



ATTACHMENT 3

Laboratory Data Deliverables Packages

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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March 7, 2018

Mark Roman, Project Manager
Envision Environmental, Inc.
11 Sleepy Hollow Court
Allentown, NJ 08501

Dear Mr Roman:

Included are the results from the testing of material submitted on February 28, 2018 from the Ball-Kent, WA 302.REX, F&BI 802431 project. There are 52 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
NAA0307R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 28, 2018 by Friedman & Bruya, Inc. from the Envision Environmental Ball-Kent, WA 302.REX, F&BI 802431 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Envision Environmental</u>
802431 -01	TRIP BLANK
802431 -02	ETMW-3
802431 -03	ETMW-2
802431 -04	ETMW-7
802431 -05	MW-201
802431 -06	MW-104
802431 -07	FB-1
802431 -08	MW-103
802431 -09	MW-107
802431 -10	DUP-1

Samples FB-1 and MW-107 were sent to Fremont Analytical for TDS analysis. The report is enclosed.

Several compounds were detected in the 8260C method blank library search. These compounds were flagged in the samples as laboratory contamination.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	TRIP BLANK	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-01
Date Analyzed:	02/28/18	Data File:	022822.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

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

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	<0.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	ETMW -3	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-02
Date Analyzed:	02/28/18	Data File:	022823.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

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

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	<0.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	ETMW -2	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-03
Date Analyzed:	02/28/18	Data File:	022824.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

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

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	2.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	ETMW -7	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-04
Date Analyzed:	02/28/18	Data File:	022825.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	4.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	MW-201	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-05
Date Analyzed:	02/28/18	Data File:	022826.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	<0.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	MW-104	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-06
Date Analyzed:	02/28/18	Data File:	022827.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	<0.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	FB-1	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-07
Date Analyzed:	02/28/18	Data File:	022828.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

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

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	<0.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	MW-103	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-08
Date Analyzed:	02/28/18	Data File:	022829.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

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

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	MW-107	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-09
Date Analyzed:	02/28/18	Data File:	022830.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

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

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	<0.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	DUP-1	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-10
Date Analyzed:	02/28/18	Data File:	022831.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	50	150
Toluene-d8	100	50	150
4-Bromofluorobenzene	103	50	150

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	<0.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	Method Blank	Client:	Envision Environmental
Date Received:	Not Applicable	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	08-0433 mb
Date Analyzed:	02/28/18	Data File:	022821.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

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

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	<0.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TRIP BLANK	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-01
Date Analyzed:	03/01/18	Data File:	030116.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	99	63	127
4-Bromofluorobenzene	100	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	ETMW -3	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-02
Date Analyzed:	03/01/18	Data File:	030133.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	102	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	ETMW -2	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-03
Date Analyzed:	03/01/18	Data File:	030134.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	111	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	ETMW-7	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-04
Date Analyzed:	03/01/18	Data File:	030135.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	104	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-201	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-05
Date Analyzed:	03/01/18	Data File:	030131.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	102	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-104	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-06
Date Analyzed:	03/01/18	Data File:	030136.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	100	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	FB-1	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-07
Date Analyzed:	03/01/18	Data File:	030129.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	120	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-103	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-08
Date Analyzed:	03/01/18	Data File:	030137.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	117	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.35

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-107	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-09
Date Analyzed:	03/01/18	Data File:	030132.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	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DUP-1	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-10
Date Analyzed:	03/01/18	Data File:	030107.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	100	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Envision Environmental
Date Received:	Not Applicable	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	08-0432 mb
Date Analyzed:	02/28/18	Data File:	022813.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	101	63	127
4-Bromofluorobenzene	97	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: TRIP BLANK	Client: Envision Environmental
Date Received: 02/28/18	Project: Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted: 02/28/18	Lab ID: 802431-01
Date Analyzed: 03/01/18	Data File: 030117.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	99	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	TRIP BLANK	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-01
Date Analyzed:	03/01/18	Data File:	030117.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	99	63	127
4-Bromofluorobenzene	101	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	19 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: ETMW -3	Client: Envision Environmental
Date Received: 02/28/18	Project: Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted: 02/28/18	Lab ID: 802431-02
Date Analyzed: 03/01/18	Data File: 030140.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	101	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	ETMW -3	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-02
Date Analyzed:	03/01/18	Data File:	030140.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	101	63	127
4-Bromofluorobenzene	101	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	22 fb
1-Hexanol, 2-ethyl-	000104-76-7	64	6.2 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	ETMW -2	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-03
Date Analyzed:	03/02/18	Data File:	030141.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	103	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	ETMW-2	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-03
Date Analyzed:	03/02/18	Data File:	030141.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	103	63	127
4-Bromofluorobenzene	104	60	133

Tentative ID	CAS #	Qual.	Conc.
1H-Indene, 2,3-dihydro-	000496-11-7	81	34
2-Propanol	000067-63-0	83	9.4 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	ETMW-7	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-04
Date Analyzed:	03/02/18	Data File:	030142.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	101	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	ETMW -7	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-04
Date Analyzed:	03/02/18	Data File:	030142.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	101	63	127
4-Bromofluorobenzene	102	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	83	17 fb
1-Hexanol, 2-ethyl-	000104-76-7	64	5.9 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW-201	Client: Envision Environmental
Date Received: 02/28/18	Project: Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted: 02/28/18	Lab ID: 802431-05
Date Analyzed: 03/01/18	Data File: 030108.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	99	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	MW-201	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-05
Date Analyzed:	03/01/18	Data File:	030108.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	99	63	127
4-Bromofluorobenzene	101	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	14 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW-104	Client: Envision Environmental
Date Received: 02/28/18	Project: Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted: 02/28/18	Lab ID: 802431-06
Date Analyzed: 03/02/18	Data File: 030143.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	102	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	MW-104	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-06
Date Analyzed:	03/02/18	Data File:	030143.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	102	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	20 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	FB-1	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-07
Date Analyzed:	03/01/18	Data File:	030130.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	101	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	18	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	1.3	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	FB-1	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-07
Date Analyzed:	03/01/18	Data File:	030130.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	101	63	127
4-Bromofluorobenzene	103	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	23 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW-103	Client: Envision Environmental
Date Received: 02/28/18	Project: Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted: 02/28/18	Lab ID: 802431-08
Date Analyzed: 03/02/18	Data File: 030144.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)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	0.31	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	MW-103	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-08
Date Analyzed:	03/02/18	Data File:	030144.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

Tentative ID	CAS #	Qual.	Conc.
1-Hexanol, 2-ethyl-	000104-76-7	78	11 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW-107	Client: Envision Environmental
Date Received: 02/28/18	Project: Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted: 02/28/18	Lab ID: 802431-09
Date Analyzed: 03/01/18	Data File: 030138.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	101	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	MW-107	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-09
Date Analyzed:	03/01/18	Data File:	030138.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	101	63	127
4-Bromofluorobenzene	102	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	16 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: DUP-1	Client: Envision Environmental
Date Received: 02/28/18	Project: Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted: 02/28/18	Lab ID: 802431-10
Date Analyzed: 03/01/18	Data File: 030139.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	102	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	DUP-1	Client:	Envision Environmental
Date Received:	02/28/18	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	802431-10
Date Analyzed:	03/01/18	Data File:	030139.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	102	63	127
4-Bromofluorobenzene	104	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	23 fb
1-Hexanol, 2-ethyl-	000104-76-7	78	6.9 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Method Blank	Client: Envision Environmental
Date Received: Not Applicable	Project: Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted: 02/28/18	Lab ID: 08-0432 mb
Date Analyzed: 02/28/18	Data File: 022813.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	101	63	127
4-Bromofluorobenzene	97	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Envision Environmental
Date Received:	Not Applicable	Project:	Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted:	02/28/18	Lab ID:	08-0432 mb
Date Analyzed:	02/28/18 14:18	Data File:	022813.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	101	63	127
4-Bromofluorobenzene	97	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	11 lc
1-Hexanol, 2-ethyl-	000104-76-7	78	8.7 lc

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/07/18
Date Received: 02/28/18
Project: Ball-Kent, WA 302.REX, F&BI 802431
Date Extracted: NA
Date Analyzed: 03/01/18

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR TOTAL SUSPENDED SOLIDS**

BY METHOD 2540D

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	Total Suspended <u>Solids</u>
FB-1 802431-07	<5
MW-107 802431-09	<5
Method Blank	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/07/18

Date Received: 02/28/18

Project: Ball-Kent, WA 302.REX, F&BI 802431

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

Laboratory Code: 802431-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
1,4-Dioxane	ug/L (ppb)	2	<0.4	110	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
1,4-Dioxane	ug/L (ppb)	2	101	113	70-130	11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/07/18

Date Received: 02/28/18

Project: Ball-Kent, WA 302.REX, F&BI 802431

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

Laboratory Code: 802431-10 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Vinyl chloride	ug/L (ppb)	50	<0.2	105	36-166

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	104	50-154	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/07/18

Date Received: 02/28/18

Project: Ball-Kent, WA 302.REX, F&BI 802431

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

Laboratory Code: 802431-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<1	113	10-172
Chloromethane	ug/L (ppb)	50	<10	93	25-166
Vinyl chloride	ug/L (ppb)	50	<0.2	90	36-166
Bromomethane	ug/L (ppb)	50	<1	98	47-169
Chloroethane	ug/L (ppb)	50	<1	92	46-160
Trichlorofluoromethane	ug/L (ppb)	50	<1	97	44-165
Acetone	ug/L (ppb)	250	<50	79	10-182
1,1-Dichloroethene	ug/L (ppb)	50	<1	95	60-136
Hexane	ug/L (ppb)	50	<1	114	52-150
Methylene chloride	ug/L (ppb)	50	<5	90	67-132
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	99	74-127
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	100	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	110	70-128
2,2-Dichloropropane	ug/L (ppb)	50	<1	108	36-154
cis-1,2-Dichloroethene	ug/L (ppb)	50	<1	103	71-127
Chloroform	ug/L (ppb)	50	<1	97	65-132
2-Butanone (MEK)	ug/L (ppb)	250	<10	100	10-129
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	96	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	103	60-146
1,1-Dichloropropene	ug/L (ppb)	50	<1	103	69-133
Carbon tetrachloride	ug/L (ppb)	50	<1	103	56-152
Benzene	ug/L (ppb)	50	<0.35	100	76-125
Trichloroethene	ug/L (ppb)	50	<1	98	66-135
1,2-Dichloropropane	ug/L (ppb)	50	<1	103	78-125
Bromodichloromethane	ug/L (ppb)	50	<1	100	61-150
Dibromomethane	ug/L (ppb)	50	<1	103	66-141
4-Methyl-2-pentanone	ug/L (ppb)	250	<10	101	10-185
cis-1,3-Dichloropropene	ug/L (ppb)	50	<1	106	72-132
Toluene	ug/L (ppb)	50	<1	99	76-122
trans-1,3-Dichloropropene	ug/L (ppb)	50	<1	109	76-130
1,1,2-Trichloroethane	ug/L (ppb)	50	<1	107	68-131
2-Hexanone	ug/L (ppb)	250	<10	103	10-185
1,3-Dichloropropane	ug/L (ppb)	50	<1	103	71-128
Tetrachloroethene	ug/L (ppb)	50	<1	99	10-226
Dibromochloromethane	ug/L (ppb)	50	<1	99	70-139
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	105	69-134
Chlorobenzene	ug/L (ppb)	50	<1	96	77-122
Ethylbenzene	ug/L (ppb)	50	<1	98	69-135
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	97	73-137
m,p-Xylene	ug/L (ppb)	100	<2	98	69-135
o-Xylene	ug/L (ppb)	50	<1	95	60-140
Styrene	ug/L (ppb)	50	<1	99	71-133
Isopropylbenzene	ug/L (ppb)	50	<1	96	65-142
Bromoform	ug/L (ppb)	50	<1	96	65-142
n-Propylbenzene	ug/L (ppb)	50	<1	99	58-144
Bromobenzene	ug/L (ppb)	50	<1	100	75-124
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<1	98	66-137
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<1	104	51-154
1,2,3-Trichloropropane	ug/L (ppb)	50	<1	100	53-150
2-Chlorotoluene	ug/L (ppb)	50	<1	98	66-127
4-Chlorotoluene	ug/L (ppb)	50	<1	100	65-130
tert-Butylbenzene	ug/L (ppb)	50	<1	97	65-137
1,2,4-Trimethylbenzene	ug/L (ppb)	50	<1	97	59-146
sec-Butylbenzene	ug/L (ppb)	50	<1	96	64-140
p-Isopropyltoluene	ug/L (ppb)	50	<1	95	65-141
1,3-Dichlorobenzene	ug/L (ppb)	50	<1	97	72-123
1,4-Dichlorobenzene	ug/L (ppb)	50	<1	93	69-126
1,2-Dichlorobenzene	ug/L (ppb)	50	<1	95	69-128
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<10	100	32-164
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<1	91	66-136
Hexachlorobutadiene	ug/L (ppb)	50	<1	92	60-143
Naphthalene	ug/L (ppb)	50	<1	92	44-164
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<1	91	69-148

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/07/18

Date Received: 02/28/18

Project: Ball-Kent, WA 302.REX, F&BI 802431

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Dichlorodifluoromethane	ug/L (ppb)	50	125	128	25-158	2
Chloromethane	ug/L (ppb)	50	109	99	45-156	10
Vinyl chloride	ug/L (ppb)	50	112	99	50-154	12
Bromomethane	ug/L (ppb)	50	117	112	55-143	4
Chloroethane	ug/L (ppb)	50	113	105	58-146	7
Trichlorofluoromethane	ug/L (ppb)	250	116	108	50-150	7
Acetone	ug/L (ppb)	250	101	92	53-131	9
1,1-Dichloroethene	ug/L (ppb)	50	114	107	67-136	6
Hexane	ug/L (ppb)	50	112	109	57-137	3
Methylene chloride	ug/L (ppb)	50	104	104	39-148	0
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	110	109	64-147	1
trans-1,2-Dichloroethene	ug/L (ppb)	50	107	107	88-128	0
1,1-Dichloroethane	ug/L (ppb)	50	111	110	79-121	1
2,2-Dichloropropane	ug/L (ppb)	50	117	117	55-143	0
cis-1,2-Dichloroethene	ug/L (ppb)	50	104	103	80-123	1
Chloroform	ug/L (ppb)	50	99	98	80-121	1
3-Butanone (MEK)	ug/L (ppb)	250	101	98	57-149	3
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	96	95	73-132	1
1,1,1-Trichloroethane	ug/L (ppb)	50	106	106	83-130	0
1,1-Dichloropropene	ug/L (ppb)	50	105	103	77-129	2
Carbon tetrachloride	ug/L (ppb)	50	106	105	75-158	1
Benzene	ug/L (ppb)	50	101	100	69-134	1
Trichloroethene	ug/L (ppb)	50	99	98	80-120	1
1,2-Dichloropropane	ug/L (ppb)	50	104	101	77-123	3
Bromodichloromethane	ug/L (ppb)	50	102	100	81-133	2
Dibromomethane	ug/L (ppb)	50	104	102	82-125	2
4-Methyl-2-pentanone	ug/L (ppb)	250	104	100	65-138	4
cis-1,3-Dichloropropene	ug/L (ppb)	50	108	105	82-132	3
Toluene	ug/L (ppb)	50	99	99	72-122	0
trans-1,3-Dichloropropene	ug/L (ppb)	50	112	109	80-136	3
1,1,2-Trichloroethane	ug/L (ppb)	50	107	106	75-124	1
2-Hexanone	ug/L (ppb)	250	100	97	60-136	3
1,3-Dichloropropane	ug/L (ppb)	50	101	100	76-126	1
Tetrachloroethene	ug/L (ppb)	50	99	99	76-121	0
Dibromochloromethane	ug/L (ppb)	50	102	100	84-133	2
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	105	102	82-125	3
Chlorobenzene	ug/L (ppb)	50	97	96	83-114	1
Ethylbenzene	ug/L (ppb)	50	99	98	77-124	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	100	102	84-127	2
m,p-Xylene	ug/L (ppb)	100	100	100	83-125	0
o-Xylene	ug/L (ppb)	50	98	98	81-121	0
Styrene	ug/L (ppb)	50	99	97	84-119	2
Isopropylbenzene	ug/L (ppb)	50	99	100	85-117	1
Bromoform	ug/L (ppb)	50	102	99	74-136	3
n-Propylbenzene	ug/L (ppb)	50	100	98	74-126	2
Bromobenzene	ug/L (ppb)	50	99	96	80-121	3
1,3,5-Trimethylbenzene	ug/L (ppb)	50	100	99	78-123	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	105	102	66-126	3
1,2,3-Trichloropropane	ug/L (ppb)	50	100	97	67-124	3
2-Chlorotoluene	ug/L (ppb)	50	98	97	77-127	1
4-Chlorotoluene	ug/L (ppb)	50	100	97	78-128	3
tert-Butylbenzene	ug/L (ppb)	50	100	101	80-123	1
1,2,4-Trimethylbenzene	ug/L (ppb)	50	99	98	79-122	1
sec-Butylbenzene	ug/L (ppb)	50	100	99	80-125	1
p-Isopropyltoluene	ug/L (ppb)	50	97	96	81-123	1
1,3-Dichlorobenzene	ug/L (ppb)	50	97	96	85-116	1
1,4-Dichlorobenzene	ug/L (ppb)	50	93	91	84-121	2
1,2-Dichlorobenzene	ug/L (ppb)	50	96	95	85-116	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	103	101	57-141	2
1,2,4-Trichlorobenzene	ug/L (ppb)	50	94	94	72-130	0
Hexachlorobutadiene	ug/L (ppb)	50	95	95	53-141	0
Naphthalene	ug/L (ppb)	50	95	95	64-133	0
1,2,3-Trichlorobenzene	ug/L (ppb)	50	93	94	65-136	1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/07/18

Date Received: 02/28/18

Project: Ball-Kent, WA 302.REX, F&BI 802431

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L (ppb)	50	84	93	61-131	10

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.



Fremont
Analytical

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 802431
Work Order Number: 1802327

March 05, 2018

Attention Michael Erdahl:

Fremont Analytical, Inc. received 2 sample(s) on 2/28/2018 for the analyses presented in the following report.

Total Dissolved Solids (TDS) by SM 2540C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



CLIENT: Friedman & Bruya
Project: 802431
Work Order: 1802327

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1802327-001	FB-1	02/27/2018 3:10 PM	02/28/2018 1:52 PM
1802327-002	MW-107	02/27/2018 6:15 PM	02/28/2018 1:52 PM



Case Narrative

WO#: 1802327

Date: 3/5/2018

CLIENT: Friedman & Bruya
Project: 802431

WorkOrder Narrative:

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Qualifiers & Acronyms

WO#: 1802327

Date Reported: 3/5/2018

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

Original



CLIENT: Friedman & Bruya
Project: 802431

Lab ID: 1802327-001

Client Sample ID: FB-1

Collection Date: 2/27/2018 3:10:00 PM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
----------	--------	----	------	-------	----	---------------

Total Dissolved Solids (TDS) by SM 2540C

Batch ID: R42024 Analyst: KT

Total Dissolved Solids	30.0	5.00		mg/L	1	3/2/2018 6:57:10 AM
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Lab ID: 1802327-002

Client Sample ID: MW-107

Collection Date: 2/27/2018 6:15:00 PM

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
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Total Dissolved Solids (TDS) by SM 2540C

Batch ID: R42024 Analyst: KT

Total Dissolved Solids	54.0	5.00		mg/L	1	3/2/2018 7:01:10 AM
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Date: 3/5/2018

Work Order: 1802327
 CLIENT: Friedman & Bruya
 Project: 802431

QC SUMMARY REPORT
Total Dissolved Solids (TDS) by SM 2540C

Sample ID MB-R42024	SampType: MBLK	Units: mg/L	Prep Date: 3/2/2018	RunNo: 42024							
Client ID: MBLKW	Batch ID: R42024		Analysis Date: 3/2/2018	SeqNo: 810503							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	5.00									

Sample ID LCS-R42024	SampType: LCS	Units: mg/L	Prep Date: 3/2/2018	RunNo: 42024							
Client ID: LCSW	Batch ID: R42024		Analysis Date: 3/2/2018	SeqNo: 810504							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	338	10.0	300.0	0	113	65	135				

Sample ID 1802327-001ADUP	SampType: DUP	Units: mg/L	Prep Date: 3/2/2018	RunNo: 42024							
Client ID: FB-1	Batch ID: R42024		Analysis Date: 3/2/2018	SeqNo: 810506							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	17.0	5.00						30.00	55.3	30	R

NOTES:
 R - High RPD observed. The method is in control as indicated by the LCS.



Client Name: **FB**

Work Order Number: **1802327**

Logged by: **Brianna Barnes**

Date Received: **2/28/2018 1:52:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? FedEx

Log In

3. Coolers are present? Yes No NA
No cooler present.
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

802431

SAMPLE CHAIN OF CUSTODY

ME 02-28-18

Page # 1 of 1

Report to Mark Roman

Company Envision Environmental, Inc.

Address 11 Sleepy Hollow Court

City, State, ZIP Allentown, NJ 08501

Phone (609) 205-1885 Email envision@envisionem.com

SAMPLERS (signature) M. DeGregory

PROJECT NAME BALL - KENT, WA

PO # 302. REX

REMARKS WA MTC Program Vol, GC
 8260 Analysis for VC required on both
 8260 Analysis included + 15 LITERARY SW

INVOICE TO ENVISION

TURNAROUND TIME Standard Turnaround

Rush charges authorized by:

SAMPLE DISPOSAL
 Dispose after 30 days
 Archive Samples
 Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes					
						TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270D	PAHs 8270D SIM	TDS	TSS	1,4-DIOXANE		WIS-09224				
TRIP BLANK	01 A-F	2/27/18	-	Aqueous	6					X											
ETMW-3	02 T	2/27/18	1030	1	6					X											
ETMW-2	03		1205	1	6					X											
ETMW-7	04		1315	1	6					X											
MW-201	05		1536	1	6					X											
MW-104	06		1625	1	6					X											
FB-1	07 A-H		1510	1	8					X											
MW-103	08 A-F		1651	1	6					X											
MW-107	09 A-H		1815	1	8					X											
DUP-1	10 A-F		-	1	6					X											

Relinquished by: <u>[Signature]</u>	SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>		ENVISION	Mark R. DeGregory	2/28/17	0625
Received by: <u>[Signature]</u>		Michael E. Edh	Fis Bio	2/28/17	0625
Received by: <u></u>			Samples received at <u>2</u>		°C

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

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
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fbi@isomedia.com
www.friedmanandbruya.com

March 12, 2018

Mark Roman, Project Manager
Envision Environmental, Inc.
11 Sleepy Hollow Court
Allentown, NJ 08501

Dear Mr Roman:

Included are the results from the testing of material submitted on March 1, 2018 from the Ball-Kent, WA 302.REX, F&BI 803003 project. There are 48 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
NAA0312R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on March 1, 2018 by Friedman & Bruya, Inc. from the Envision Environmental Ball-Kent, WA 302.REX, F&BI 803003 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Envision Environmental</u>
803003 -01	TRIP BLANK
803003 -02	FB-2
803003 -03	MW-106
803003 -04	MW-102
803003 -05	MW-101
803003 -06	MW-105R
803003 -07	MW-108
803003 -08	DUP-2

Several compounds were detected in the 8260C method blank library search. These compounds were flagged in the samples as laboratory contamination.

Samples FB-2, MW-102, MW-101, MW-105R, MW-108, and DUP-2 were sent to Fremont Analytical for TDS analysis. The report is enclosed.

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	TRIP BLANK	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-01
Date Analyzed:	03/02/18	Data File:	030213.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	50	150
Toluene-d8	99	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	<0.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	FB-2	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-02
Date Analyzed:	03/02/18	Data File:	030214.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

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

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	<0.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	MW-106	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-03 1/10
Date Analyzed:	03/05/18	Data File:	030515.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

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

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	MW-102	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-04 1/100
Date Analyzed:	03/05/18	Data File:	030516.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

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

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	1,400

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	MW-101	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-05 1/10
Date Analyzed:	03/05/18	Data File:	030517.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

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

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	180

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	MW-105R	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-06
Date Analyzed:	03/05/18	Data File:	030512.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	12

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	MW-108	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-07 1/50
Date Analyzed:	03/05/18	Data File:	030518.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	102	50	150

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	380

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	DUP-2	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-08 1/100
Date Analyzed:	03/05/18	Data File:	030519.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

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

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	450

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C SIM

Client Sample ID:	Method Blank	Client:	Envision Environmental
Date Received:	Not Applicable	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	08-0412 mb
Date Analyzed:	03/02/18	Data File:	030212.D
Matrix:	Water	Instrument:	GCMS9
Units:	ug/L (ppb)	Operator:	JS

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	50	150
Toluene-d8	101	50	150
4-Bromofluorobenzene	101	50	150

Compounds:	Concentration ug/L (ppb)
1,4-Dioxane	<0.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	TRIP BLANK	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-01
Date Analyzed:	03/02/18	Data File:	030243.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	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	FB-2	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-02
Date Analyzed:	03/02/18	Data File:	030244.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	101	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-106	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-03
Date Analyzed:	03/02/18	Data File:	030245.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	102	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.22

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-102	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-04
Date Analyzed:	03/02/18	Data File:	030246.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	101	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-101	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-05
Date Analyzed:	03/02/18	Data File:	030247.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	102	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	1.6

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-105R	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-06
Date Analyzed:	03/03/18	Data File:	030248.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	102	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-108	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-07
Date Analyzed:	03/03/18	Data File:	030249.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	6.2

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DUP-2	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-08
Date Analyzed:	03/03/18	Data File:	030250.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	102	60	133

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	3.6

Note: Analyzed from a VOA vial with no preservative.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Envision Environmental
Date Received:	Not Applicable	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	08-0441 mb
Date Analyzed:	03/02/18	Data File:	030236.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

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: TRIP BLANK	Client: Envision Environmental
Date Received: 03/01/18	Project: Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted: 03/02/18	Lab ID: 803003-01
Date Analyzed: 03/03/18	Data File: 030251.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	101	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	TRIP BLANK	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-01
Date Analyzed:	03/03/18	Data File:	030251.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	101	63	127
4-Bromofluorobenzene	103	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	13 fb
1-Hexanol, 2-ethyl-	000104-76-7	50	5.4 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	FB-2	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-02
Date Analyzed:	03/03/18	Data File:	030252.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	101	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	18	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	1.3	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	FB-2	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-02
Date Analyzed:	03/03/18	Data File:	030252.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	101	63	127
4-Bromofluorobenzene	104	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	20 fb
1-Hexanol, 2-ethyl-	000104-76-7	78	6.7 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW-106	Client: Envision Environmental
Date Received: 03/01/18	Project: Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted: 03/02/18	Lab ID: 803003-03
Date Analyzed: 03/03/18	Data File: 030253.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	103	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	190 ve	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	MW-106	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-03 1/10
Date Analyzed:	03/05/18	Data File:	030514A.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	101	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<10	1,3-Dichloropropane	<10
Chloromethane	<100	Tetrachloroethene	<10
Vinyl chloride	<2	Dibromochloromethane	<10
Bromomethane	<10	1,2-Dibromoethane (EDB)	<10
Chloroethane	220	Chlorobenzene	<10
Trichlorofluoromethane	<10	Ethylbenzene	<10
Acetone	<500	1,1,1,2-Tetrachloroethane	<10
1,1-Dichloroethene	<10	m,p-Xylene	<20
Hexane	<10	o-Xylene	<10
Methylene chloride	<50	Styrene	<10
Methyl t-butyl ether (MTBE)	<10	Isopropylbenzene	<10
trans-1,2-Dichloroethene	<10	Bromoform	<10
1,1-Dichloroethane	<10	n-Propylbenzene	<10
2,2-Dichloropropane	<10	Bromobenzene	<10
cis-1,2-Dichloroethene	<10	1,3,5-Trimethylbenzene	<10
Chloroform	<10	1,1,2,2-Tetrachloroethane	<10
2-Butanone (MEK)	<100	1,2,3-Trichloropropane	<10
1,2-Dichloroethane (EDC)	<10	2-Chlorotoluene	<10
1,1,1-Trichloroethane	<10	4-Chlorotoluene	<10
1,1-Dichloropropene	<10	tert-Butylbenzene	<10
Carbon tetrachloride	<10	1,2,4-Trimethylbenzene	<10
Benzene	<3.5	sec-Butylbenzene	<10
Trichloroethene	<10	p-Isopropyltoluene	<10
1,2-Dichloropropane	<10	1,3-Dichlorobenzene	<10
Bromodichloromethane	<10	1,4-Dichlorobenzene	<10
Dibromomethane	<10	1,2-Dichlorobenzene	<10
4-Methyl-2-pentanone	<100	1,2-Dibromo-3-chloropropane	<100
cis-1,3-Dichloropropene	<10	1,2,4-Trichlorobenzene	<10
Toluene	<10	Hexachlorobutadiene	<10
trans-1,3-Dichloropropene	<10	Naphthalene	<10
1,1,2-Trichloroethane	<10	1,2,3-Trichlorobenzene	<10
2-Hexanone	<100		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	MW-106	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-03
Date Analyzed:	03/03/18	Data File:	030253.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	103	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	14 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW-102	Client: Envision Environmental
Date Received: 03/01/18	Project: Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted: 03/02/18	Lab ID: 803003-04
Date Analyzed: 03/03/18	Data File: 030254.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	102	63	127
4-Bromofluorobenzene	104	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	890 ve	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	6.9	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	0.53	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW-102	Client: Envision Environmental
Date Received: 03/01/18	Project: Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted: 03/02/18	Lab ID: 803003-04 1/20
Date Analyzed: 03/05/18	Data File: 030515.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	100	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<20	1,3-Dichloropropane	<20
Chloromethane	<200	Tetrachloroethene	<20
Vinyl chloride	<4	Dibromochloromethane	<20
Bromomethane	<20	1,2-Dibromoethane (EDB)	<20
Chloroethane	920	Chlorobenzene	<20
Trichlorofluoromethane	<20	Ethylbenzene	<20
Acetone	<1,000	1,1,1,2-Tetrachloroethane	<20
1,1-Dichloroethene	<20	m,p-Xylene	<40
Hexane	<20	o-Xylene	<20
Methylene chloride	<100	Styrene	<20
Methyl t-butyl ether (MTBE)	<20	Isopropylbenzene	<20
trans-1,2-Dichloroethene	<20	Bromoform	<20
1,1-Dichloroethane	<20	n-Propylbenzene	<20
2,2-Dichloropropane	<20	Bromobenzene	<20
cis-1,2-Dichloroethene	<20	1,3,5-Trimethylbenzene	<20
Chloroform	<20	1,1,2,2-Tetrachloroethane	<20
2-Butanone (MEK)	<200	1,2,3-Trichloropropane	<20
1,2-Dichloroethane (EDC)	<20	2-Chlorotoluene	<20
1,1,1-Trichloroethane	<20	4-Chlorotoluene	<20
1,1-Dichloropropene	<20	tert-Butylbenzene	<20
Carbon tetrachloride	<20	1,2,4-Trimethylbenzene	<20
Benzene	<7	sec-Butylbenzene	<20
Trichloroethene	<20	p-Isopropyltoluene	<20
1,2-Dichloropropane	<20	1,3-Dichlorobenzene	<20
Bromodichloromethane	<20	1,4-Dichlorobenzene	<20
Dibromomethane	<20	1,2-Dichlorobenzene	<20
4-Methyl-2-pentanone	<200	1,2-Dibromo-3-chloropropane	<200
cis-1,3-Dichloropropene	<20	1,2,4-Trichlorobenzene	<20
Toluene	<20	Hexachlorobutadiene	<20
trans-1,3-Dichloropropene	<20	Naphthalene	<20
1,1,2-Trichloroethane	<20	1,2,3-Trichlorobenzene	<20
2-Hexanone	<200		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	MW-102	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-04
Date Analyzed:	03/03/18	Data File:	030254.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	102	63	127
4-Bromofluorobenzene	104	60	133

Tentative ID	CAS #	Qual.	Conc.
Ethane, 1,1'-thiobis-	000352-93-2	94	30
2-Propanol	000067-63-0	72	9.9 fb
Ethane, (methylthio)-	000624-89-5	94	8.0
1,4-Dioxane	000123-91-1	74	6.7
1-Propene, 2-chloro-	000557-98-2	89	6.2
2-Butene, 1,4-dichloro-, (E)-	000110-57-6	68	6.1
Butane, 1,3-dichloro-	001190-22-3	90	5.9
1-Hexanol, 2-ethyl-	000104-76-7	72	5.1 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW-101	Client: Envision Environmental
Date Received: 03/01/18	Project: Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted: 03/02/18	Lab ID: 803003-05
Date Analyzed: 03/03/18	Data File: 030255.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	100	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	1.6	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	1.2	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	2.7
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	MW-101	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-05
Date Analyzed:	03/03/18	Data File:	030255.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	100	63	127
4-Bromofluorobenzene	102	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	15 fb
1-Hexanol, 2-ethyl-	000104-76-7	64	6.7 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW-105R	Client: Envision Environmental
Date Received: 03/01/18	Project: Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted: 03/02/18	Lab ID: 803003-06
Date Analyzed: 03/03/18	Data File: 030256.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	101	63	127
4-Bromofluorobenzene	103	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	71	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	1.2	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	14	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	MW-105R	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-06
Date Analyzed:	03/03/18	Data File:	030256.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	101	63	127
4-Bromofluorobenzene	103	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	15 fb
1-Hexanol, 2-ethyl-	000104-76-7	64	6.7 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW-108	Client: Envision Environmental
Date Received: 03/01/18	Project: Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted: 03/02/18	Lab ID: 803003-07
Date Analyzed: 03/03/18	Data File: 030257.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	99	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	4.1	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	370 ve	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	11	m,p-Xylene	<2
Hexane	7.3	o-Xylene	1.2
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	210 ve	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	1.6	2-Chlorotoluene	<1
1,1,1-Trichloroethane	110	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	2.4
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	2.1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: MW-108	Client: Envision Environmental
Date Received: 03/01/18	Project: Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted: 03/02/18	Lab ID: 803003-07 1/10
Date Analyzed: 03/05/18	Data File: 030516.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	101	63	127
4-Bromofluorobenzene	101	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<10	1,3-Dichloropropane	<10
Chloromethane	<100	Tetrachloroethene	<10
Vinyl chloride	5.6	Dibromochloromethane	<10
Bromomethane	<10	1,2-Dibromoethane (EDB)	<10
Chloroethane	350	Chlorobenzene	<10
Trichlorofluoromethane	<10	Ethylbenzene	<10
Acetone	<500	1,1,1,2-Tetrachloroethane	<10
1,1-Dichloroethene	<10	m,p-Xylene	<20
Hexane	<10	o-Xylene	<10
Methylene chloride	<50	Styrene	<10
Methyl t-butyl ether (MTBE)	<10	Isopropylbenzene	<10
trans-1,2-Dichloroethene	<10	Bromoform	<10
1,1-Dichloroethane	310	n-Propylbenzene	<10
2,2-Dichloropropane	<10	Bromobenzene	<10
cis-1,2-Dichloroethene	<10	1,3,5-Trimethylbenzene	<10
Chloroform	<10	1,1,2,2-Tetrachloroethane	<10
2-Butanone (MEK)	<100	1,2,3-Trichloropropane	<10
1,2-Dichloroethane (EDC)	<10	2-Chlorotoluene	<10
1,1,1-Trichloroethane	47	4-Chlorotoluene	<10
1,1-Dichloropropene	<10	tert-Butylbenzene	<10
Carbon tetrachloride	<10	1,2,4-Trimethylbenzene	<10
Benzene	<3.5	sec-Butylbenzene	<10
Trichloroethene	<10	p-Isopropyltoluene	<10
1,2-Dichloropropane	<10	1,3-Dichlorobenzene	<10
Bromodichloromethane	<10	1,4-Dichlorobenzene	<10
Dibromomethane	<10	1,2-Dichlorobenzene	<10
4-Methyl-2-pentanone	<100	1,2-Dibromo-3-chloropropane	<100
cis-1,3-Dichloropropene	<10	1,2,4-Trichlorobenzene	<10
Toluene	<10	Hexachlorobutadiene	<10
trans-1,3-Dichloropropene	<10	Naphthalene	<10
1,1,2-Trichloroethane	<10	1,2,3-Trichlorobenzene	<10
2-Hexanone	<100		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	MW-108	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-07
Date Analyzed:	03/03/18	Data File:	030257.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	99	60	133

Tentative ID	CAS #	Qual.	Conc.
Butane, 1,3-dichloro-	001190-22-3	90	17
2-Propanol	000067-63-0	78	15 fb

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: DUP-2	Client: Envision Environmental
Date Received: 03/01/18	Project: Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted: 03/02/18	Lab ID: 803003-08
Date Analyzed: 03/03/18	Data File: 030258.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	103	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	3.8	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	410 ve	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	22	m,p-Xylene	<2
Hexane	6.8	o-Xylene	1.2
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	270 ve	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	2.0	2-Chlorotoluene	<1
1,1,1-Trichloroethane	240 ve	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	2.5
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	2.6	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID:	DUP-2	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-08 1/10
Date Analyzed:	03/05/18	Data File:	030517.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	118	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<10	1,3-Dichloropropane	<10
Chloromethane	<100	Tetrachloroethene	<10
Vinyl chloride	4.1	Dibromochloromethane	<10
Bromomethane	<10	1,2-Dibromoethane (EDB)	<10
Chloroethane	410	Chlorobenzene	<10
Trichlorofluoromethane	<10	Ethylbenzene	<10
Acetone	<500	1,1,1,2-Tetrachloroethane	<10
1,1-Dichloroethene	15	m,p-Xylene	<20
Hexane	<10	o-Xylene	<10
Methylene chloride	<50	Styrene	<10
Methyl t-butyl ether (MTBE)	<10	Isopropylbenzene	<10
trans-1,2-Dichloroethene	<10	Bromoform	<10
1,1-Dichloroethane	260	n-Propylbenzene	<10
2,2-Dichloropropane	<10	Bromobenzene	<10
cis-1,2-Dichloroethene	<10	1,3,5-Trimethylbenzene	<10
Chloroform	<10	1,1,2,2-Tetrachloroethane	<10
2-Butanone (MEK)	<100	1,2,3-Trichloropropane	<10
1,2-Dichloroethane (EDC)	<10	2-Chlorotoluene	<10
1,1,1-Trichloroethane	160	4-Chlorotoluene	<10
1,1-Dichloropropene	<10	tert-Butylbenzene	<10
Carbon tetrachloride	<10	1,2,4-Trimethylbenzene	<10
Benzene	<3.5	sec-Butylbenzene	<10
Trichloroethene	<10	p-Isopropyltoluene	<10
1,2-Dichloropropane	<10	1,3-Dichlorobenzene	<10
Bromodichloromethane	<10	1,4-Dichlorobenzene	<10
Dibromomethane	<10	1,2-Dichlorobenzene	<10
4-Methyl-2-pentanone	<100	1,2-Dibromo-3-chloropropane	<100
cis-1,3-Dichloropropene	<10	1,2,4-Trichlorobenzene	<10
Toluene	<10	Hexachlorobutadiene	<10
trans-1,3-Dichloropropene	<10	Naphthalene	<10
1,1,2-Trichloroethane	<10	1,2,3-Trichlorobenzene	<10
2-Hexanone	<100		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	DUP-2	Client:	Envision Environmental
Date Received:	03/01/18	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	803003-08
Date Analyzed:	03/03/18	Data File:	030258.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	103	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	78	18 fb
Butane, 1,3-dichloro-	001190-22-3	90	16

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260C

Client Sample ID: Method Blank	Client: Envision Environmental
Date Received: Not Applicable	Project: Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted: 03/02/18	Lab ID: 08-0443 mb
Date Analyzed: 03/02/18	Data File: 030237.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	101	63	127
4-Bromofluorobenzene	102	60	133

Compounds:	Concentration ug/L (ppb)	Compounds:	Concentration ug/L (ppb)
Dichlorodifluoromethane	<1	1,3-Dichloropropane	<1
Chloromethane	<10	Tetrachloroethene	<1
Vinyl chloride	<0.2	Dibromochloromethane	<1
Bromomethane	<1	1,2-Dibromoethane (EDB)	<1
Chloroethane	<1	Chlorobenzene	<1
Trichlorofluoromethane	<1	Ethylbenzene	<1
Acetone	<50	1,1,1,2-Tetrachloroethane	<1
1,1-Dichloroethene	<1	m,p-Xylene	<2
Hexane	<1	o-Xylene	<1
Methylene chloride	<5	Styrene	<1
Methyl t-butyl ether (MTBE)	<1	Isopropylbenzene	<1
trans-1,2-Dichloroethene	<1	Bromoform	<1
1,1-Dichloroethane	<1	n-Propylbenzene	<1
2,2-Dichloropropane	<1	Bromobenzene	<1
cis-1,2-Dichloroethene	<1	1,3,5-Trimethylbenzene	<1
Chloroform	<1	1,1,2,2-Tetrachloroethane	<1
2-Butanone (MEK)	<10	1,2,3-Trichloropropane	<1
1,2-Dichloroethane (EDC)	<1	2-Chlorotoluene	<1
1,1,1-Trichloroethane	<1	4-Chlorotoluene	<1
1,1-Dichloropropene	<1	tert-Butylbenzene	<1
Carbon tetrachloride	<1	1,2,4-Trimethylbenzene	<1
Benzene	<0.35	sec-Butylbenzene	<1
Trichloroethene	<1	p-Isopropyltoluene	<1
1,2-Dichloropropane	<1	1,3-Dichlorobenzene	<1
Bromodichloromethane	<1	1,4-Dichlorobenzene	<1
Dibromomethane	<1	1,2-Dichlorobenzene	<1
4-Methyl-2-pentanone	<10	1,2-Dibromo-3-chloropropane	<10
cis-1,3-Dichloropropene	<1	1,2,4-Trichlorobenzene	<1
Toluene	<1	Hexachlorobutadiene	<1
trans-1,3-Dichloropropene	<1	Naphthalene	<1
1,1,2-Trichloroethane	<1	1,2,3-Trichlorobenzene	<1
2-Hexanone	<10		

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

GCMS Library Search Compound Report By EPA Method 8260C

Client Sample ID:	Method Blank	Client:	Envision Environmental
Date Received:	Not Applicable	Project:	Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted:	03/02/18	Lab ID:	08-0443 mb
Date Analyzed:	03/02/18	Data File:	030237.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	101	63	127
4-Bromofluorobenzene	102	60	133

Tentative ID	CAS #	Qual.	Conc.
2-Propanol	000067-63-0	83	26 lc
1-Hexanol, 2-ethyl-	000104-76-7	64	8.4 lc

Note: Only compounds with qualifiers greater than 50 were reported.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/18
Date Received: 03/01/18
Project: Ball-Kent, WA 302.REX, F&BI 803003
Date Extracted: NA
Date Analyzed: 03/01/18

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

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	Total Suspended <u>Solids</u>
FB-2 803003-02	<5
MW-102 803003-04	150
MW-101 803003-05	84
MW-105R 803003-06	33
MW-108 803003-07	80
DUP-2 803003-08	100
Method Blank	<5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/18

Date Received: 03/01/18

Project: Ball-Kent, WA 302.REX, F&BI 803003

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

Laboratory Code: 803003-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Acceptance Criteria
1,4 Dioxane	ug/L (ppb)	2	110	0 b	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
1,4-Dioxane	ug/L (ppb)	2	105	105	70-130	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/18

Date Received: 03/01/18

Project: Ball-Kent, WA 302.REX, F&BI 803003

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

Laboratory Code: 803003-04 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Vinyl chloride	ug/L (ppb)	<0.2	<0.2	nm

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	95	98	50-154	3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/18

Date Received: 03/01/18

Project: Ball-Kent, WA 302.REX, F&BI 803003

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

Laboratory Code: 803003-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Dichlorodifluoromethane	ug/L (ppb)	50	<1	126	10-172
Chloromethane	ug/L (ppb)	50	<10	88	25-166
Vinyl chloride	ug/L (ppb)	50	1.6	101	36-166
Bromomethane	ug/L (ppb)	50	<1	108	47-169
Chloroethane	ug/L (ppb)	50	<1	97	46-160
Trichlorofluoromethane	ug/L (ppb)	50	<1	96	44-165
Acetone	ug/L (ppb)	250	<50	82	10-182
1,1-Dichloroethene	ug/L (ppb)	50	<1	93	60-136
Hexane	ug/L (ppb)	50	<1	109	52-150
Methylene chloride	ug/L (ppb)	50	<5	103	67-132
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	<1	108	74-127
trans-1,2-Dichloroethene	ug/L (ppb)	50	<1	107	72-129
1,1-Dichloroethane	ug/L (ppb)	50	<1	111	70-128
2,2-Dichloropropane	ug/L (ppb)	50	<1	112	36-154
cis-1,2-Dichloroethene	ug/L (ppb)	50	1.2	102	71-127
Chloroform	ug/L (ppb)	50	<1	98	65-132
2-Butanone (MEK)	ug/L (ppb)	250	<10	102	10-129
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	<1	96	69-133
1,1,1-Trichloroethane	ug/L (ppb)	50	<1	106	60-146
1,1-Dichloropropene	ug/L (ppb)	50	<1	104	69-133
Carbon tetrachloride	ug/L (ppb)	50	<1	104	56-152
Benzene	ug/L (ppb)	50	<0.35	101	76-125
Trichloroethene	ug/L (ppb)	50	<1	98	66-135
1,2-Dichloropropane	ug/L (ppb)	50	<1	104	78-125
Bromodichloromethane	ug/L (ppb)	50	<1	100	61-150
Dibromomethane	ug/L (ppb)	50	<1	103	66-141
4-Methyl-2-pentanone	ug/L (ppb)	250	<10	104	10-185
cis-1,3-Dichloropropene	ug/L (ppb)	50	<1	103	72-132
Toluene	ug/L (ppb)	50	<1	99	76-122
trans-1,3-Dichloropropene	ug/L (ppb)	50	<1	105	76-130
1,1,2-Trichloroethane	ug/L (ppb)	50	<1	106	68-131
2-Hexanone	ug/L (ppb)	250	<10	104	10-185
1,3-Dichloropropane	ug/L (ppb)	50	<1	101	71-128
Tetrachloroethene	ug/L (ppb)	50	<1	96	10-226
Dibromochloromethane	ug/L (ppb)	50	<1	95	70-139
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	<1	103	69-134
Chlorobenzene	ug/L (ppb)	50	<1	96	77-122
Ethylbenzene	ug/L (ppb)	50	<1	98	69-135
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	<1	98	73-137
m,p-Xylene	ug/L (ppb)	100	<2	98	69-135
o-Xylene	ug/L (ppb)	50	<1	96	60-140
Styrene	ug/L (ppb)	50	<1	98	71-133
Isopropylbenzene	ug/L (ppb)	50	<1	97	65-142
Bromoform	ug/L (ppb)	50	<1	91	65-142
n-Propylbenzene	ug/L (ppb)	50	<1	96	58-144
Bromobenzene	ug/L (ppb)	50	<1	97	75-124
1,3,5-Trimethylbenzene	ug/L (ppb)	50	<1	96	66-137
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	<1	102	51-154
1,2,3-Trichloropropane	ug/L (ppb)	50	<1	98	53-150
2-Chlorotoluene	ug/L (ppb)	50	<1	96	66-127
4-Chlorotoluene	ug/L (ppb)	50	<1	97	65-130
tert-Butylbenzene	ug/L (ppb)	50	<1	96	65-137
1,2,4-Trimethylbenzene	ug/L (ppb)	50	2.7	94	59-146
sec-Butylbenzene	ug/L (ppb)	50	<1	94	64-140
p-Isopropyltoluene	ug/L (ppb)	50	<1	91	65-141
1,3-Dichlorobenzene	ug/L (ppb)	50	<1	95	72-123
1,4-Dichlorobenzene	ug/L (ppb)	50	<1	90	69-126
1,2-Dichlorobenzene	ug/L (ppb)	50	<1	93	69-128
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	<10	100	32-164
1,2,4-Trichlorobenzene	ug/L (ppb)	50	<1	88	66-136
Hexachlorobutadiene	ug/L (ppb)	50	<1	74	60-143
Naphthalene	ug/L (ppb)	50	<1	90	44-164
1,2,3-Trichlorobenzene	ug/L (ppb)	50	<1	88	69-148

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/18

Date Received: 03/01/18

Project: Ball-Kent, WA 302.REX, F&BI 803003

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery		Acceptance Criteria	RPD (Limit 20)
			LCS	LCSD		
Dichlorodifluoromethane	ug/L (ppb)	50	143	124	25-158	14
Chloromethane	ug/L (ppb)	50	106	99	45-156	7
Vinyl chloride	ug/L (ppb)	50	114	99	50-154	14
Bromomethane	ug/L (ppb)	50	119	108	55-143	10
Chloroethane	ug/L (ppb)	50	107	100	58-146	7
Trichlorofluoromethane	ug/L (ppb)	250	109	101	50-150	8
Acetone	ug/L (ppb)	250	90	107	53-131	17
1,1-Dichloroethene	ug/L (ppb)	50	107	110	67-136	3
Hexane	ug/L (ppb)	50	98	115	57-137	16
Methylene chloride	ug/L (ppb)	50	97	106	39-148	9
Methyl t-butyl ether (MTBE)	ug/L (ppb)	50	102	110	64-147	8
trans-1,2-Dichloroethene	ug/L (ppb)	50	102	107	68-128	5
1,1-Dichloroethane	ug/L (ppb)	50	99	112	79-121	12
2,2-Dichloropropane	ug/L (ppb)	50	104	112	55-143	7
cis-1,2-Dichloroethene	ug/L (ppb)	50	100	104	80-123	4
Chloroform	ug/L (ppb)	50	94	100	80-121	6
2-Butanone (MEK)	ug/L (ppb)	250	98	105	57-149	7
1,2-Dichloroethane (EDC)	ug/L (ppb)	50	92	99	73-132	7
1,1,1-Trichloroethane	ug/L (ppb)	50	103	108	83-130	5
1,1-Dichloropropene	ug/L (ppb)	50	100	106	77-129	6
Carbon tetrachloride	ug/L (ppb)	50	104	105	75-158	1
Benzene	ug/L (ppb)	50	97	103	69-134	6
Trichloroethene	ug/L (ppb)	50	98	100	80-120	2
1,2-Dichloropropane	ug/L (ppb)	50	96	106	77-123	10
Bromodichloromethane	ug/L (ppb)	50	99	100	81-133	1
Dibromomethane	ug/L (ppb)	50	102	106	82-125	4
4-Methyl-2-pentanone	ug/L (ppb)	250	109	107	65-138	2
cis-1,3-Dichloropropene	ug/L (ppb)	50	103	104	82-132	1
Toluene	ug/L (ppb)	50	87	101	72-122	15
trans-1,3-Dichloropropene	ug/L (ppb)	50	92	104	80-136	12
1,1,2-Trichloroethane	ug/L (ppb)	50	95	108	75-124	13
2-Hexanone	ug/L (ppb)	250	108	107	60-136	1
1,3-Dichloropropane	ug/L (ppb)	50	102	103	76-126	1
Tetrachloroethene	ug/L (ppb)	50	95	99	76-121	4
Dibromochloromethane	ug/L (ppb)	50	98	94	84-133	4
1,2-Dibromoethane (EDB)	ug/L (ppb)	50	106	107	82-125	1
Chlorobenzene	ug/L (ppb)	50	96	98	83-114	2
Ethylbenzene	ug/L (ppb)	50	99	100	77-124	1
1,1,1,2-Tetrachloroethane	ug/L (ppb)	50	97	99	84-127	2
m,p-Xylene	ug/L (ppb)	100	100	101	83-125	1
o-Xylene	ug/L (ppb)	50	97	98	81-121	1
Styrene	ug/L (ppb)	50	99	100	84-119	1
Isopropylbenzene	ug/L (ppb)	50	97	99	85-117	2
Bromoform	ug/L (ppb)	50	93	88	74-136	6
n-Propylbenzene	ug/L (ppb)	50	99	100	74-126	1
Bromobenzene	ug/L (ppb)	50	98	100	80-121	2
1,3,5-Trimethylbenzene	ug/L (ppb)	50	98	99	78-123	1
1,1,2,2-Tetrachloroethane	ug/L (ppb)	50	104	106	66-126	2
1,2,3-Trichloropropane	ug/L (ppb)	50	102	102	67-124	0
2-Chlorotoluene	ug/L (ppb)	50	97	99	77-127	2
4-Chlorotoluene	ug/L (ppb)	50	99	100	78-128	1
tert-Butylbenzene	ug/L (ppb)	50	97	100	80-123	3
1,2,4-Trimethylbenzene	ug/L (ppb)	50	96	98	79-122	2
sec-Butylbenzene	ug/L (ppb)	50	97	99	80-125	2
p-Isopropyltoluene	ug/L (ppb)	50	95	96	81-123	1
1,3-Dichlorobenzene	ug/L (ppb)	50	96	98	85-116	2
1,4-Dichlorobenzene	ug/L (ppb)	50	91	93	84-121	2
1,2-Dichlorobenzene	ug/L (ppb)	50	94	95	85-116	1
1,2-Dibromo-3-chloropropane	ug/L (ppb)	50	100	100	57-141	0
1,2,4-Trichlorobenzene	ug/L (ppb)	50	90	92	72-130	2
Hexachlorobutadiene	ug/L (ppb)	50	93	95	53-141	2
Naphthalene	ug/L (ppb)	50	91	92	64-133	1
1,2,3-Trichlorobenzene	ug/L (ppb)	50	90	92	65-136	2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 03/12/18

Date Received: 03/01/18

Project: Ball-Kent, WA 302.REX, F&BI 803003

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
TSS	mg/L (ppb)	50	84	93	61-131	10

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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Friedman & Bruya
Michael Erdahl
3012 16th Ave. W.
Seattle, WA 98119

RE: 803003
Work Order Number: 1803011

March 08, 2018

Attention Michael Erdahl:

Fremont Analytical, Inc. received 6 sample(s) on 3/1/2018 for the analyses presented in the following report.

Total Dissolved Solids (TDS) by SM 2540C

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
Laboratory Director

DoD/ELAP Certification #L17-135, ISO/IEC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)



CLIENT: Friedman & Bruya
Project: 803003
Work Order: 1803011

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1803011-001	FB-2	02/28/2018 8:51 AM	03/01/2018 12:35 PM
1803011-002	MW-102	02/28/2018 10:38 AM	03/01/2018 12:35 PM
1803011-003	MW-101	02/28/2018 10:55 AM	03/01/2018 12:35 PM
1803011-004	MW-105R	02/28/2018 11:56 AM	03/01/2018 12:35 PM
1803011-005	MW-108	02/28/2018 12:41 PM	03/01/2018 12:35 PM
1803011-006	DUP-2	02/28/2018 12:00 AM	03/01/2018 12:35 PM



CLIENT: Friedman & Bruya
Project: 803003

WorkOrder Narrative:

I. SAMPLE RECEIPT:

Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.



Qualifiers & Acronyms

WO#: 1803011

Date Reported: 3/8/2018

Qualifiers:

- * - Flagged value is not within established control limits
- B - Analyte detected in the associated Method Blank
- D - Dilution was required
- E - Value above quantitation range
- H - Holding times for preparation or analysis exceeded
- I - Analyte with an internal standard that does not meet established acceptance criteria
- J - Analyte detected below Reporting Limit
- N - Tentatively Identified Compound (TIC)
- Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
- S - Spike recovery outside accepted recovery limits
- ND - Not detected at the Reporting Limit
- R - High relative percent difference observed

Acronyms:

- %Rec - Percent Recovery
- CCB - Continued Calibration Blank
- CCV - Continued Calibration Verification
- DF - Dilution Factor
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate

Original

www.fremontanalytical.com



CLIENT: Friedman & Bruya
Project: 803003

Lab ID: 1803011-001

Collection Date: 2/28/2018 8:51:00 AM

Client Sample ID: FB-2

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Dissolved Solids (TDS) by SM 2540C						Batch ID: R42075 Analyst: KT
Total Dissolved Solids	35.0	5.00		mg/L	1	3/6/2018 10:34:00 AM

Lab ID: 1803011-002

Collection Date: 2/28/2018 10:38:00 AM

Client Sample ID: MW-102

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Dissolved Solids (TDS) by SM 2540C						Batch ID: R42075 Analyst: KT
Total Dissolved Solids	703	5.00		mg/L	1	3/6/2018 10:38:00 AM

Lab ID: 1803011-003

Collection Date: 2/28/2018 10:55:00 AM

Client Sample ID: MW-101

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Dissolved Solids (TDS) by SM 2540C						Batch ID: R42075 Analyst: KT
Total Dissolved Solids	344	5.00		mg/L	1	3/6/2018 10:40:00 AM



CLIENT: Friedman & Bruya
Project: 803003

Lab ID: 1803011-004

Collection Date: 2/28/2018 11:56:00 AM

Client Sample ID: MW-105R

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Dissolved Solids (TDS) by SM 2540C						Batch ID: R42075 Analyst: KT
Total Dissolved Solids	296	5.00		mg/L	1	3/6/2018 10:42:00 AM

Lab ID: 1803011-005

Collection Date: 2/28/2018 12:41:00 PM

Client Sample ID: MW-108

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Dissolved Solids (TDS) by SM 2540C						Batch ID: R42075 Analyst: KT
Total Dissolved Solids	377	5.00		mg/L	1	3/6/2018 10:44:00 AM

Lab ID: 1803011-006

Collection Date: 2/28/2018

Client Sample ID: DUP-2

Matrix: Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Total Dissolved Solids (TDS) by SM 2540C						Batch ID: R42075 Analyst: KT
Total Dissolved Solids	342	5.00		mg/L	1	3/6/2018 10:46:00 AM



Date: 3/8/2018

Work Order: 1803011
 CLIENT: Friedman & Bruya
 Project: 803003

QC SUMMARY REPORT
Total Dissolved Solids (TDS) by SM 2540C

Sample ID MB-R42075	SampType: MBLK	Units: mg/L				Prep Date: 3/6/2018	RunNo: 42075				
Client ID: MBLKW	Batch ID: R42075					Analysis Date: 3/6/2018	SeqNo: 811573				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	5.00									

Sample ID LCS-R42075	SampType: LCS	Units: mg/L				Prep Date: 3/6/2018	RunNo: 42075				
Client ID: LCSW	Batch ID: R42075					Analysis Date: 3/6/2018	SeqNo: 811574				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	362	10.0	300.0	0	121	65	135				

Sample ID 1803011-001ADUP	SampType: DUP	Units: mg/L				Prep Date: 3/6/2018	RunNo: 42075				
Client ID: FB-2	Batch ID: R42075					Analysis Date: 3/6/2018	SeqNo: 811576				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dissolved Solids	42.0	5.00						35.00	18.2	30	



Client Name: **FB**

Work Order Number: **1803011**

Logged by: **Clare Griggs**

Date Received: **3/1/2018 12:35:00 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
2. How was the sample delivered? Client

Log In

3. Coolers are present? Yes No NA
4. Shipping container/cooler in good condition? Yes No
5. Custody Seals present on shipping container/cooler?
(Refer to comments for Custody Seals not intact) Yes No Not Required
6. Was an attempt made to cool the samples? Yes No NA
7. Were all items received at a temperature of >0°C to 10.0°C* Yes No NA
8. Sample(s) in proper container(s)? Yes No
9. Sufficient sample volume for indicated test(s)? Yes No
10. Are samples properly preserved? Yes No
11. Was preservative added to bottles? Yes No NA
12. Is there headspace in the VOA vials? Yes No NA
13. Did all samples containers arrive in good condition(unbroken)? Yes No
14. Does paperwork match bottle labels? Yes No
15. Are matrices correctly identified on Chain of Custody? Yes No
16. Is it clear what analyses were requested? Yes No
17. Were all holding times able to be met? Yes No

Special Handling (if applicable)

18. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

19. Additional remarks:

Item Information

	Item #	Temp °C
Cooler		9.0
Sample		8.5

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

803003

SAMPLE CHAIN OF CUSTODY

ME 03-01-18

BEY / W/51

Report To Mark Roman

Company Environ Environmental, Inc.

Address 11 Steffy Hollow Court

City, State, ZIP Atlentown, NJ 08501

Phone (609) 208-1885 FAX (609) 208-1889

markroman@environenvironmental.com

SAMPLERS (signature) 

PROJECT NAME

BALL - KENT, WA

PO #

302.REX

REMARKS WA WPCA POUWERH MOL, DC DELIVERABLES

2 8260 ANALYSIS FOR VC, REQUESTED ON 8/27/18 PROVIDED + VORNESTIONED

3 8260 ANALYSIS INCLUDES + 13 LITERATURE

INVOICE TO

ENVIS I W

Page # 1 of 1

TURNAROUND TIME

Standard Turnaround

RUSH

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

Other

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes		
						TPH-HCID	TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260C	SVOCs by 8270D	PAHs 8270D SIM	TDS	TSS	MS-10228		MS-10228	
TRIP BLANK	01A-E	2/28/18	-	Appars	6													
FB-2	02A-H	1/1/1	0851	1	8				X	X								
MW-106	03A-E	1/1/1	0925	1	6				X	X								
MW-102	04A-H	1/1/1	1038	1	8				X	X								
MW-101	05 T	1/1/1	1055	1	8				X	X								
MW-105R	06	1/1/1	1156	1	8				X	X								
MW-108	07	1/1/1	1241	1	8				X	X								
DUP-2	08	1/1/1	-	1	8				X	X								



Samples retrieved at 2 °C

Friedman & Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	Mark DeGregory	ENVIS I W	2/28/18	1616
	Michael Edell	Environ	2/28/18	041616
Received by:				

