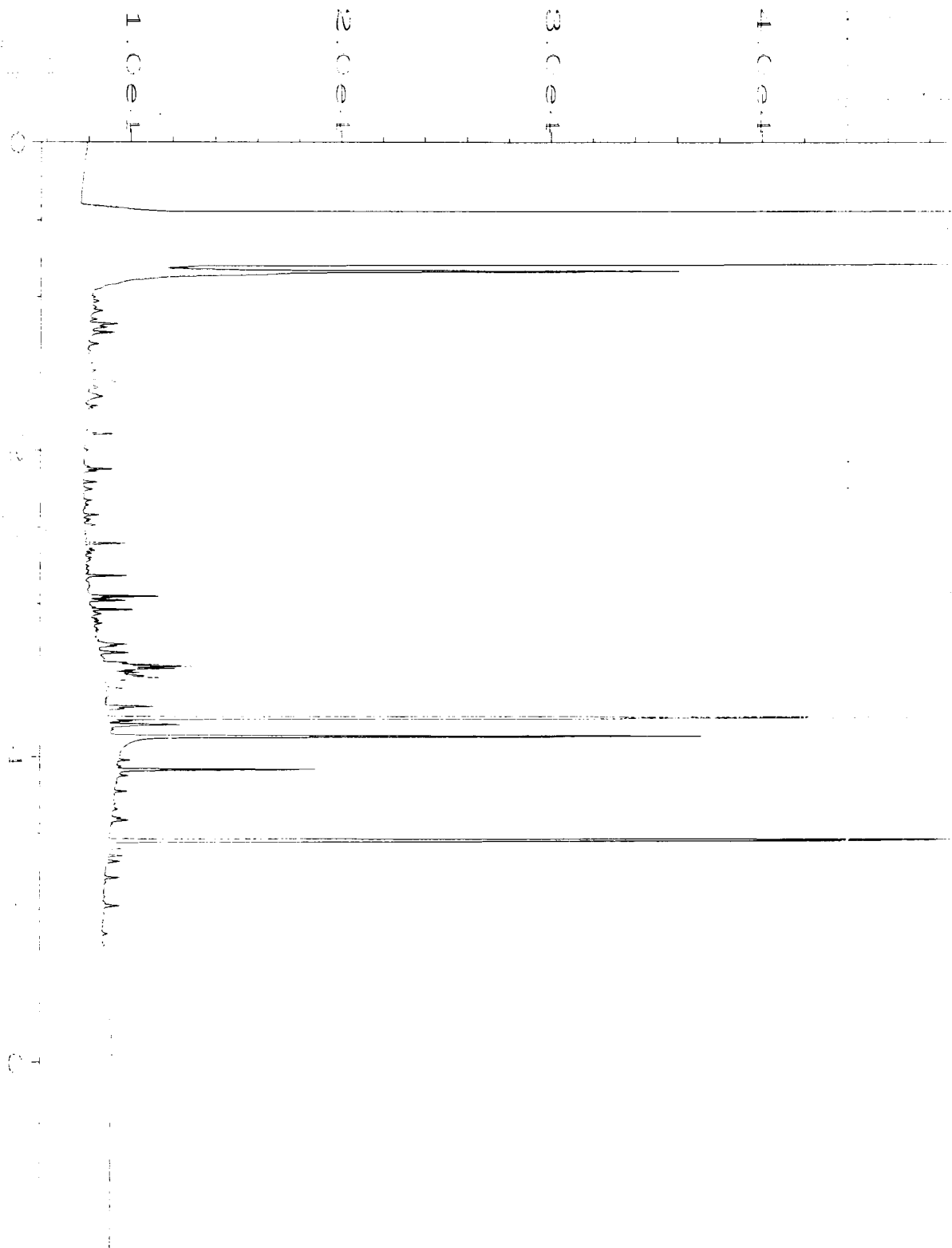
Instrument Method: DX.METHOD

Analysis Method : DX.METHOD

Data File Name:
Operator:
Sample Name:
Injection Number:
Sequence Line:

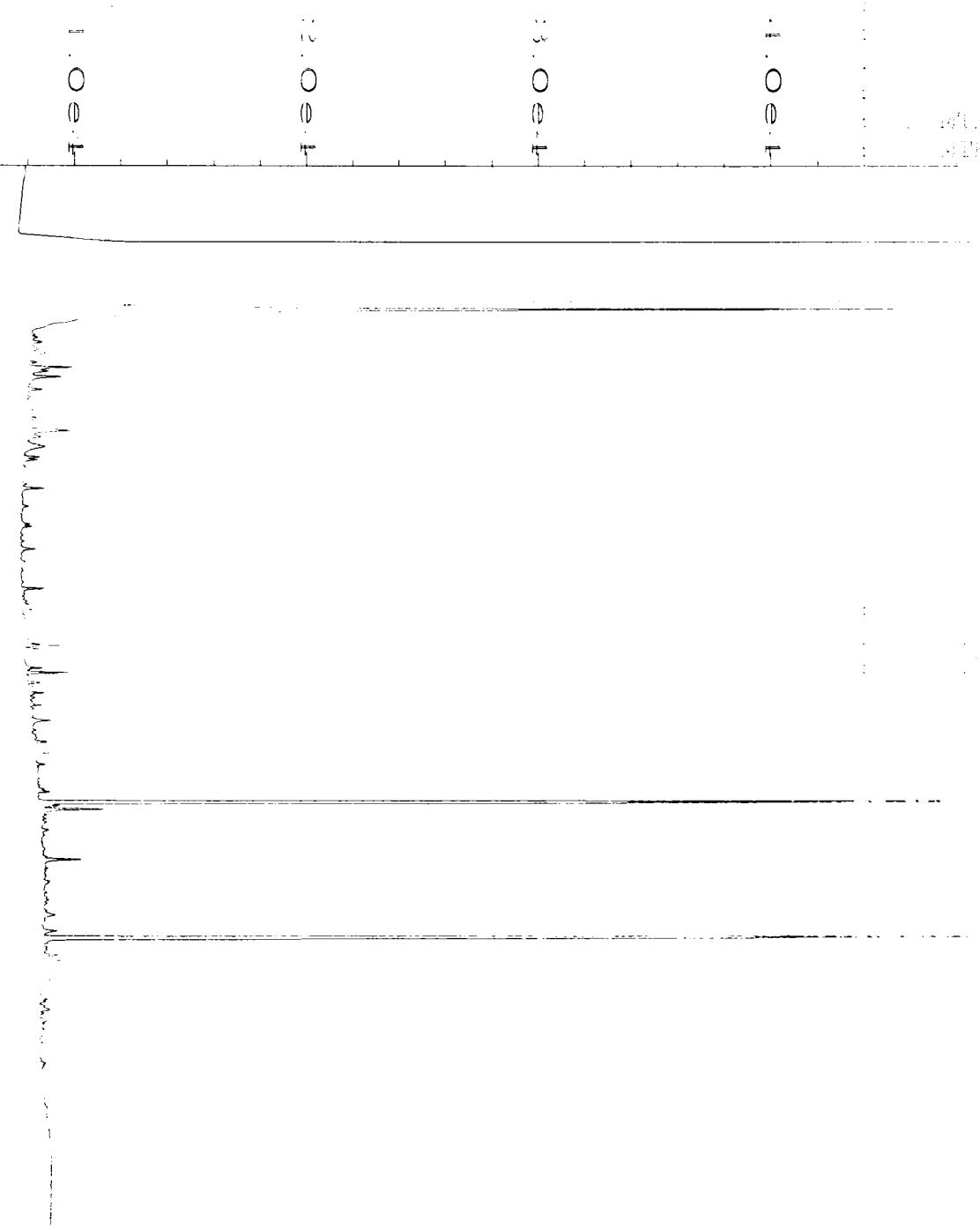
Instrument:
Method:
Analysis Method:

Run Time Bar Code:
Applied on:
Report Created on:

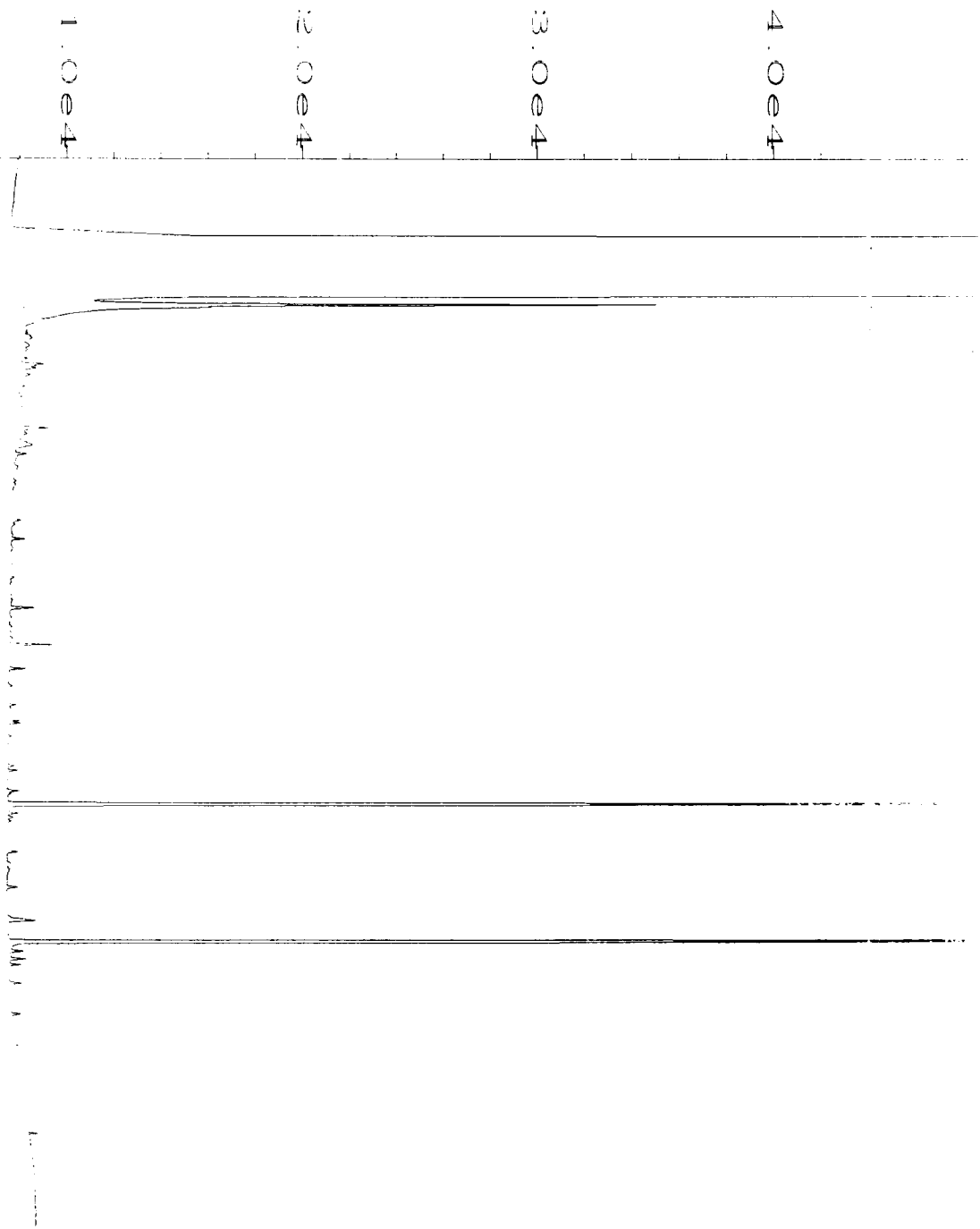


Data File Name	: C:\HPCHEM\1\DATA\05-18-16\051F0901.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 51
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605284-03	Sequence Line	: 9
Run Time Bar Code:		Instrument Method	: DX.METHOD
Applied on	: 18 May 16 09:00 PM	Analysis Method	: DX.METHOD
Report Created on:	: 19 May 16 09:53 AM		

Sample Name
Run Time Bar

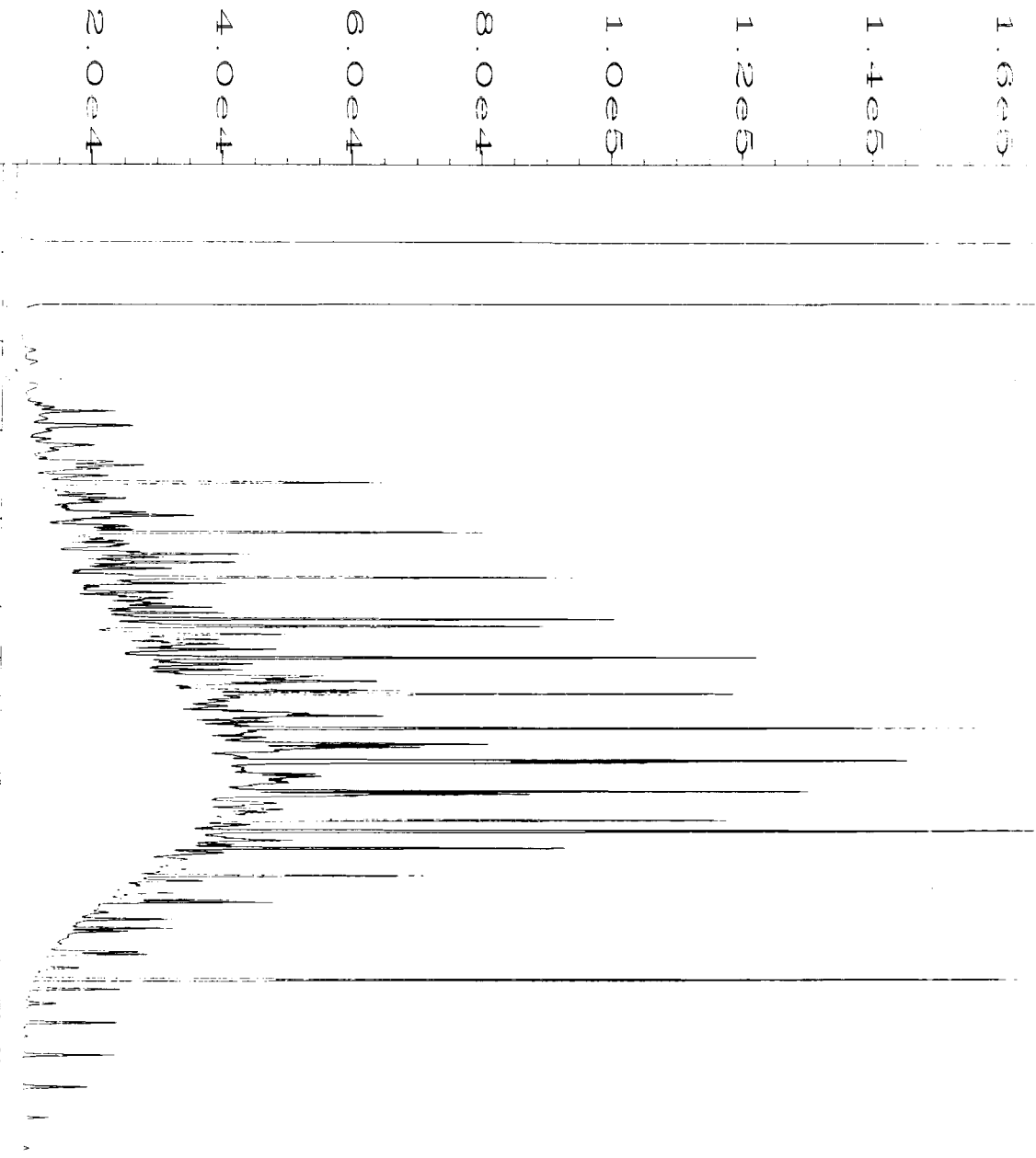


Date File Name : C:\HPCHEM\1\DATA\05-18-16\052F0901.D
Operator : mwdl
Instrument : GC1
Sample Name : 605284-04
Run Time Bar Code:
Acquired on : 18 May 16 09:12 PM
Report Created on: 19 May 16 09:53 AM
Page Number : 1
Vial Number : 52
Injection Number : 1
Sequence Line : 9
Instrument Method: DX.M
Analysis Method : DX.M



Data File Name : C:\HPCHEM\1\DATA\05-18-16\030F0701.D
 Operator : mwdl
 Instrument : GC1
 Sample Name : 06-992 mb
 Run Time Bar Code:
 Acquired on : 18 May 16 04:44 PM
 Report Created on: 19 May 16 09:54 AM

Page Number : 1
 Vial Number : 30
 Injection Number : 1
 Sequence Line : 7
 Instrument Method: DX.M
 Analysis Method : DX.M



Data File Name	: C:\HPCHEM\1\DATA\05-18-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Acquisition Bar Code:		Instrument Method	: DX.M
Acquired on	: 18 May 16 06:13 AM	Analysis Method	: DX.M
Report Created on:	: 19 May 16 09:54 AM		

SAMPLE CHAIN OF CUSTODY

ME 05/16/16

14/1003


605284

Send Report To Tim Brown, cc: Jessica Brown, Courtney Schaumberg, Jonathan Loeffler, Jennifer Cyr

Company SoundEarth Strategies, Inc.

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) 

PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600
Seattle Terminal - ASKO

PO # 01-600

REMARKS 1 low level detection limit of 0.219 ug/L for PCP.

EIM Y / N

TURNAROUND TIME

Standard (2 Weeks)
RUSH _____

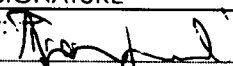
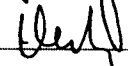
Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days
Return samples
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	PCP by EPA 8270D (low-level detection limits) ¹	cVOCs by EPA 8260C	Sulfate by EPA 300.0	Methane, Ethane, and Ethene by RSK 175	Nitrate, Nitrite, Total P, Hardness and Alkalinity	Total Fe and Total Mn by EPA 200.7	TKN, Sulfide, and Fe 2+	Notes	
01MW83-20160516	01MW83	23.25	01 A-8	5/16/16	1108	Water	6	X	X	X		X							
01MW89-20160516	01MW89	24.75	02	5/16/16	1215		6	X	X	X		X							
MW01-20160516	MW01	25	03	↓	1357		6	X	X	X		X							
MW02-20160516	MW02	27	04	↓	1452		6	X	X	X		X							
DU																			
Samples received at <u>7:00</u>																			

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: 	TRAVIS ZANDI	SoundEarth	5/16/2016	1702
Received by: 	VINHA	FBI	5/16/16	1702
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605316

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

May 27, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 17, 2016 from the TOC_01-600_20160517 WORFDB8, F&BI 605316 project. There are 12 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.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Pete Kingston, Jonathan Loeffler
SOU0527R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 17, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160517 WORFDB8, F&BI 605316 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605316 -01	MW06-20160517
605316 -02	01MW85-20160517
605316 -03	01MW80-20160517

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/17/16

Project: TOC_01-600_20160517 WORFDB8, F&BI 605316

Date Extracted: 05/18/16

Date Analyzed: 05/18/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
MW06-20160517 605316-01	1.3	<1	<1	<3	<100	91
01MW85-20160517 605316-02	<1	<1	<1	<3	<100	90
01MW80-20160517 605316-03	11	<1	<1	<3	<100	90
Method Blank 06-951 MB	<1	<1	<1	<3	<100	88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/17/16

Project: TOC_01-600_20160517 WORFDB8, F&BI 605316

Date Extracted: 05/19/16

Date Analyzed: 05/19/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 47-140)
MW06-20160517 605316-01	410 x	<250	ip
01MW85-20160517 605316-02	330 x	<250	115
01MW80-20160517 605316-03	530 x	<250	120
Method Blank 06-1014 MB	<50	<250	98

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW06-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/18/16	Lab ID:	605316-01
Date Analyzed:	05/18/16	Data File:	051813.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	85	117
Toluene-d8	98	91	108
4-Bromofluorobenzene	99	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.6
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	9.8
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	9.5
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW85-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/18/16	Lab ID:	605316-02
Date Analyzed:	05/18/16	Data File:	051814.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	85	117
Toluene-d8	99	91	108
4-Bromofluorobenzene	98	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW80-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/18/16	Lab ID:	605316-03
Date Analyzed:	05/18/16	Data File:	051815.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	85	117
Toluene-d8	98	91	108
4-Bromofluorobenzene	97	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	10
Chloroethane	<1
1,1-Dichloroethene	3.7
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	190 ve
1,2-Dichloroethane (EDC)	1.2
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW80-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/17/16	Lab ID:	605316-03 1/10
Date Analyzed:	05/23/16	Data File:	052317.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	89	113
Toluene-d8	97	64	137
4-Bromofluorobenzene	96	81	119

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	9.9
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	<50
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	190
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	<10
Tetrachloroethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/18/16	Lab ID:	06-973 mb
Date Analyzed:	05/18/16	Data File:	051808.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	85	117
Toluene-d8	98	91	108
4-Bromofluorobenzene	96	76	126

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/17/16

Project: TOC_01-600_20160517 WORFDB8, F&BI 605316

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 605307-04 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	1.0	nm
Toluene	ug/L (ppb)	5.9	5.6	5
Ethylbenzene	ug/L (ppb)	26	25	5
Xylenes	ug/L (ppb)	170	160	5
Gasoline	ug/L (ppb)	720	690	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	96	65-118
Toluene	ug/L (ppb)	50	98	72-122
Ethylbenzene	ug/L (ppb)	50	99	73-126
Xylenes	ug/L (ppb)	150	97	74-118
Gasoline	ug/L (ppb)	1,000	96	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/17/16

Project: TOC_01-600_20160517 WORFDB8, F&BI 605316

**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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	108	100	61-133	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/17/16

Project: TOC_01-600_20160517 WORFDB8, F&BI 605316

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

Laboratory Code: 605314-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance Criteria
				Recovery MS	
Vinyl chloride	ug/L (ppb)	50	<0.2	108	61-139
Chloroethane	ug/L (ppb)	50	<1	116	55-149
1,1-Dichloroethene	ug/L (ppb)	50	<1	105	71-123
Methylene chloride	ug/L (ppb)	50	<5	103	61-126
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	103	72-122
1,1-Dichloroethane	ug/L (ppb)	50	<1	100	79-113
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	101	63-126
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	106	70-119
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	112	75-121
Trichloroethene	ug/L (ppb)	50	<1	97	75-109
Tetrachloroethene	ug/L (ppb)	50	9.6	95	72-113

Laboratory Code: Laboratory Control Sample

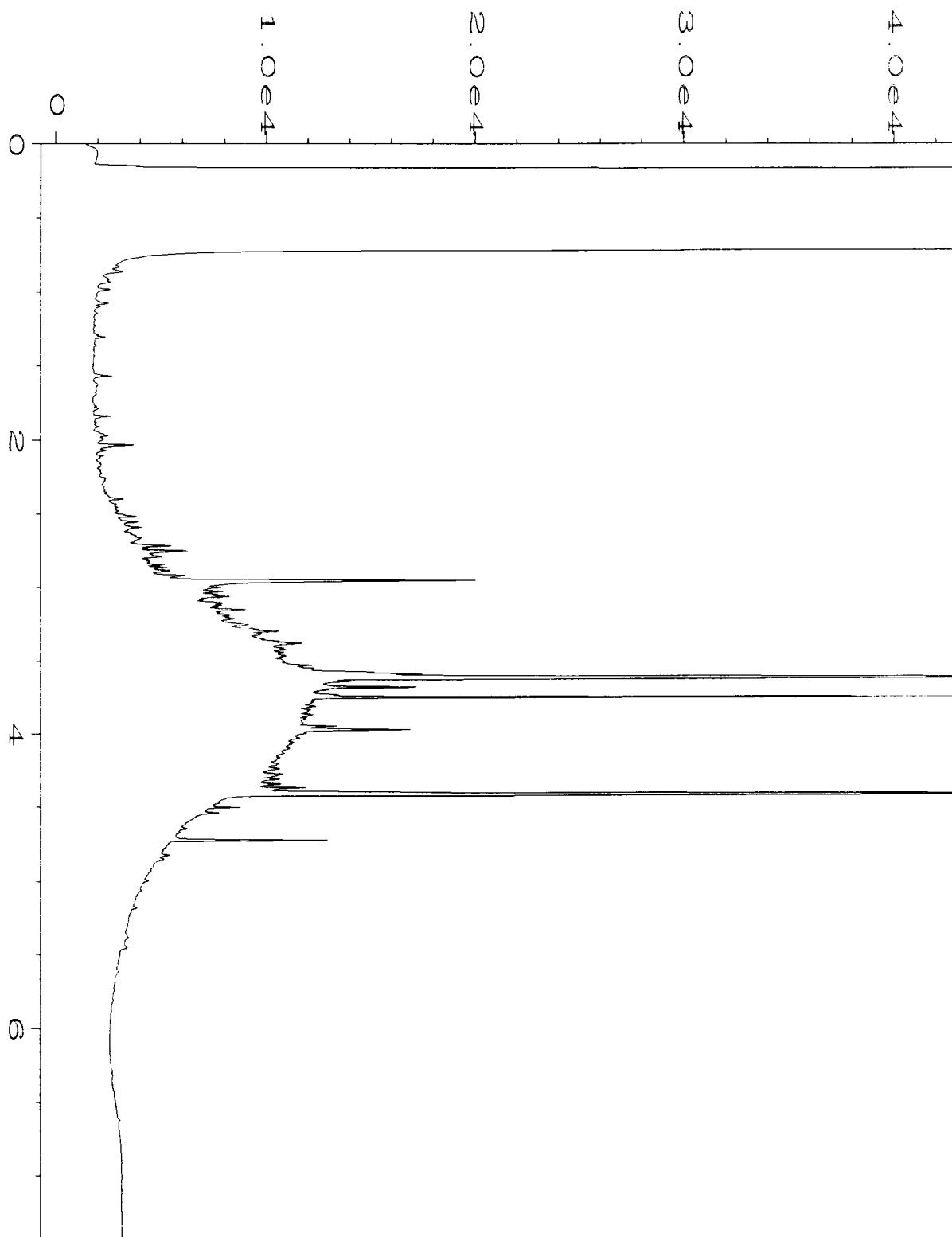
Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Vinyl chloride	ug/L (ppb)	50	107	108	70-119	1
Chloroethane	ug/L (ppb)	50	115	116	66-149	1
1,1-Dichloroethene	ug/L (ppb)	50	105	109	75-119	4
Methylene chloride	ug/L (ppb)	50	103	104	63-132	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	100	102	76-118	2
1,1-Dichloroethane	ug/L (ppb)	50	99	100	80-116	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	99	101	80-112	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	101	103	79-109	2
1,1,1-Trichloroethane	ug/L (ppb)	50	108	112	80-116	4
Trichloroethene	ug/L (ppb)	50	93	94	77-108	1
Tetrachloroethene	ug/L (ppb)	50	91	92	78-109	1

FRIEDMAN & BRUYA, INC.

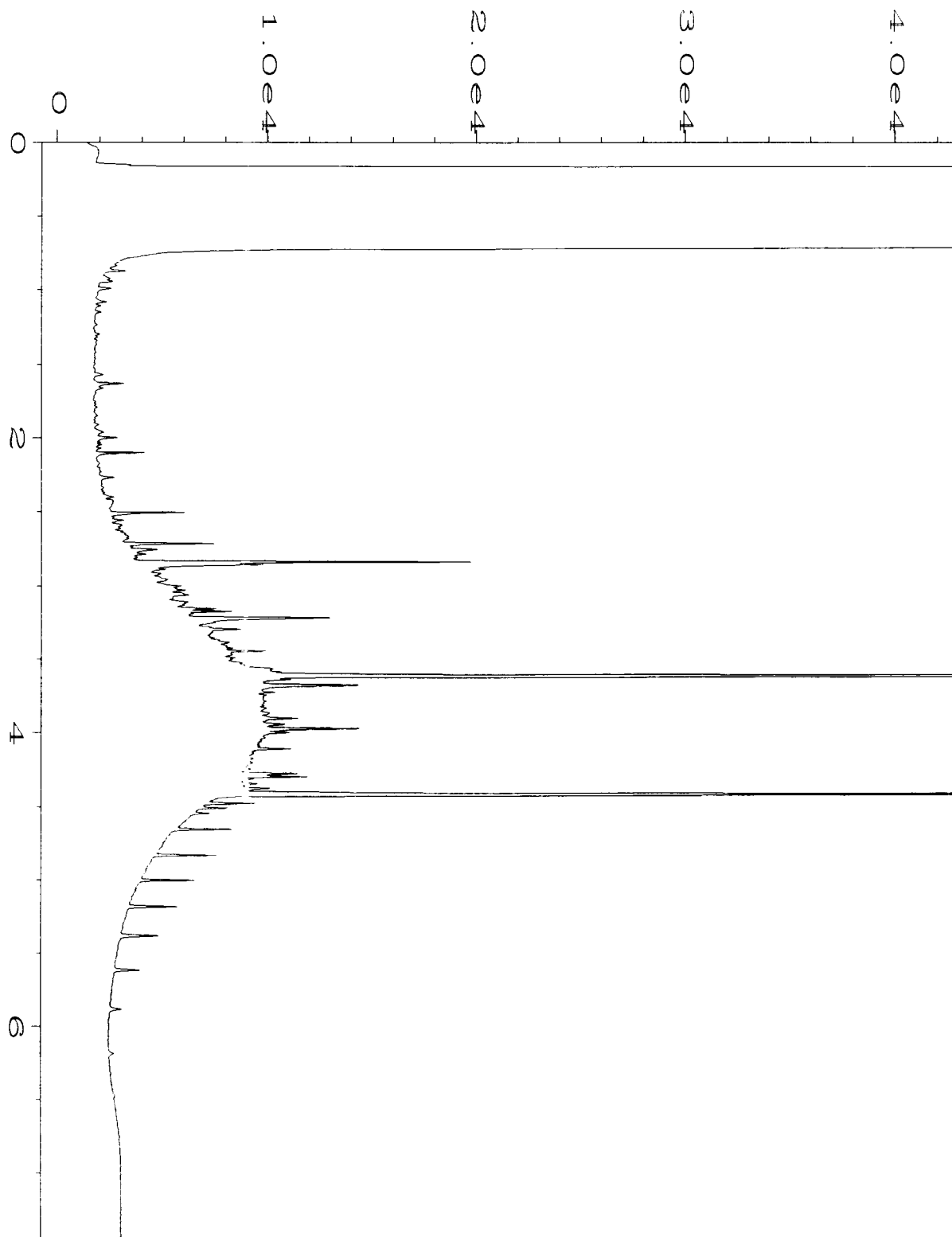
ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

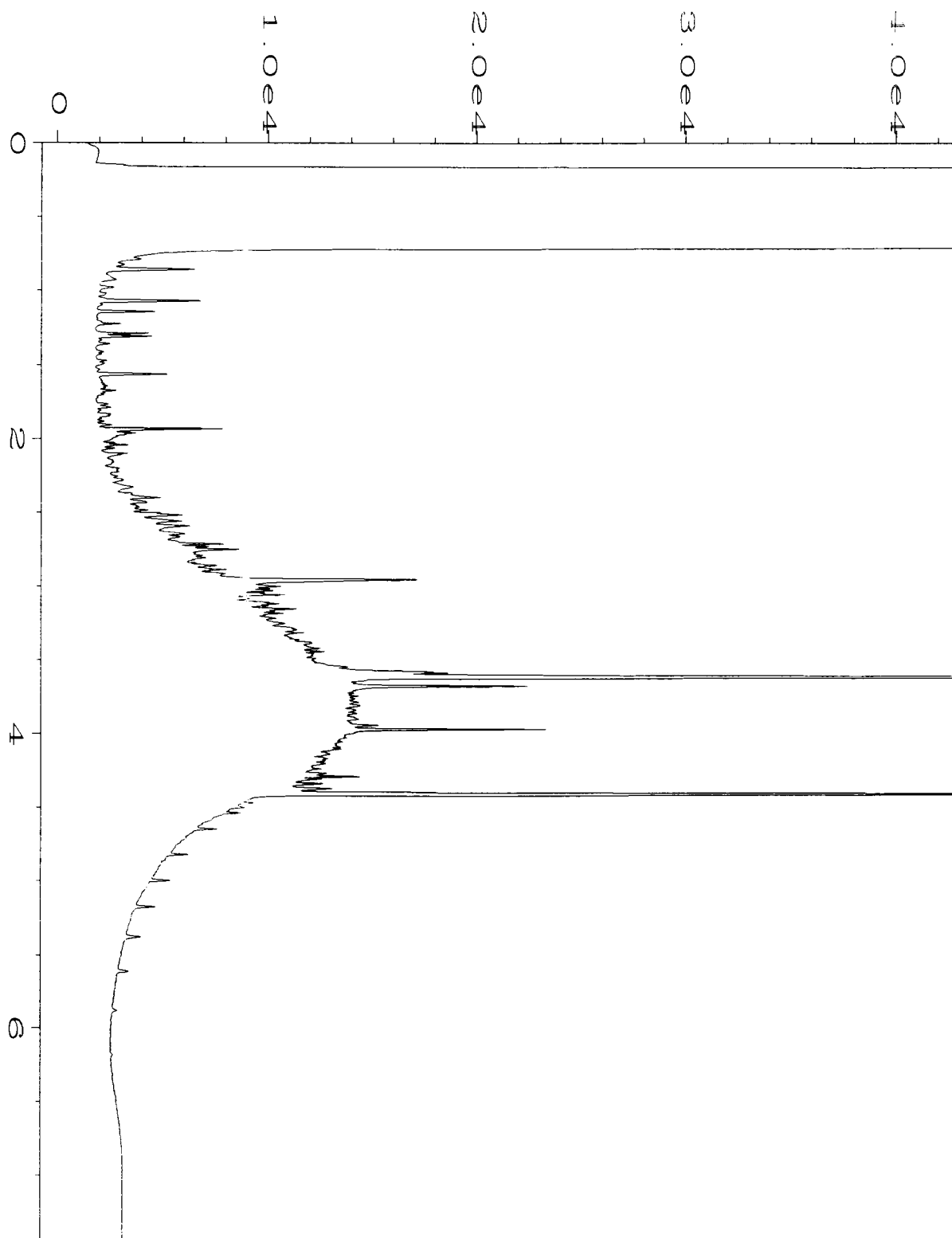
- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- 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. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- 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.



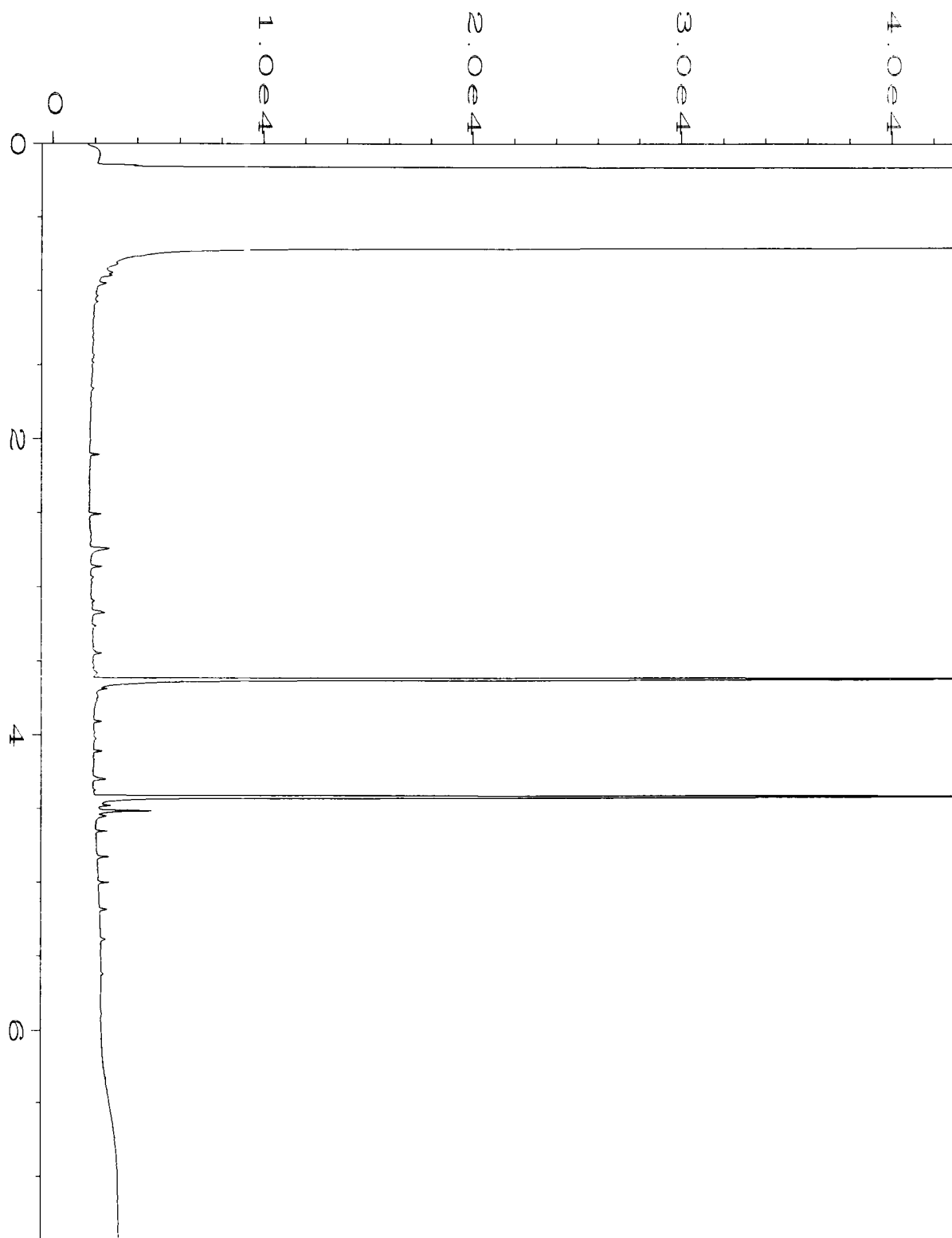
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Operator	: mwdl	Vial Number	: 28
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605316-01	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 04:31 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:32 AM		



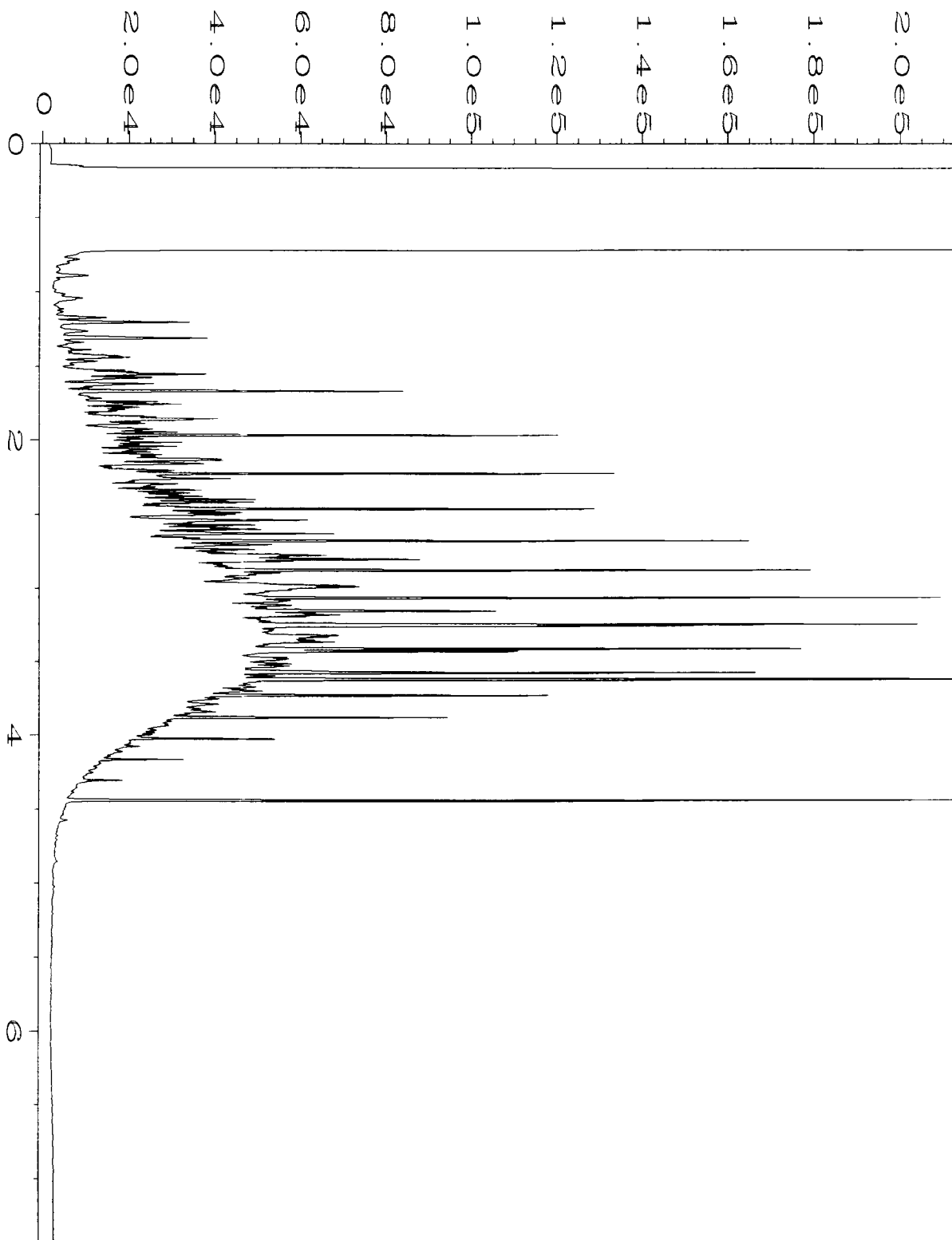
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Operator	: mwdl	Vial Number	: 29
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605316-02	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 04:43 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:32 AM		



Data File Name	: C:\HPCHEM\4\DATA\05-19-16\030F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 30
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605316-03	Sequence Line	: 7
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 19 May 16 04:55 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:32 AM		



Data File Name	: C:\HPCHEM\4\DATA\05-19-16\019F0401.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 19
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-1014 mb	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 01:07 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:35 AM		



Data File Name	: C:\HPCHEM\4\DATA\05-19-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 06:53 AM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:36 AM		

605 3/6

SAMPLE CHAIN OF CUSTODY

ME 05/17/16 v4/DO3

Send Report to Tim Brown, CC: Jessica Brown, Jennifer Cyr, Pete Kingston, Courtney Schaumberg, Jonathan Loeffler

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) *Chris Cass*

PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600
Seattle Terminal - ASKO Property

PO # 0440-004-41

REMARKS

EIM Y

Page # of

TURNAROUND TIME

Standard (2 Weeks) RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

⊗ Dispose after 30 days
Return samples
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPHORPH by NWTPH-Dx	cVOCs by EPA 8260C	Methane, Ethane, and Ethene by RSK 175	Sulfate, Nitrate, Nitrite, Total P, Hardness, and Alkalinity	Total Fe and Total Mn	Sulfide, TKN, and Fe 2+	Notes
MW06-20160517	MW06	-	01	05/17/16	1247	Water	6	X	X	X	X					
01MW35-20160517	01MW35	-	02	05/17/16	1433	✓	6	X	X	X	X					
01MW80-20160517	01MW80	-	03	05/17/16	1600	✓	6	X	X	X	X					
CGC 05/17/16																
														Samples received at 4 °C		

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: <i>Chris Cass</i>	Chris Cass	SoundEarth	05/17/16	1811
Received by: <i>Juan Shimman</i>	Juan Shimman	FB&T	↓	6
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605317

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

May 25, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 17, 2016 from the TOC_01-600_20160517 WORFDB8, F&BI 605317 project. There are 16 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.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Pete Kingston, Jonathan Loeffler
SOU0525R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 17, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160517 WORFDB8, F&BI 605317 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605317 -01	MW04-20160517
605317 -02	MW05-20160517
605317 -03	01MW46-20160517
605317 -04	01MW76-20160517
605317 -05	FD03-20160517

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/17/16

Project: TOC_01-600_20160517 WORFDB8, F&BI 605317

Date Extracted: 05/18/16

Date Analyzed: 05/18/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
MW04-20160517 605317-01	1.1	<1	<1	<3	270 x	79
MW05-20160517 605317-02	1.5	<1	<1	<3	130 x	80
01MW46-20160517 605317-03	7.9	<1	<1	<3	<100	81
01MW76-20160517 605317-04	<1	<1	<1	<3	<100	80
FD03-20160517 605317-05	<1	1.4	<1	<3	300 x	82
Method Blank 06-997 MB	<1	<1	<1	<3	<100	80

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/17/16

Project: TOC_01-600_20160517 WORFDB8, F&BI 605317

Date Extracted: 05/19/16

Date Analyzed: 05/19/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 47-140)
MW04-20160517 605317-01	430 x	<250	116
MW05-20160517 605317-02	430 x	<250	125
01MW46-20160517 605317-03	420 x	<250	129
01MW76-20160517 605317-04	<50	<250	123
FD03-20160517 605317-05	490 x	<250	128
Method Blank 06-1014 MB	<50	<250	98

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW04-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/18/16	Lab ID:	605317-01
Date Analyzed:	05/18/16	Data File:	051812.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	108	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.3
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	14
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	610 ve
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW04-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/18/16	Lab ID:	605317-01 1/100
Date Analyzed:	05/18/16	Data File:	051826.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<20
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	<100
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	650
Tetrachloroethene	<100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW05-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/18/16	Lab ID:	605317-02
Date Analyzed:	05/18/16	Data File:	051813.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	108	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	23
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	23
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	280 ve
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW05-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/18/16	Lab ID:	605317-02 1/10
Date Analyzed:	05/18/16	Data File:	051828.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	102	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	21
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	<50
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	18
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	230
Tetrachloroethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW46-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/18/16	Lab ID:	605317-03
Date Analyzed:	05/18/16	Data File:	051814.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	57	121
Toluene-d8	107	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	11
Chloroethane	<1
1,1-Dichloroethene	2.7
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	130
1,2-Dichloroethane (EDC)	1.4
1,1,1-Trichloroethane	<1
Trichloroethene	90
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW76-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/18/16	Lab ID:	605317-04
Date Analyzed:	05/18/16	Data File:	051825.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	102	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	10
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	FD03-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/18/16	Lab ID:	605317-05
Date Analyzed:	05/18/16	Data File:	051816.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	108	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.5
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	15
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	650 ve
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	FD03-20160517	Client:	SoundEarth Strategies
Date Received:	05/17/16	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/18/16	Lab ID:	605317-05 1/100
Date Analyzed:	05/18/16	Data File:	051827.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	102	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<20
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	<100
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	700
Tetrachloroethene	<100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160517 WORFDB8
Date Extracted:	05/18/16	Lab ID:	06-972 mb
Date Analyzed:	05/18/16	Data File:	051808.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	107	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/17/16

Project: TOC_01-600_20160517 WORFDB8, F&BI 605317

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 605313-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	95	72-119
Toluene	ug/L (ppb)	50	100	71-113
Ethylbenzene	ug/L (ppb)	50	102	72-114
Xylenes	ug/L (ppb)	150	93	72-113
Gasoline	ug/L (ppb)	1,000	95	70-119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/17/16

Project: TOC_01-600_20160517 WORFDB8, F&BI 605317

**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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	108	100	61-133	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/25/16

Date Received: 05/17/16

Project: TOC_01-600_20160517 WORFDB8, F&BI 605317

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

Laboratory Code: 605307-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	96	36-166
Chloroethane	ug/L (ppb)	50	<1	109	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	91	60-136
Methylene chloride	ug/L (ppb)	50	<5	99	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	95	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	95	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	89	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	94	60-146
Trichloroethene	ug/L (ppb)	50	<1	96	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	93	10-226

Laboratory Code: Laboratory Control Sample

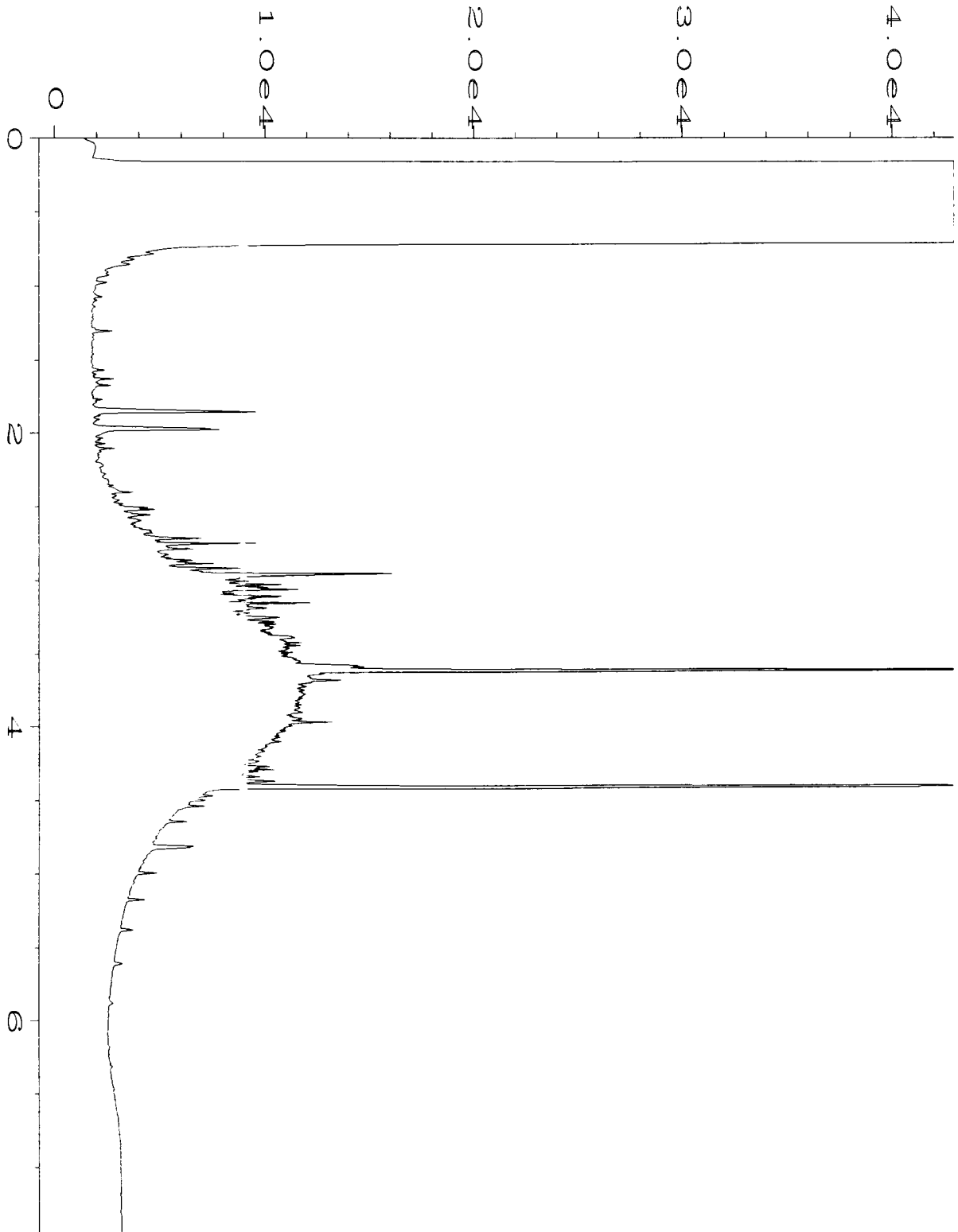
Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	109	111	50-154	2
Chloroethane	ug/L (ppb)	50	120	124	58-146	3
1,1-Dichloroethene	ug/L (ppb)	50	102	104	67-136	2
Methylene chloride	ug/L (ppb)	50	109	113	39-148	4
trans-1,2-Dichloroethene	ug/L (ppb)	50	103	107	68-128	4
1,1-Dichloroethane	ug/L (ppb)	50	103	106	79-121	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	107	111	80-123	4
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	96	100	73-132	4
1,1,1-Trichloroethane	ug/L (ppb)	50	102	105	83-130	3
Trichloroethene	ug/L (ppb)	50	103	106	80-120	3
Tetrachloroethene	ug/L (ppb)	50	92	97	76-121	5

FRIEDMAN & BRUYA, INC.

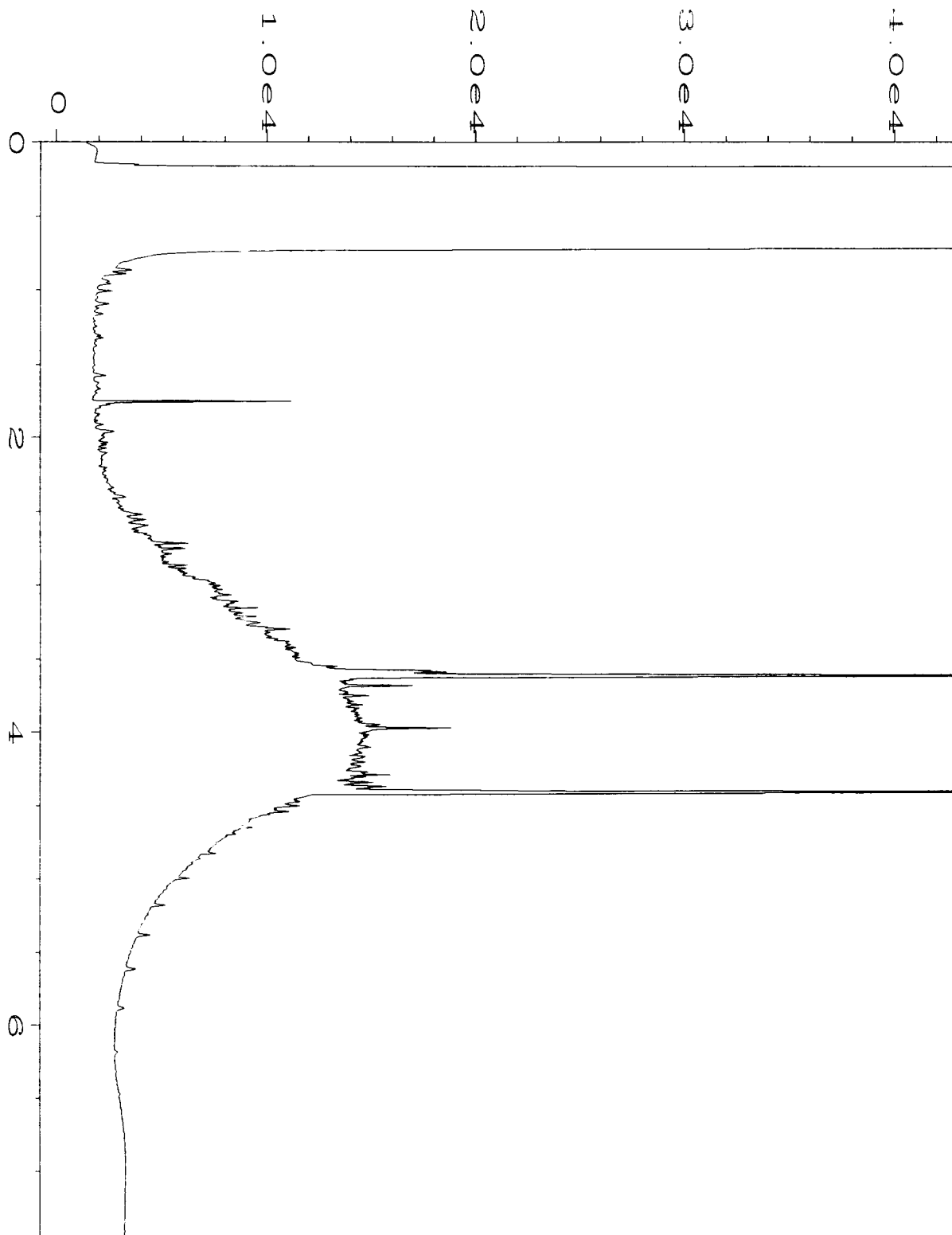
ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

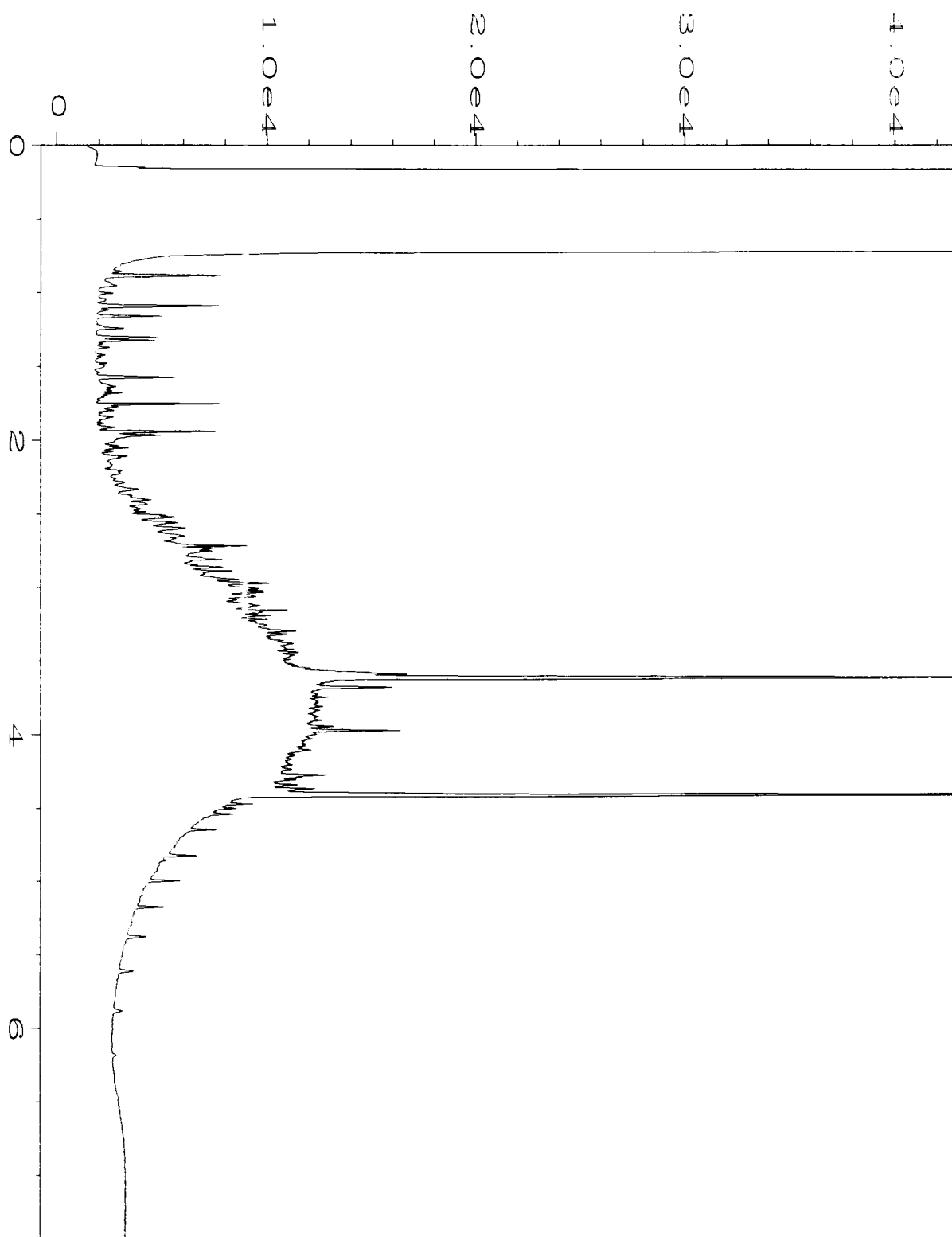
- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- 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. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- 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.



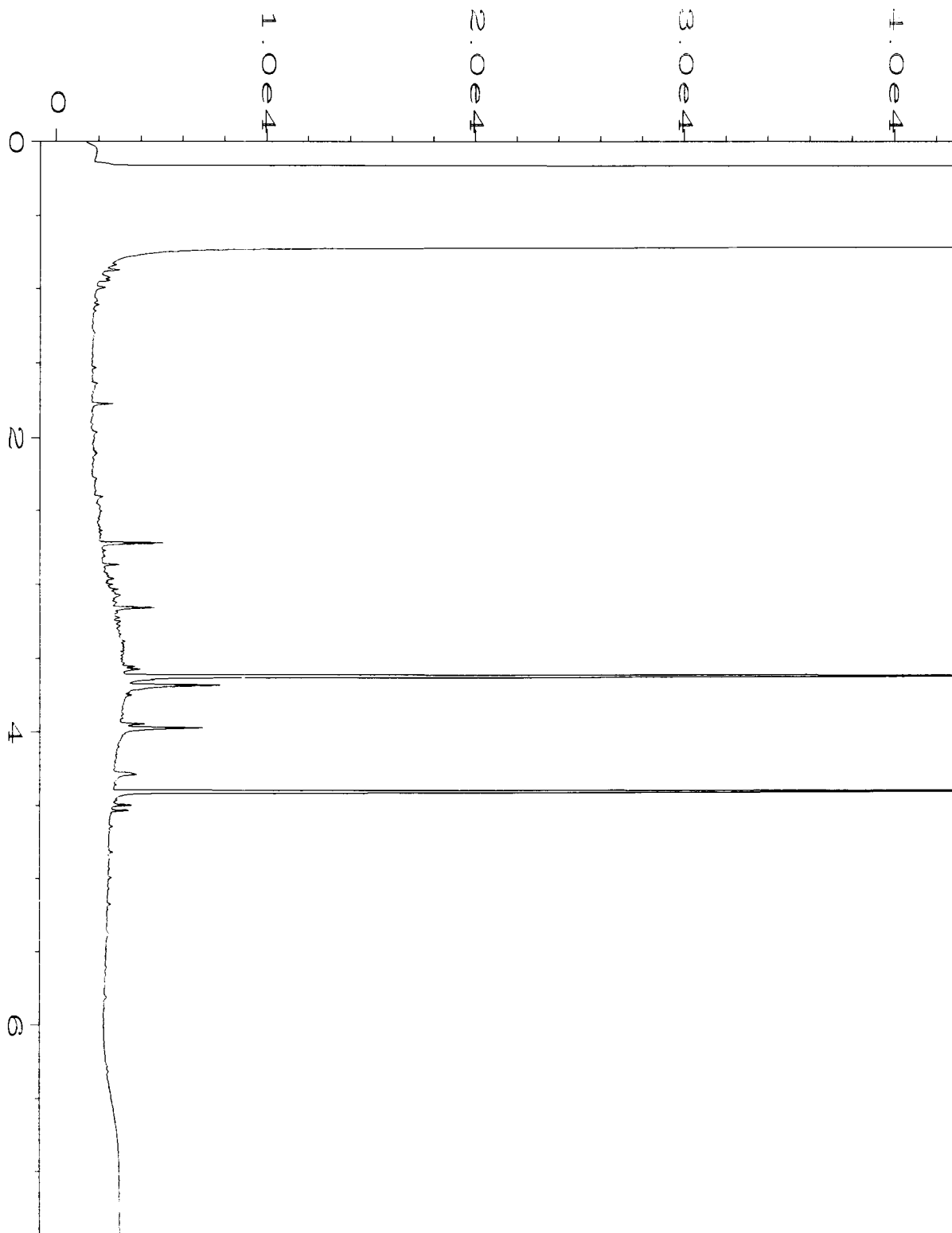
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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605317-01	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 05:06 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:32 AM		



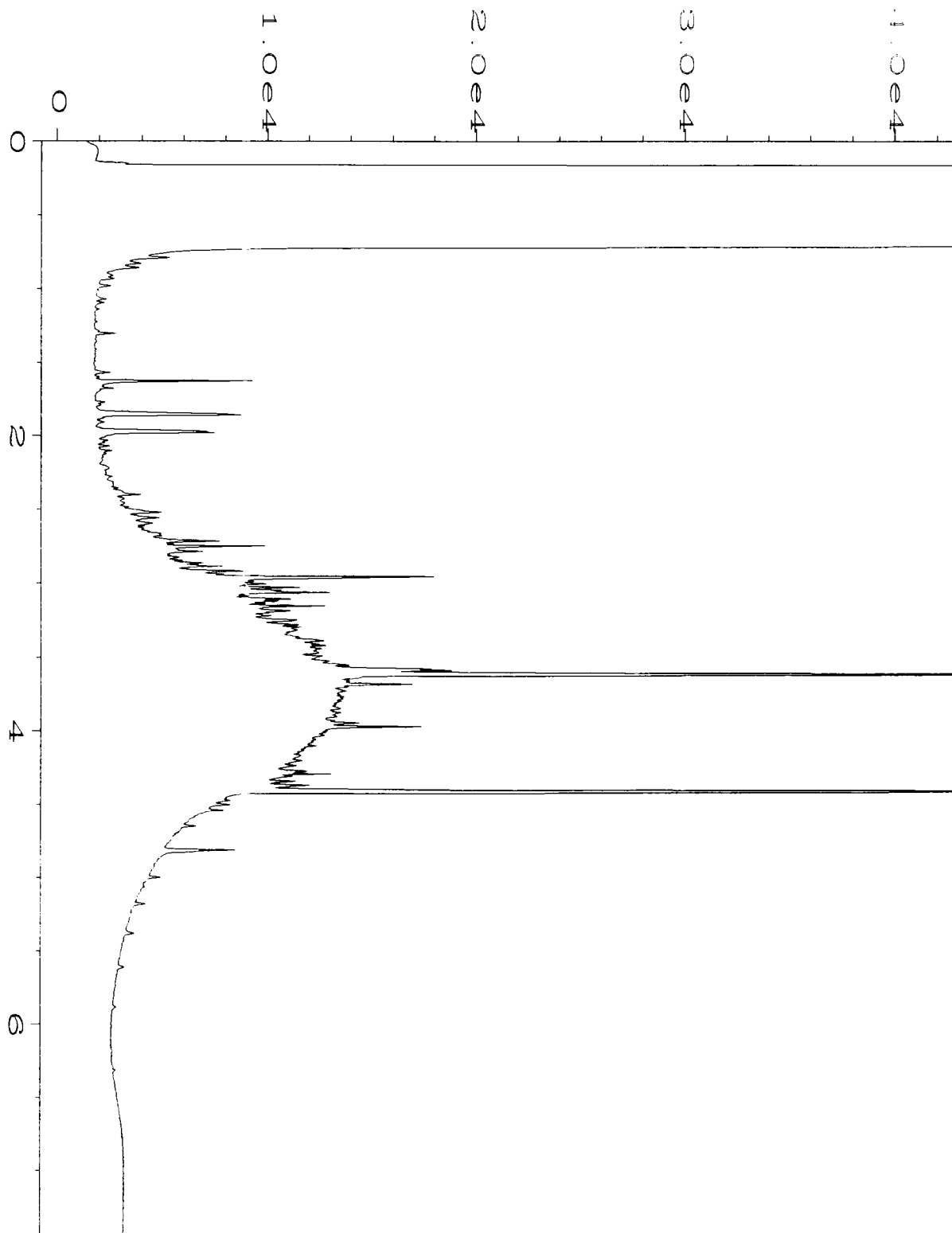
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Operator	: mwdl	Vial Number	: 32
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605317-02	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 05:18 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:33 AM		



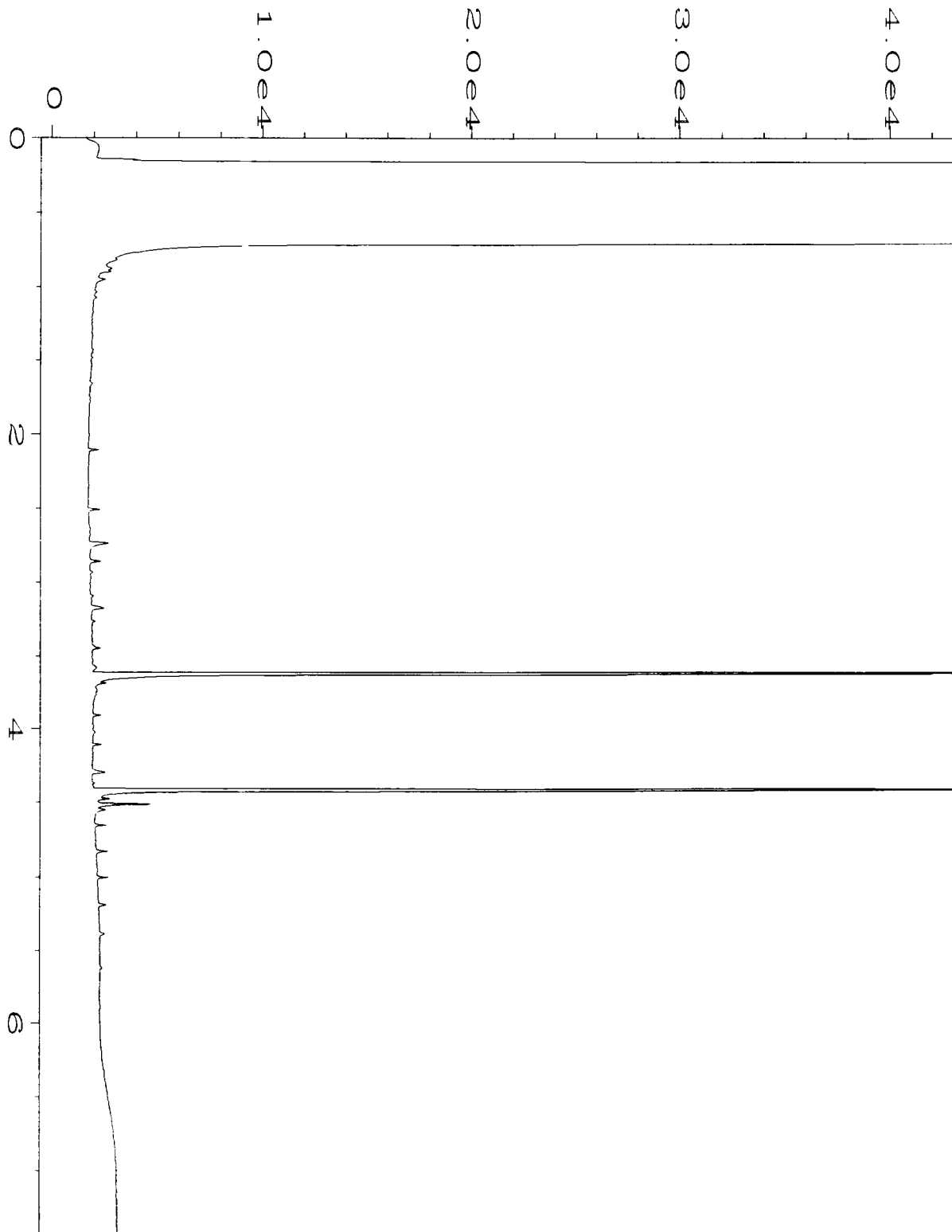
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Operator	: mwdl	Vial Number	: 33
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605317-03	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 05:30 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:33 AM		



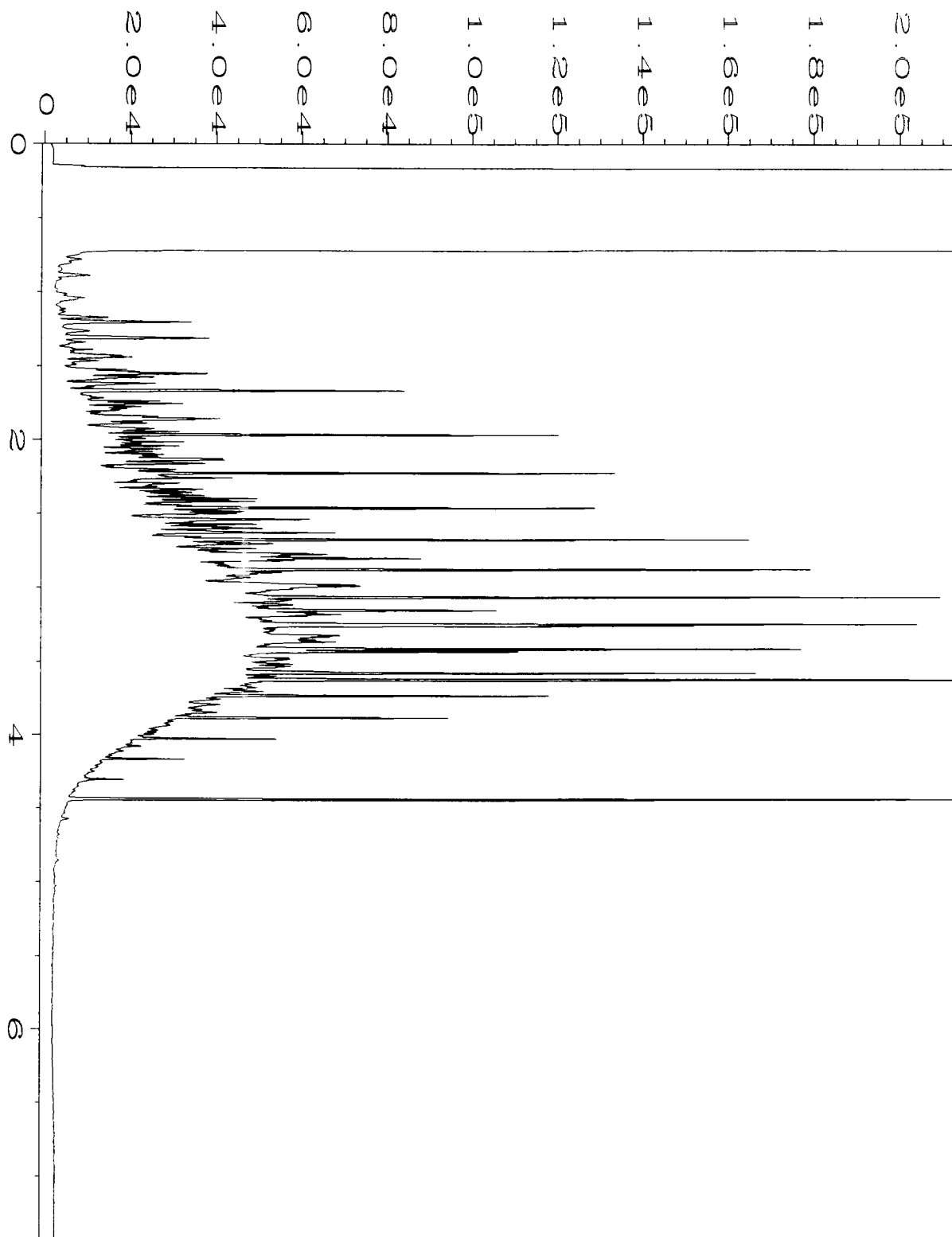
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Operator	: mwdl	Vial Number	: 34
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605317-04	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 05:42 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:33 AM		



Data File Name	: C:\HPCHEM\4\DATA\05-19-16\035F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 35
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605317-05	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 05:53 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:33 AM		



Data File Name	: C:\HPCHEM\4\DATA\05-19-16\019F0401.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 19
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-1014 mb	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 01:07 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:35 AM		



Data File Name	: C:\HPCHEM\4\DATA\05-19-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 06:53 AM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:36 AM		

SAMPLE CHAIN OF CUSTODY

ME 051716 Page # 1 of 1 4/DO3

605317

Send Report to Tim Brown, cc: Jessica Brown, Jennifer Cyr, Pete Kingston, Courtney Schaumberg, Jonathan Loeffler

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) <i>Ada Hamilton</i>	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - ASKO Property	PO # 0440-004-41
REMARKS	EIM Y

TURNAROUND TIME <u>Standard (2 Weeks)</u> RUSH Rush charges authorized by:
SAMPLE DISPOSAL <input checked="" type="checkbox"/> Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPHORPH by NWTPH-Dx	cVOCs by EPA 8260C	Methane, Ethane, and Ethene by RSK 175	Sulfate, Nitrate, Nitrite, Total P, Hardness, and Alkalinity	Total Fe and Total Mn	Sulfide, TKN, and Fe 2+	Note
MW04-20160517	MW04	-	01A	05-17-16	1205	H ₂ O	6	X	X	X	X					
MW05-20160517	MW05	-	09		1400			X	X	X	X					
01MW46-20160517	01MW46	-	09		1515			X	X	X	X					
01MW76-20160517	01MW76	-	04		1620			X	X	X	X					
FD03-20160517	FD03	-	05		1215			X	X	X	X					
MEH 05-17-16																
Samples received at <u>LP</u> °C																

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: <i>Ada Hamilton</i>	Ada Hamilton	SoundEarth	05-17-16	1811
Received by: <i>Jes Suman</i>	Jes Suman	FB & I		
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605344

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

June 15, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 18, 2016 from the TOC_01-600_20160518 WORFDB8, F&BI 605344 project. There are 24 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.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Pete Kingston, Jonathan Loeffler
SOU0615R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 18, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160518 WORFDB8, F&BI 605344 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605344 -01	01MW45-20160518
605344 -02	01MW44-20160518
605344 -03	01MW55-20160518

The samples were sent to Aquatic Research for sulfate, nitrate, nitrite, total phosphorus, hardness, alkalinity, TKN, and sulfide analyses. In addition, the samples were sent to Amtest for ferrous iron analysis. The report from Amtest is enclosed. The report from Aquatic Research will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605344

Date Extracted: 05/19/16

Date Analyzed: 05/19/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
01MW45-20160518 605344-01	2.1	<1	<1	<3	140 x	96
01MW44-20160518 605344-02	15	<1	<1	<3	490 x	96
01MW55-20160518 605344-03	1.7	<1	<1	<3	810 x	94
Method Blank 06-999 MB	<1	<1	<1	<3	<100	93

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605344

Date Extracted: 05/19/16

Date Analyzed: 05/19/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 47-140)
01MW45-20160518 605344-01	1,300 x	280 x	107
01MW44-20160518 605344-02	770 x	<250	126
01MW55-20160518 605344-03	1,200 x	750 x	108
Method Blank 06-1014 MB	<50	<250	98

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	01MW45-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8,
Date Extracted:	05/23/16	Lab ID:	605344-01 x10
Date Analyzed:	05/25/16	Data File:	605344-01 x10.026
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	10,700
Manganese	1,390

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	01MW44-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/23/16	Lab ID:	605344-02
Date Analyzed:	05/24/16	Data File:	605344-02.135
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	7,600
Manganese	844

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	01MW55-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/23/16	Lab ID:	605344-03
Date Analyzed:	05/24/16	Data File:	605344-03.136
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	338
Manganese	1,480

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/23/16	Lab ID:	I6-325 mb
Date Analyzed:	05/23/16	Data File:	I6-325 mb.069
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	<50
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW45-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605344-01
Date Analyzed:	05/19/16	Data File:	051929.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	3.7
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	200 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	190 ve
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW45-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605344-01 1/10
Date Analyzed:	05/20/16	Data File:	052016.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	102	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	3.3
Chloroethane	<10
1,1-Dichloroethene	<10
Methylene chloride	<50
trans-1,2-Dichloroethene	<10
1,1-Dichloroethane	<10
cis-1,2-Dichloroethene	200
1,2-Dichloroethane (EDC)	<10
1,1,1-Trichloroethane	<10
Trichloroethene	180
Tetrachloroethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW44-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605344-02
Date Analyzed:	05/19/16	Data File:	051930.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	105	63	127
4-Brom ofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	16
Chloroethane	<1
1,1-Dichloroethene	1.3
Methylene chloride	<5
trans-1,2-Dichloroethene	1.9
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	90
1,2-Dichloroethane (EDC)	5.5
1,1,1-Trichloroethane	<1
Trichloroethene	970 ve
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW44-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605344-02 1/100
Date Analyzed:	05/20/16	Data File:	052017.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	57	121
Toluene-d8	102	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<20
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	<100
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	1,000
Tetrachloroethene	<100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW55-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605344-03
Date Analyzed:	05/19/16	Data File:	051931.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	57	121
Toluene-d8	105	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	64
Chloroethane	<1
1,1-Dichloroethene	7.3
Methylene chloride	<5
trans-1,2-Dichloroethene	12
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	250 ve
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	1,900 ve
Tetrachloroethene	2.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW55-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605344-03 1/100
Date Analyzed:	05/20/16	Data File:	052019.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	102	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	60
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	250
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	2,800
Tetrachloroethene	<100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	06-1018 mb
Date Analyzed:	05/19/16	Data File:	051919.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Gasses By RSK 175

Client Sample ID:	01MW45-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/23/16	Lab ID:	605344-01
Date Analyzed:	05/23/16	Data File:	028F2801.D
Matrix:	Water	Instrument:	GC8
Units:	ug/L (ppb)	Operator:	JS

Compounds:	Concentration ug/L (ppb)
Methane	190
Ethane	<10
Ethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Gasses By RSK 175

Client Sample ID:	01MW44-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/23/16	Lab ID:	605344-02
Date Analyzed:	05/23/16	Data File:	029F2901.D
Matrix:	Water	Instrument:	GC8
Units:	ug/L (ppb)	Operator:	JS

Compounds:	Concentration ug/L (ppb)
Methane	220
Ethane	<10
Ethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Gasses By RSK 175

Client Sample ID:	01MW55-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/23/16	Lab ID:	605344-03
Date Analyzed:	05/23/16	Data File:	031F3101.D
Matrix:	Water	Instrument:	GC8
Units:	ug/L (ppb)	Operator:	JS

Compounds:	Concentration ug/L (ppb)
Methane	210
Ethane	<10
Ethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Gasses By RSK 175

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/23/16	Lab ID:	06-1023 mb
Date Analyzed:	05/23/16	Data File:	014F1401.D
Matrix:	Water	Instrument:	GC8
Units:	ug/L (ppb)	Operator:	JS

Compounds:	Concentration ug/L (ppb)
Methane	<5
Ethane	<10
Ethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605344

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 605347-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	94	65-118
Toluene	ug/L (ppb)	50	96	72-122
Ethylbenzene	ug/L (ppb)	50	97	73-126
Xylenes	ug/L (ppb)	150	95	74-118
Gasoline	ug/L (ppb)	1,000	94	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605344

**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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	108	100	61-133	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605344

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

Laboratory Code: 605188-01 x10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	766	152 b	108 b	70-130	34 b
Manganese	ug/L (ppb)	20	9,890	274 b	223 b	70-130	21 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	103	85-115
Manganese	ug/L (ppb)	20	106	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605344

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

Laboratory Code: 605344-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	3.7	109	36-166
Chloroethane	ug/L (ppb)	50	<1	121	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	99	60-136
Methylene chloride	ug/L (ppb)	50	<5	107	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	101	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	100	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	200 ve	92 b	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	90	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	97	60-146
Trichloroethene	ug/L (ppb)	50	190 ve	86 b	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	95	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	107	105	50-154	2
Chloroethane	ug/L (ppb)	50	119	117	58-146	2
1,1-Dichloroethene	ug/L (ppb)	50	100	96	67-136	4
Methylene chloride	ug/L (ppb)	50	111	105	39-148	6
trans-1,2-Dichloroethene	ug/L (ppb)	50	102	99	68-128	3
1,1-Dichloroethane	ug/L (ppb)	50	102	99	79-121	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	105	103	80-123	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	94	90	73-132	4
1,1,1-Trichloroethane	ug/L (ppb)	50	100	97	83-130	3
Trichloroethene	ug/L (ppb)	50	102	99	80-120	3
Tetrachloroethene	ug/L (ppb)	50	99	96	76-121	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605344

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF
WATER SAMPLES FOR DISSOLVED GASSES
USING METHOD RSK 175**

Laboratory Code: 605344-03 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Methane	ug/L (ppb)	210	210	0
Ethane	ug/L (ppb)	<10	<10	nm
Ethene	ug/L (ppb)	<10	<10	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Methane	ug/L (ppb)	59	81	81	50-150	0
Ethane	ug/L (ppb)	110	75	74	50-150	1
Ethene	ug/L (ppb)	102	108	99	50-150	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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

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

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte is likely due to laboratory contamination.

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

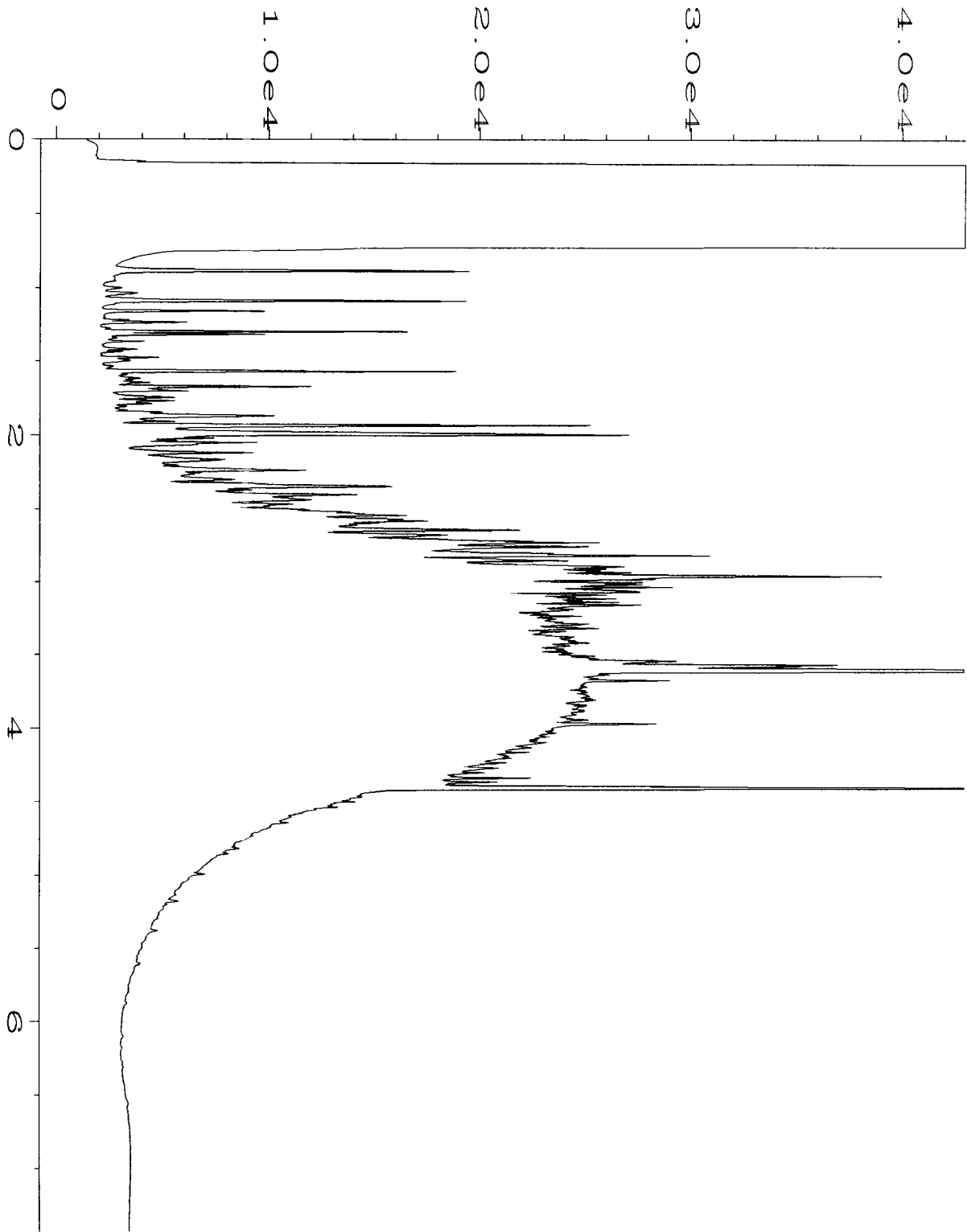
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

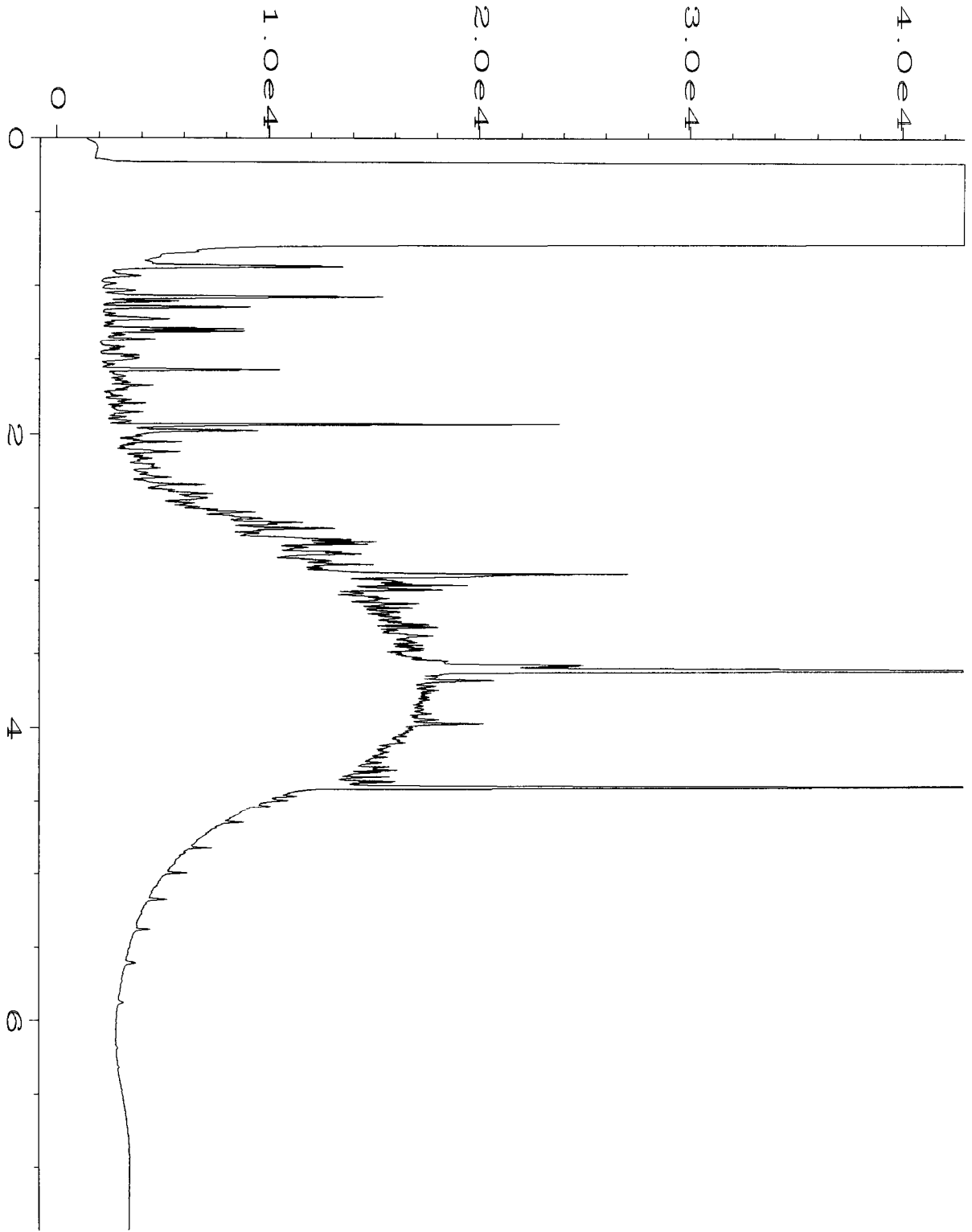
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

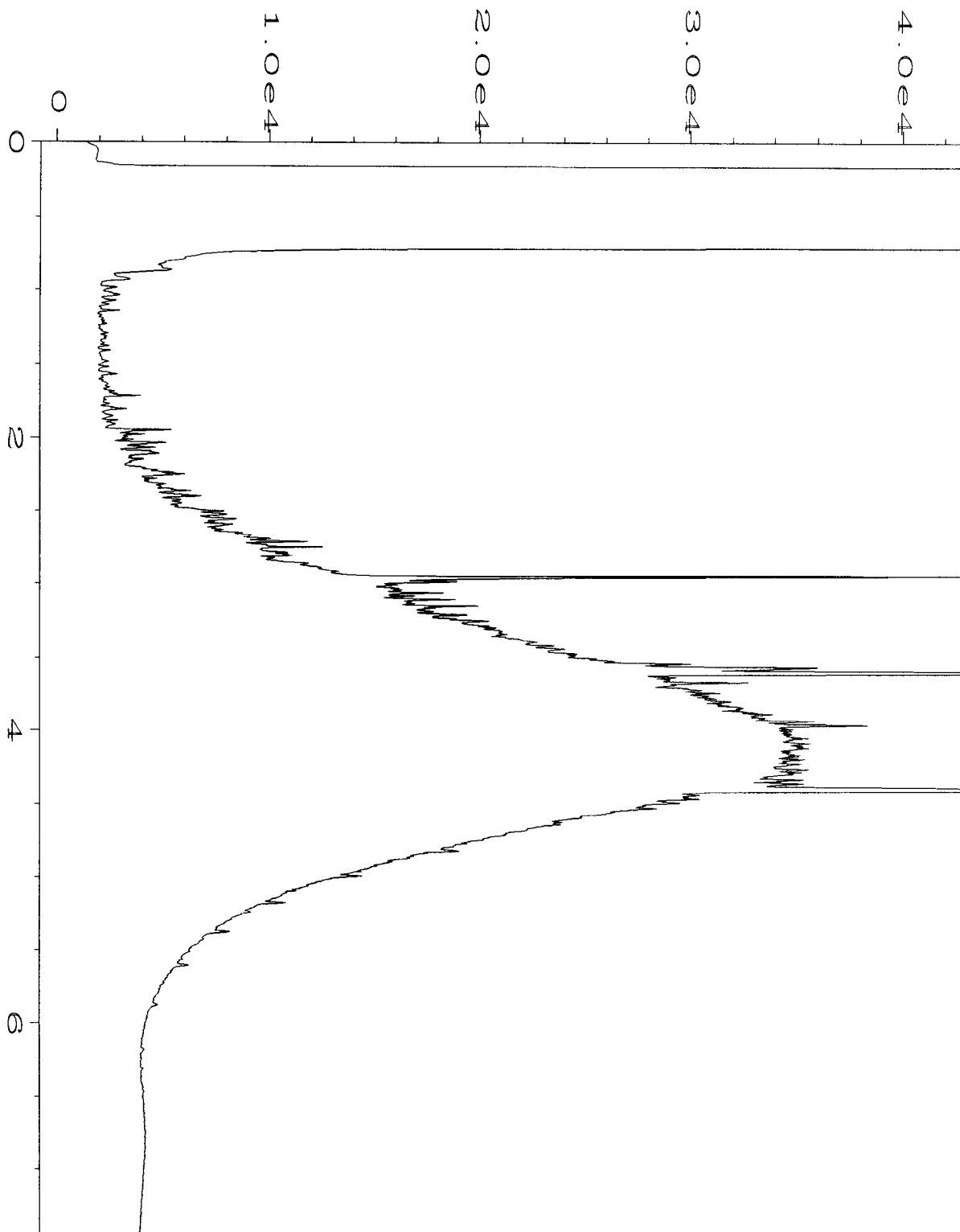
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



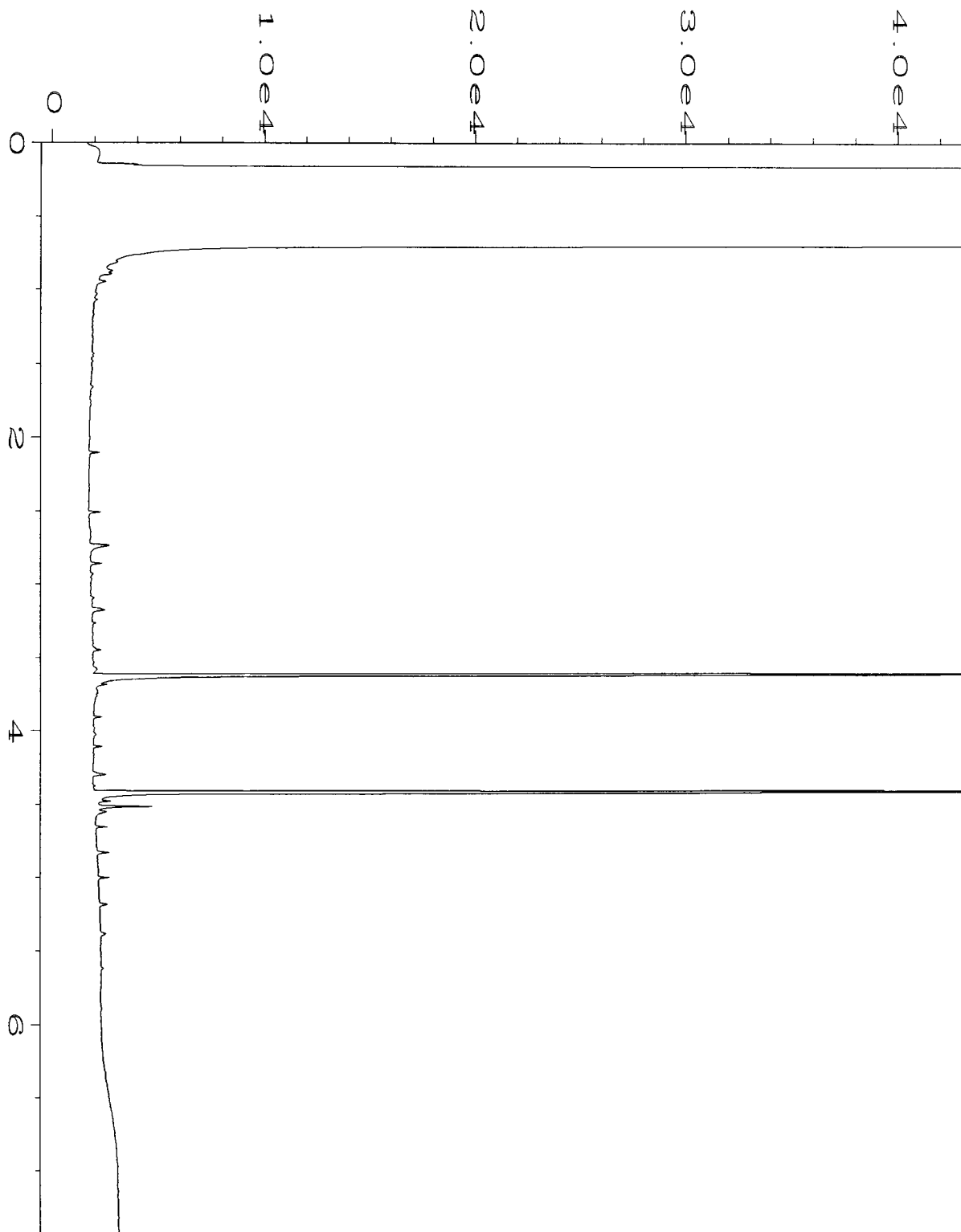
Data File Name	: C:\HPCHEM\4\DATA\05-19-16\036F0701.D	Page Number	: 1
Operator	: mwd1	Vial Number	: 36
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605344-01	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 06:05 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:38 AM		



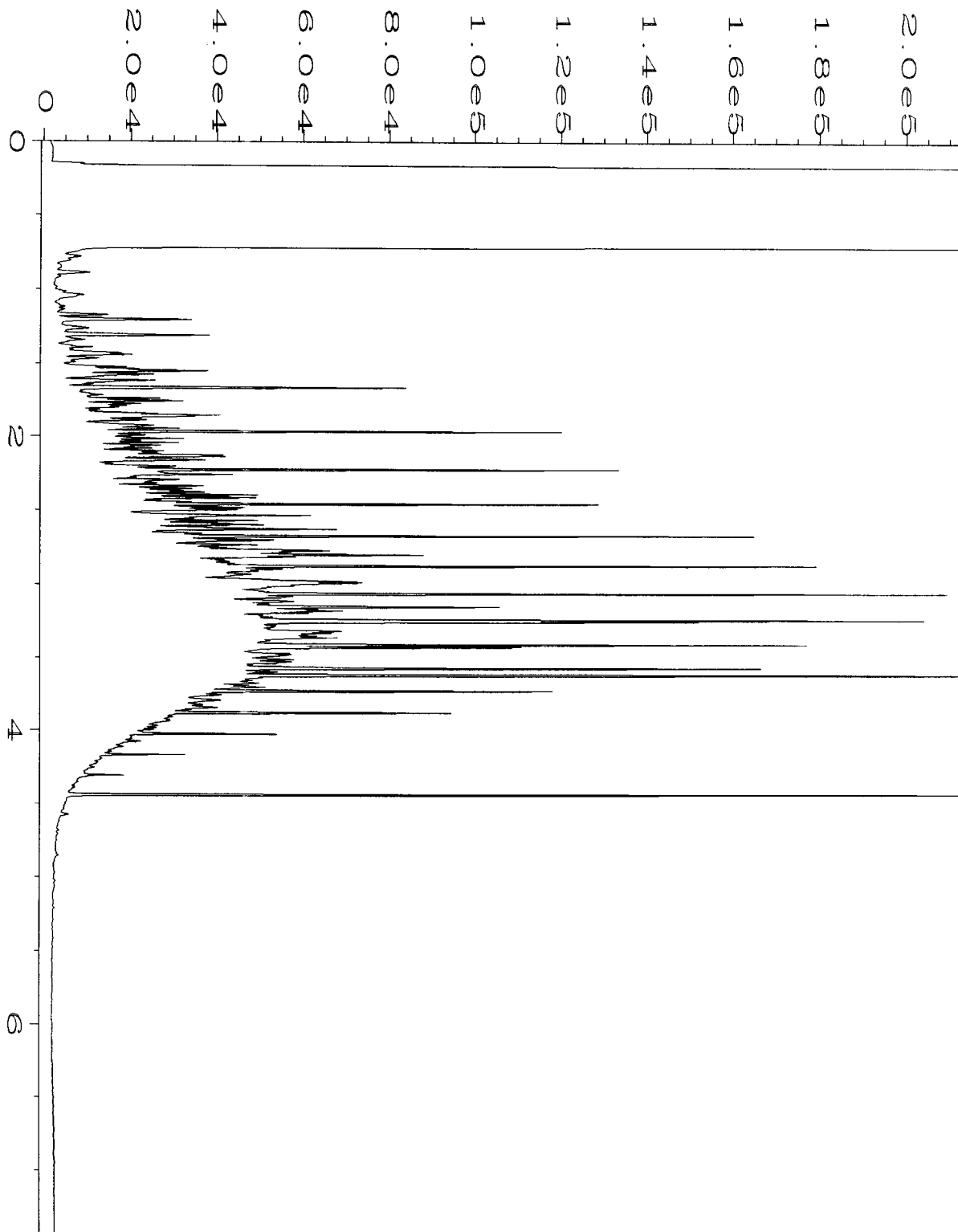
Data File Name	: C:\HPCHEM\4\DATA\05-19-16\037F0701.D	Page Number	: 1
Operator	: mwd1	Vial Number	: 37
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605344-02	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 06:17 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:33 AM		



Data File Name	: C:\HPCHEM\4\DATA\05-19-16\038F0701.D	Page Number	: 1
Operator	: mwd1	Vial Number	: 38
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605344-03	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 06:29 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:33 AM		



Data File Name	: C:\HPCHEM\4\DATA\05-19-16\019F0401.D	Page Number	: 1
Operator	: mwd1	Vial Number	: 19
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-1014 mb	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 01:07 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:35 AM		



Data File Name	: C:\HPCHEM\4\DATA\05-19-16\003F0201.D	Page Number	: 1
Operator	: mwd1	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 May 16 06:53 AM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:36 AM		



Professional Analytical Services

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Jun 2 2016
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Attention: MICHAEL ERDAHL

Dear MICHAEL ERDAHL:

Enclosed please find the analytical data for your 605344 project.

The following is a cross correlation of client and laboratory identifications for your convenience.

Table with 4 columns: CLIENT ID, MATRIX, AMTEST ID, TEST. Rows include client IDs like 01MW45-20160518 and matrices like Water.

Your samples were received on Thursday, May 19, 2016. At the time of receipt, the samples were logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to conact me.

Sincerely,

Handwritten signature of Aaron W. Young and typed name Aaron W. Young Laboratory Manager

Project #: 605344
PO Number: D-991

BACT = Bacteriological MET = Metals NUT=Nutrients MIN=Minerals
CONV = Conventional ORG = Organics DEM=Demand

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com



Professional
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ANALYSIS REPORT

Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Attention: MICHAEL ERDAHL
Project Name: 605344
Project #: 605344
PO Number: D-991
All results reported on an as received basis.

Date Received: 05/19/16
Date Reported: 6/ 2/16

AMTEST Identification Number 16-A009381
Client Identification 01MW45-20160518
Sampling Date 05/18/16, 11:05

Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ferrous Iron	9.95	mg/l		0.01	SM 3500Fe D	MJ	05/19/16

AMTEST Identification Number 16-A009382
Client Identification 01MW44-20160518
Sampling Date 05/18/16, 12:45

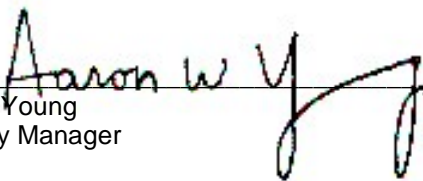
Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ferrous Iron	6.09	mg/l		0.01	SM 3500Fe D	MJ	05/19/16

AMTEST Identification Number 16-A009383
Client Identification 01MW55-20160518
Sampling Date 05/18/16, 14:45

Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ferrous Iron	0.09	mg/l		0.01	SM 3500Fe D	MJ	05/19/16



Aaron W. Young
Laboratory Manager

QC Summary for sample numbers: 16-A009381 to 16-A009383

MATRIX SPIKES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
16-A009383	Ferrous Iron	mg/l	0.09	0.58	0.50	98.00 %
16-A009383	Ferrous Iron	mg/l	0.09	0.58	0.50	98.00 %

MATRIX SPIKE DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE + SPK	MSD VALUE	RPD
Spike	Ferrous Iron	mg/l	0.58	0.58	0.00

STANDARD REFERENCE MATERIALS

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Ferrous Iron	mg/l	0.50	0.50	100. %

BLANKS

ANALYTE	UNITS	RESULT
Ferrous Iron	mg/l	< 0.01

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Send Report To Michael Erdahl
 Company Friedman and Bruya, Inc.
 Address 3012 16th Ave W
 City, State, ZIP Seattle, WA 98119
 Phone # (206) 285-8282 Fax # (206) 283-5044

SUBCONTRACTOR <u>Amtest</u>	
PROJECT NAME/NO. <u>665344</u>	PO # <u>D-991</u>
REMARKS <u>Please Email Results</u>	

Page # 1 of 1

TURNAROUND TIME
<input checked="" type="checkbox"/> Standard (2 Weeks)
<input type="checkbox"/> RUSH
Rush charges authorized by: _____
SAMPLE DISPOSAL
<input type="checkbox"/> Dispose after 30 days
<input type="checkbox"/> Return samples
<input type="checkbox"/> Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED											Notes
						Total Fe	Hardness	Sulfate	Ferric Iron Nitrate	Nitrite	Alkalinity	Sulfide	TKN	Total Phosphorus	Dissolved Gasses		
<u>01MW45-20160518</u>	<u>9381</u>	<u>5/18/16</u>	<u>1105</u>	<u>water</u>	<u>1</u>				<u>X</u>								
<u>01MW44-20160518</u>	<u>82</u>	<u>↓</u>	<u>1245</u>	<u>↓</u>	<u>1</u>				<u>X</u>								
<u>01MW55-20160518</u>	<u>83</u>	<u>↓</u>	<u>1445</u>	<u>↓</u>	<u>1</u>				<u>X</u>								

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	5/19/16	0730
	Received by: <u>RA</u>	FedEx T-22		5/19/16	930
	Relinquished by:				
Received by:					

605344

SAMPLE CHAIN OF CUSTODY

ME 05/18/16

15/DO3/ALI 3

Send Report To Tim Brown, cc: Jessica Brown, Jennifer Cyr, Pete Kingston, Courtney Schaumberg, Jonathan Loeffler

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) *Ada Hamilton*

PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600
Seattle Terminal - ASKO Property

PO # 0440-004-41

REMARKS EIM Y

Page # 1 of 3

TURNAROUND TIME

Standard (2 Weeks) Standard (2 Weeks)

RUSH _____

Rush charges authorized by: _____

SAMPLE DISPOSAL

Dispose after 30 days

Return samples

Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPHORPH by NWTPH-Dx	cVOCs by EPA 8260C	Methane, Ethane, and Ethene by RSK 175	Sulfate, Nitrate, Nitrite, Total P, Hardness, and Alkalinity	Total Fe and Total Mn	Sulfide, TKN, and Fe 2+	Notes
01MW45-20160518	01MW45	-	01N	05-18-16	1105	H ₂ O	14	X	X	X	X	X	X	X	X	
01MW44-20160518	01MW44	-	02	05-18-16	1245	H ₂ O	14	X	X	X	X	X	X	X	X	
01MW55-20160518	01MW55	-	03	05-18-16	1445	H ₂ O	14	X	X	X	X	X	X	X	X	
APR 05-18-16																
Samples received at 4 °C																

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: <i>Ada Hamilton</i>	Ada Hamilton	Sound Earth	05-18-16	1720
Received by: <i>Jon Shilman</i>	Jon Shilman	FB & I	d	f
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605345

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

June 16, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 18, 2016 from the TOC_01-600_20160518 WORFDB8, F&BI 605345 project. There are 22 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.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr
SOU0616R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 18, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160518 WORFDB8, F&BI 605345 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605345 -01	01MW70-20160518
605345 -02	01MW71-20160518
605345 -03	01MW63-20160518
605345 -04	FD04-20160518

Sample 01MW63-20160518 was sent to Aquatic Research for sulfate, nitrate, nitrite, total phosphorus, hardness, alkalinity, TKN, and sulfide analyses. In addition, sample 01MW63-20160518 was sent to Amtest for ferrous iron analysis. The report from Amtest is enclosed. The report from Aquatic Research will be forwarded upon receipt.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605345

Date Extracted: 05/19/16

Date Analyzed: 05/19/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
01MW70-20160518 605345-01	<1	<1	<1	<3	210 x	94
01MW71-20160518 605345-02	<1	1.4	<1	<3	930 x	91
01MW63-20160518 605345-03	3.8	2.9	<1	<3	1,300 x	98
FD04-20160518 605345-04	5.3	2.8	<1	<3	1,400 x	94
Method Blank 06-999 MB	<1	<1	<1	<3	<100	93

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605345

Date Extracted: 05/19/16

Date Analyzed: 05/20/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 41-152)
01MW70-20160518 605345-01	1,200 x	1,500 x	128
01MW71-20160518 605345-02	1,700 x	2,300 x	132
01MW63-20160518 605345-03	850 x	680 x	121
FD04-20160518 605345-04	1,000 x	840 x	128
Method Blank 06-1035 MB	<50	<250	138

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	01MW63-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/23/16	Lab ID:	605345-03
Date Analyzed:	05/24/16	Data File:	605345-03.137
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	4,470
Manganese	1,020

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/23/16	Lab ID:	I6-325 mb
Date Analyzed:	05/23/16	Data File:	I6-325 mb.069
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	<50
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW70-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605345-01
Date Analyzed:	05/19/16	Data File:	051932.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	105	63	127
4-Bromofluorobenzene	105	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.87
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	7.3
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	37
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	430 ve
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW70-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605345-01 1/100
Date Analyzed:	05/20/16	Data File:	052021.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	102	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<20
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	<100
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	480
Tetrachloroethene	<100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW71-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605345-02
Date Analyzed:	05/19/16	Data File:	051933.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	107	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	12
Chloroethane	<1
1,1-Dichloroethene	11
Methylene chloride	<5
trans-1,2-Dichloroethene	20
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	110
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	2,200 ve
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW71-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605345-02 1/100
Date Analyzed:	05/20/16	Data File:	052022.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<20
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	120
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	4,900
Tetrachloroethene	<100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW63-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605345-03
Date Analyzed:	05/19/16	Data File:	051934.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	81
Chloroethane	<1
1,1-Dichloroethene	8.2
Methylene chloride	<5
trans-1,2-Dichloroethene	6.8
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	420 ve
1,2-Dichloroethane (EDC)	2.5
1,1,1-Trichloroethane	<1
Trichloroethene	2,800 ve
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW63-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605345-03 1/100
Date Analyzed:	05/20/16	Data File:	052023.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	100	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	79
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	440
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	7,700
Tetrachloroethene	<100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	FD04-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605345-04
Date Analyzed:	05/19/16	Data File:	051935.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	104	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	81
Chloroethane	<1
1,1-Dichloroethene	8.4
Methylene chloride	<5
trans-1,2-Dichloroethene	7.0
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	420 ve
1,2-Dichloroethane (EDC)	2.5
1,1,1-Trichloroethane	<1
Trichloroethene	2,800 ve
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	FD04-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	605345-04 1/100
Date Analyzed:	05/20/16	Data File:	052024.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	57	121
Toluene-d8	104	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	84
Chloroethane	<100
1,1-Dichloroethene	<100
Methylene chloride	<500
trans-1,2-Dichloroethene	<100
1,1-Dichloroethane	<100
cis-1,2-Dichloroethene	420
1,2-Dichloroethane (EDC)	<100
1,1,1-Trichloroethane	<100
Trichloroethene	7,500
Tetrachloroethene	<100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/19/16	Lab ID:	06-1018 mb
Date Analyzed:	05/19/16	Data File:	051919.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Gasses By RSK 175

Client Sample ID:	01MW63-20160518	Client:	SoundEarth Strategies
Date Received:	05/18/16	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/24/16	Lab ID:	605345-03
Date Analyzed:	05/24/16	Data File:	011F1101.D
Matrix:	Water	Instrument:	GC8
Units:	ug/L (ppb)	Operator:	JS

Compounds:	Concentration ug/L (ppb)
Methane	220
Ethane	<10
Ethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Gasses By RSK 175

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160518 WORFDB8
Date Extracted:	05/24/16	Lab ID:	06-1024 mb
Date Analyzed:	05/24/16	Data File:	005F0501.D
Matrix:	Water	Instrument:	GC8
Units:	ug/L (ppb)	Operator:	JS

Compounds:	Concentration ug/L (ppb)
Methane	<5
Ethane	<10
Ethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605345

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 605347-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	94	65-118
Toluene	ug/L (ppb)	50	96	72-122
Ethylbenzene	ug/L (ppb)	50	97	73-126
Xylenes	ug/L (ppb)	150	95	74-118
Gasoline	ug/L (ppb)	1,000	94	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605345

**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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	121	116	63-142	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605345

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

Laboratory Code: 605188-01 x10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	766	152 b	108 b	70-130	34 b
Manganese	ug/L (ppb)	20	9,890	274 b	223 b	70-130	21 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	103	85-115
Manganese	ug/L (ppb)	20	106	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605345

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

Laboratory Code: 605344-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	3.7	109	36-166
Chloroethane	ug/L (ppb)	50	<1	121	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	99	60-136
Methylene chloride	ug/L (ppb)	50	<5	107	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	101	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	100	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	200 ve	92 b	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	90	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	97	60-146
Trichloroethene	ug/L (ppb)	50	190 ve	86 b	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	95	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	107	105	50-154	2
Chloroethane	ug/L (ppb)	50	119	117	58-146	2
1,1-Dichloroethene	ug/L (ppb)	50	100	96	67-136	4
Methylene chloride	ug/L (ppb)	50	111	105	39-148	6
trans-1,2-Dichloroethene	ug/L (ppb)	50	102	99	68-128	3
1,1-Dichloroethane	ug/L (ppb)	50	102	99	79-121	3
cis-1,2-Dichloroethene	ug/L (ppb)	50	105	103	80-123	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	94	90	73-132	4
1,1,1-Trichloroethane	ug/L (ppb)	50	100	97	83-130	3
Trichloroethene	ug/L (ppb)	50	102	99	80-120	3
Tetrachloroethene	ug/L (ppb)	50	99	96	76-121	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/16/16

Date Received: 05/18/16

Project: TOC_01-600_20160518 WORFDB8, F&BI 605345

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF
WATER SAMPLES FOR DISSOLVED GASSES
USING METHOD RSK 175**

Laboratory Code: 605407-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Methane	ug/L (ppb)	117	97	19
Ethane	ug/L (ppb)	<10	<10	nm
Ethene	ug/L (ppb)	<10	<10	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Methane	ug/L (ppb)	59	81	80	50-150	1
Ethane	ug/L (ppb)	110	79	78	50-150	1
Ethene	ug/L (ppb)	102	93	98	50-150	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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.
- 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 the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- 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. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- 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.



Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

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Jun 2 2016
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Attention: MICHAEL ERDAHL

Dear MICHAEL ERDAHL:

Enclosed please find the analytical data for your 605345 project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
01MW63-20160518	Water	16-A009380	MET

Your sample was received on Thursday, May 19, 2016. At the time of receipt, the sample was logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to conact me.

Sincerely,


Aaron W. Young
Laboratory Manager

Project #: 605345
PO Number: D-991

BACT = Bacteriological
CONV = Conventional

MET = Metals
ORG = Organics

NUT=Nutrients
DEM=Demand

MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com



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ANALYSIS REPORT

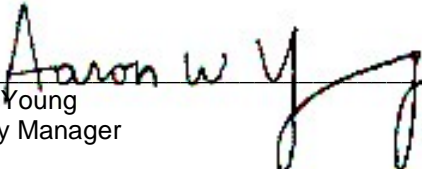
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Attention: MICHAEL ERDAHL
Project Name: 605345
Project #: 605345
PO Number: D-991
All results reported on an as received basis.

Date Received: 05/19/16
Date Reported: 6/ 2/16

AMTEST Identification Number 16-A009380
Client Identification 01MW63-20160518
Sampling Date 05/18/16, 14:48

Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ferrous Iron	2.56	mg/l		0.01	SM 3500Fe D	MJ	05/19/16


Aaron W. Young
Laboratory Manager

QC Summary for sample number: 16-A009380

MATRIX SPIKES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
16-A009383	Ferrous Iron	mg/l	0.09	0.58	0.50	98.00 %
16-A009383	Ferrous Iron	mg/l	0.09	0.58	0.50	98.00 %

MATRIX SPIKE DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE + SPK	MSD VALUE	RPD
Spike	Ferrous Iron	mg/l	0.58	0.58	0.00

STANDARD REFERENCE MATERIALS

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Ferrous Iron	mg/l	0.50	0.50	100. %

BLANKS

ANALYTE	UNITS	RESULT
Ferrous Iron	mg/l	< 0.01

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Send Report To Michael Erdahl

Company Friedman and Bruya, Inc.

Address 3012 16th Ave W

City, State, ZIP Seattle, WA 98119

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

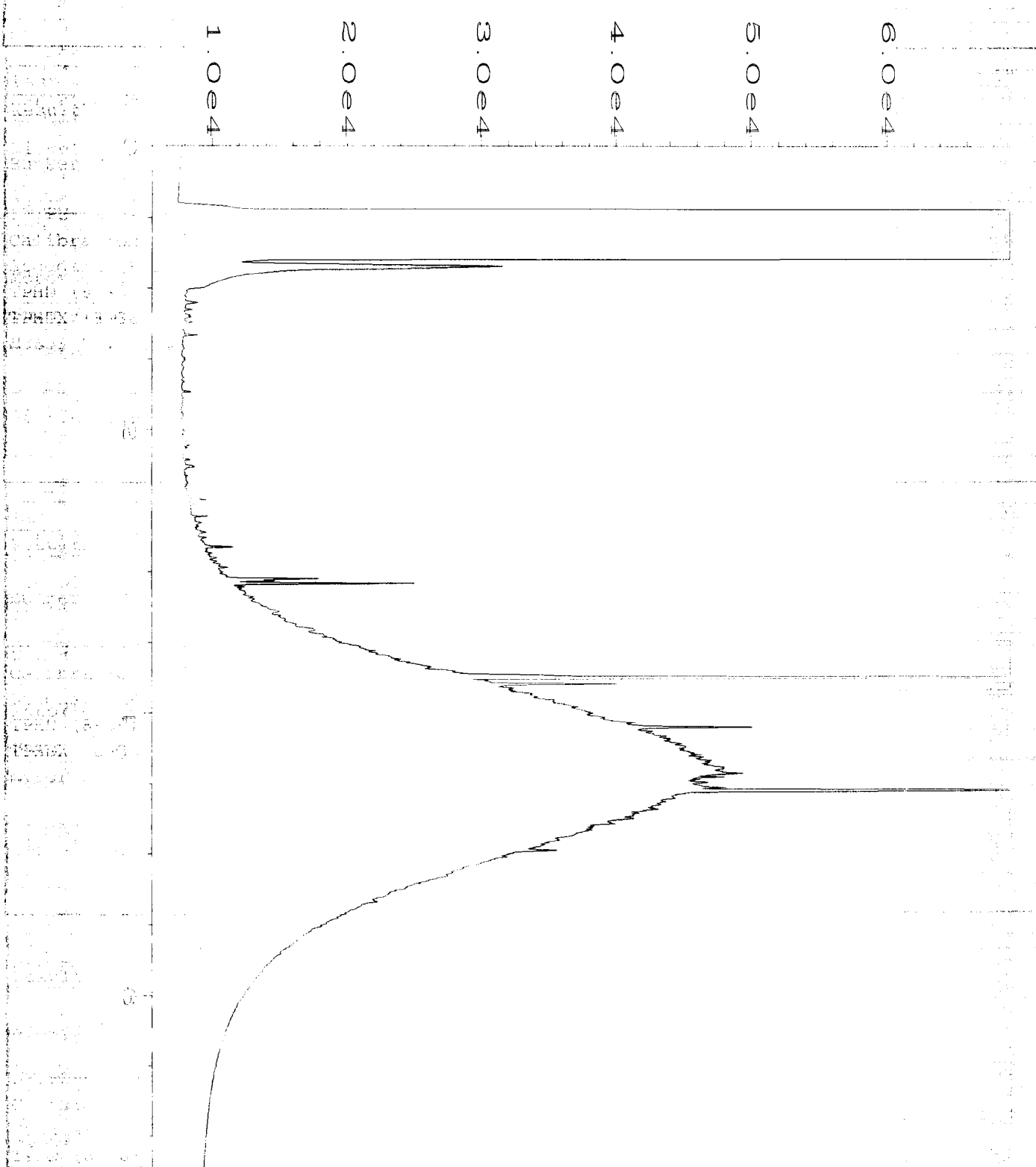
SUBCONTRACTER <i>Amtst</i>	
PROJECT NAME/NO. <div style="font-size: 1.5em; text-align: center;"><i>605345</i></div>	PO # <div style="font-size: 1.5em; text-align: center;"><i>D-991</i></div>
REMARKS <div style="text-align: center; padding-top: 10px;">Please Email Results</div>	

Page # 1 of 1

TURNAROUND TIME
<input checked="" type="checkbox"/> Standard (2 Weeks)
<input type="checkbox"/> RUSH
Rush charges authorized by: _____
SAMPLE DISPOSAL
<input type="checkbox"/> Dispose after 30 days
<input type="checkbox"/> Return samples
<input type="checkbox"/> Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes	
						Total Fe	Hardness	Sulfate	Ferrous Iron Nitrate	Nitrite	Alkalinity	Sulfide	TKN	Total Phosphorus	Dissolved Gasses		
<i>01MW63-20160518</i>	<i>9380</i>	<i>5/18/16</i>	<i>1448</i>	<i>water</i>	<i>1</i>				<i>X</i>								

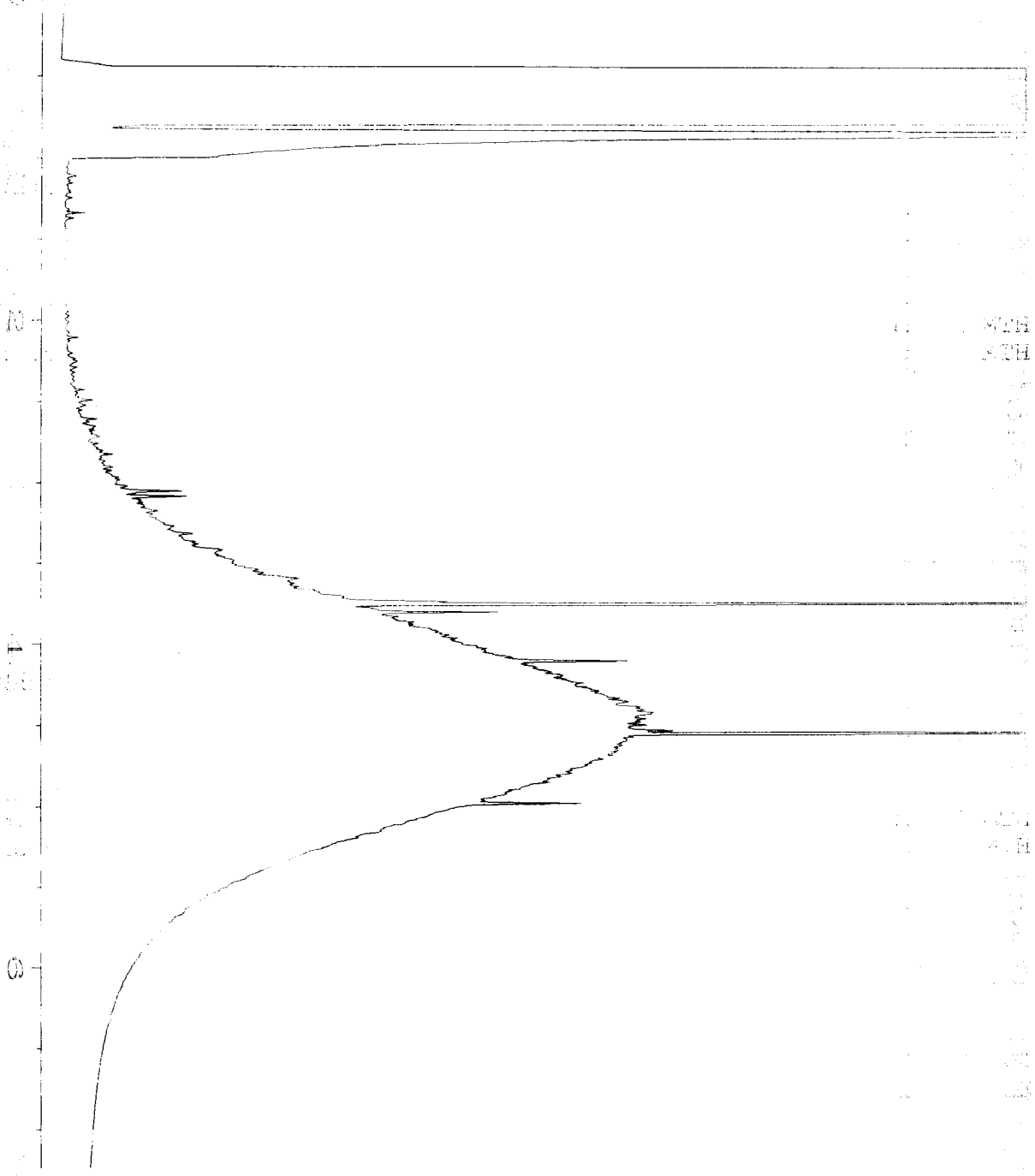
Friedman & Bruya, Inc. 3012 16th Avenue West Seattle, WA 98119-2029 Ph. (206) 285-8282 Fax (206) 283-5044	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	Relinquished by:	Michael Erdahl	Friedman & Bruya	<i>5/19/16</i>	<i>0738</i>
	Received by: <i>Rn</i>	<i>pedEx</i> <i>F=22</i>		<i>5/19/16</i>	<i>930</i>
	Relinquished by:				
Received by:					



Data File Name	: C:\HPCHEM\1\DATA\05-20-16\014F0401.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 14
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605345-01	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 May 16 11:24 AM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:27 AM		

Sample Name
 Run Time
 Acquired on
 Report Created

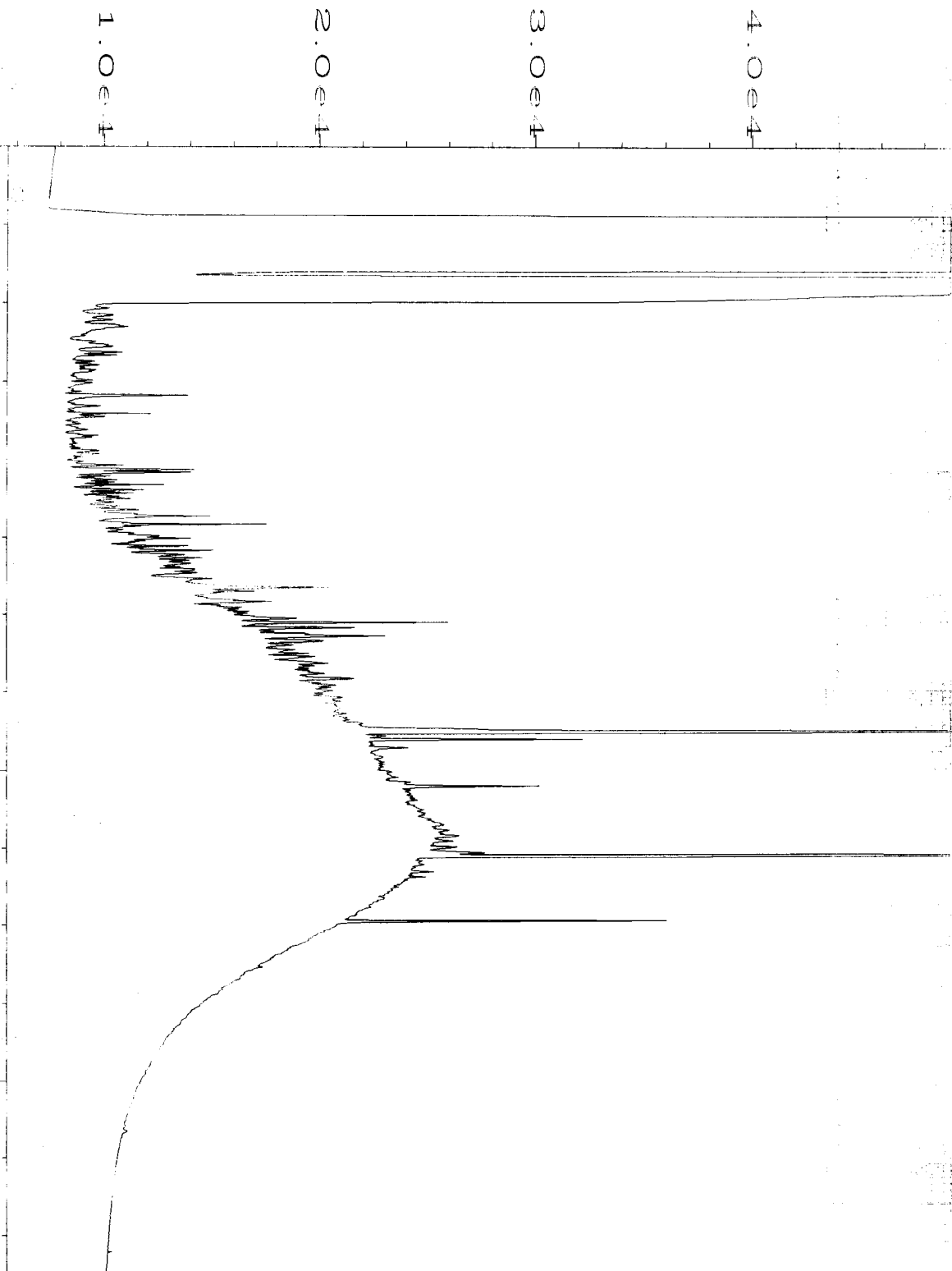
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 4.0e4
 5.0e4
 6.0e4
 7.0e4
 8.0e4
 9.0e4



Data File Name : C:\HPCHEM\1\DATA\05-20-16\015F0401.D
 Operator : mwdl
 Instrument : GC1
 Sample Name : 605345-02
 Run Time Bar Code:
 Acquired on : 20 May 16 11:35 AM
 Report Created on: 23 May 16 09:27 AM

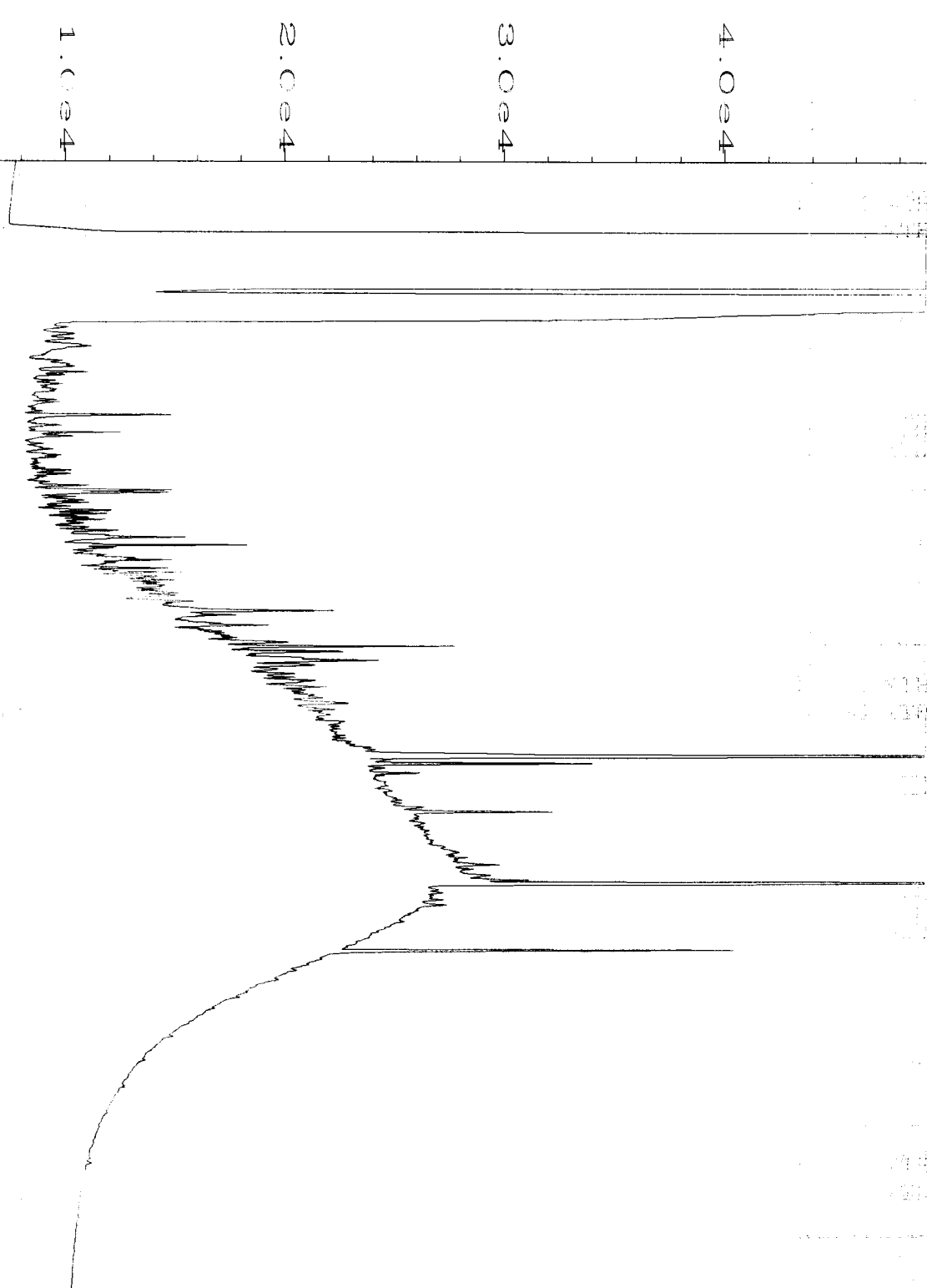
Page Number : 1
 Vial Number : 15
 Injection Number : 1
 Sequence Line : 4
 Instrument Method: DX.MTH
 Analysis Method : DX.MTH

Sample Name
 Run Time Bar Code
 Acquired on
 Report Created on
 Sample Name
 Run Time Bar Code
 Acquired on
 Report Created on
 Sample Name
 Run Time Bar Code
 Acquired on
 Report Created on



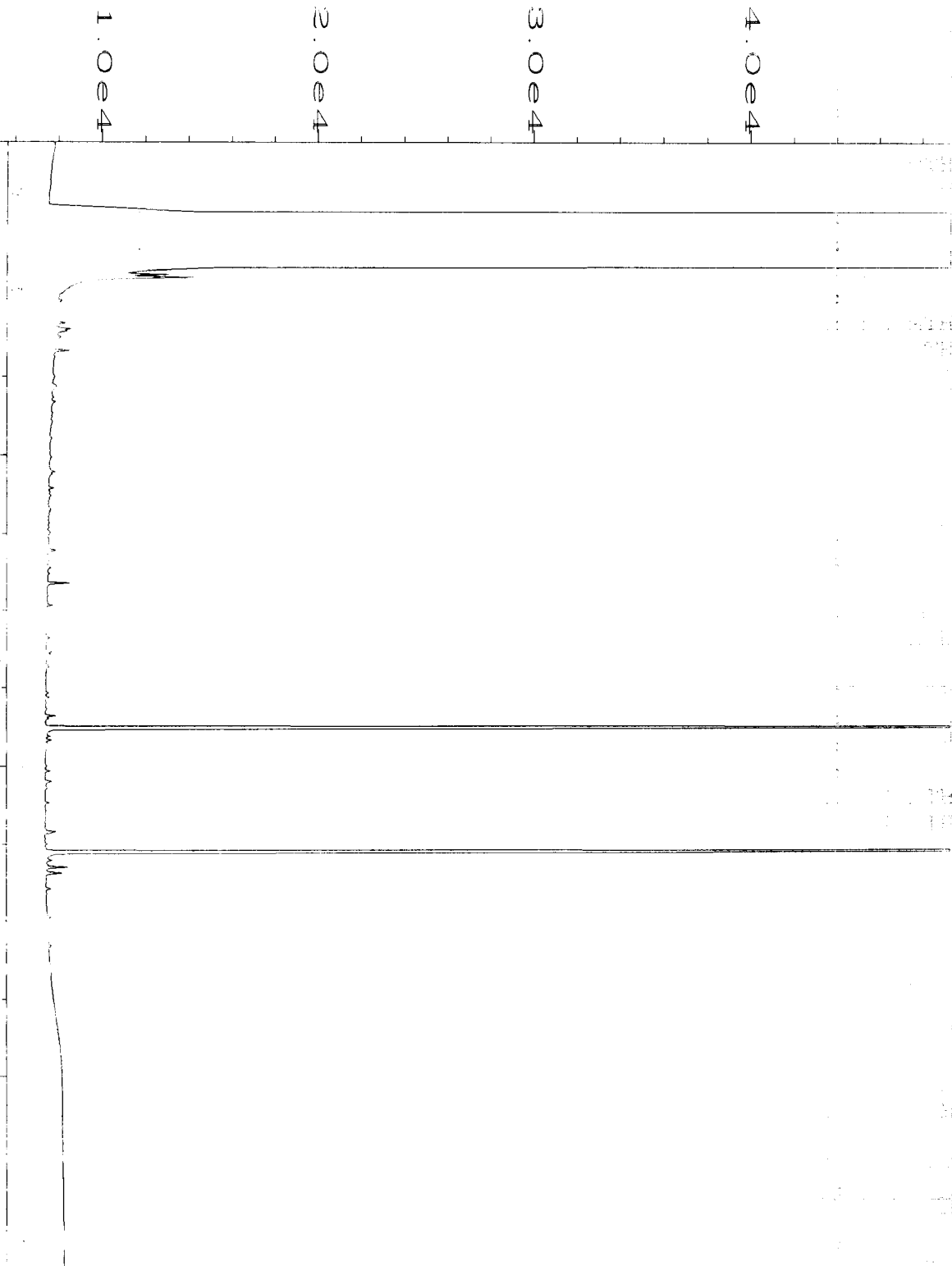
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Operator	: mwd1	Vial Number	: 16
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605345-03	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 May 16 11:46 AM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:27 AM		

Operator
 Instrument
 Sample Name
 Acquisition
 Report Created



Data File Name	: C:\HPCHEM\1\DATA\05-20-16\017F0401.D	Page Number	: 1
Operator	: mwd1	Vial Number	: 17
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605345-04	Sequence Line	: 4
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 20 May 16 11:57 AM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:27 AM		

Date: 05-20-16
 Time: 10:51 AM
 Sample Name: 06-1035 mb
 Run Time: 10:51 AM
 Acquired on: 20 May 16 10:51 AM
 Data File Name: C:\HPCHEM\1\DATA\05-20-16\011F0401.D
 Operator: mwdl
 Instrument: GC1
 Sample Name: 06-1035 mb
 Run Time Bar Code: 06-1035 mb
 Acquired on: 20 May 16 10:51 AM
 Report Created on: 23 May 16 09:28 AM



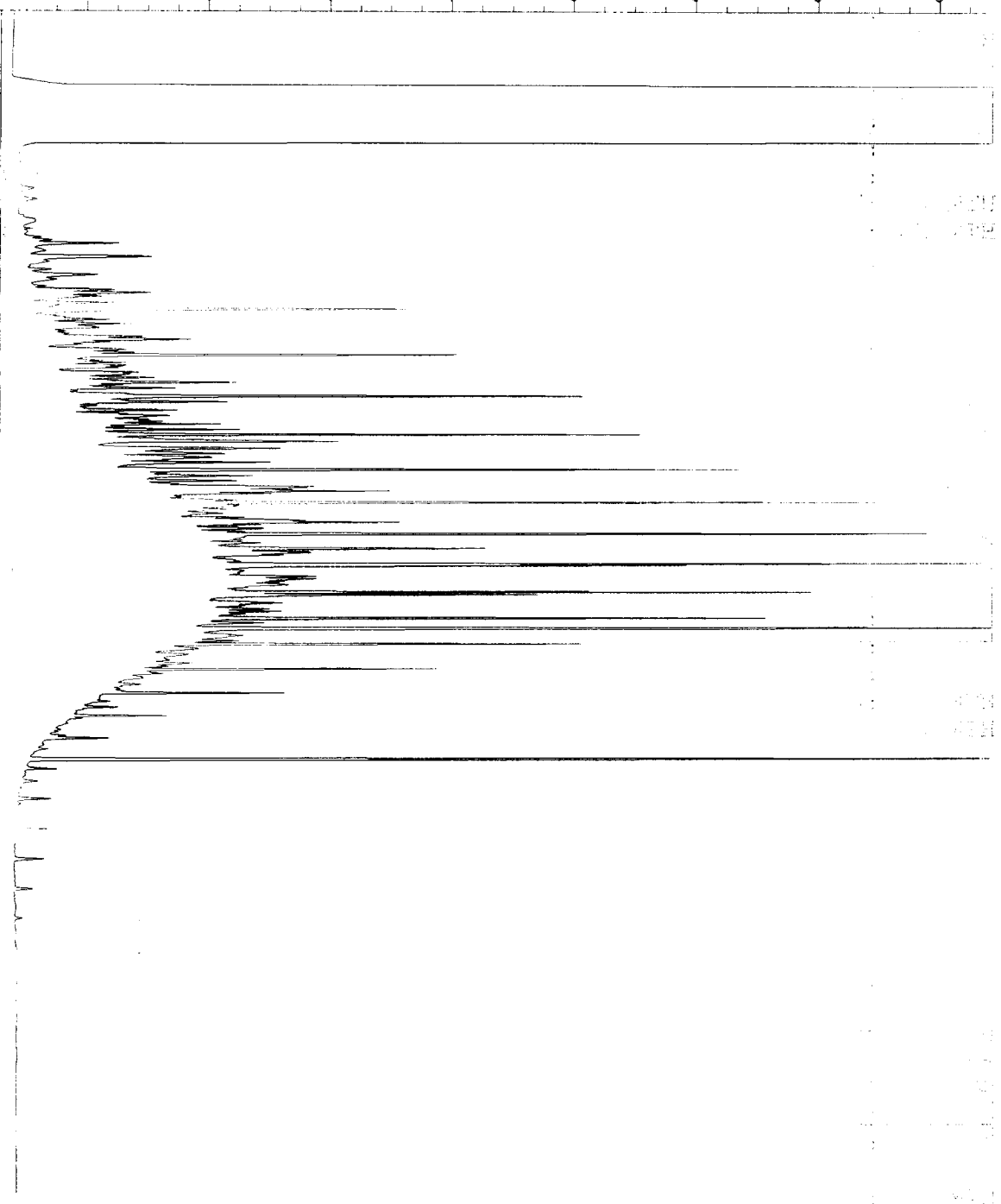
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Instrument	: GC1	Injection Number	: 1
Sample Name	: 06-1035 mb	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 May 16 10:51 AM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:28 AM		

1.6e5
1.4e5
1.2e5
1.0e5
8.0e4
6.0e4
4.0e4
2.0e4

Data File No.
Operator
Instrument
Sample Name
Run Time Bar
Acquired on
Report Created on

Data File No.
Operator
Instrument
Sample Name
Run Time Bar
Acquired on
Report Created on

Data File No.
Operator
Instrument
Sample Name
Run Time Bar
Acquired on
Report Created on



Data File Name	: C:\HPCHEM\1\DATA\05-20-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 20 May 16 06:51 AM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:28 AM		



Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

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Jun 2 2016
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Attention: MICHAEL ERDAHL

Dear MICHAEL ERDAHL:

Enclosed please find the analytical data for your 605345 project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
01MW63-20160518	Water	16-A009380	MET

Your sample was received on Thursday, May 19, 2016. At the time of receipt, the sample was logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to conact me.

Sincerely,


Aaron W. Young
Laboratory Manager

Project #: 605345
PO Number: D-991

BACT = Bacteriological
CONV = Conventional

MET = Metals
ORG = Organics

NUT=Nutrients
DEM=Demand

MIN=Minerals

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www.amtestlab.com



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ANALYSIS REPORT

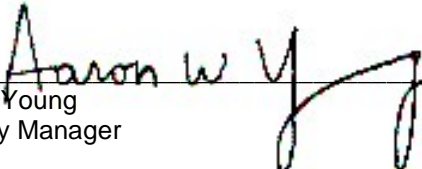
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Attention: MICHAEL ERDAHL
Project Name: 605345
Project #: 605345
PO Number: D-991
All results reported on an as received basis.

Date Received: 05/19/16
Date Reported: 6/ 2/16

AMTEST Identification Number 16-A009380
Client Identification 01MW63-20160518
Sampling Date 05/18/16, 14:48

Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ferrous Iron	2.56	mg/l		0.01	SM 3500Fe D	MJ	05/19/16


Aaron W. Young
Laboratory Manager

QC Summary for sample number: 16-A009380

MATRIX SPIKES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
16-A009383	Ferrous Iron	mg/l	0.09	0.58	0.50	98.00 %
16-A009383	Ferrous Iron	mg/l	0.09	0.58	0.50	98.00 %

MATRIX SPIKE DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE + SPK	MSD VALUE	RPD
Spike	Ferrous Iron	mg/l	0.58	0.58	0.00

STANDARD REFERENCE MATERIALS

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Ferrous Iron	mg/l	0.50	0.50	100. %

BLANKS

ANALYTE	UNITS	RESULT
Ferrous Iron	mg/l	< 0.01

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Send Report To Michael Erdahl

Company Friedman and Bruya, Inc.

Address 3012 16th Ave W

City, State, ZIP Seattle, WA 98119

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


SUBCONTRACTOR <i>Amtst</i>	
PROJECT NAME/NO. <i>605345</i>	PO # <i>D-991</i>
REMARKS Please Email Results	

Page # 1 of 1

TURNAROUND TIME
<input checked="" type="checkbox"/> Standard (2 Weeks)
<input type="checkbox"/> RUSH
Rush charges authorized by: _____
SAMPLE DISPOSAL
<input type="checkbox"/> Dispose after 30 days
<input type="checkbox"/> Return samples
<input type="checkbox"/> Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes	
						Total Fe	Hardness	Sulfate	Ferrous Iron Nitrate	Nitrite	Alkalinity	Sulfide	TKN	Total Phosphorus	Dissolved Gases		
01MW63-20160518	9380	5/18/16	1448	water	1				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	5/19/16	0738
Received by: <i>Rn</i>	<i>pedEx</i> <i>F=22</i>		5/19/16	930
Relinquished by:				
Received by:				

605345

SAMPLE CHAIN OF CUSTODY

~~605~~ 05/18/16

APR 14 2016 11:03 AM
Page # 1 of 1

Send Report To Tim Brown, cc: Jessica Brown, Jennifer Cyr, Pete Kingston, Courtney Schaumberg, Jonathan Loeffler

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) <i>Jonathan Loeffler</i>	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - ASKO Property	PO # 0440-004-41
REMARKS	EIM Y

TURNAROUND TIME <input checked="" type="checkbox"/> Standard (2 Weeks) RUSH _____ Rush charges authorized by: _____
SAMPLE DISPOSAL <input checked="" type="checkbox"/> Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPHORPH by NWTPH-Dx	cVOCs by EPA 8260C	Methane, Ethane, and Ethene by RSK 175	Sulfate, Nitrate, Nitrite, Total P, Hardness, and Alkalinity	Total Fe and Total Mn	Sulfide, TKN, and Fe 2+	Notes
01MW70-20160518	01MW70	—	01 ^A F	5/18/16	1258	H ₂ O	6	X	X	X	X					
01MW71-20160518	01MW71	—	01 ^A F	I	1346	I	6	X	X	X	X					
01MW63-20160518	01MW63	—	03 ^A N	I	1448	I	14	X	X	X	X	X	X	X	X	
F004-20160518	F004	—	04 ^A F	I	1518	I	6	X	X	X	X					
Samples received at <u>4</u> °C																

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: <i>Jonathan Loeffler</i>	JONATHAN LOEFFLER	SOUNDEARTH	5/18/16	1720
Received by: <i>Jen Shimazu</i>	Jen Shimazu	FB&T	I	I
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605370

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

June 15, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 19, 2016 from the TOC_01-600_20160519 WORFDB8, F&BI 605370 project. There are 15 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.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Jonathan Loeffler, Pete Kingston
SOU0615R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 19, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160519 WORFDB8, F&BI 605370 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
605370-01	01MW07-20160519

Sample 01MW07-20160519 was sent to Aquatic Research for sulfate, nitrate, nitrite, total phosphorus, hardness, alkalinity, TKN, and sulfide analyses. In addition, the sample was sent to Amtest for ferrous iron analysis. The report from Amtest is enclosed. The report from Aquatic Research will be forwarded upon receipt.

Methylene chloride was detected in the 8260C method blank. The results were flagged as due to laboratory contamination.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605370

Date Extracted: 05/20/16

Date Analyzed: 05/20/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
01MW07-20160519 605370-01	<1	<1	<1	<3	<100	89
Method Blank 06-1001 MB	<1	<1	<1	<3	<100	92

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605370

Date Extracted: 05/20/16

Date Analyzed: 05/20/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 47-140)
01MW07-20160519 605370-01	1,300 x	<250	108
Method Blank 06-1038 MB	<50	<250	122

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	01MW07-20160519	Client:	SoundEarth Strategies
Date Received:	05/19/16	Project:	TOC_01-600_20160519 WORFDB8
Date Extracted:	05/24/16	Lab ID:	605370-01
Date Analyzed:	06/08/16	Data File:	605370-01.030
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	5,990
Manganese	337

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	TOC_01-600_20160519 WORFDB8
Date Extracted:	05/24/16	Lab ID:	I6-331 mb
Date Analyzed:	05/25/16	Data File:	I6-331 mb.022
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
Iron	<50
Manganese	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW07-20160519	Client:	SoundEarth Strategies
Date Received:	05/19/16	Project:	TOC_01-600_20160519 WORFDB8
Date Extracted:	05/20/16	Lab ID:	605370-01
Date Analyzed:	05/20/16	Data File:	052036.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	1.2
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	4.1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	TOC_01-600_20160519 WORFDB8
Date Extracted:	05/20/16	Lab ID:	06-1020 mb
Date Analyzed:	05/20/16	Data File:	052032.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	104	63	127
4-Bromofluorobenzene	105	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	5.3 lc
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Gasses By RSK 175

Client Sample ID:	01MW07-20160519	Client:	SoundEarth Strategies
Date Received:	05/19/16	Project:	TOC_01-600_20160519 WORFDB8
Date Extracted:	05/24/16	Lab ID:	605370-01
Date Analyzed:	05/24/16	Data File:	012F1201.D
Matrix:	Water	Instrument:	GC8
Units:	ug/L (ppb)	Operator:	JS

Compounds:	Concentration ug/L (ppb)
Methane	54
Ethane	<10
Ethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Dissolved Gasses By RSK 175

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160519 WORFDB8
Date Extracted:	05/24/16	Lab ID:	06-1024 mb
Date Analyzed:	05/24/16	Data File:	005F0501.D
Matrix:	Water	Instrument:	GC8
Units:	ug/L (ppb)	Operator:	JS

Compounds:	Concentration ug/L (ppb)
Methane	<5
Ethane	<10
Ethene	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605370

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 605375-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	98	65-118
Toluene	ug/L (ppb)	50	100	72-122
Ethylbenzene	ug/L (ppb)	50	101	73-126
Xylenes	ug/L (ppb)	150	99	74-118
Gasoline	ug/L (ppb)	1,000	95	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605370

**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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	116	131	61-133	12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605370

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

Laboratory Code: 605386-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Iron	ug/L (ppb)	100	132	97	97	70-130	0
Manganese	ug/L (ppb)	20	5.08	106	105	70-130	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Iron	ug/L (ppb)	100	103	85-115
Manganese	ug/L (ppb)	20	109	85-115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605370

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

Laboratory Code: 605384-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	102	36-166
Chloroethane	ug/L (ppb)	50	<1	115	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	95	60-136
Methylene chloride	ug/L (ppb)	50	<5	103	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	99	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	101	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	93	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	97	60-146
Trichloroethene	ug/L (ppb)	50	<1	99	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	96	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	103	104	50-154	1
Chloroethane	ug/L (ppb)	50	115	116	58-146	1
1,1-Dichloroethene	ug/L (ppb)	50	93	95	67-136	2
Methylene chloride	ug/L (ppb)	50	100	99	39-148	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	100	100	68-128	0
1,1-Dichloroethane	ug/L (ppb)	50	99	100	79-121	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	101	103	80-123	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	91	91	73-132	0
1,1,1-Trichloroethane	ug/L (ppb)	50	97	97	83-130	0
Trichloroethene	ug/L (ppb)	50	99	100	80-120	1
Tetrachloroethene	ug/L (ppb)	50	95	96	76-121	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605370

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF
WATER SAMPLES FOR DISSOLVED GASSES
USING METHOD RSK 175**

Laboratory Code: 605407-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference (Limit 20)
Methane	ug/L (ppb)	117	97	19
Ethane	ug/L (ppb)	<10	<10	nm
Ethene	ug/L (ppb)	<10	<10	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Methane	ug/L (ppb)	59	81	80	50-150	1
Ethane	ug/L (ppb)	110	79	78	50-150	1
Ethene	ug/L (ppb)	102	93	98	50-150	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

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

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte is likely due to laboratory contamination.

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

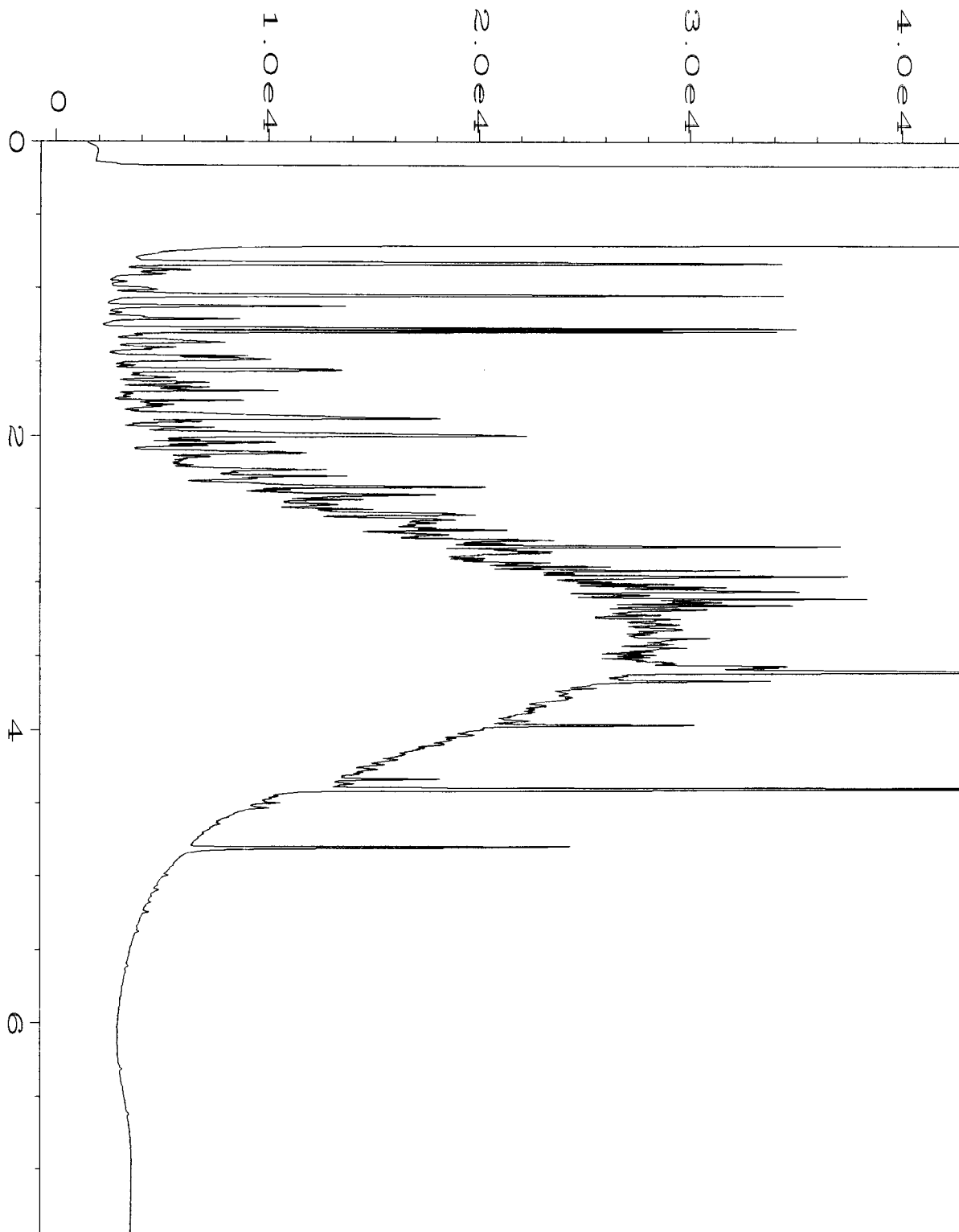
nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

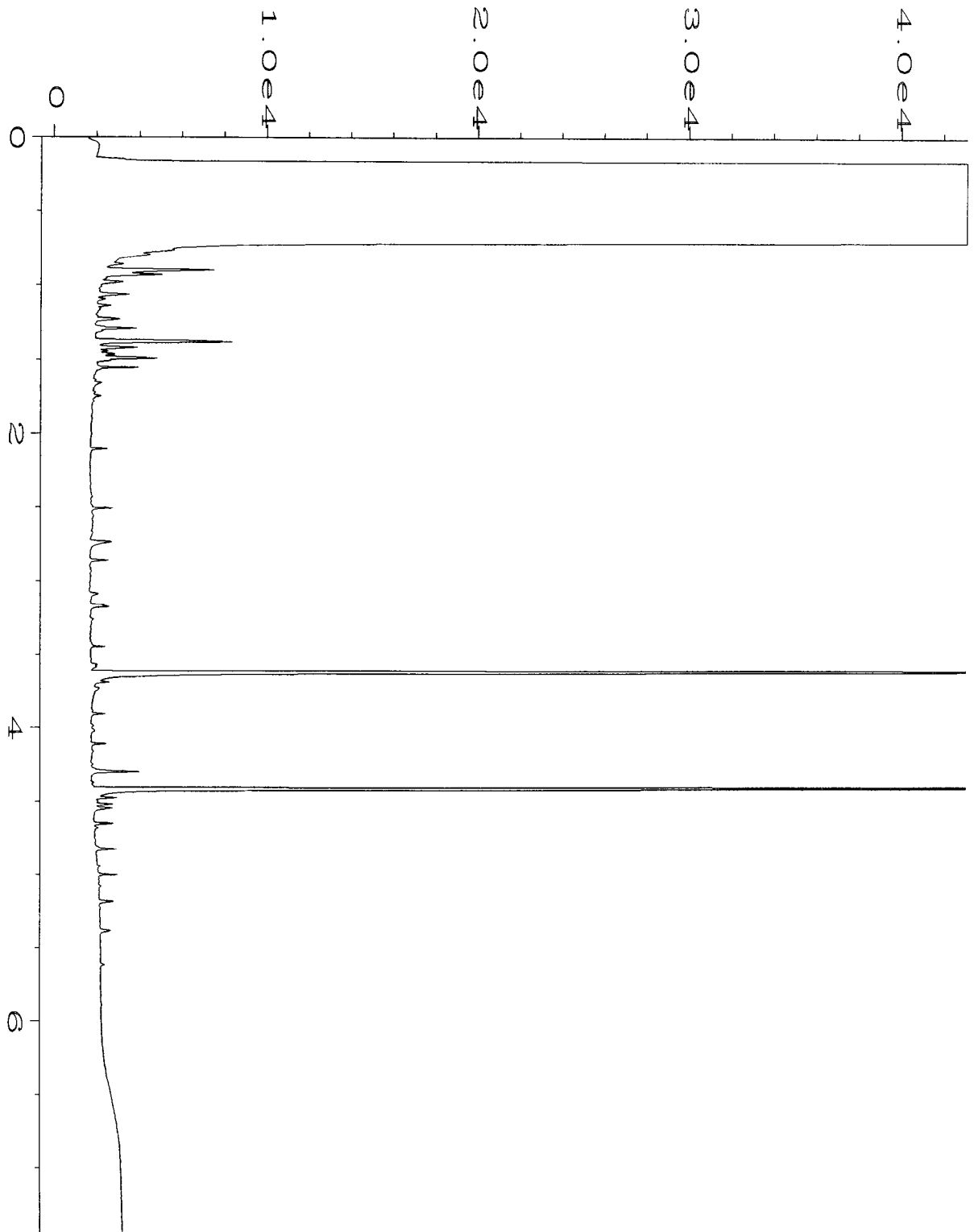
ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

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

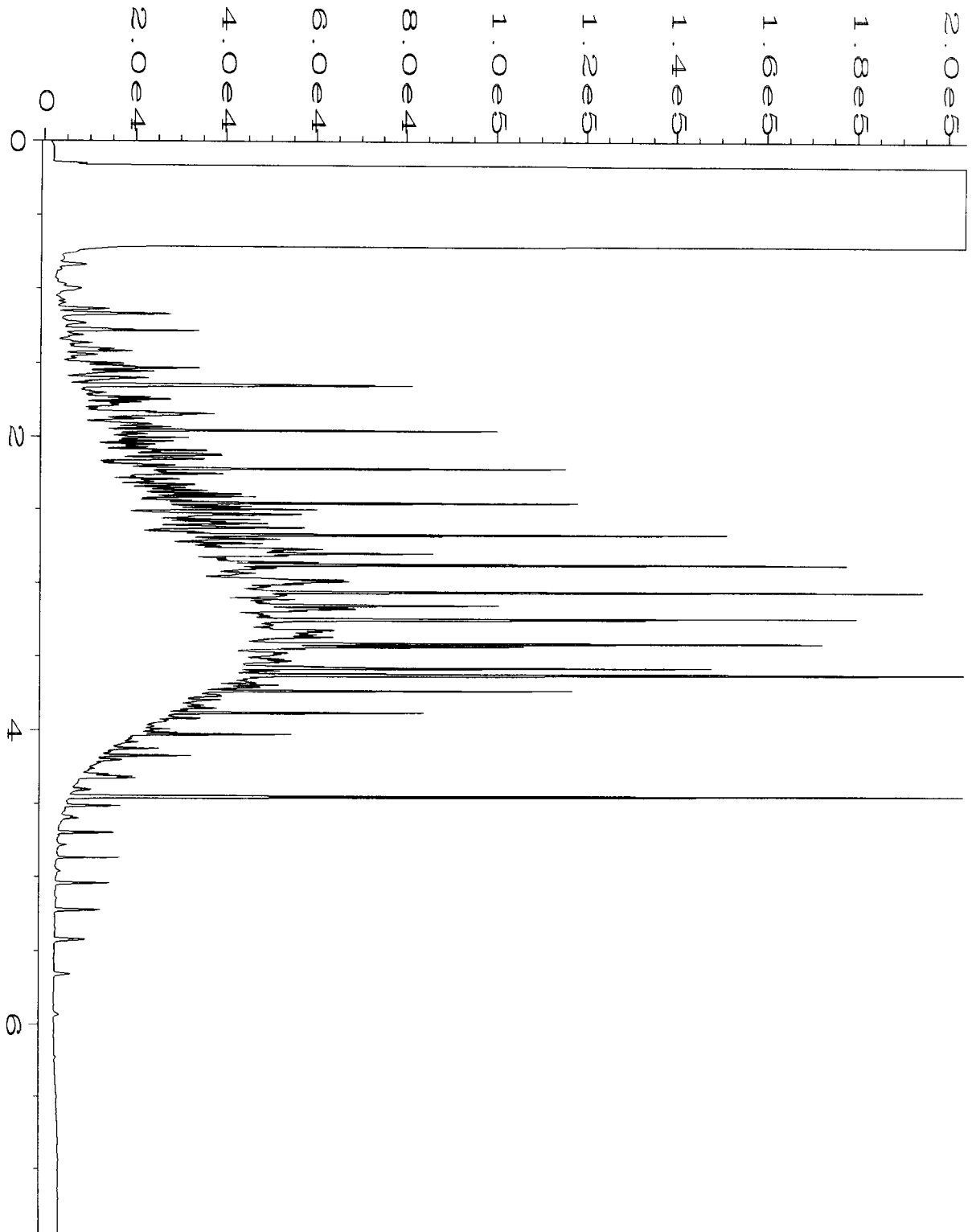
x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.



Data File Name	: C:\HPCHEM\4\DATA\05-20-16\038F0601.D	Page Number	: 1
Operator	: mwd1	Vial Number	: 38
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605370-01	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 May 16 05:44 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:22 AM		



Data File Name	: C:\HPCHEM\4\DATA\05-20-16\024F0401.D	Page Number	: 1
Operator	: mwd1	Vial Number	: 24
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-1038 mb	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 May 16 02:38 PM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:23 AM		



Data File Name	: C:\HPCHEM\4\DATA\05-20-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 May 16 06:54 AM	Analysis Method	: DX.MTH
Report Created on:	23 May 16 09:24 AM		



Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

*Professional
Analytical
Services*

Jun 2 2016
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Attention: MICHAEL ERDAHL

Dear MICHAEL ERDAHL:

Enclosed please find the analytical data for your 605370 project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
01MW07-20160519	Water	16-A009561	MET

Your sample was received on Friday, May 20, 2016. At the time of receipt, the sample was logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to conact me.

Sincerely,


Aaron W. Young
Laboratory Manager

Project #: 605370
PO Number: D-991

BACT = Bacteriological
CONV = Conventional

MET = Metals
ORG = Organics

NUT=Nutrients
DEM=Demand

MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com



Professional
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ANALYSIS REPORT

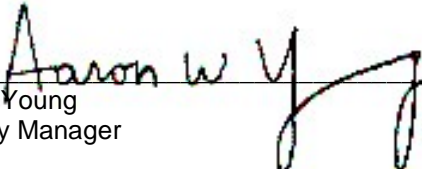
Friedman & Bruya, Inc.
3012 16th Avenue West
Seattle, WA 98119-2029
Attention: MICHAEL ERDAHL
Project Name: 605370
Project #: 605370
PO Number: D-991
All results reported on an as received basis.

Date Received: 05/20/16
Date Reported: 6/ 2/16

AMTEST Identification Number 16-A009561
Client Identification 01MW07-20160519
Sampling Date 05/19/16, 13:30

Conventionals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Ferrous Iron	5.27	mg/l		0.01	SM 3500Fe D	MJ	05/20/16


Aaron W. Young
Laboratory Manager

QC Summary for sample number: 16-A009561

MATRIX SPIKES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
16-A009561	Ferrous Iron	mg/l	5.27	15.2	10.0	99.30 %
16-A009561	Ferrous Iron	mg/l	5.27	15.4	10.0	101.30 %

MATRIX SPIKE DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE + SPK	MSD VALUE	RPD
Spike	Ferrous Iron	mg/l	15.2	15.4	1.3

STANDARD REFERENCE MATERIALS

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Ferrous Iron	mg/l	0.50	0.49	98.0 %

BLANKS

ANALYTE	UNITS	RESULT
Ferrous Iron	mg/l	< 0.01

SUBCONTRACT SAMPLE CHAIN OF CUSTODY

Send Report To Michael Erdahl
 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 <i>Amtest</i>	
PROJECT NAME/NO. <i>605370</i>	PO # <i>D-991</i>
REMARKS <i>Please Email Results</i>	

Page # 1 of 1

TURNAROUND TIME <input checked="" type="checkbox"/> Standard (2 Weeks) <input type="checkbox"/> RUSH Rush charges authorized by: _____
SAMPLE DISPOSAL <input type="checkbox"/> Dispose after 30 days <input type="checkbox"/> Return samples <input type="checkbox"/> Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes	
						Total Fe	Hardness	Sulfate	Fe as Iron Nitrate	Nitrite	Alkalinity	Sulfide	TKN	Total Phosphorus	Dissolved Gasses		
<i>G1MWO7-20160519</i>	<i>2561</i>	<i>5/14/16</i>	<i>1330</i>	<i>water</i>					<i>X</i>								

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
<i>[Signature]</i>	<i>Michael Erdahl</i>	<i>Friedman & Bruya</i>	<i>5/20/16</i>	<i>0735</i>
Relinquished by:				
Received by:				
Relinquished by:				
Received by: <i>CHA</i>	<i>Colin Harlow</i>	<i>Amtest</i>	<i>5/20/16</i>	<i>10:55</i>

Fedex

T=10.4

SAMPLE CHAIN OF CUSTODY

ME 05/19/16

1 of 123 ✓ D 03


605370

Send Report To Tim Brown, CC: Jessica Brown, Jennifer Cyr, Pete Kingston, Courtney Schaumberg, Jonathan Loeffler

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) 	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - ASKO Property	PO # 0440-004-41
REMARKS	EIM Y

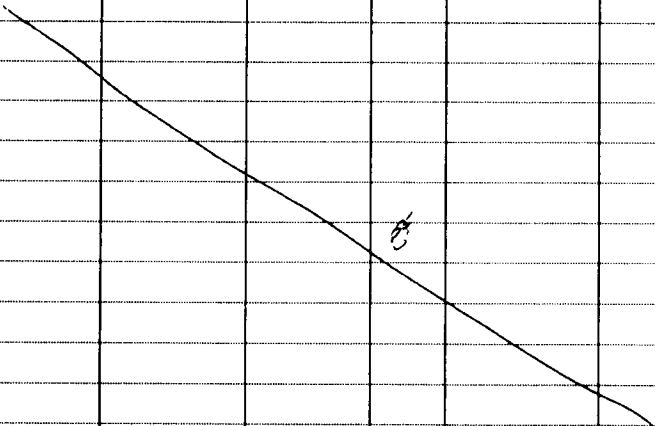
Page # 1 of 123

TURNAROUND TIME

Standard (2 Weeks)
RUSH _____
Rush charges authorized by: _____

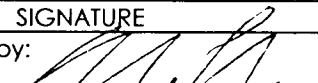
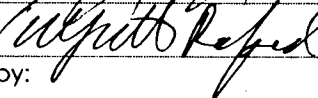
SAMPLE DISPOSAL

Dispose after 30 days
Return samples
Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs by EPA 8260C	Methane, Ethane, and Ethene by RSK 175	Sulfate, Nitrate, Nitrite, Total P, Hardness, and Alkalinity	Total Fe and Total Mn	Sulfide, TKN, and Fe 2+	Notes
01MWD7-20160519	01MWD7	25	01MWD	5/19/16	1330	H ₂ O	14	X	X	X	X	X	X	X	X	
																

Samples received at 3 °C

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: 	Liz Forbes	SES	5/19/16	1650
Received by: 	Elizabeth Radford	F&B	5/19/16	1650
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605372

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

May 27, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 19, 2016 from the TOC_01-600_20160519 WORFDB8, F&BI 605372 project. There are 9 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.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Pete Kingston, Jonathan Loeffler
SOU0527R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 19, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160519 WORFDB8, F&BI 605372 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
605372 -01

SoundEarth Strategies
01MW56-20160519

Methylene chloride was detected in the 8260C method blank. The data were flagged as due to laboratory contamination.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605372

Date Extracted: 05/20/16

Date Analyzed: 05/20/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 50-150)
01MW56-20160519 605372-01	<1	<1	<1	<3	<100	80
Method Blank 06-1002 MB	<1	<1	<1	<3	<100	80

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605372

Date Extracted: 05/23/16

Date Analyzed: 05/23/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 47-140)
01MW56-20160519 605372-01	1,300 x	<250	92
Method Blank 06-1042 MB	<50	<250	115

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW56-20160519	Client:	SoundEarth Strategies
Date Received:	05/19/16	Project:	TOC_01-600_20160519 WORFDB8
Date Extracted:	05/20/16	Lab ID:	605372-01
Date Analyzed:	05/20/16	Data File:	052039.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	103	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.64
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	NA	Project:	TOC_01-600_20160519 WORFDB8
Date Extracted:	05/20/16	Lab ID:	06-1020 mb
Date Analyzed:	05/20/16	Data File:	052032.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	57	121
Toluene-d8	104	63	127
4-Bromofluorobenzene	105	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	5.3 lc
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605372

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 605374-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	98	72-119
Toluene	ug/L (ppb)	50	103	71-113
Ethylbenzene	ug/L (ppb)	50	106	72-114
Xylenes	ug/L (ppb)	150	96	72-113
Gasoline	ug/L (ppb)	1,000	94	70-119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605372

**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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	113	112	61-133	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/27/16

Date Received: 05/19/16

Project: TOC_01-600_20160519 WORFDB8, F&BI 605372

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

Laboratory Code: 605384-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	102	36-166
Chloroethane	ug/L (ppb)	50	<1	115	46-160
1,1-Dichloroethene	ug/L (ppb)	50	<1	95	60-136
Methylene chloride	ug/L (ppb)	50	<5	103	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	99	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	101	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	93	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	97	60-146
Trichloroethene	ug/L (ppb)	50	<1	99	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	96	10-226

Laboratory Code: Laboratory Control Sample

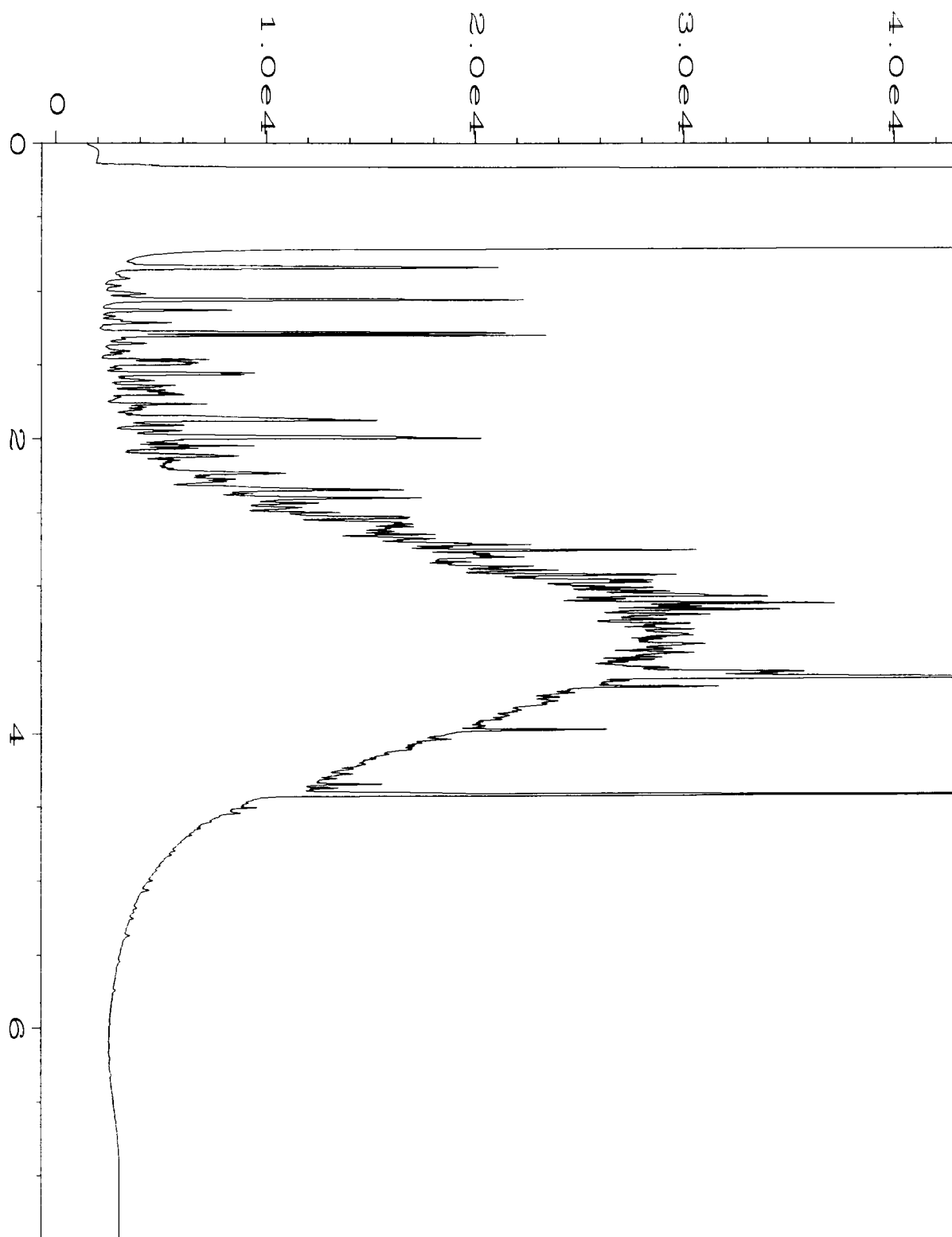
Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	103	104	50-154	1
Chloroethane	ug/L (ppb)	50	115	116	58-146	1
1,1-Dichloroethene	ug/L (ppb)	50	93	95	67-136	2
Methylene chloride	ug/L (ppb)	50	100	99	39-148	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	100	100	68-128	0
1,1-Dichloroethane	ug/L (ppb)	50	99	100	79-121	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	101	103	80-123	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	91	91	73-132	0
1,1,1-Trichloroethane	ug/L (ppb)	50	97	97	83-130	0
Trichloroethene	ug/L (ppb)	50	99	100	80-120	1
Tetrachloroethene	ug/L (ppb)	50	95	96	76-121	1

FRIEDMAN & BRUYA, INC.

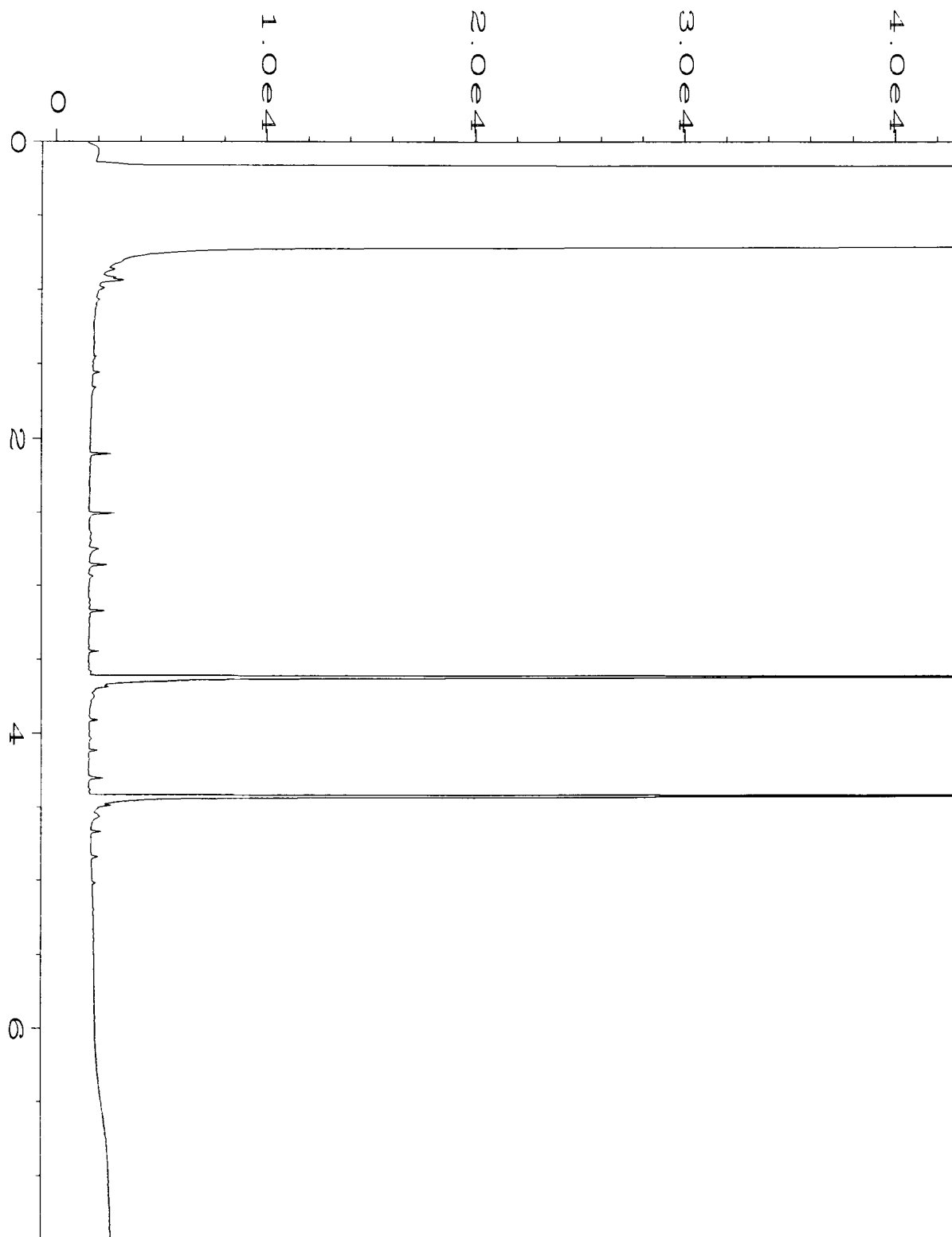
ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

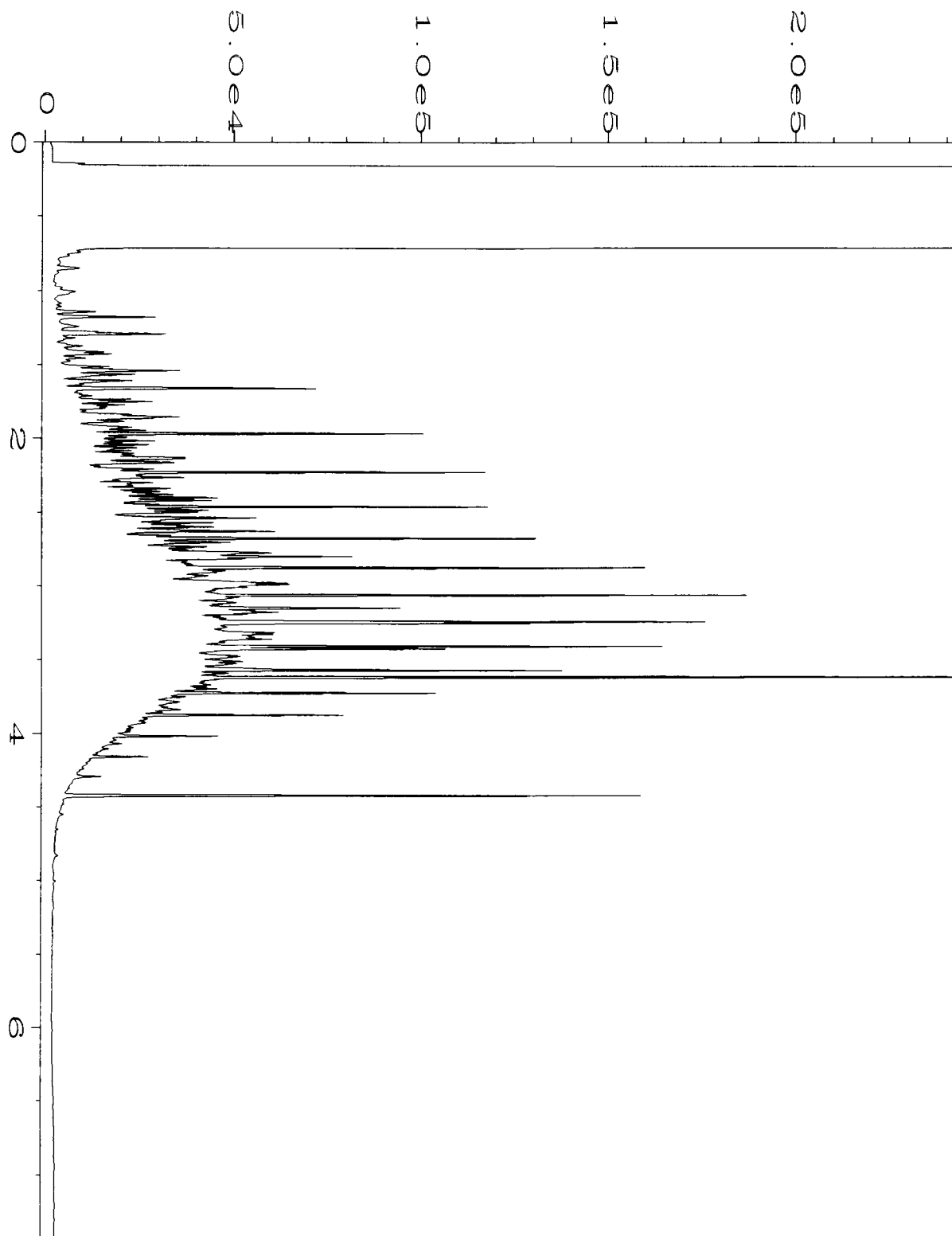
- a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.
- b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.
- ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- 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. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- 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.



Data File Name	: C:\HPCHEM\4\DATA\05-23-16\022F0601.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 22
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 605372-01	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 23 May 16 01:21 PM	Analysis Method	: DX.MTH
Report Created on:	24 May 16 01:17 PM		



Data File Name	: C:\HPCHEM\4\DATA\05-23-16\018F0601.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 18
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 06-1042 mb	Sequence Line	: 6
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 23 May 16 12:35 PM	Analysis Method	: DX.MTH
Report Created on:	24 May 16 01:17 PM		



Data File Name	: C:\HPCHEM\4\DATA\05-23-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 23 May 16 06:46 AM	Analysis Method	: DX.MTH
Report Created on:	24 May 16 01:17 PM		

SAMPLE CHAIN OF CUSTODY

ME 05/19/16

605377

Send Report To Jim Brown, cc: Jessica Brown, Jennifer Cyr, Pete Kingston, Courtney Schaumberg, Jonathan Loeffler

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) <i>Jonathan Loeffler</i>	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - ASKO Property	PO # 0440-004-41
REMARKS	EIM Y

Page # 1 of 1

TURNAROUND TIME DOB

Standard (2 Weeks)
RUSH _____
Rush charges authorized by: _____

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

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs by EPA 8260C	Methane, Ethane, and Ethene by RSK 175	Sulfate, Nitrate, Nitrite, Total P, Hardness, and Alkalinity	Total Fe and Total Mn	Sulfide, TKN, and Fe 2+	Notes
01MW56-20160519	01MW56	—	01A	5/19/16	1313	H2O	6	X	X	X	X					
<i>[Signature]</i> 5/19/16																
Samples received at <u>3</u> °C																

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: <i>Jonathan Loeffler</i>	JONATHAN LOEFFLER	SOUNDEARTH	5/19/16	1650
Received by: <i>Elizabeth Radford</i>	Elizabeth Radford	F&B	5/19/16	1650
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605508

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

June 7, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 26, 2016 from the TOC_01-600_20160526 WORFDB8, F&BI 605508 project. There are 9 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.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Pete Kingston, Jonathan Loeffler
SOU0607R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 26, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160526 WORFDB8, F&BI 605508 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
605508 -01

SoundEarth Strategies
01MW53-20160526

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/16

Date Received: 05/26/16

Project: TOC_01-600_20160526 WORFDB8, F&BI 605508

Date Extracted: 05/27/16

Date Analyzed: 05/27/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
01MW53-20160526 605508-01	<1	1.2	<1	<3	<100	95
Method Blank 06-1063 MB	<1	<1	<1	<3	<100	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/16

Date Received: 05/26/16

Project: TOC_01-600_20160526 WORFDB8, F&BI 605508

Date Extracted: 05/31/16

Date Analyzed: 05/31/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C ₁₀ -C ₂₅)	<u>Motor Oil Range</u> (C ₂₅ -C ₃₆)	<u>Surrogate</u> (% Recovery) (Limit 41-152)
01MW53-20160526 605508-01	520 x	<250	100
Method Blank 06-1104 MB	<50	<250	81

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW53-20160526	Client:	SoundEarth Strategies
Date Received:	05/26/16	Project:	TOC_01-600_20160526 WORFDB8
Date Extracted:	05/27/16	Lab ID:	605508-01
Date Analyzed:	05/27/16	Data File:	052715.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	57	121
Toluene-d8	104	63	127
4-Bromofluorobenzene	106	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.76
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	2.2
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160526 WORFDB8
Date Extracted:	05/27/16	Lab ID:	06-1080 mb
Date Analyzed:	05/27/16	Data File:	052708.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	105	63	127
4-Bromofluorobenzene	105	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/16

Date Received: 05/26/16

Project: TOC_01-600_20160526 WORFDB8, F&BI 605508

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 605506-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	93	65-118
Toluene	ug/L (ppb)	50	94	72-122
Ethylbenzene	ug/L (ppb)	50	95	73-126
Xylenes	ug/L (ppb)	150	94	74-118
Gasoline	ug/L (ppb)	1,000	95	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/16

Date Received: 05/26/16

Project: TOC_01-600_20160526 WORFDB8, F&BI 605508

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

Laboratory Code: 605535-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	<350	83	89	50-150	7

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	87	95	63-142	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/16

Date Received: 05/26/16

Project: TOC_01-600_20160526 WORFDB8, F&BI 605508

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

Laboratory Code: 605535-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	<0.2	95	98	36-166	3
Chloroethane	ug/L (ppb)	50	<1	107	112	46-160	5
1,1-Dichloroethene	ug/L (ppb)	50	<1	88	89	60-136	1
Methylene chloride	ug/L (ppb)	50	<5	100	105	67-132	5
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	93	95	72-129	2
1,1-Dichloroethane	ug/L (ppb)	50	<1	96	97	70-128	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	102	71-127	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	91	94	69-133	3
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	93	95	60-146	2
Trichloroethene	ug/L (ppb)	50	<1	95	98	66-135	3
Tetrachloroethene	ug/L (ppb)	50	<1	91	93	10-226	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	102	98	50-154	4
Chloroethane	ug/L (ppb)	50	117	109	58-146	7
1,1-Dichloroethene	ug/L (ppb)	50	95	90	67-136	5
Methylene chloride	ug/L (ppb)	50	106	100	39-148	6
trans-1,2-Dichloroethene	ug/L (ppb)	50	99	95	68-128	4
1,1-Dichloroethane	ug/L (ppb)	50	101	96	79-121	5
cis-1,2-Dichloroethene	ug/L (ppb)	50	104	98	80-123	6
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	94	90	73-132	4
1,1,1-Trichloroethane	ug/L (ppb)	50	99	94	83-130	5
Trichloroethene	ug/L (ppb)	50	100	97	80-120	3
Tetrachloroethene	ug/L (ppb)	50	96	92	76-121	4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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.
- 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 the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- 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. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- 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.

605508

SAMPLE CHAIN OF CUSTODY

ME 05/26/16 1 of 102/

Send Report To Tim Brown, cc: Jessica Brown, Jennifer Cyr, Pete Kingston, Courtney Schaumberg, Jonathan Loeffler

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) <i>Chris Cass</i>	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - ASKO Property	PO # 0440-004-41
REMARKS	EIM Y

Page # <u>1</u> of <u>102/</u>
TURNAROUND TIME Standard (2 Weeks) RUSH _____ Rush charges authorized by: _____
SAMPLE DISPOSAL <input checked="" type="checkbox"/> Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs by EPA 8260C	Methane, Ethane, and Ethene by RSK 175	Sulfate, Nitrate, Nitrite, Total P, Hardness, and Alkalinity	Total Fe and Total Mn	Sulfide, TKN, and Fe 2+	Notes	
01MW53-20160526/01W53		-	01A-F	05/26/16	1435	Water	6	X	X	X	X						
														Samples received at <u>3</u> °C			

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: <i>Chris Cass</i>	Chris Cass	SoundEarth	05/26/16	1535
Received by: <i>Elizabeth Radford</i>	Elizabeth Radford	F&B	5/26/16	3:35
Relinquished by:				
Received by:				

Friedman & Bruya, Inc. #605509

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

June 7, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on May 26, 2016 from the TOC_01-600_20160526 WORFDB8, F&BI 605509 project. There are 9 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.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Pete Kingston, Jonathan Loeffler
SOU0607R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on May 26, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160526 WORFDB8, F&BI 605509 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID
605509 -01

SoundEarth Strategies
01MW52-20160526

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/16

Date Received: 05/26/16

Project: TOC_01-600_20160526 WORFDB8, F&BI 605509

Date Extracted: 05/27/16

Date Analyzed: 05/27/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
01MW52-20160526 605509-01	<1	<1	<1	<3	<100	92
Method Blank 06-1063 MB	<1	<1	<1	<3	<100	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/16

Date Received: 05/26/16

Project: TOC_01-600_20160526 WORFDB8, F&BI 605509

Date Extracted: 05/31/16

Date Analyzed: 05/31/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 41-152)
01MW52-20160526 605509-01	<50	<250	91
Method Blank 06-1104 MB	<50	<250	81

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW52-20160526	Client:	SoundEarth Strategies
Date Received:	05/26/16	Project:	TOC_01-600_20160526 WORFDB8
Date Extracted:	05/27/16	Lab ID:	605509-01
Date Analyzed:	05/27/16	Data File:	052725.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	104	63	127
4-Bromofluorobenzene	106	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160526 WORFDB8
Date Extracted:	05/27/16	Lab ID:	06-1080 mb
Date Analyzed:	05/27/16	Data File:	052708.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	105	63	127
4-Brom ofluorobenzene	105	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/16

Date Received: 05/26/16

Project: TOC_01-600_20160526 WORFDB8, F&BI 605509

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 605506-02 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	93	65-118
Toluene	ug/L (ppb)	50	94	72-122
Ethylbenzene	ug/L (ppb)	50	95	73-126
Xylenes	ug/L (ppb)	150	94	74-118
Gasoline	ug/L (ppb)	1,000	95	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/16

Date Received: 05/26/16

Project: TOC_01-600_20160526 WORFDB8, F&BI 605509

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

Laboratory Code: 605535-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	<350	83	89	50-150	7

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	87	95	63-142	9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/07/16

Date Received: 05/26/16

Project: TOC_01-600_20160526 WORFDB8, F&BI 605509

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

Laboratory Code: 605535-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	<0.2	95	98	36-166	3
Chloroethane	ug/L (ppb)	50	<1	107	112	46-160	5
1,1-Dichloroethene	ug/L (ppb)	50	<1	88	89	60-136	1
Methylene chloride	ug/L (ppb)	50	<5	100	105	67-132	5
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	93	95	72-129	2
1,1-Dichloroethane	ug/L (ppb)	50	<1	96	97	70-128	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	99	102	71-127	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	91	94	69-133	3
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	93	95	60-146	2
Trichloroethene	ug/L (ppb)	50	<1	95	98	66-135	3
Tetrachloroethene	ug/L (ppb)	50	<1	91	93	10-226	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	102	98	50-154	4
Chloroethane	ug/L (ppb)	50	117	109	58-146	7
1,1-Dichloroethene	ug/L (ppb)	50	95	90	67-136	5
Methylene chloride	ug/L (ppb)	50	106	100	39-148	6
trans-1,2-Dichloroethene	ug/L (ppb)	50	99	95	68-128	4
1,1-Dichloroethane	ug/L (ppb)	50	101	96	79-121	5
cis-1,2-Dichloroethene	ug/L (ppb)	50	104	98	80-123	6
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	94	90	73-132	4
1,1,1-Trichloroethane	ug/L (ppb)	50	99	94	83-130	5
Trichloroethene	ug/L (ppb)	50	100	97	80-120	3
Tetrachloroethene	ug/L (ppb)	50	96	92	76-121	4

FRIEDMAN & BRUYA, INC.

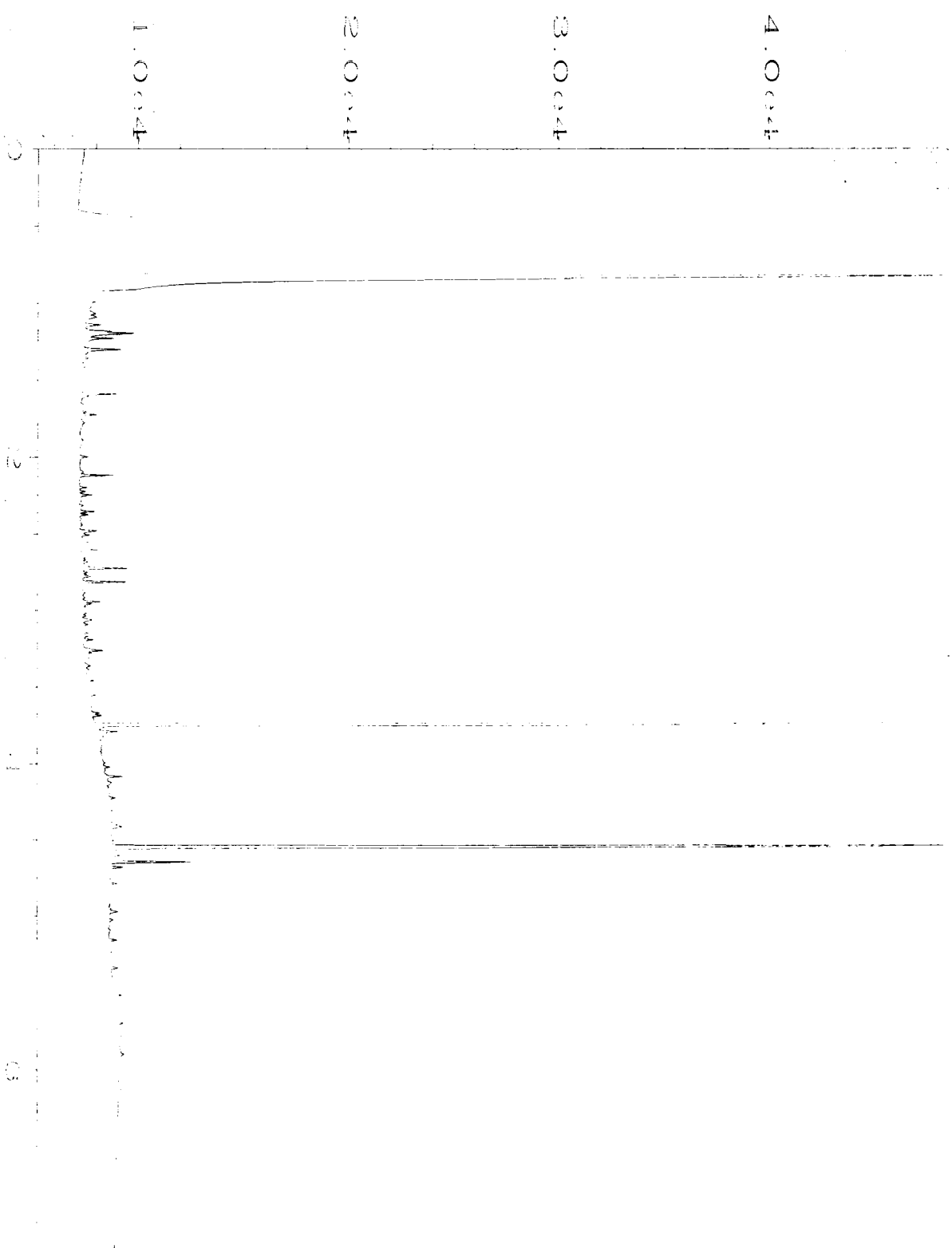
ENVIRONMENTAL CHEMISTS

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.
- 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 the analyte were outside of acceptance criteria. The value reported is an estimate.
- c - The presence of the analyte may be due to carryover from previous sample injections.
- cf - The sample was centrifuged prior to analysis.
- d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.
- dv - Insufficient sample volume was available to achieve normal reporting limits.
- f - The sample was laboratory filtered prior to analysis.
- fb - The analyte was detected in the method blank.
- 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. Variability is attributed to sample inhomogeneity.
- hs - Headspace was present in the container used for analysis.
- ht - The analysis was performed outside the method or client-specified holding time requirement.
- ip - Recovery fell outside of control limits. Compounds in the sample matrix interfered with the quantitation of the analyte.
- j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte 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 with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.
- ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.
- 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.

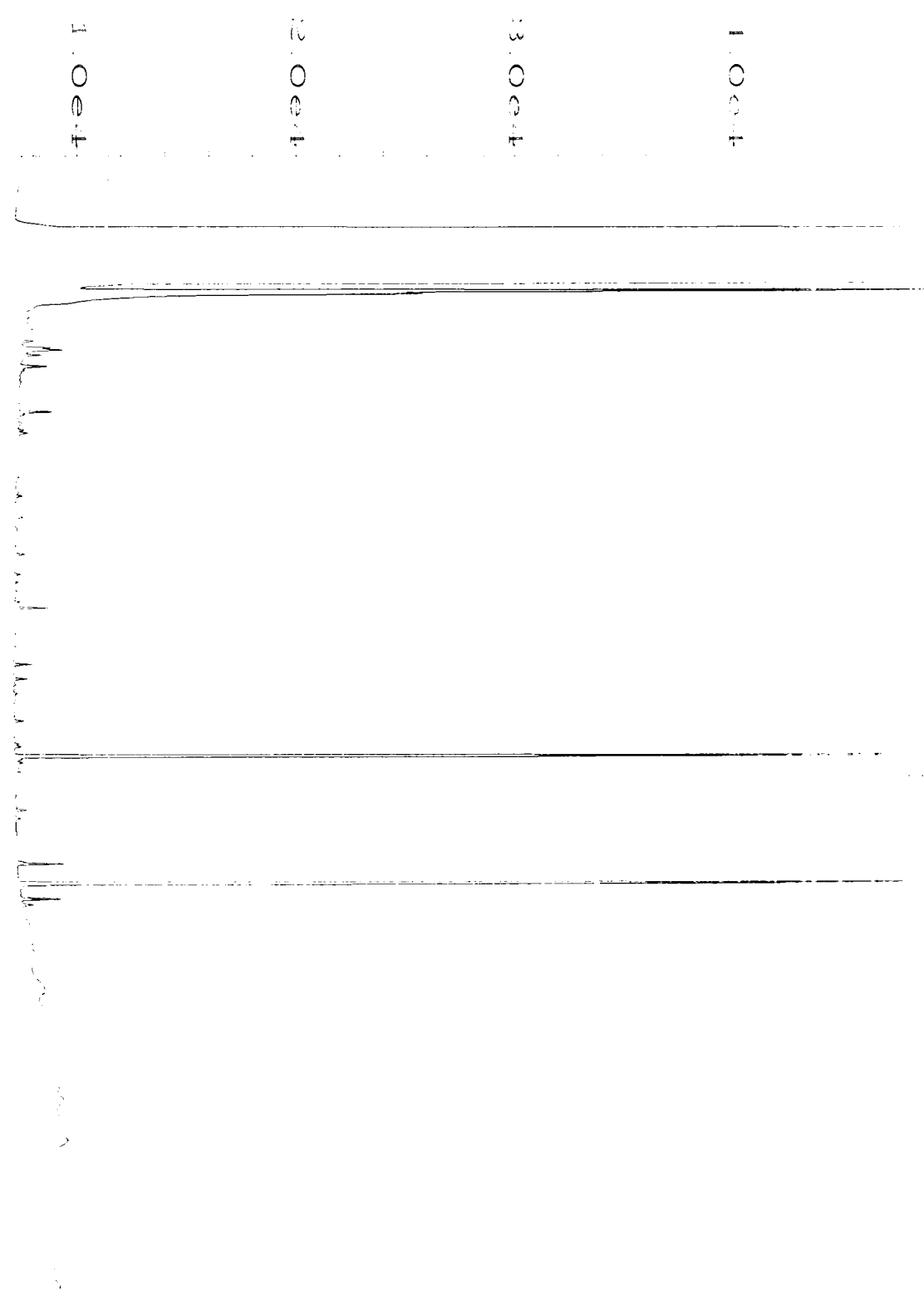
Sample Name: 605509-01
Injection Number: 1
Sequence Line: 3
Instrument Method: DX.MTL
Analysis Method: DX.MTL

Page Number: 1
Vial Number: 55



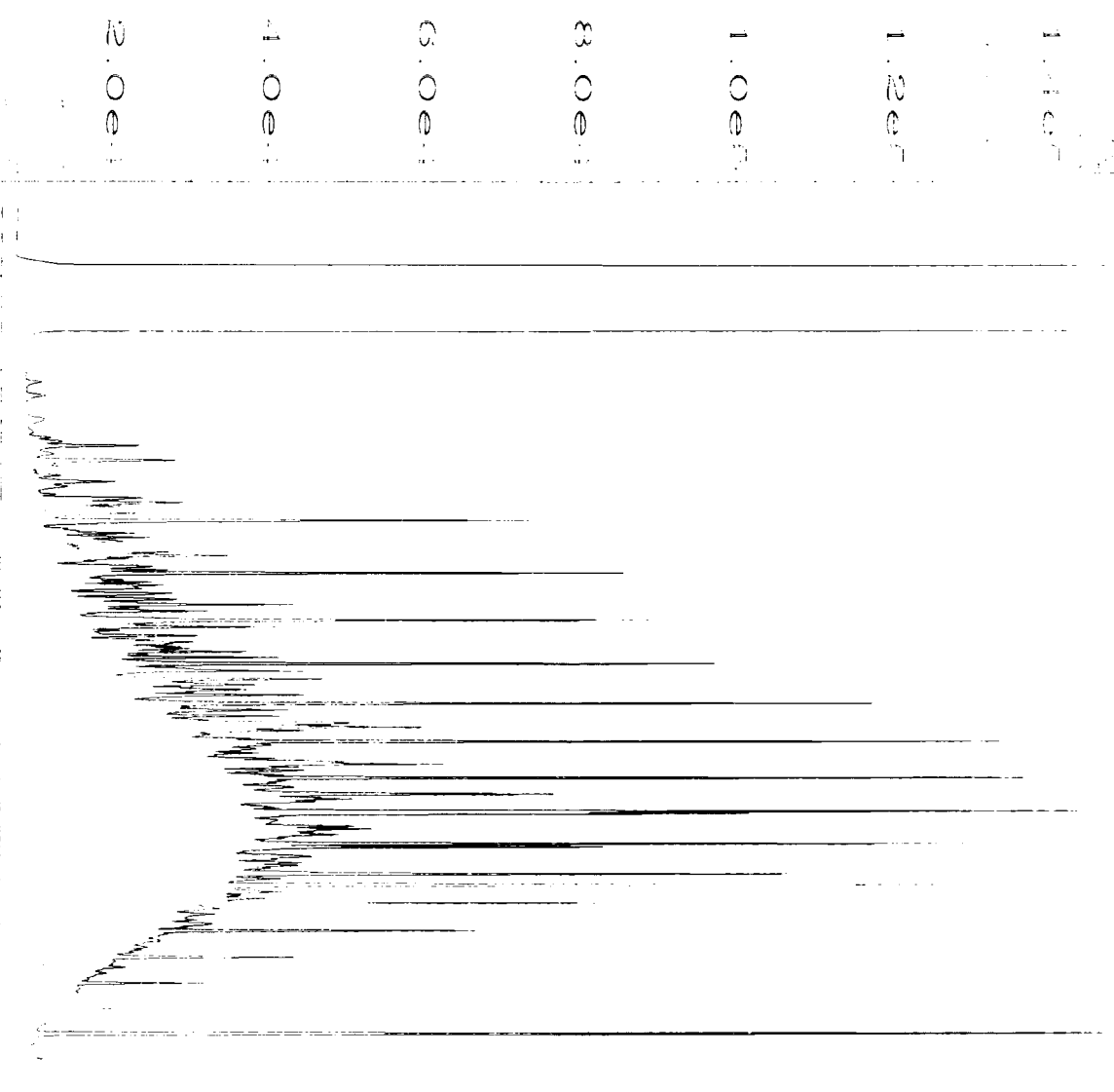
Data File Name	: C:\HPCHEM\1\DATA\05-31-16\055F0801.D	Page Number	: 1
Operator	: mwdi	Vial Number	: 55
Instrument	: GC1	Injection Number	: 1
Sample Name	: 605509-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTL
Required on	: 31 May 16 07:20 PM	Analysis Method	: DX.MTL
Report Created on:	01 Jun 16 11:52 AM		

1.00e+1
2.00e+1
3.00e+1
4.00e+1
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9.70e+2
9.80e+2
9.90e+2
1.00e+3



File Name : C:\HPCHEM\1\DATA\05-31-16\045F0801.D
Operator : mwdl
Instrument : GC1
Sample Name : 06-1104 mb
Run Time Bar Code:
Acquired on : 31 May 16 05:27 PM
Report Created on: 01 Jun 16 11:52 AM
Page Number : 1
Vial Number : 45
Injection Number : 1
Sequence Line : 8
Instrument Method: DX.MT
Analysis Method : DX.MT

Report
Date: 06/01/16
Time: 11:52 AM
Operator: mwdl
Sample Name: 500 Dx 45-182D
Injection Number: 1
Vial Number: 3
Instrument: GC1
Method: DX.METHOD



Data File Name	: C:\HPCHEM\1\DATA\05-31-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	: DX.METHOD
Acquired on	: 31 May 16 06:29 AM	Analysis Method	: DX.METHOD
Report Created on:	: 01 Jun 16 11:52 AM		

605509

SAMPLE CHAIN OF CUSTODY

ME 5126116

Page # 1 of 1 VI/DOY

Send Report To Tim Brown, cc: Jessica Brown, Jennifer Cyr, Pete Kingston, Courtney Schaumberg, Jonathan Loeffler

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) <i>[Signature]</i>	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - ASKO Property	PO # 0440-004-41
REMARKS	EIM Y

TURNAROUND TIME
<input checked="" type="checkbox"/> Standard (2 Weeks) RUSH _____ Rush charges authorized by:
SAMPLE DISPOSAL <input checked="" type="checkbox"/> Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs by EPA 8260C	Methane, Ethane, and Ethene by RSK 175	Sulfate, Nitrate, Nitrite, Total P, Hardness, and Alkalinity	Total Fe and Total Mn	Sulfide, TKN, and Fe 2+	Notes
01MW52-20160526	01MW52	—	01F	5/26/16	1420	H ₂ O	6	X	X	X	X					
<i>[Signature]</i> 5/26/16																

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: <i>[Signature]</i>	JONATHAN LOEFFLER	SOUNDEARTH	5/26/16	1535
Received by: <i>[Signature]</i>	Elizabeth Radford	F&B	5/26/16	3:35
Relinquished by:				
Received by:		Samples received at	3 °C	

Friedman & Bruya, Inc. #606161

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

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

June 15, 2016

Tim Brown, Project Manager
SoundEarth Strategies
2811 Fairview Ave. East, Suite 2000
Seattle, WA 98102

Dear Mr. Brown:

Included are the results from the testing of material submitted on June 9, 2016 from the TOC_01-600_20160609 WORFDB8, F&BI 606161 project. There are 10 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.



Michael Erdahl
Project Manager

Enclosures

c: Jessica Brown, Courtney Schaumberg, Jennifer Cyr, Pete Kingston, Jonathan Loeffler
SOU0615R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on June 9, 2016 by Friedman & Bruya, Inc. from the SoundEarth Strategies TOC_01-600_20160609 WORFDB8, F&BI 606161 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>SoundEarth Strategies</u>
606161-01	MW06-20160609
606161 -02	01MW46-20160609

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 06/09/16

Project: TOC_01-600_20160609 WORFDB8, F&BI 606161

Date Extracted: 06/09/16

Date Analyzed: 06/09/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES AND TPH AS GASOLINE
USING METHODS 8021B AND NWTPH-Gx**

Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Total Xylenes</u>	<u>Gasoline Range</u>	<u>Surrogate (% Recovery)</u> (Limit 52-124)
MW06-20160609 606161-01	1.5	<1	<1	<3	<100	90
01MW46-20160609 606161-02	8.4	<1	<1	<3	<100	92
Method Blank 06-1131 MB	<1	<1	<1	<3	<100	90

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 06/09/16

Project: TOC_01-600_20160609 WORFDB8, F&BI 606161

Date Extracted: 06/10/16

Date Analyzed: 06/10/16

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported as ug/L (ppb)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 41-152)
MW06-20160609 606161-01	160 x	<250	90
01MW46-20160609 606161-02	240 x	<250	93
Method Blank 06-1167 MB	<50	<250	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW06-20160609	Client:	SoundEarth Strategies
Date Received:	06/09/16	Project:	TOC_01-600_20160609 WORFDB8
Date Extracted:	06/09/16	Lab ID:	606161-01
Date Analyzed:	06/09/16	Data File:	060912.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	57	121
Toluene-d8	107	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.6
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	11
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	22
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	01MW46-20160609	Client:	SoundEarth Strategies
Date Received:	06/09/16	Project:	TOC_01-600_20160609 WORFDB8
Date Extracted:	06/09/16	Lab ID:	606161-02
Date Analyzed:	06/09/16	Data File:	060913.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	57	121
Toluene-d8	110	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	11
Chloroethane	<1
1,1-Dichloroethene	2.8
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	120
1,2-Dichloroethane (EDC)	1.3
1,1,1-Trichloroethane	<1
Trichloroethene	97
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	SoundEarth Strategies
Date Received:	Not Applicable	Project:	TOC_01-600_20160609 WORFDB8
Date Extracted:	06/09/16	Lab ID:	06-1098 mb
Date Analyzed:	06/09/16	Data File:	060910.D
Matrix:	Water	Instrument:	GCMS4
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	57	121
Toluene-d8	112	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2
Chloroethane	<1
1,1-Dichloroethene	<1
Methylene chloride	<5
trans-1,2-Dichloroethene	<1
1,1-Dichloroethane	<1
cis-1,2-Dichloroethene	<1
1,2-Dichloroethane (EDC)	<1
1,1,1-Trichloroethane	<1
Trichloroethene	<1
Tetrachloroethene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 06/09/16

Project: TOC_01-600_20160609 WORFDB8, F&BI 606161

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER
SAMPLES FOR BENZENE, TOLUENE, ETHYLBENZENE,
XYLENES, AND TPH AS GASOLINE
USING EPA METHOD 8021B AND NWTPH-Gx**

Laboratory Code: 606156-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Benzene	ug/L (ppb)	<1	<1	nm
Toluene	ug/L (ppb)	<1	<1	nm
Ethylbenzene	ug/L (ppb)	<1	<1	nm
Xylenes	ug/L (ppb)	<3	<3	nm
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	
			Recovery LCS	Acceptance Criteria
Benzene	ug/L (ppb)	50	93	65-118
Toluene	ug/L (ppb)	50	94	72-122
Ethylbenzene	ug/L (ppb)	50	95	73-126
Xylenes	ug/L (ppb)	150	94	74-118
Gasoline	ug/L (ppb)	1,000	98	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 06/09/16

Project: TOC_01-600_20160609 WORFDB8, F&BI 606161

**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

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	99	106	63-142	7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 06/15/16

Date Received: 06/09/16

Project: TOC_01-600_20160609 WORFDB8, F&BI 606161

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

Laboratory Code: 606161-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	11	125 b	36-166
Chloroethane	ug/L (ppb)	50	<1	136	46-160
1,1-Dichloroethene	ug/L (ppb)	50	2.8	110	60-136
Methylene chloride	ug/L (ppb)	50	<5	121	67-132
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	114	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	110	70-128
cis-1,2-Dichloroethene	ug/L (ppb)	50	120	111 b	71-127
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	1.3	101	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	107	60-146
Trichloroethene	ug/L (ppb)	50	97	107 b	66-135
Tetrachloroethene	ug/L (ppb)	50	<1	95	10-226

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	50	122	116	50-154	5
Chloroethane	ug/L (ppb)	50	132	131	58-146	1
1,1-Dichloroethene	ug/L (ppb)	50	107	107	67-136	0
Methylene chloride	ug/L (ppb)	50	114	115	39-148	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	111	111	68-128	0
1,1-Dichloroethane	ug/L (ppb)	50	108	109	79-121	1
cis-1,2-Dichloroethene	ug/L (ppb)	50	112	114	80-123	2
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	100	102	73-132	2
1,1,1-Trichloroethane	ug/L (ppb)	50	107	108	83-130	1
Trichloroethene	ug/L (ppb)	50	107	110	80-120	3
Tetrachloroethene	ug/L (ppb)	50	94	94	76-121	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.

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 the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

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. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

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

j - The analyte concentration is reported below the lowest calibration standard. 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 laboratory control sample(s) percent recovery and/or RPD were 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 analyte 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.

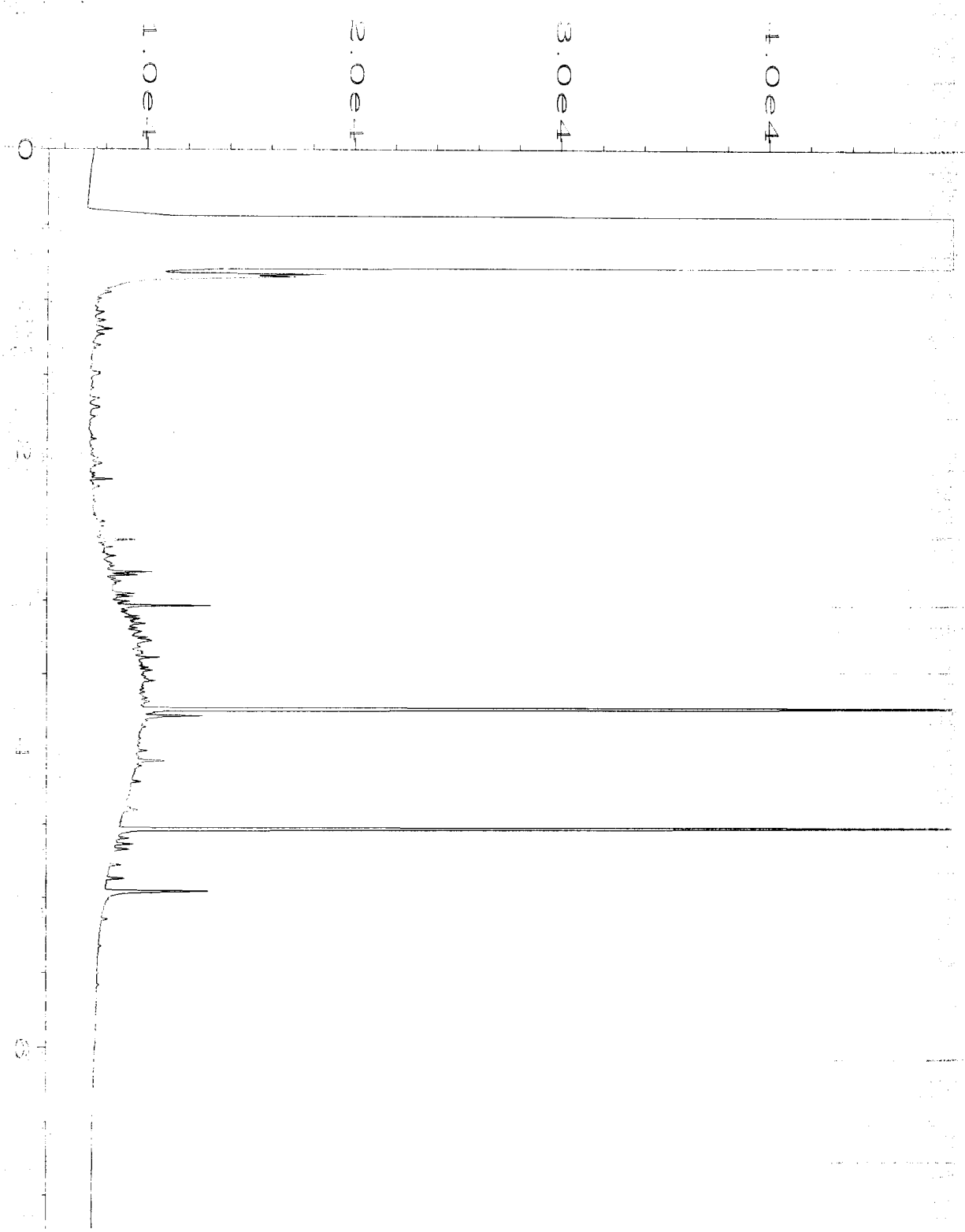
pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

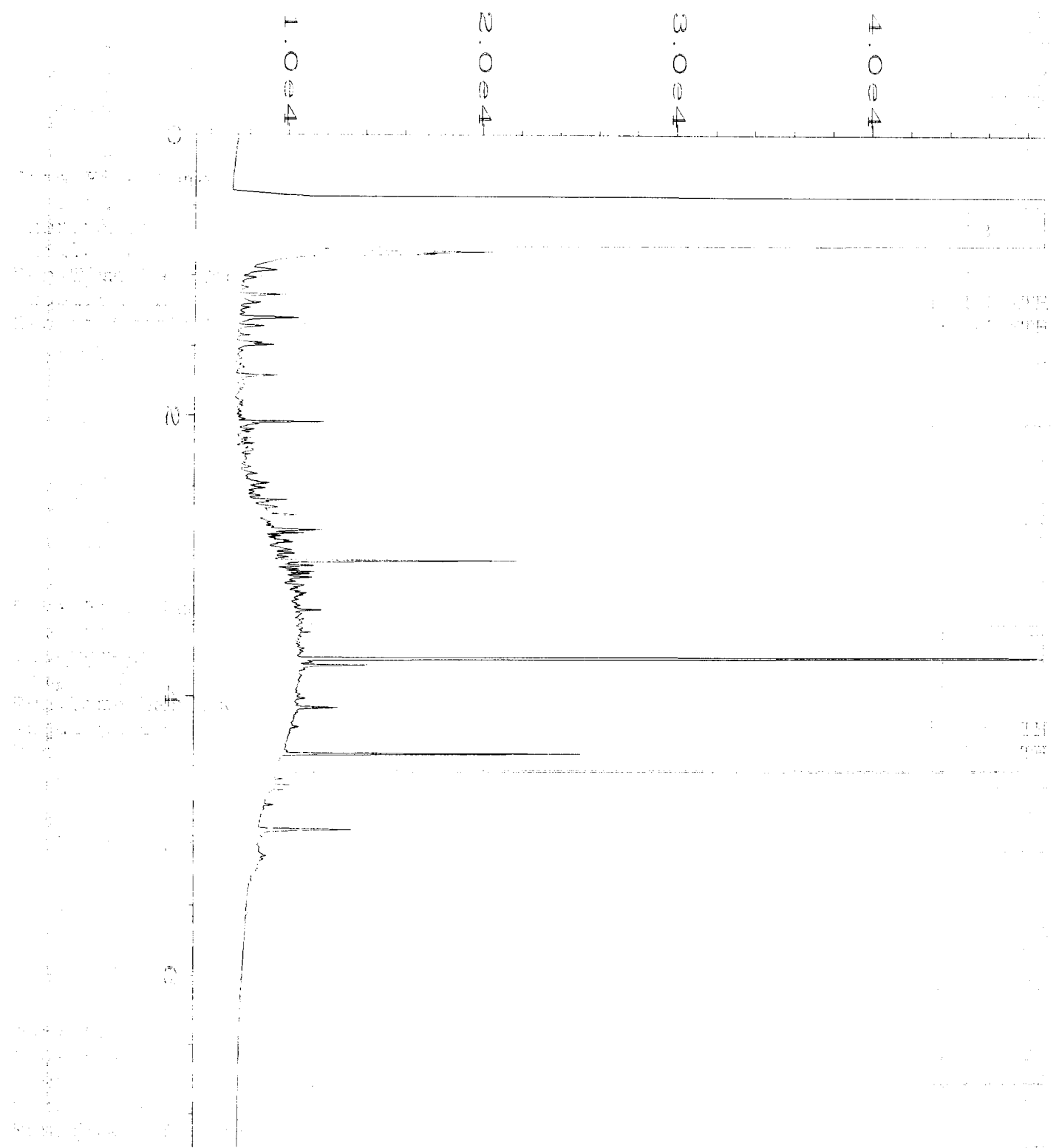
vo - The value reported fell outside the control limits established for this analyte.

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

033F0701.D
10 Jun 16 03:23 PM
mwdl
GC1
606161-01
DX.MTH
DX.MTH

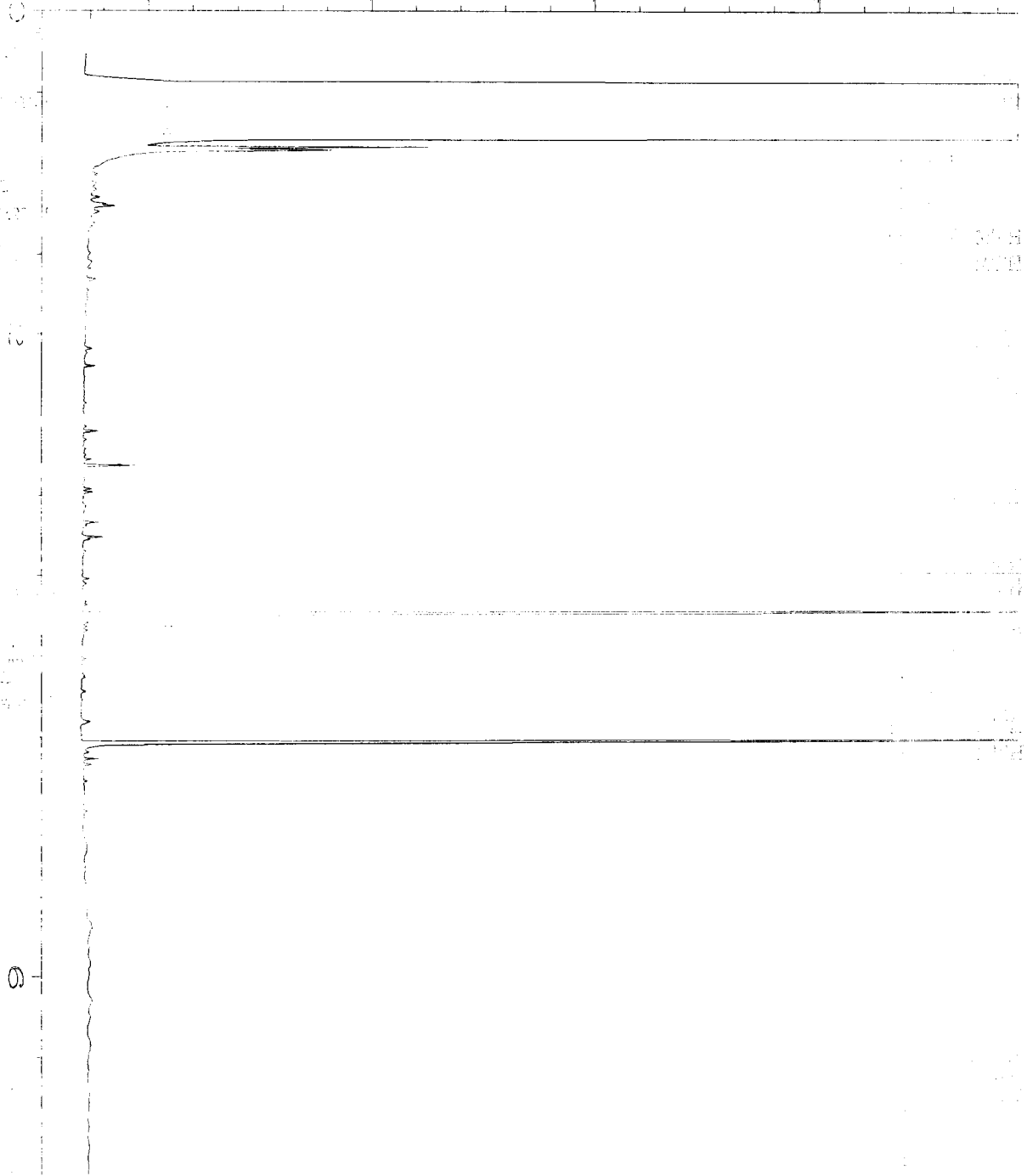


Data File Name	: C:\HPCHEM\1\DATA\06-10-16\033F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 33
Instrument	: GC1	Injection Number	: 1
Sample Name	: 606161-01	Sequence Line	: 7
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 10 Jun 16 03:23 PM	Analysis Method	: DX.MTH
Report Created on:	13 Jun 16 11:45 AM		



Data File Name	: C:\HPCHEM\1\DATA\06-10-16\034F0701.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 34
Instrument	: GC1	Injection Number	: 1
Sample Name	: 606161-02	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Jun 16 03:34 PM	Analysis Method	: DX.MTH
Report Created on:	13 Jun 16 11:45 AM		

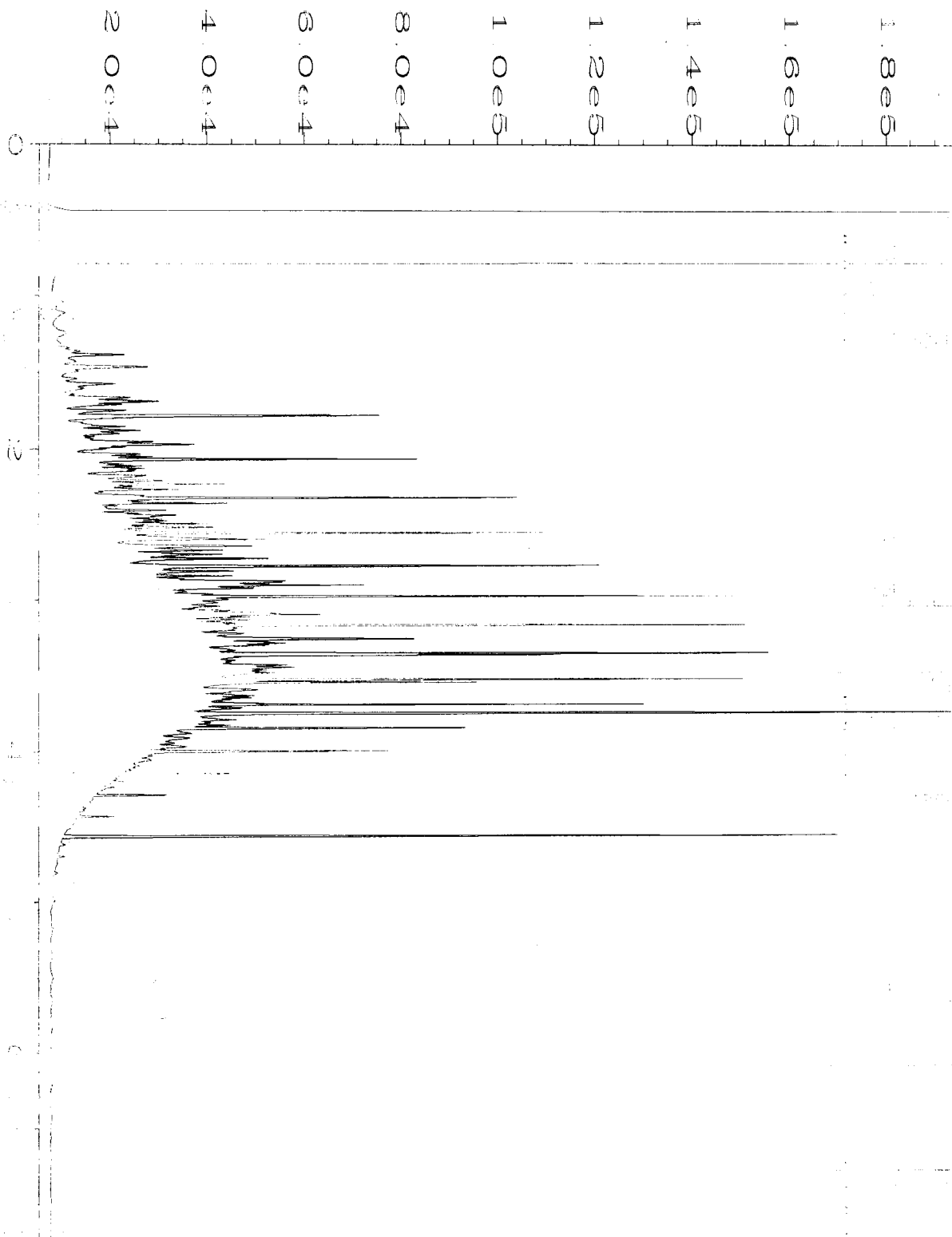
1.0e4
2.0e4
3.0e4
4.0e4



Type: GC1
 Sample Name: 06-1167 mb
 Run Time: 02:50 PM

Type: GC1
 Sample Name: 06-1167 mb
 Run Time: 11:45 AM

Data File Name	: C:\HPCHEM\1\DATA\06-10-16\030F0701.D	Page Number	: 1
Operator	: mwd1	Vial Number	: 30
Instrument	: GC1	Injection Number	: 1
Sample Name	: 06-1167 mb	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Jun 16 02:50 PM	Analysis Method	: DX.MTH
Report Created on:	13 Jun 16 11:45 AM		



Data File Name	: C:\HPCHEM\1\DATA\06-10-16\003F0201.D	Page Number	: 1
Operator	: mwdl	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 45-182D	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Jun 16 06:04 AM	Analysis Method	: DX.MTH
Report Created on:	13 Jun 16 11:46 AM		

606161

SAMPLE CHAIN OF CUSTODY ME6/9/16

V1/E04
Page # 1 of 1

Send Report To Tim Brown, cc: Jessica Brown, Jennifer Cyr, Pete Kingston, Courtney Schaumberg, Jonathan Loeffler

Company SoundEarth Strategies

Address 2811 Fairview Ave E, Suite 2000

City, State, ZIP Seattle, WA 98102

SAMPLERS (signature) <i>for Selton</i>	
PROJECT NAME/NO. TOC Holdings Co. Facility No. 01-600 Seattle Terminal - ASKO Property	PO # 0440-004-41
REMARKS	EIM Y

TURNAROUND TIME <u>Standard (2 Weeks)</u> RUSH _____ Rush charges authorized by: _____
SAMPLE DISPOSAL <input checked="" type="checkbox"/> Dispose after 30 days Return samples Will call with instructions

Sample ID	Sample Location	Sample Depth	Lab ID	Date Sampled	Time Sampled	Matrix	# of Jars	GRPH by NWTPH-Gx	BTEX by EPA 8021B	DRPH/ORPH by NWTPH-Dx	cVOCs by EPA 8260C	Methane, Ethane, and Ethene by RSK 175	Sulfate, Nitrate, Nitrite, Total P, Hardness, and Alkalinity	Total Fe and Total Mn	Sulfide, TKN, and Fe 2+	Notes
MW06-2060609	MW06	25	01A-E	6/9/16	1108	H ₂ O	5	X	X	X	X					
01MW46-2060609	01MW46	26.9	02V	"	1219	"	"	X	X	X	X					
405 6/9/16																
Samples received at <u>6</u> °C																

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
<i>Logan Schumacher</i>	Logan Schumacher	SES	6/9/16	1335
<i>Elizabeth Radford</i>	Elizabeth Radford	F&B	6/9/16	1335
Relinquished by:				
Received by:				