



2753 West 31st Street | Chicago, IL 60608  
Tel: 773-722-9200 | Fax: 773-722-9201 | pioneerEES.com

Transmitted via Electronic Mail

April 7, 2023

Ms. Tena Seeds  
Washington State Department of Ecology  
Toxics Cleanup Program  
15700 Dayton Ave N., Shoreline, WA 98133

RE: **Quarterly Progress Report: January 1 through March 31, 2023**  
**Time Oil Bulk Terminal Site, Cleanup Site ID #14604**  
**Prospective Purchaser Consent Decree No. 20-2-15215-3 SEA**

Dear Ms. Seeds:

Pioneer Engineering & Environmental Services, LLC on behalf of TOC Seattle Terminal 1, LLC submits the attached Quarterly Progress Report for the Time Oil Bulk Terminal Site per Section XII of the Prospective Purchaser Consent Decree between the Washington State Department of Ecology and TOC Seattle Terminal 1, LLC. The quarterly progress report consists of a brief narrative summary of notable activities that occurred during the reporting period and that are anticipated for the upcoming reporting period.

If you have any questions about this report, please contact me at 773-435-3725.

Sincerely,

A handwritten signature in black ink that reads "Kim Hempel". The signature is written in a cursive, flowing style.

Kim Hempel  
Project Coordinator  
Pioneer Engineering & Environmental Services, LLC

Distribution List:  
Doug Ciserella and Mike Ciserella, TOC Seattle Terminal 1, LLC  
Bill Joyce, Hillis Clark Martin & Peterson P.S.  
Jamie Stevens, CRETE Consulting  
Kristin Anderson, Floyd|Snider

**TIME OIL BULK TERMINAL SITE  
PROSPECTIVE PURCHASER CONSENT DECREE NO. 20-2-15215-3 SEA  
QUARTERLY PROGRESS REPORT: JANUARY 1 THROUGH MARCH 31, 2023**

---

This report has been prepared in accordance with the requirements of the Time Oil Bulk Terminal Site Prospective Purchaser Consent Decree (PPCD) between the Washington State Department of Ecology (Ecology) and TOC Seattle Terminal 1, LLC. This progress report provides details on the following: 1) all on site activities; 2) any deviations from required tasks; 3) anticipated problems in meeting schedule or objectives and associated solutions 4) sampling, testing, or other data received; 5) work planned for the upcoming 3-month period; and, 6) deliverables planned for the upcoming 3-month period.

**Summary of On-Site Activities Performed During the Reporting Period (PPCD Section XII.A)**

Activities completed during this reporting period included:

- A visual check of the site was conducted on January 26, 2023. All completed interim surfaces remain in good condition and no concerns were noted during the site visits.
- Floyd|Snider (F|S) met with Axis Survey and Mapping (Axis) at the site on January 26, 2023 so Axis could survey the four new wells installed in late December 2022 (01MW19R, 01MW49R, MW03R, and 02MW04R). Axis returned to the site on February 23, 2023 to confirm well survey measurements.
- F|S personnel collected the first round of post-remediation groundwater samples per the approved Groundwater Monitoring Plan (GMP) on January 31 and February 1, 2023, but were unable to collect samples from MW03R since this well was dry. Baseline samples were not able to be collected at 01MW51 and 01MW87 due to safety concerns in the travel lane of West Commodore Way, as discussed with Ecology prior to the sampling event; the baseline samples from these wells were proposed to be collected after obtaining a right-of-way permit in the 2<sup>nd</sup> Quarter of 2023.

**Deliverables**

Deliverables during this reporting period included the following:

- The Quarterly Progress Report for the fourth quarter of 2022 was submitted to Ecology on January 11, 2023, and associated clarifications were provided to Ecology via email on January 18, 2023.
- Components of the Long-Term Compliance Monitoring Plan (LTCMP) were submitted to Ecology for review as follows:
  - Soil and Remedial Elements Management Plan (SREMP)- previously approved by Ecology on October 18, 2022.
  - Groundwater Monitoring Plan (GMP) - Ecology provided additional comments on the revised GMP, dated November 29, 2022 on January 4, 2023. Revised GMP components were submitted to Ecology on January 17, 19, and 20, 2023; and minor comments were provided by Ecology. The final GMP was submitted to Ecology on January 25, 2023, and subsequently approved by Ecology via email on January 30, 2023.
  - Vapor Intrusion Assessment and Mitigation Plan (VI Plan)- A revised VI Plan was submitted to Ecology for review on January 25, 2023, based on Ecology's comments provided on December 7, 2022. Ecology provided additional comments on the VI Plan on February 6, 2023. A revised VI Plan was submitted to Ecology for review on February 8, 2023, and minor comments were provided by Ecology on February 9, 2023. A revised/final version of the VI Plan was provided to Ecology on February 10, 2023.
  - Ecology provided additional comments on the LTCMP front end text on January 10, 2023. A revised version of the LTCMP front end text was submitted to Ecology for review on January 25, 2023. Minor comments were provided by Ecology on January 30, 2023, and a final version was provided to Ecology on February 9, 2023.

- The final LTCMP including the SREMP, GMP, and VI Plan was submitted to Ecology on February 10, 2023, and Ecology subsequently provided an approval letter for the LTCMP on February 14, 2023.
- A Notice of Transfer Letter regarding Parcel “F”, located on the eastern portion of the Bulk Terminal Property was submitted to Ecology on February 16, 2023, and Ecology provided a written acknowledgement in a letter dated February 23, 2023.
- Revised Financial Assurance documentation was submitted to Ecology for review on March 31, 2023.

**Deviations from Required Tasks (PPCD Section XII.B)**

- None.

**Anticipated Problems in Meeting Schedule or Objectives and Associated Solutions (PPCD Section XII.C and XII.D)**

- There are no anticipated problems in meeting the schedule of deliverables specified in Exhibit D of the PPCD. The schedule of deliverables and activities specified in Table 8.1 of the Cleanup Action Plan (Exhibit C of the PPCD) are currently on track or ahead of schedule.

**Raw Data Received (PPCD Section XII.E)**

- Groundwater sampling results for the 1<sup>st</sup> Quarter 2023 were received from Friedman & Bruya, Inc. on February 13, 2023. Results were received in one sample delivery group (F&BI 203018), appended with results for MNA parameters (anions, sulfide dissolved gases) subcontracted to Fremont Analytical. A copy of the laboratory report for F&BI 203018 is provided as an attachment to this Progress Report.

**Work Planned During the Upcoming Reporting Period (PPCD Section XII.F)**

The following work is planned for the 2<sup>nd</sup> Quarter 2023:

- Second round of groundwater sampling is scheduled for April 7, 2023; and
- Site checks will be conducted periodically to ensure that conditions remain stable during the interim period prior to site development.

**Deliverables Planned During the Upcoming Reporting Period (PPCD Section XII.G)**

The following deliverables are anticipated to be completed during the next quarterly reporting period of April through June 2023:

- Transmittal of a summary of 1st Quarter 2023 groundwater sampling results and associated groundwater contour maps to Ecology via email;
- Submittal of the Quarterly Progress Report for the 1<sup>st</sup> Quarter 2023; and
- Finalization of the Financial Assurance documentation, pending receipt of Ecology comments.

**Other Pertinent Information, Including Changes in Key Personnel**

- A portion of the Time Oil Bulk Terminal site, specifically Lot F located on the eastern side of the Bulk Terminal property, was sold to 2707 W Commodore Way LLC on March 14, 2023.

## Attachments

- Attachment 1 – Laboratory Analytical Reports

**END QUARTERLY PROGRESS REPORT**

**ATTACHMENT 1**

**Laboratory Analytical Reports**

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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

5500 4th Avenue South  
Seattle, WA 98108  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

February 13, 2023

Kristin Anderson, Project Manager  
Floyd-Snyder  
Two Union Square  
601 Union St, Suite 600  
Seattle, WA 98101

Dear Ms Anderson:

Included are the results from the testing of material submitted on February 1, 2023 from the Cantera TOC, F&BI 302018 project. There are 37 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. 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  
FDS0213R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on February 1, 2023 by Friedman & Bruya, Inc. from the Floyd-Snider Cantera TOC, F&BI 302018 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Floyd-Snider</u>
302018 -01	01MW12-013123
302018 -02	01MW35-013123
302018 -03	01MW40-013123
302018 -04	01MW49R-013123
302018 -05	01MW84-013123
302018 -06	01MW84D-013123
302018 -07	01MW85-013123
302018 -08	01MW19R-013123
302018 -09	01MW66-013123
302018 -10	BT-TRIP-BLANK
302018 -11	01MW56-020123
302018 -12	01MW108-020123
302018 -13	01MW46-020123
302018 -14	01MW15-020123
302018 -15	MW05-020123
302018 -16	MW06-020123
302018 -17	02MW19-020123
302018 -18	02MW07-020123
302018 -19	02MW04R-020123
302018 -20	EW-TRIP-BLANK
302018 -21	01MW53-020123

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/13/23  
Date Received: 02/01/23  
Project: Cantera TOC, F&BI 302018  
Date Extracted: 02/07/23  
Date Analyzed: 02/07/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE  
USING METHOD NWTPH-G<sub>x</sub>**  
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
01MW12-013123 302018-01	<100	111
01MW35-013123 302018-02	<100	108
01MW40-013123 302018-03	<100	112
01MW49R-013123 302018-04	<100	112
01MW84-013123 302018-05	2,300	105
01MW84D-013123 302018-06	2,200	99
01MW19R-013123 302018-08	990	110
BT-TRIP-BLANK 302018-10	<100	110
02MW19-020123 302018-17	<100	105
02MW07-020123 302018-18	<100	103
02MW04R-020123 302018-19	<100	101



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/13/23  
Date Received: 02/01/23  
Project: Cantera TOC, F&BI 302018  
Date Extracted: 02/07/23  
Date Analyzed: 02/07/23

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE  
USING METHOD NWTPH-G<sub>x</sub>**  
Results Reported as ug/L (ppb)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	Surrogate <u>(% Recovery)</u> (Limit 50-150)
EW-TRIP-BLANK 302018-20	<100	98
Method Blank 03-220 MB	<100	103

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/13/23  
 Date Received: 02/01/23  
 Project: Cantera TOC, F&BI 302018  
 Date Extracted: 02/03/23  
 Date Analyzed: 02/03/23

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

<u>Sample ID</u> Laboratory ID	<u>Diesel Range</u> (C <sub>10</sub> -C <sub>25</sub> )	<u>Motor Oil Range</u> (C <sub>25</sub> -C <sub>36</sub> )	<u>Surrogate</u> (% Recovery) (Limit 50-150)
01MW12-013123 302018-01	1,000 x	<250	111
01MW35-013123 302018-02	110 x	<250	108
01MW40-013123 302018-03	4,700 x	600 x	96
01MW49R-013123 302018-04	260 x	<250	108
01MW84-013123 302018-05	810 x	<250	104
01MW84D-013123 302018-06	830 x	<250	101
01MW19R-013123 302018-08	910 x	<250	108
02MW19-020123 302018-17	150 x	<250	114
02MW07-020123 302018-18	86 x	<250	109
02MW04R-020123 302018-19	69 x	<250	107
Method Blank 03-308 MB	<50	<250	98

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	02MW19-020123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/02/23	Lab ID:	302018-17 x2
Date Analyzed:	02/08/23	Data File:	302018-17 x2.034
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	SP

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	3.25
---------	------

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	02MW07-020123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/02/23	Lab ID:	302018-18
Date Analyzed:	02/03/23	Data File:	302018-18.095
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	MG

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Floyd-Snider
Date Received:	NA	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/02/23	Lab ID:	I3-72 mb2
Date Analyzed:	02/03/23	Data File:	I3-72 mb2.034
Matrix:	Water	Instrument:	ICPMS2
Units:	ug/L (ppb)	Operator:	MG

Analyte:	Concentration ug/L (ppb)
----------	-----------------------------

Arsenic	<1
---------	----

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW12-013123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-01
Date Analyzed:	02/06/23	Data File:	020609.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	94	71	132
Toluene-d8	91	68	139
4-Bromofluorobenzene	97	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW35-013123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-02
Date Analyzed:	02/06/23	Data File:	020610.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	71	132
Toluene-d8	91	68	139
4-Bromofluorobenzene	99	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW40-013123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-03
Date Analyzed:	02/06/23	Data File:	020611.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	102	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	0.73



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW49R-013123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-04
Date Analyzed:	02/06/23	Data File:	020612.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	93	71	132
Toluene-d8	88	68	139
4-Bromofluorobenzene	97	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW84-013123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-05
Date Analyzed:	02/06/23	Data File:	020613.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	71	132
Toluene-d8	102	68	139
4-Bromofluorobenzene	99	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW84D-013123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-06
Date Analyzed:	02/06/23	Data File:	020614.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	71	132
Toluene-d8	101	68	139
4-Bromofluorobenzene	100	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW85-013123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-07 1/10
Date Analyzed:	02/06/23	Data File:	020624.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	91	71	132
Toluene-d8	91	68	139
4-Bromofluorobenzene	96	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	13
cis-1,2-Dichloroethene	1,200
Trichloroethene	5.7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW19R-013123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-08
Date Analyzed:	02/06/23	Data File:	020615.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	71	132
Toluene-d8	102	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	5.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	BT-TRIP-BLANK	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-10
Date Analyzed:	02/03/23	Data File:	020316.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	78	126
Toluene-d8	105	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW56-020123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-11
Date Analyzed:	02/06/23	Data File:	020616.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	71	132
Toluene-d8	101	68	139
4-Bromofluorobenzene	97	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.99
cis-1,2-Dichloroethene	<1
Trichloroethene	0.81

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW108-020123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-12
Date Analyzed:	02/06/23	Data File:	020617.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	71	132
Toluene-d8	99	68	139
4-Bromofluorobenzene	98	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.27
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW46-020123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-13 1/10
Date Analyzed:	02/06/23	Data File:	020625.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	71	132
Toluene-d8	98	68	139
4-Bromofluorobenzene	99	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	17
cis-1,2-Dichloroethene	140
Trichloroethene	240
Benzene	3.8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW15-020123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-14
Date Analyzed:	02/06/23	Data File:	020618.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	71	132
Toluene-d8	102	68	139
4-Bromofluorobenzene	97	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	36
cis-1,2-Dichloroethene	6.4
Trichloroethene	<0.5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW05-020123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-15 1/10
Date Analyzed:	02/06/23	Data File:	020626.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	71	132
Toluene-d8	99	68	139
4-Bromofluorobenzene	99	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	6.8
cis-1,2-Dichloroethene	360
Trichloroethene	140

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW05-020123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-15
Date Analyzed:	02/03/23	Data File:	020318.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	78	126
Toluene-d8	105	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	1.4

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	MW06-020123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-16
Date Analyzed:	02/06/23	Data File:	020619.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	71	132
Toluene-d8	92	68	139
4-Bromofluorobenzene	104	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	2.6
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Benzene	<0.35

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	02MW19-020123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-17
Date Analyzed:	02/06/23	Data File:	020620.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	71	132
Toluene-d8	98	68	139
4-Bromofluorobenzene	100	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	02MW07-020123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-18
Date Analyzed:	02/06/23	Data File:	020621.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	71	132
Toluene-d8	101	68	139
4-Bromofluorobenzene	99	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	02MW04R-020123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-19
Date Analyzed:	02/06/23	Data File:	020622.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	92	71	132
Toluene-d8	89	68	139
4-Bromofluorobenzene	101	62	136

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	EW-TRIP-BLANK	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-20
Date Analyzed:	02/03/23	Data File:	020317.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	78	126
Toluene-d8	110	84	115
4-Bromofluorobenzene	102	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	01MW53-020123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-21
Date Analyzed:	02/06/23	Data File:	020623.D
Matrix:	Water	Instrument:	GCMS13
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	71	132
Toluene-d8	99	68	139
4-Bromofluorobenzene	99	62	136

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	0.57
cis-1,2-Dichloroethene	5.4
Trichloroethene	2.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Floyd-Snider
Date Received:	Not Applicable	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	03-0264 mb
Date Analyzed:	02/03/23	Data File:	020315.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	78	126
Toluene-d8	106	84	115
4-Bromofluorobenzene	103	72	130

Compounds:	Concentration ug/L (ppb)
Vinyl chloride	<0.02
cis-1,2-Dichloroethene	<1
Trichloroethene	<0.5
Benzene	<0.35

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270E SIM

Client Sample ID:	01MW66-013123	Client:	Floyd-Snider
Date Received:	02/01/23	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	302018-09
Date Analyzed:	02/03/23	Data File:	020320.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2,4,6-Tribromophenol	109	50	150

Compounds:	Concentration ug/L (ppb)
Pentachlorophenol	1.9

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis for Semivolatile Phenols By EPA Method 8270E SIM

Client Sample ID:	Method Blank	Client:	Floyd-Snider
Date Received:	Not Applicable	Project:	Cantera TOC, F&BI 302018
Date Extracted:	02/03/23	Lab ID:	03-310 mb
Date Analyzed:	02/03/23	Data File:	020319.D
Matrix:	Water	Instrument:	GCMS12
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
2,4,6-Tribromophenol	79	50	150

Compounds:	Concentration ug/L (ppb)
Pentachlorophenol	<0.2

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/13/23

Date Received: 02/01/23

Project: Cantera TOC, F&BI 302018

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR TPH AS GASOLINE  
USING METHOD NWTPH-G<sub>x</sub>**

Laboratory Code: 302017-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	<100	<100	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	93	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/13/23

Date Received: 02/01/23

Project: Cantera TOC, F&BI 302018

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL EXTENDED USING METHOD NWTPH-D<sub>x</sub>**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	ug/L (ppb)	2,500	120	112	70-130	7

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/13/23

Date Received: 02/01/23

Project: Cantera TOC, F&BI 302018

**QUALITY ASSURANCE RESULTS  
FOR THE ANALYSIS OF WATER SAMPLES  
FOR TOTAL METALS USING EPA METHOD 6020B**

Laboratory Code: 301238-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	ug/L (ppb)	10	2.06	83	79	75-125	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	ug/L (ppb)	10	89	80-120



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/13/23

Date Received: 02/01/23

Project: Cantera TOC, F&BI 302018

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

Laboratory Code: 302018-15 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
				Recovery MS	Recovery MSD		
Vinyl chloride	ug/L (ppb)	10	7.8	96	108	50-150	12
cis-1,2-Dichloroethene	ug/L (ppb)	10	350	145	270 b	50-150	60 b
Benzene	ug/L (ppb)	10	1.4	105	106	50-150	1
Trichloroethene	ug/L (ppb)	10	140	7 b	109	50-150	176 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCS D		
Vinyl chloride	ug/L (ppb)	10	113	111	70-130	2
cis-1,2-Dichloroethene	ug/L (ppb)	10	98	104	70-130	6
Benzene	ug/L (ppb)	10	100	104	70-130	4
Trichloroethene	ug/L (ppb)	10	97	100	70-130	3
Toluene	ug/L (ppb)	10	97	107	70-130	10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 02/13/23

Date Received: 02/01/23

Project: Cantera TOC, F&BI 302018

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF WATER  
SAMPLES FOR SEMIVOLATILE PHENOLS BY EPA METHOD 8270E SIM**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 30)
Pentachlorophenol	ug/L (ppb)	2.5	101	88	70-130	14

# 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 analyte 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 due to sample matrix effects.

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.

302018

SAMPLE CHAIN OF CUSTODY

02-01-23 Jw4/F3/J2 3

Report To Kristin Anderson  
 Company Floyd Snider  
 Address 601 Union St, Suite 600  
 City, State, ZIP Seattle, WA 98101  
 Phone 206-292-2079 Email \_\_\_\_\_

SAMPLERS (signature) [Signature]  
 PROJECT NAME Cantera TOC PO # \_\_\_\_\_  
 REMARKS CVOCs = TCE, cis-1,2-DCE and vinyl chloride  
 Project specific RLs? - Yes / No

Page # \_\_\_\_\_ of \_\_\_\_\_  
 TURNAROUND TIME  
 Standard turnaround  
 RUSH  
 Rush charges authorized by: \_\_\_\_\_  
 SAMPLE DISPOSAL  
 Archive samples  
 Other \_\_\_\_\_  
 Default. Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED											Notes					
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PCBs EPA 8082	Benzene b-1	CVOCs b-2	Nitrate, Nitrite + Sulfate (3000)	Sulfide SM4500	Methane, Ethane Ethene (RSLK-175)						
01MW12-013123	01A-H	1/31/23	09:30	GW	8	✓	✓															
01MW35-013123	02		10:37	GW	8	✓	✓															
01MW40-013123	03		11:20	GW	8	✓	✓															
01MW49R-013123	04		12:02	GW	8	✓	✓															
01MW84-013123	05		13:47	GW	8	✓	✓															
01MW84D-013123	06		13:57	GW	8	✓	✓															
01MW85-013123	07A-K		16:12	GW	11										✓	✓	✓	✓				
01MW19R-013123	08A-H		16:30	GW	8	✓	✓								✓							
01MW66-013123	09A-C		14:15	GW	3									✓								
BT-TRIP-BLANK	10A-B		09:00	W	2		✓								✓							

Friedman & Bruya, Inc.  
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	Pamela Osterhout	Floyd Snider	2/1/23	1801
Received by: <u>[Signature]</u>	VINLT	FBI	2-1-23	1801
Relinquished by:				
Received by:		Samples received at	4 °C	

302018

SAMPLE CHAIN OF CUSTODY

02-01-23

VW4/F3/J2  
Page # 2 of 3

Report To Kristin Anderson  
 Company Floyd Snider  
 Address \_\_\_\_\_  
 City, State, ZIP see page 1  
 Phone \_\_\_\_\_ Email \_\_\_\_\_

SAMPLERS (signature) [Signature]  
 PROJECT NAME Cantera TOC PO # \_\_\_\_\_  
 REMARKS CVOCs = TCE, Cis-1,2-DCE + vinyl chloride INVOICE TO \_\_\_\_\_  
 Project specific RLs? - Yes / No

TURNAROUND TIME  
 Standard turnaround  
 RUSH  
 Rush charges authorized by: \_\_\_\_\_  
 SAMPLE DISPOSAL  
 Archive samples  
 Other \_\_\_\_\_  
 Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes							
						NWTPH-Dx	NWTPH-Gx	BEAUFORT 8260 #1 EPA 8024	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	CVOCs (6220)	Nitrate, Nitrite Fertilizer 3000	Sulfide SM4500		CO2/B	Total Arsenic					
01MW56-020123 <del>013</del> (ep)	11 A-H	2/1/23	09:07	GW	8																		
01MW108-020123	12 A-F		09:10	GW	6																		
01MW46-020123	13 A-H		09:30	GW	8																		
01MW15-020123	14 A-F		11:00	GW	6																	(No Benzene)	
MW05-020123	15 A-N		12:26	GW	8 <sup>14</sup>																	MS/MSD	
MW06-020123	16 A-H		12:35	GW	8																		
02MW19-020123	17 A-I		14:12	GW	9	✓	✓	✓														✓	
02MW07-020123	18 A-I		14:20	GW	9	✓	✓	✓														✓	
02MW04R-020123	19 A-H		15:35	GW	8	✓	✓	✓															
EW-TRIP-BLANK	20 A-B		09:00	W	2		✓	✓															

Friedman & Bruya, Inc.  
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>[Signature]</u>	P Osterhout	FIS	2/1/23	1801
Received by: <u>[Signature]</u>	VINH	FBI	2-1-23	1801
Relinquished by:				
Received by:		Samples received at	4°C	

302018

SAMPLE CHAIN OF CUSTODY

02-01-23

VW 4/F3/J2

Report To Kristin Anderson  
 Company Floyd Snider  
 Address \_\_\_\_\_  
 City, State, ZIP \_\_\_\_\_  
 Phone \_\_\_\_\_ Email \_\_\_\_\_

SAMPLERS (signature) Pullstuit  
 PROJECT NAME Cantera TCC PO # \_\_\_\_\_  
 REMARKS FCC INVOICE TO \_\_\_\_\_  
 Project specific RLs? - Yes / No

Page # 3 of 3  
 TURNAROUND TIME  
 Standard turnaround  
 RUSH  
 Rush charges authorized by: \_\_\_\_\_  
 SAMPLE DISPOSAL  
 Archive samples  
 Other \_\_\_\_\_  
 Default: Dispose after 30 days

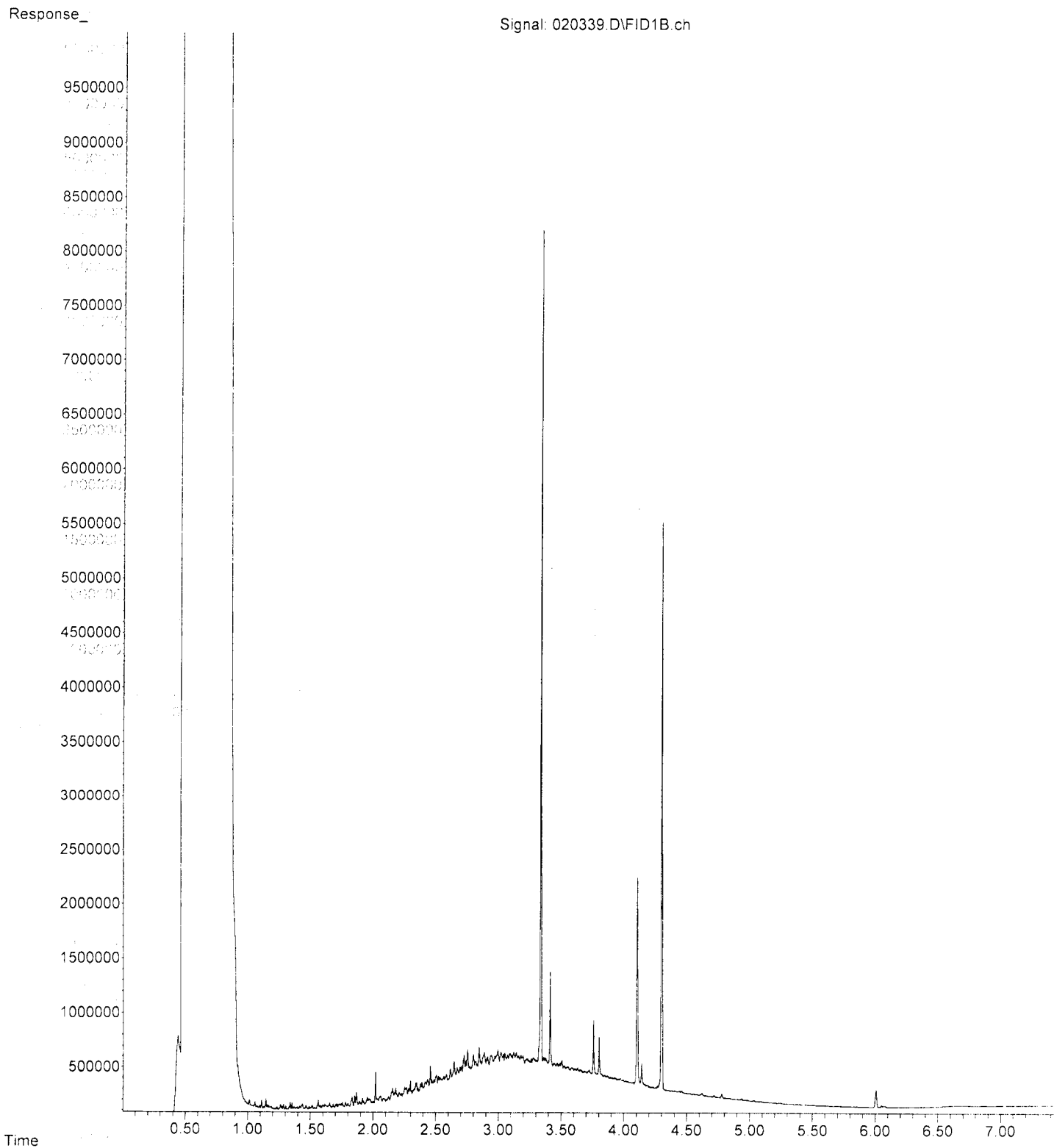
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes						
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	TCE, cis-1,2-DCE, vinyl chloride by H2601									
01MWS3-020123	21A-F	2/1/23	10:50	BW	6																	

Friedman & Bruya, Inc.  
 Ph. (206) 285-8282

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <u>Pullstuit</u>	<u>P. Osterhout</u>	<u>F/S</u>	<u>2/1/23</u>	<u>1001</u>
Received by: <u>Over</u>	<u>VINH</u>	<u>FBI</u>	<u>2-1-23</u>	<u>1801</u>
Relinquished by:				
Received by:		Samples received at <u>4</u> °C		

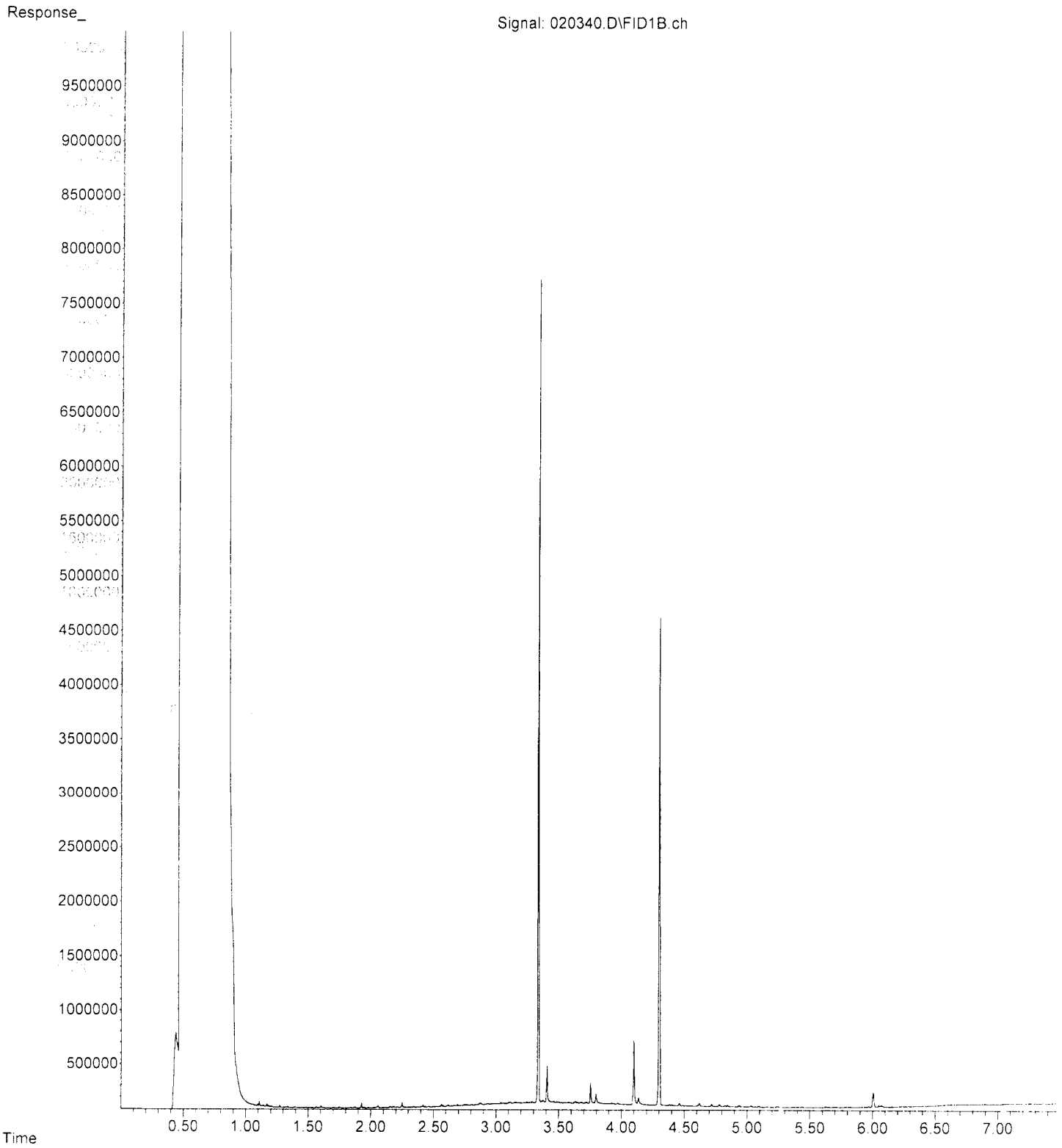
File : P:\Proc\_GC13\02-03-23\020339.D  
Operator : TL  
Acquired : 03 Feb 2023 04:08 pm using AcqMethod Dx.M  
Instrument : GC13  
Sample Name: 302018-01  
Misc Info :  
Vial Number: 37

ERR



File : P:\Proc\_GC13\02-03-23\020340.D  
Operator : TL  
Acquired : 03 Feb 2023 04:19 pm using AcqMethod Dx.M  
Instrument : GC13  
Sample Name : 302018-02  
Misc Info :  
Vial Number : 38

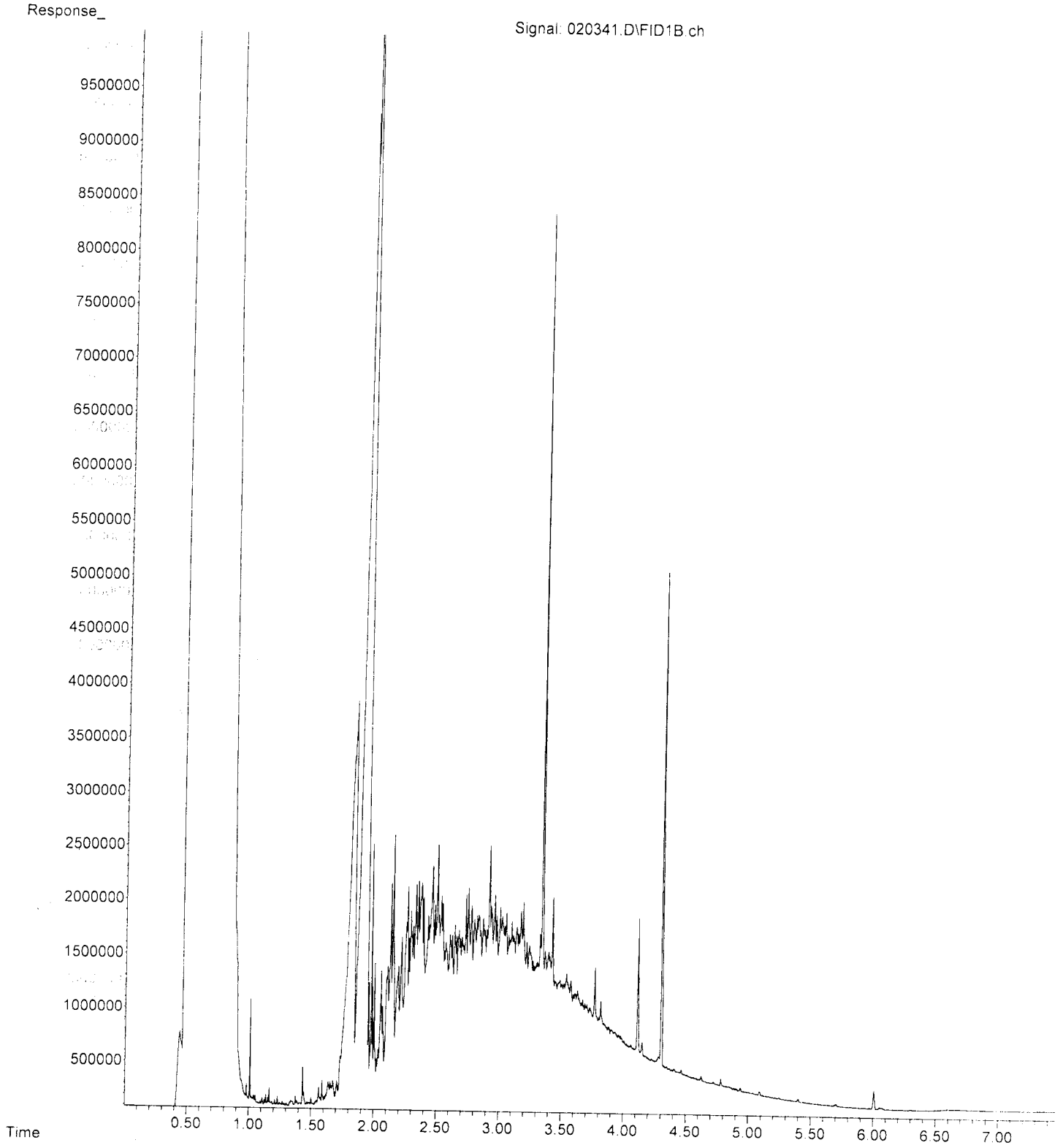
ERR





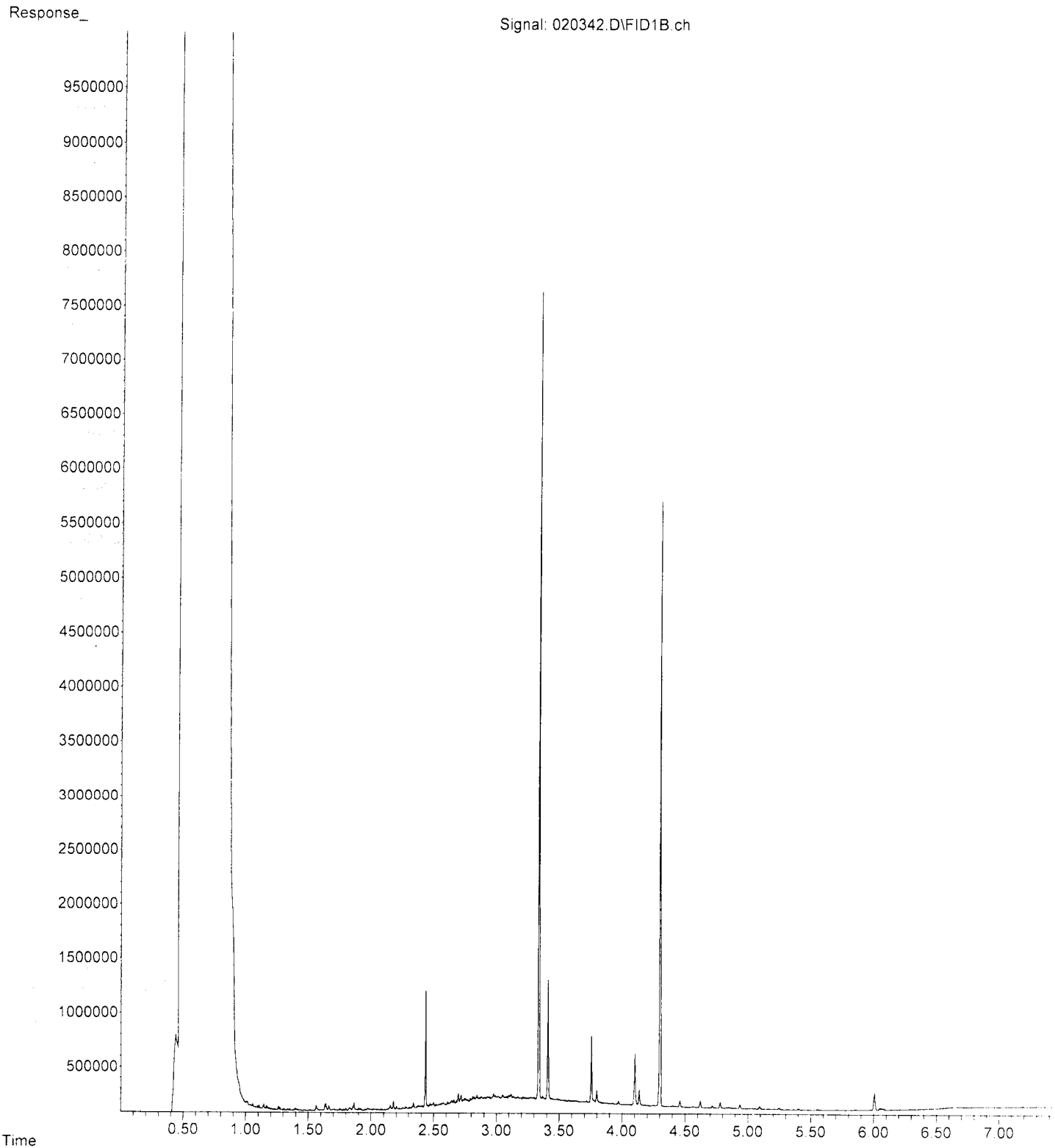
File : P:\Proc\_GC13\02-03-23\020341.D  
Operator : TL  
Acquired : 03 Feb 2023 04:30 pm using AcqMethod Dx.M  
Instrument : GC13  
Sample Name: 302018-03  
Misc Info :  
Vial Number: 39

ERR



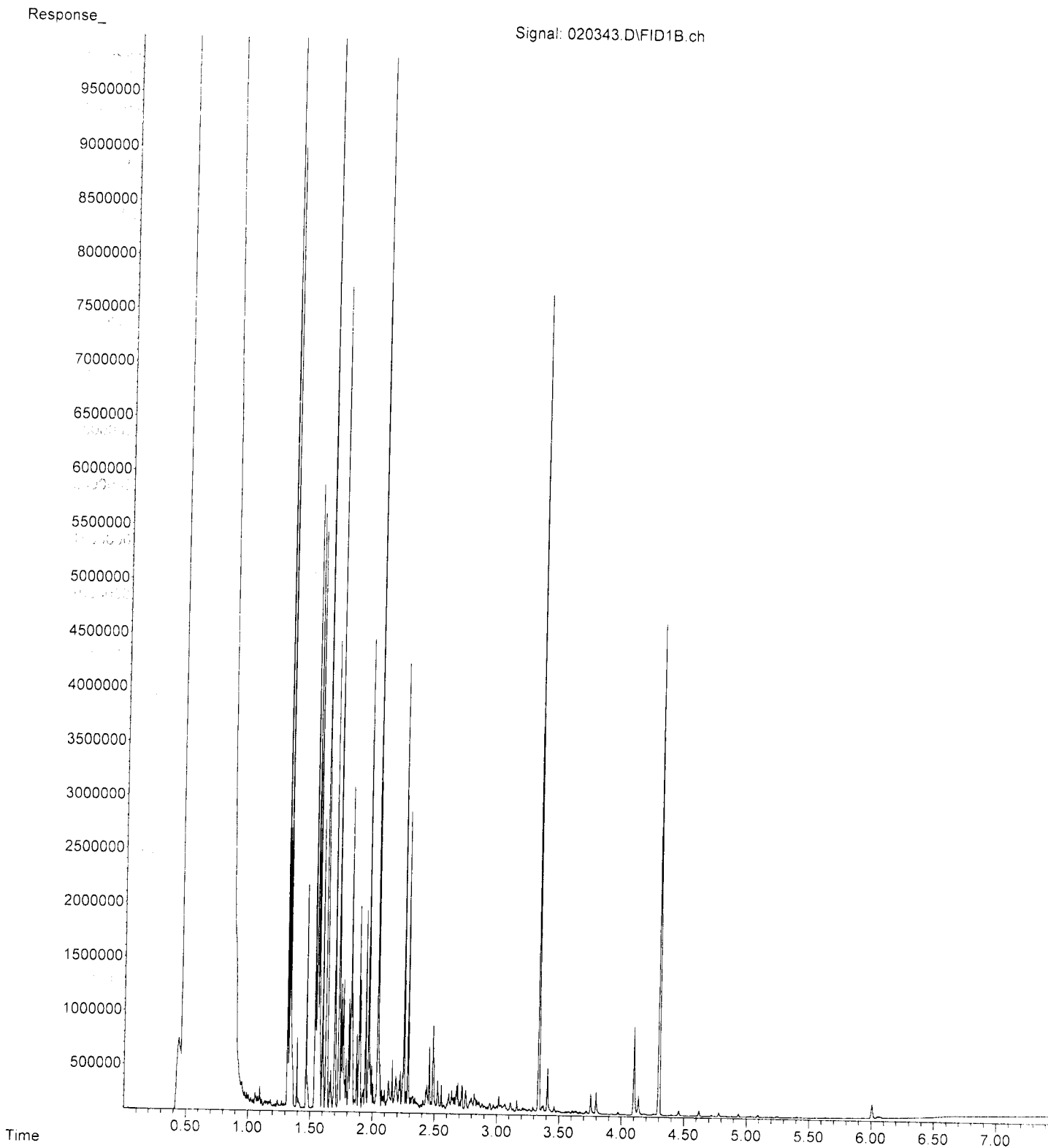
File : P:\Proc\_GC13\02-03-23\020342.D  
Operator : TL  
Acquired : 03 Feb 2023 04:42 pm using AcqMethod Dx.M  
Instrument : GC13  
Sample Name: 302018-04  
Misc Info :  
Vial Number: 40

ERR



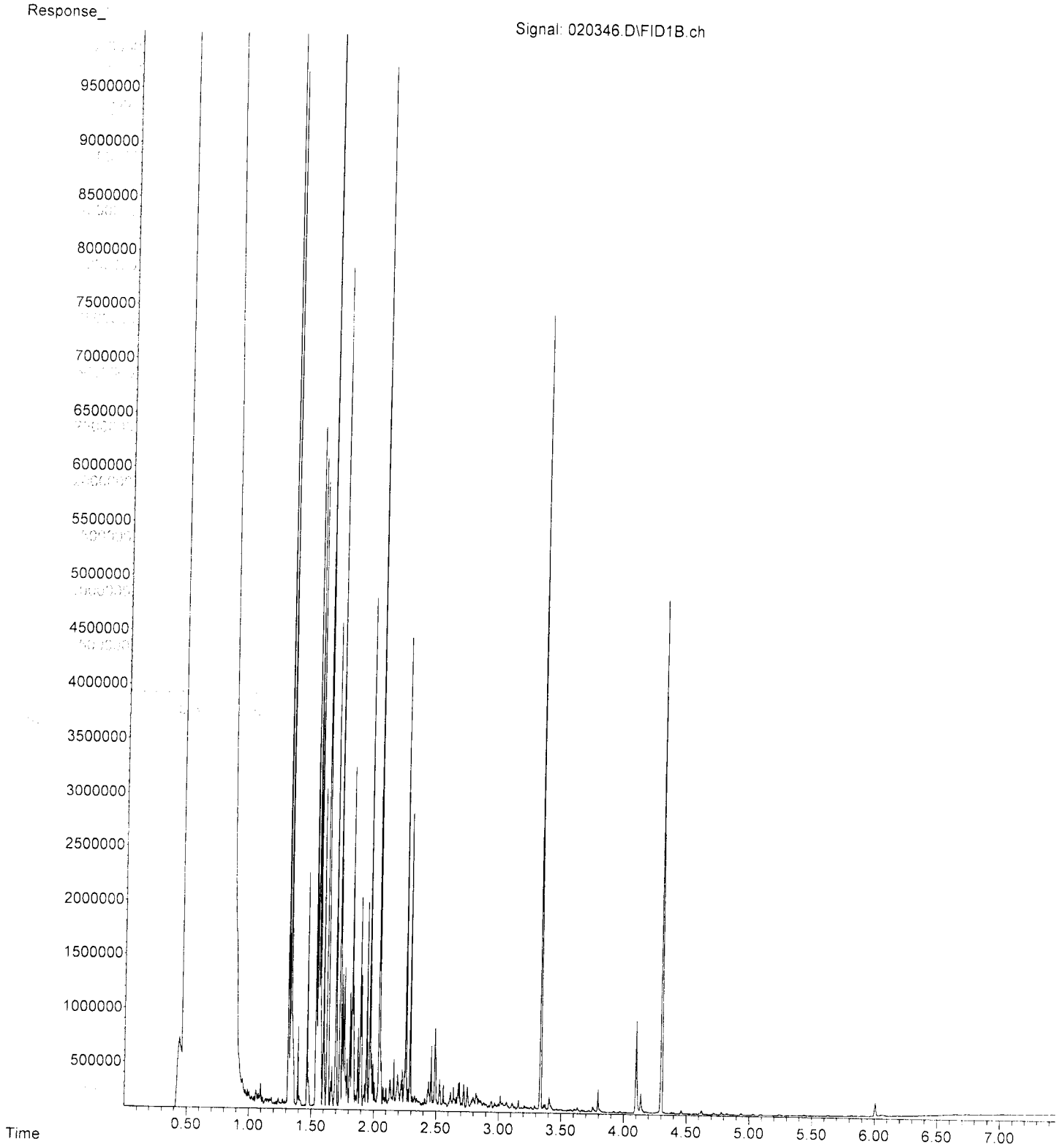
File : P:\Proc\_GC13\02-03-23\020343.D  
Operator : TL  
Acquired : 03 Feb 2023 04:53 pm using AcqMethod Dx.M  
Instrument : GC13  
Sample Name: 302018-05  
Misc Info :  
Vial Number: 41

ERR



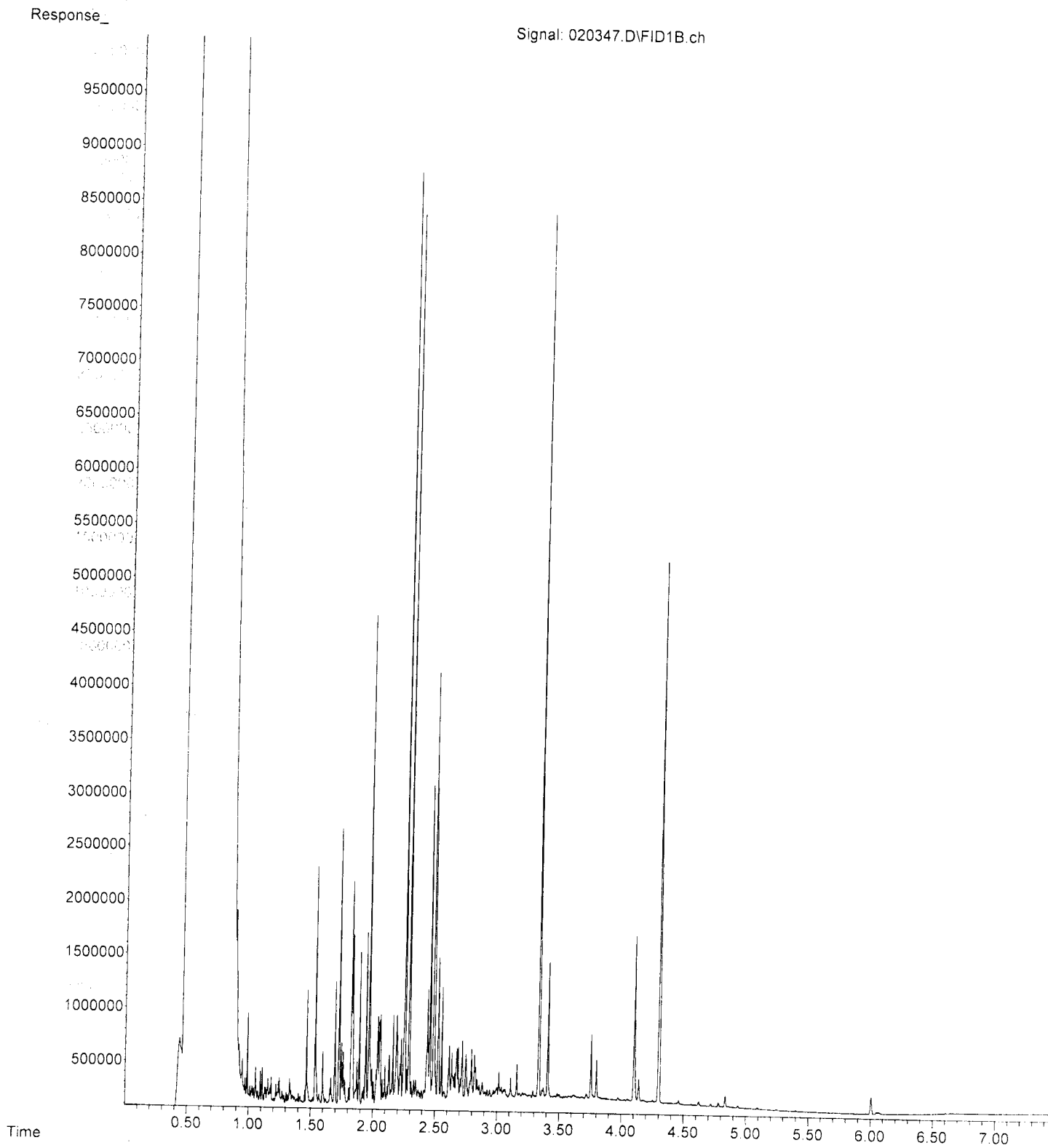
File : P:\Proc\_GC13\02-03-23\020346.D  
Operator : TL  
Acquired : 03 Feb 2023 05:27 pm using AcqMethod Dx.M  
Instrument : GC13  
Sample Name: 302018-06  
Misc Info :  
Vial Number: 42

ERR



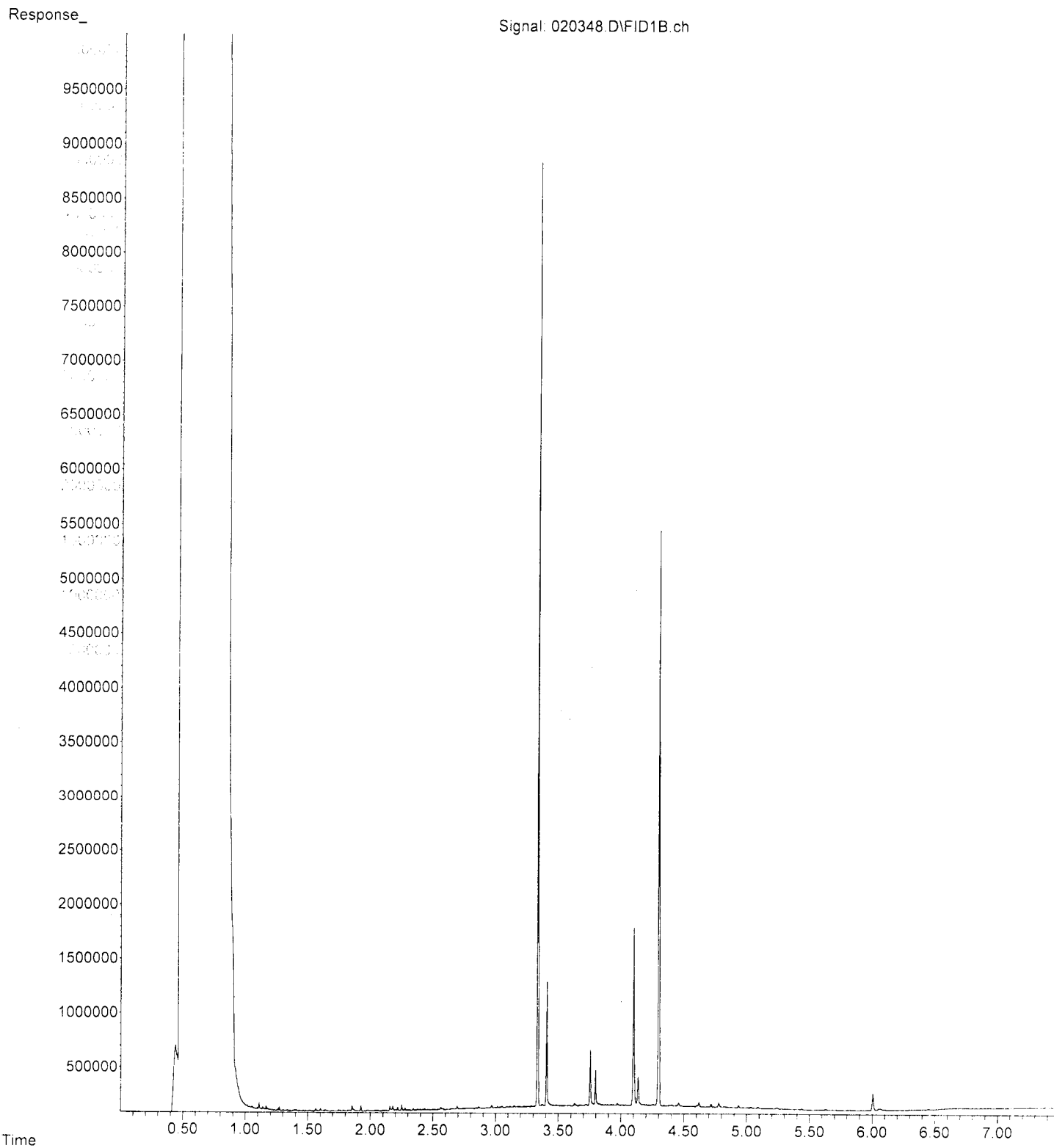
File : P:\Proc\_GC13\02-03-23\020347.D  
Operator : TL  
Acquired : 03 Feb 2023 05:38 pm using AcqMethod Dx.M  
Instrument : GC13  
Sample Name: 302018-08  
Misc Info :  
Vial Number: 43

ERR



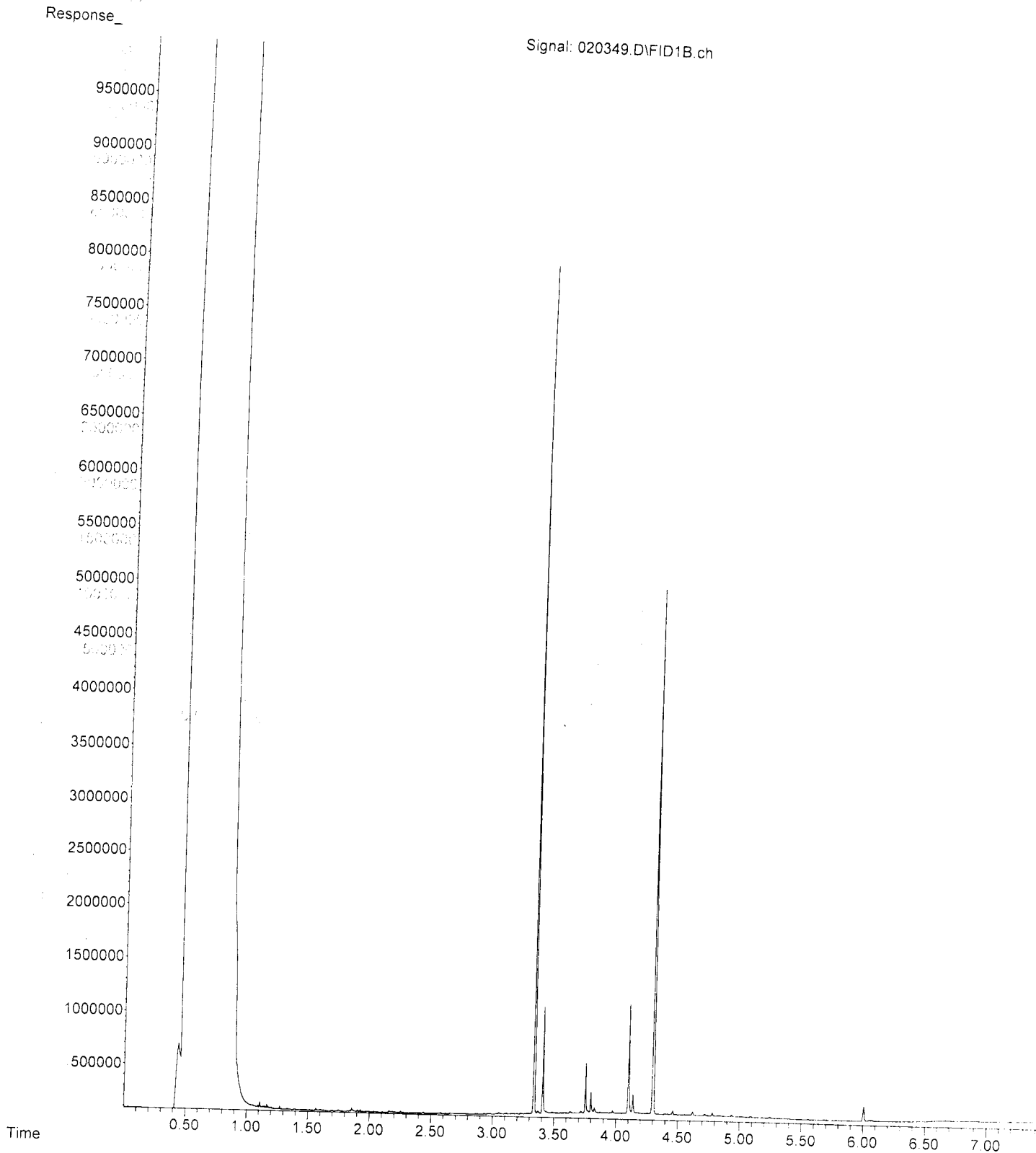
File : P:\Proc\_GC13\02-03-23\020348.D  
Operator : TL  
Acquired : 03 Feb 2023 05:49 pm using AcqMethod Dx.M  
Instrument : GC13  
Sample Name: 302018-17  
Misc Info :  
Vial Number: 44

ERR



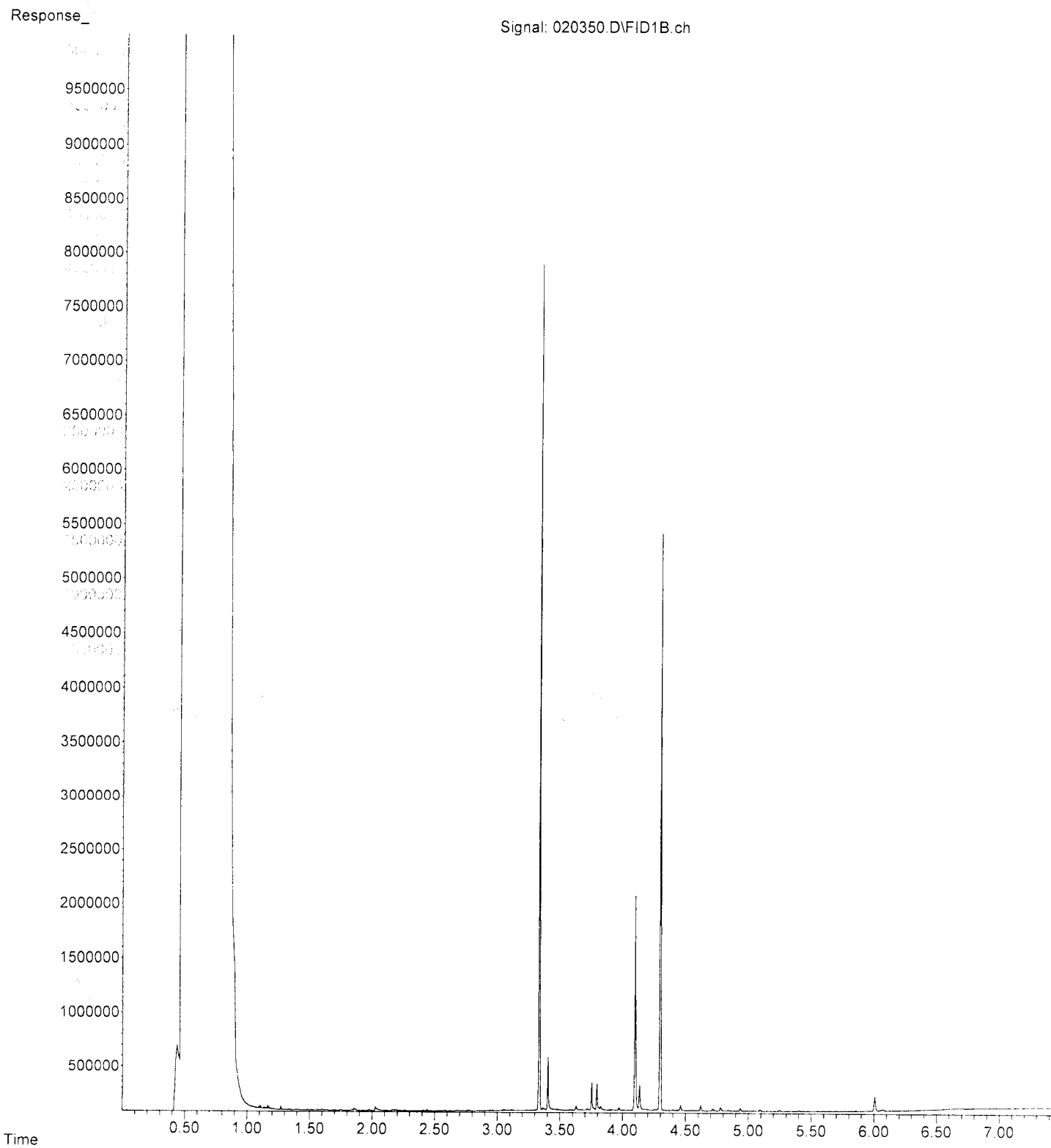
File : P:\Proc\_GC13\02-03-23\020349.D  
Operator : TL  
Acquired : 03 Feb 2023 06:01 pm using AcqMethod Dx.M  
Instrument : GC13  
Sample Name: 302018-18  
Misc Info :  
Vial Number: 45

ERR



File : P:\Proc\_GC13\02-03-23\020350.D  
Operator : TL  
Acquired : 03 Feb 2023 06:12 pm using AcqMethod Dx.M  
Instrument : GC13  
Sample Name: 302018-19  
Misc Info :  
Vial Number: 46

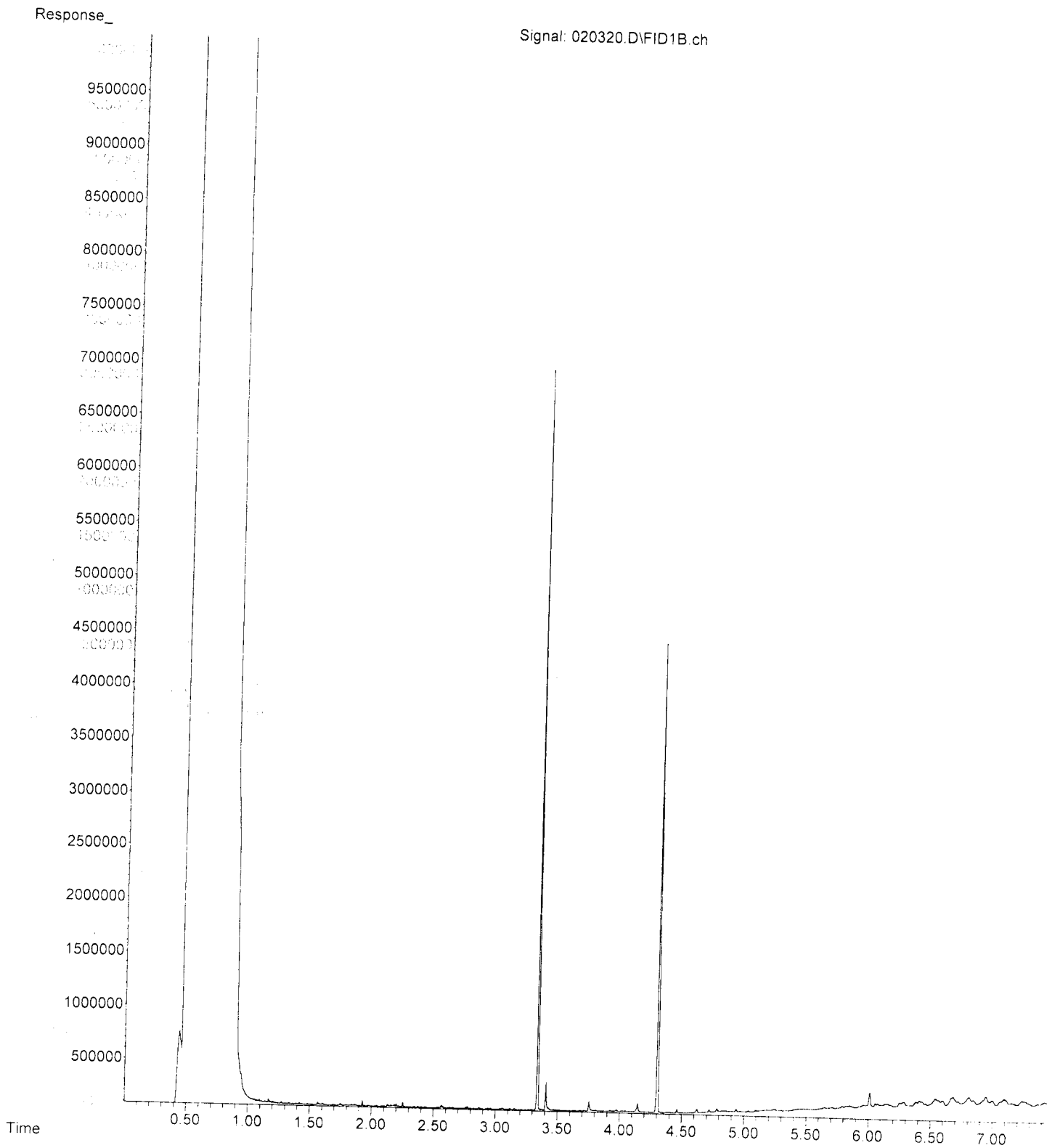
ERR





File : P:\Proc\_GC13\02-03-23\020320.D  
Operator : TL  
Acquired : 03 Feb 2023 12:34 pm using AcqMethod Dx.M  
Instrument : GC13  
Sample Name: 03-308 mb  
Misc Info :  
Vial Number: 22

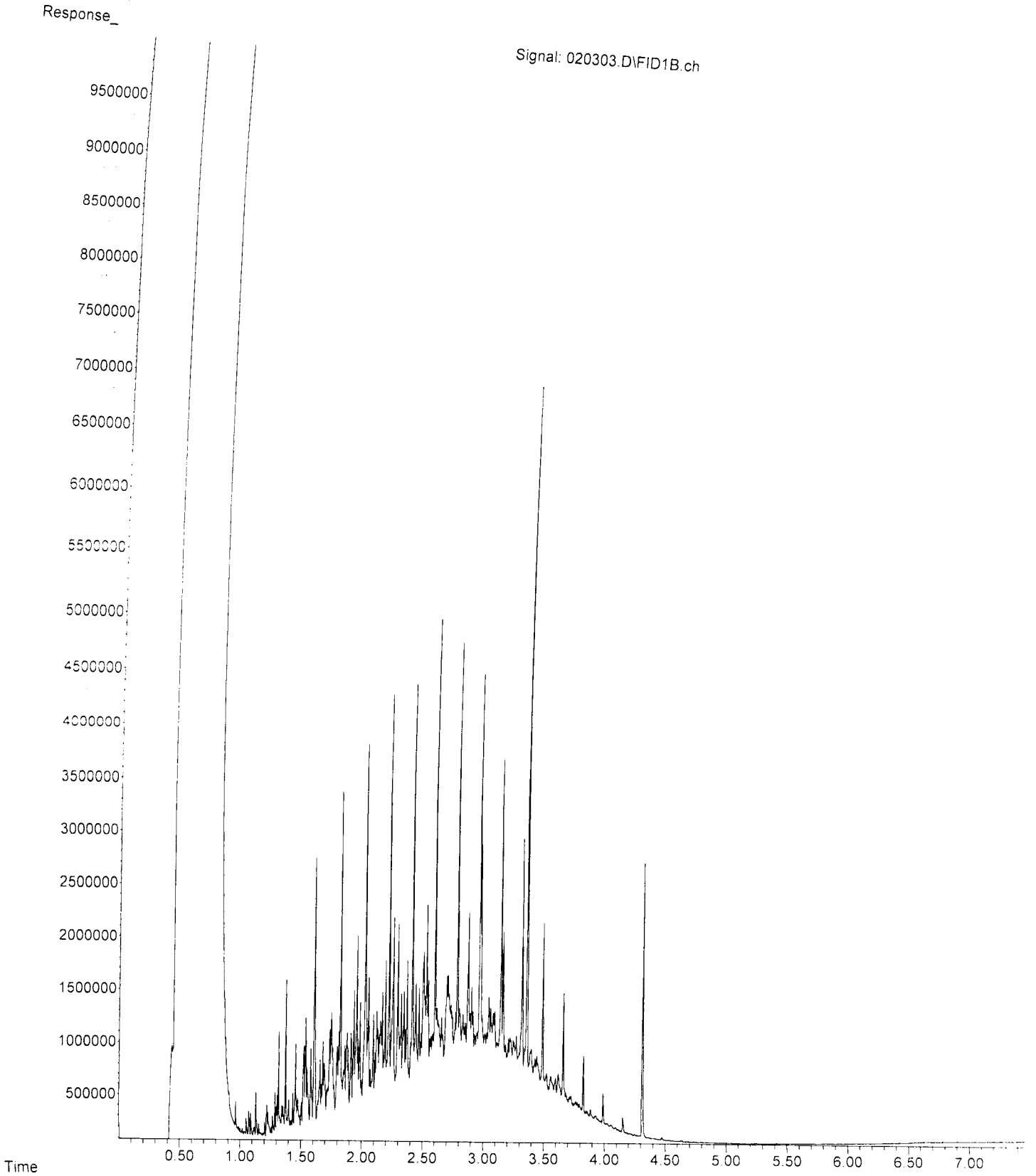
ERR



File : P:\Proc\_GC13\02-03-23\020303.D  
Operator : TL  
Acquired : 03 Feb 2023 08:52 am using AcqMethod Dx.M  
Instrument : GC13  
Sample Name : 500 Dx 67-143B  
Misc Info :  
Vial Number : 3

ERR

Signal: 020303.D\FID1B.ch





**Friedman & Bruya**

Michael Erdahl  
5500 4th Ave S  
Seattle, WA 98108

**RE: 302018**

**Work Order Number: 2302048**

February 10, 2023

**Attention Michael Erdahl:**

Fremont Analytical, Inc. received 5 sample(s) on 2/2/2023 for the analyses presented in the following report.

***Dissolved Gases by RSK-175***

***Ion Chromatography by EPA Method 300.0***

***Sulfide by SM 4500-S2-F***

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,

Brianna Barnes  
Project Manager



---

**CLIENT:** Friedman & Bruya  
**Project:** 302018  
**Work Order:** 2302048

---

**Work Order Sample Summary**

---

<b>Lab Sample ID</b>	<b>Client Sample ID</b>	<b>Date/Time Collected</b>	<b>Date/Time Received</b>
2302048-001	01MW85-013123	01/31/2023 4:12 PM	02/02/2023 2:14 PM
2302048-002	01MW56-020123	02/01/2023 9:07 AM	02/02/2023 2:14 PM
2302048-003	01MW46-020123	02/01/2023 9:30 AM	02/02/2023 2:14 PM
2302048-004	MW05-020123	02/01/2023 12:26 PM	02/02/2023 2:14 PM
2302048-005	MW06-020123	02/01/2023 12:35 PM	02/02/2023 2:14 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

---

**CLIENT:** Friedman & Bruya  
**Project:** 302018

---

**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").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. 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 and the MS/MSD 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:

- \* - 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
- 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
- DUP - Sample Duplicate
- HEM - Hexane Extractable Material
- ICV - Initial Calibration Verification
- LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
- MCL - Maximum Contaminant Level
- MB or MBLANK - Method Blank
- MDL - Method Detection Limit
- MS/MSD - Matrix Spike / Matrix Spike Duplicate
- PDS - Post Digestion Spike
- Ref Val - Reference Value
- REP - Sample Replicate
- RL - Reporting Limit
- RPD - Relative Percent Difference
- SD - Serial Dilution
- SGT - Silica Gel Treatment
- SPK - Spike
- Surr - Surrogate



**CLIENT:** Friedman & Bruya  
**Project:** 302018

**Lab ID:** 2302048-001

**Collection Date:** 1/31/2023 4:12:00 PM

**Client Sample ID:** 01MW85-013123

**Matrix:** Water

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

**Dissolved Gases by RSK-175**

Batch ID: R81757 Analyst: LB

Methane	1.75	0.0675	D	mg/L	10	2/9/2023 3:38:00 PM
Ethene	ND	0.0146		mg/L	1	2/9/2023 3:14:00 PM
Ethane	ND	0.0151		mg/L	1	2/9/2023 3:14:00 PM

**Ion Chromatography by EPA Method 300.0**

Batch ID: 39317 Analyst: AT

Nitrite (as N)	ND	1.20	DH	mg/L	10	2/2/2023 10:51:00 PM
Nitrate (as N)	ND	1.00	DH	mg/L	10	2/2/2023 10:51:00 PM
Sulfate	7.69	6.00	D	mg/L	10	2/2/2023 10:51:00 PM

**Sulfide by SM 4500-S2-F**

Batch ID: R81758 Analyst: SS

Sulfide	ND	0.500	H	mg/L	1	2/8/2023 4:00:00 PM
---------	----	-------	---	------	---	---------------------

**Lab ID:** 2302048-002

**Collection Date:** 2/1/2023 9:07:00 AM

**Client Sample ID:** 01MW56-020123

**Matrix:** Water

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

**Ion Chromatography by EPA Method 300.0**

Batch ID: 39317 Analyst: AT

Nitrite (as N)	ND	1.20	D	mg/L	10	2/2/2023 11:15:00 PM
Nitrate (as N)	0.330	1.00	DJ	mg/L	10	2/2/2023 11:15:00 PM
Sulfate	25.1	6.00	D	mg/L	10	2/2/2023 11:15:00 PM

**Sulfide by SM 4500-S2-F**

Batch ID: R81758 Analyst: SS

Sulfide	ND	0.500		mg/L	1	2/8/2023 4:00:00 PM
---------	----	-------	--	------	---	---------------------



**CLIENT:** Friedman & Bruya  
**Project:** 302018

**Lab ID:** 2302048-003

**Collection Date:** 2/1/2023 9:30:00 AM

**Client Sample ID:** 01MW46-020123

**Matrix:** Water

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

**Ion Chromatography by EPA Method 300.0**

Batch ID: 39317

Analyst: AT

Nitrite (as N)	ND	1.20	D	mg/L	10	2/2/2023 11:38:00 PM
Nitrate (as N)	ND	1.00	D	mg/L	10	2/2/2023 11:38:00 PM
Sulfate	144	6.00	D	mg/L	10	2/2/2023 11:38:00 PM

**Sulfide by SM 4500-S2-F**

Batch ID: R81758

Analyst: SS

Sulfide	0.200	0.500	J	mg/L	1	2/8/2023 4:00:00 PM
---------	-------	-------	---	------	---	---------------------

**Lab ID:** 2302048-004

**Collection Date:** 2/1/2023 12:26:00 PM

**Client Sample ID:** MW05-020123

**Matrix:** Water

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

**Ion Chromatography by EPA Method 300.0**

Batch ID: 39317

Analyst: AT

Nitrite (as N)	ND	1.20	D	mg/L	10	2/3/2023 12:01:00 AM
Nitrate (as N)	ND	1.00	D	mg/L	10	2/3/2023 12:01:00 AM
Sulfate	76.6	6.00	D	mg/L	10	2/3/2023 12:01:00 AM

**Sulfide by SM 4500-S2-F**

Batch ID: R81758

Analyst: SS

Sulfide	1.00	0.500		mg/L	1	2/8/2023 4:00:00 PM
---------	------	-------	--	------	---	---------------------





**CLIENT:** Friedman & Bruya  
**Project:** 302018

**Lab ID:** 2302048-005

**Collection Date:** 2/1/2023 12:35:00 PM

**Client Sample ID:** MW06-020123

**Matrix:** Water

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b><u>Ion Chromatography by EPA Method 300.0</u></b>				Batch ID: 39317		Analyst: AT
Nitrite (as N)	ND	1.20	D	mg/L	10	2/3/2023 1:34:00 AM
Nitrate (as N)	ND	1.00	D	mg/L	10	2/3/2023 1:34:00 AM
Sulfate	42.1	6.00	D	mg/L	10	2/3/2023 1:34:00 AM
<b><u>Sulfide by SM 4500-S2-F</u></b>				Batch ID: R81758		Analyst: SS
Sulfide	ND	0.500		mg/L	1	2/8/2023 4:00:00 PM

Work Order: 2302048  
 CLIENT: Friedman & Bruya  
 Project: 302018

**QC SUMMARY REPORT**  
**Ion Chromatography by EPA Method 300.0**

Sample ID: <b>MB-39317A</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date: <b>2/2/2023</b>	RunNo: <b>81754</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>39317</b>		Analysis Date: <b>2/2/2023</b>	SeqNo: <b>1694599</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrite (as N)	ND	0.120									
Nitrate (as N)	ND	0.100									
Sulfate	ND	0.600									

Sample ID: <b>LCS-39317</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>	Prep Date: <b>2/2/2023</b>	RunNo: <b>81754</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>39317</b>		Analysis Date: <b>2/2/2023</b>	SeqNo: <b>1694600</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrite (as N)	0.739	0.120	0.7500	0	98.5	90	110				
Nitrate (as N)	0.746	0.100	0.7500	0	99.5	90	110				
Sulfate	3.66	0.600	3.750	0	97.5	90	110				

Sample ID: <b>2302048-004ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/L</b>	Prep Date: <b>2/2/2023</b>	RunNo: <b>81754</b>							
Client ID: <b>MW05-020123</b>	Batch ID: <b>39317</b>		Analysis Date: <b>2/3/2023</b>	SeqNo: <b>1694614</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrite (as N)	ND	1.20						0	0	20	D
Nitrate (as N)	ND	1.00						0	0	20	D
Sulfate	76.1	6.00						76.60	0.668	20	D

Sample ID: <b>2302048-004AMS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>	Prep Date: <b>2/2/2023</b>	RunNo: <b>81754</b>							
Client ID: <b>MW05-020123</b>	Batch ID: <b>39317</b>		Analysis Date: <b>2/3/2023</b>	SeqNo: <b>1694615</b>							
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrite (as N)	7.24	1.20	7.500	0	96.5	80	120				D
Nitrate (as N)	7.29	1.00	7.500	0	97.2	80	120				D
Sulfate	112	6.00	37.50	76.60	95.1	80	120				D

Work Order: 2302048  
 CLIENT: Friedman & Bruya  
 Project: 302018

**QC SUMMARY REPORT**  
 Ion Chromatography by EPA Method 300.0

Sample ID: <b>2302048-004AMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/L</b>				Prep Date: <b>2/2/2023</b>	RunNo: <b>81754</b>				
Client ID: <b>MW05-020123</b>	Batch ID: <b>39317</b>					Analysis Date: <b>2/3/2023</b>	SeqNo: <b>1694616</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrite (as N)	7.11	1.20	7.500	0	94.8	80	120	7.240	1.81	20	D
Nitrate (as N)	7.14	1.00	7.500	0	95.2	80	120	7.290	2.08	20	D
Sulfate	111	6.00	37.50	76.60	91.9	80	120	112.3	1.09	20	D

Sample ID: <b>2302028-001ADUP</b>	SampType: <b>DUP</b>	Units: <b>mg/L</b>				Prep Date: <b>2/2/2023</b>	RunNo: <b>81754</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>39317</b>					Analysis Date: <b>2/3/2023</b>	SeqNo: <b>1694635</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrite (as N)	ND	12.0						0	0	20	D
Nitrate (as N)	ND	10.0						0	0	20	D
Sulfate	ND	60.0						0	0	20	D

Sample ID: <b>2302028-001AMS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>				Prep Date: <b>2/2/2023</b>	RunNo: <b>81754</b>				
Client ID: <b>BATCH</b>	Batch ID: <b>39317</b>					Analysis Date: <b>2/3/2023</b>	SeqNo: <b>1694636</b>				
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Nitrite (as N)	73.2	12.0	75.00	0	97.6	80	120				D
Nitrate (as N)	72.8	10.0	75.00	0	97.1	80	120				D
Sulfate	354	60.0	375.0	0	94.4	80	120				D

Work Order: 2302048  
 CLIENT: Friedman & Bruya  
 Project: 302018

**QC SUMMARY REPORT**  
**Sulfide by SM 4500-S2-F**

Sample ID: <b>MB-R81758</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date: <b>2/8/2023</b>	RunNo: <b>81758</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R81758</b>	Analysis Date: <b>2/8/2023</b>	SeqNo: <b>1694731</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	ND	0.500									

Sample ID: <b>LCS-R81758</b>	SampType: <b>LCS</b>	Units: <b>mg/L</b>	Prep Date: <b>2/8/2023</b>	RunNo: <b>81758</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R81758</b>	Analysis Date: <b>2/8/2023</b>	SeqNo: <b>1694732</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	1.60	0.500	2.000	0	80.0	55.8	124				

Sample ID: <b>2302048-004BDUP</b>	SampType: <b>DUP</b>	Units: <b>mg/L</b>	Prep Date: <b>2/8/2023</b>	RunNo: <b>81758</b>							
Client ID: <b>MW05-020123</b>	Batch ID: <b>R81758</b>	Analysis Date: <b>2/8/2023</b>	SeqNo: <b>1694737</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	1.00	0.500						1.000	0	30	

Sample ID: <b>2302048-004BMS</b>	SampType: <b>MS</b>	Units: <b>mg/L</b>	Prep Date: <b>2/8/2023</b>	RunNo: <b>81758</b>							
Client ID: <b>MW05-020123</b>	Batch ID: <b>R81758</b>	Analysis Date: <b>2/8/2023</b>	SeqNo: <b>1694738</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	6.00	0.500	2.000	1.000	250	21.5	190				S

**NOTES:**  
 S - Spike recovery indicates a possible matrix effect.

Sample ID: <b>2302048-004BMSD</b>	SampType: <b>MSD</b>	Units: <b>mg/L</b>	Prep Date: <b>2/8/2023</b>	RunNo: <b>81758</b>							
Client ID: <b>MW05-020123</b>	Batch ID: <b>R81758</b>	Analysis Date: <b>2/8/2023</b>	SeqNo: <b>1694739</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfide	2.40	0.500	2.000	1.000	70.0	21.5	190	6.000	85.7	30	R

**NOTES:**  
 R - High RPD observed.

Work Order: 2302048  
 CLIENT: Friedman & Bruya  
 Project: 302018

**QC SUMMARY REPORT**  
**Dissolved Gases by RSK-175**

Sample ID: <b>LCS-R81757</b>	SampType: <b>LCS</b>	Units: <b>ppmv</b>	Prep Date: <b>2/9/2023</b>	RunNo: <b>81757</b>							
Client ID: <b>LCSW</b>	Batch ID: <b>R81757</b>	Analysis Date: <b>2/9/2023</b>	SeqNo: <b>1694763</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	967	0.00675	1,000	0	96.7	68.9	131				
Ethene	967	0.0146	1,000	0	96.7	72	129				
Ethane	974	0.0151	1,000	0	97.4	73.4	128				

Sample ID: <b>MB-R81757</b>	SampType: <b>MBLK</b>	Units: <b>mg/L</b>	Prep Date: <b>2/9/2023</b>	RunNo: <b>81757</b>							
Client ID: <b>MBLKW</b>	Batch ID: <b>R81757</b>	Analysis Date: <b>2/9/2023</b>	SeqNo: <b>1694770</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	ND	0.00675									
Ethene	ND	0.0146									
Ethane	ND	0.0151									

Sample ID: <b>2302021-001FREP</b>	SampType: <b>REP</b>	Units: <b>mg/L</b>	Prep Date: <b>2/9/2023</b>	RunNo: <b>81757</b>							
Client ID: <b>BATCH</b>	Batch ID: <b>R81757</b>	Analysis Date: <b>2/9/2023</b>	SeqNo: <b>1694743</b>								
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methane	3.11	0.00675						2.811	10.0	30	
Ethene	ND	0.0146						0	0	30	
Ethane	ND	0.0151						0	0	30	

Client Name: FB	Work Order Number: 2302048
Logged by: Clare Griggs	Date Received: 2/2/2023 2:14:00 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 Present
6. Was an attempt made to cool the samples?      Yes       No       NA
7. Were all items received at a temperature of >2°C to 6°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
- NaOH & Zn Acetate to B fractions
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
Sample	4.7

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

**SUBCONTRACT SAMPLE CHAIN OF CUSTODY** 2302048

Page # 1 of 1

Send Report To Michael Erdahl

Company Friedman and Bruya, Inc.

Address 3012 16th Ave W

City, State, ZIP Seattle, WA 98119



Phone # (206) 285-8282 merdahl@friedmanandbruya.com

SUBCONTRACTER <i>Fremont</i>	
PROJECT NAME/NO.  <b>302018</b>	PO #  <b>D-135</b>
REMARKS  <i>Floyd Sander EDD</i> Please Email Results	

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

Sample ID	Lab ID	Date Sampled	Time Sampled	Matrix	# of jars	ANALYSES REQUESTED							Notes	
						Dioxins/Furans	EPH	VPH	Nitrate	Nitrite	Sulfate	Sulfide		Methane, Ethane, Ethene, RSK
01MW85-013123		1/31/23	1612	water	5				X	X	X	X	X	
01MW56-020123		2/1/23	0907	water.	2				X	X	X	X		
01MW46-020123		2/1/23	0930	water.	2				X	X	X	X		
MW05-020123		2/1/23	1226	water	2				X	X	X	X		MS/MSD
MW06-020123		2/1/23	1235	water.	2				X	X	X	X		

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: 	Michael Erdahl	Friedman & Bruya	2/2/23	0800AM
Received by: 	Nate Ries	FAL	2/2/23	1414
Relinquished by:				
Received by:				