



December 8, 2022

Dale Myers  
Washington State Department of Ecology  
Northwest Regional Office  
15700 Dayton Avenue North  
Shoreline, WA 98133

**Re: Interim Action Status Letter**

Texaco Strickland Site  
Lynnwood, Washington  
Project No. 180357

Dear Mr. Myers:

On behalf of Strickland Real Estate Holdings, LLC, Aspect Consulting LLC (Aspect) reports the status of Interim Action Work Plan (IAWP) implementation at the Texaco-Strickland Site (the Site) located at 6808 196<sup>th</sup> Street SW in Lynnwood, Washington (Property; Figure 1). The Site is under formal cleanup agreement with the Washington State Department of Ecology (Ecology) via Agreed Order No. 14315 (AO).

In accordance with the Ecology-approved Final IAWP, the interim (IA) was conducted to remove the light non-aqueous phase liquid (LNAPL) and contaminated soils from the Site to the maximum extent practicable and mitigate the potential exposure pathways at the Site (Aspect, 2021). The IA construction consists of soldier pile shoring walls on the north and west limits of the excavation referred to herein in as North Wall and West Wall, respectively. The North Wall and West Wall alignments were setback from existing utilities prescribing the maximum extent practicable for lateral limits of excavation (Figure 2). The North Wall and West Wall depths were designed to accommodate maximum potential overexcavation depth into unweathered glacial till, in order to achieve compliance with soil remediation levels in the excavation bottom.

This letter summarizes the IA activities completed to date, reports the soil performance sampling results, and requests Ecology concurrence regarding the remaining IA activities and path to soil compliance. The AO-required Interim Action Report will be submitted to Ecology under separate cover within 90 days of completing IA activities and receipt of final soil compliance monitoring results.

## **Interim Action Status**

The IA was initiated on August 30, 2022, with the majority of the excavation bottom soil samples collected on October 28, 2022. The soil removal extents established in the IAWP (see IAWP Figure 7; included in Attachment A for reference) were developed into IA construction plans with shoring walls and excavation extents shown on Figure 2. In accordance with the Final IAWP, contaminated



soils were segregated and handled as two<sup>1</sup> waste streams from the excavation through offsite disposal at a permitted landfill:

1. Contaminated Soil (PCS) – Soil containing Site constituents of potential concern (COPCs) above the MTCA Method A cleanup levels (used as soil remediation levels) for disposal at a permitted facility as Class 3 soil.
2. Clean Soil – Soil containing Site COPCs below the remediation level and meeting clean soil acceptance requirements of the receiving facility for disposal as clean fill.

The IA engineering plans and specifications estimated 12,500 tons of contaminated soil removal to a minimum elevation of 421 feet North American Vertical Datum 1988 (NAVD88) or a total depth of 30 feet below ground surface. A total of 14,243 tons of contaminated soil have been excavated from the Property to date. The excavation was advanced below the groundwater table and remained dry until annual return of the wet season began on October 21, requiring removal and offsite disposal of 84,200 gallons of water in order to complete the remedial excavation and backfill above the groundwater table. A maximum excavation of depth of 28 feet (or minimum elevation of 423 feet NAVD88) was required to achieve compliance with soil remediation levels in the excavation bottom.

Soil performance sampling was conducted at the excavation limits in accordance with the Final IAWP and consisted of:

- Sidewall (SW) soil samples spaced not more than every 5 feet vertically and 20 feet laterally. SW samples were collected from soils exposed behind the face of the shoring wall wooden lagging.
- Bottom (B) soil samples were collected as discrete soil samples on a 20-foot grid shown on Figure 2. The bottom sampling grid included the sloped temporary cuts within the excavation interior to the shoring walls.

## ***Performance Soil Sampling Results***

### **Excavation Bottom**

A total of 40 excavation bottom soil performance samples comply with interim action soil remediation levels. One sample (B-N12-W14-439) collected from the eastern temporary cut slope of the excavation bottom had a gasoline-range organics exceedance at approximately 12 feet below ground surface (elevation 439 NAVD88). The excavation bottom sample results collected at the final excavation limits are shown on Figure 2, and the analytical results provided in Table 1. The analytical laboratory reports are included in Attachment B. Excavation extents at which soil performance samples were taken are shown in photos included as Attachment C.

### **North Wall**

A total of 22 north sidewall soil performance samples comply with interim action soil remediation levels. Five sidewall soils samples collected between soldier pile N6 and N12 contain Site COPCs

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<sup>1</sup> Petroleum-Impacted Soil (PIS) was also designated as a potential soil management category in the Final IAWP that was not used in during construction.

concentrations exceeding their respective remediation levels (up to 1,700 mg/kg for gasoline range organics). The exceedances are vertically bound by deeper samples complying with remediation levels, consistent with the results of MW-5 and MW-8 locations (Figure 2; IAWP figure included in Attachment A for reference). North sidewall soil performance sample locations, elevation, and exceedances are shown on Figure 3 and the analytical results provided in Table 2.

### **West Wall**

A total of 34 west sidewall soil performance samples comply with interim action soil remediation levels. At sample depths of 17 and 26 feet bgs, low-level benzene concentrations exceeds the soil remediation level at 7 locations bound with clean sidewall results shallower, deeper, and to the north (Figure 4). All other Site COPCs comply with remediation levels. The two southernmost exceedances in West Wall are soldier pile W4 and W5 are bound by the sloped excavation, confirmed with excavation bottom sample located at W04-N02 (Figure 2). West sidewall soil performance sample locations, elevation, and exceedances can be seen on Figure 4 and the analytical results in Table 3.

### **South Wall**

Cantilevered shoring of the southern excavation limits was necessary to allow temporary cut slope requirements to accommodate the excavation bottom. All southern sidewall soils performance samples comply with interim action soil remediation levels. South sidewall soil performance sample locations, elevation, and exceedances are shown on Figure 5 and the analytical results provided in Table 4.

### **Remaining IA Activities**

To complete the interim action objective of achieving soil remediation levels at the excavation limits to the maximum extent practicable, the following contaminated soil excavation and soil performance sampling will be conducted.

1. Overexcavation of sample B-N12-W14-439 in the eastern cut slope of the excavation bottom (Figure 2). The overexcavation will advance the eastern cut slope further east and field screening will be used to verify removal of all contaminated soil and determine overexcavation extent. At the final overexcavation extents, one new bottom performance soil sample, and three new sidewall performance samples (on the north, east, and south overexcavation sidewalls) will be collected to verify compliance with remediation levels.
2. Due to the gasoline-range organics in shallow soils remaining behind the North Wall, Aspect will direct the Contractor's excavation behind the shoring wall with the use of a vactor truck to remove all contaminated soil between the shoring wall and the property boundary (a lateral distance of 3 to 6 feet). Excavation will be completed between soldier pile cells with documented exceedances (N06 through N12), for an approximate total length of 56 feet. Excavation will be backfilled with controlled density fill (CDF). This excavation method will allow excavation to a maximum depth of 14 feet, as the contaminated soil extent is already defined by the north sidewall samples collected at 14 feet bgs (elevation 437 feet NAVD88). Five sidewall samples will be collected from the same locations of the existing five north sidewall exceedances, but at the excavation limit of the property boundary. The results will evaluate compliance with remediation limits at the absolute maximum extent practicable at the property boundary.

Overexcavation of the West Wall benzene exceedances is not practical and not planned. The benzene exceedances do not represent a direct contact exposure risk but will require post-IA groundwater monitoring to verify residual benzene exceedances in North Wall are protective of groundwater.

## **Conclusions**

At the completion of the remaining IA excavation and soil performance sampling, soil remediation levels will be achieved at the excavation limits to the absolute maximum extent practicable. Site soils are anticipated to comply with future Site cleanup levels at the direct contact point of compliance. Site soils compliance will be demonstrated as protective of the groundwater exposure pathway via post-IA groundwater confirmation monitoring. The scope of post-IA groundwater monitoring will be proposed in the Interim Action Report.

The IA was conducted in accordance with the Ecology-approved Final IAWP and will be completed after the two remaining IA activities. This letter requests Ecology concurrence regarding the remaining IA activities and planned path to Site soil compliance.

## **References**

Aspect Consulting, LLC (Aspect), 2021, Interim Action Work Plan, Texaco Strickland Site, Final, August 6, 2021.

## **Limitations**

Work for this project was performed for the Strickland Real Estate Holdings, LLC (Client), and this letter was prepared in accordance with generally accepted professional practices for the nature and conditions of work completed in the same or similar localities, at the time the work was performed. This letter does not represent a legal opinion. No other warranty, expressed or implied, is made.

All reports prepared by Aspect Consulting for the Client apply only to the services described in the Agreement(s) with the Client. Any use or reuse by any party other than the Client is at the sole risk of that party, and without liability to Aspect Consulting. Aspect Consulting's original files/reports shall govern in the event of any dispute regarding the content of electronic documents furnished to others.

Sincerely,

**Aspect consulting, LLC**



12/8/2022

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Attachments: Table 1 – Excavation Bottom Soil - Performance Sampling Results  
Table 2 – North Sidewall Soil - Performance Sampling Results  
Table 3 – West Sidewall Soil - Performance Sampling Results  
Table 4 – South Sidewall Soil - Performance Sampling Results  
Figure 1 – Site Location Map  
Figure 2 – Bottom Soil Performance Sampling Results  
Figure 3 – North Sidewall Soil Performance Sampling Results  
Figure 4 – West Sidewall Soil Performance Sampling Results  
Figure 5 – South Sidewall Soil Performance Sampling Results  
Attachment A – IAWP Figure 7 (for reference)  
Attachment B – Laboratory Reports  
Attachment C – Photo Log

cc: Ryan Megenity, Rainier Property Management Company, LLC  
Nathan Blomgren, Chevron Environmental Management Company  
Douglas Steding, Northwest Resource Law, PLLC

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# **TABLES**

**Table 1. Excavation Bottom Soil - Performance Sampling Results**

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

			Location Date	B-N02-W02 10/26/2022	B-N02-W04 10/26/2022	B-N02-W06 10/26/2022	B-N02-W09 10/26/2022	B-N02-W12 10/26/2022	B-N02-W14 10/26/2022	B-N02-W16 10/26/2022	B-N04-W02 10/26/2022	B-N04-W04 10/21/2022
			Sample Elevation (ft)	B-N02-W02-438 438	B-N02-W04-424 424	B-N02-W06-423 423	B-N02-W09-424 424	B-N02-W12-425 425	B-N02-W14-429 429	B-N02-W16-434 434	B-N04-W02-437 437	B-N04-W04-427 427
Analyte	Unit	Interim Action Soil Remediation Level										
<b>TPH</b>												
Gasoline Range Organics	mg/kg	30	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5 U
Diesel Range Organics	mg/kg	2000	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
<b>BTEX</b>												
Benzene	mg/kg	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03 U
Toluene	mg/kg	7	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>												
Naphthalene	mg/kg	5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 U

Notes:

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action soil remediation level

U - Analyte not detected at or above Reporting Limit (RL) shown

**Table 1. Excavation Bottom Soil - Performance Sampling Results**

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

			Location Date	B-N04-W06 10/21/2022	B-N04-W09 10/14/2022	B-N04-W11 10/21/2022	B-N04-W14 10/21/2022	B-N04-W16 10/21/2022	B-N07-W02 10/26/2022	B-N07-W04 10/26/2022	B-N07-W06 10/26/2022	B-N07-W09 10/26/2022
			Sample Elevation (ft)	B-N04-W06-427 427	B-N04-W09-428 428	B-N04-W11-427 427	B-N04-W14-429 429	B-N04-W16-429 429	B-N07-W02-438 438	B-N07-W04-431 431	B-N07-W06-430 430	B-N07-W09-426 426
Analyte	Unit	Interim Action Soil Remediation Level										
<b>TPH</b>												
Gasoline Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5	< 5	<b>14</b>	<b>9.4</b>
Diesel Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50	< 50	< 50	< 50
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250	< 250	< 250	< 250
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
<b>BTEX</b>												
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03	< 0.03	< 0.03	< 0.03
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05	< 0.05	< 0.05	< 0.05
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05	< 0.05	< 0.05	< 0.05
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>												
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05	< 0.05	< 0.05	< 0.05

Notes:

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action soil re

U - Analyte not detected at or above Reporting Limit (RL) shown



**Table 1. Excavation Bottom Soil - Performance Sampling Results**

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

			Location Date	B-N07-W12 10/26/2022	B-N07-W14 10/21/2022	B-N07-W16 10/21/2022	B-N10-W02 10/26/2022	B-N10-W04 10/26/2022	B-N10-W06 10/26/2022	B-N10-W09 10/27/2022	B-N10-W12 10/26/2022	B-N10-W14 10/26/2022
			Sample Elevation (ft)	B-N07-W12-426 426	B-N07-W14-429 429	B-N07-W16-429 429	B-N10-W02-438 438	B-N10-W04-431 431	B-N10-W06-431 431	B-N10-W09-430 430	B-N10-W12-429 429	B-N10-W14-429 429
Analyte	Unit	Interim Action Soil Remediation Level										
<b>TPH</b>												
Gasoline Range Organics	mg/kg	30	< 5	< 5 U	< 5 U	< 5 U	< 5	< 5	< 5	< 5	< 5	< 5
Diesel Range Organics	mg/kg	2000	< 50	< 50 U	< 50 U	< 50 U	< 50	< 50	< 50	< 50	< 50	< 50
Motor Oil Range Organics	mg/kg	2000	< 250	< 250 U	< 250 U	< 250 U	< 250	< 250	< 250	< 250	< 250	< 250
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
<b>BTEX</b>												
Benzene	mg/kg	0.03	< 0.03	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Toluene	mg/kg	7	< 0.05	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ethylbenzene	mg/kg	6	< 0.05	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>												
Naphthalene	mg/kg	5	< 0.05	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05

Notes:

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action soil re

U - Analyte not detected at or above Reporting Limit (RL) shown

**Table 1. Excavation Bottom Soil - Performance Sampling Results**

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

			Location Date	B-N10-W16 10/21/2022	B-N12-W02 10/26/2022	B-N12-W04 10/27/2022	B-N12-W06 10/27/2022	B-N12-W10 10/27/2022	B-N12-W12 10/26/2022	B-N12-W14 10/26/2022	B-N12-W16 10/26/2022	B-N14-W06 10/27/2022
			Sample Elevation (ft)	B-N10-W16-429 429	B-N12-W02-444 444	B-N12-W04-438 438	B-N12-W06-438 438	B-N12-W10-438 438	B-N12-W12-439 439	B-N12-W14-439 439	B-N12-W16-439 439	B-N14-W06-449 449
Analyte	Unit	Interim Action Soil Remediation Level										
<b>TPH</b>												
Gasoline Range Organics	mg/kg	30	< 5 U	< 5	< 5	< 5	< 5	< 5	< 5	<b>1600</b>	< 5	< 5
Diesel Range Organics	mg/kg	2000	< 50 U	< 50	< 50	< 50	< 50	< 50	<b>310</b>	< 50	< 50	< 50
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250	< 250	< 250	< 250	< 250	<b>630</b>	< 250	< 250	< 250
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	<b>940</b>	< 250 U	< 250 U	< 250 U
<b>BTEX</b>												
Benzene	mg/kg	0.03	< 0.03 U	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03
Toluene	mg/kg	7	< 0.05 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<b>0.15</b>	< 0.05	< 0.05	< 0.05
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	<b>0.35</b>	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>												
Naphthalene	mg/kg	5	< 0.05 U	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	<b>0.45</b>	< 0.05	< 0.05	< 0.05

Notes:

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action soil re

U - Analyte not detected at or above Reporting Limit (RL) shown

**Table 1. Excavation Bottom Soil - Performance Sampling Results**

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

			Location Date	B-N14-W10 10/27/2022	B-N14-W12 10/27/2022	B-N14-W14 10/27/2022	B-N14-W16 10/27/2022	B-N99-W99 10/14/2022	B-N99-W99 10/21/2022
			Sample Elevation (ft)	B-N14-W10-449 449	B-N14-W12-449 449	B-N14-W14-449 449	B-N14-W16-449 449	B-N99-W99-428 428	B-N99-W99-429 429
Analyte	Unit	Interim Action Soil Remediation Level							
<b>TPH</b>									
Gasoline Range Organics	mg/kg	30	< 5	< 5	< 5	< 5	< 5	< 5 U	< 5 U
Diesel Range Organics	mg/kg	2000	< 50	< 50	< 50	< 50	< 50	< 50 U	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250	< 250	< 250	< 250	< 250	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
<b>BTEX</b>									
Benzene	mg/kg	0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.1 U	<b>0.1</b>	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>									
Naphthalene	mg/kg	5	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05 U	< 0.05 U

Notes:

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action soil re

U - Analyte not detected at or above Reporting Limit (RL) shown

## Table 2. North Sidewall Soil - Performance Sampling Results

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

		Location Date Sample Elevation (ft)	SW-N01 09/26/2022 SW-N01-444 444	SW-N02 09/29/2022 SW-N02-447 447	SW-N02 10/03/2022 SW-N02-442 442	SW-N02 10/17/2022 SW-N02-437 437	SW-N03 10/19/2022 SW-N03-429 429	SW-N04 09/30/2022 SW-N04-447 447
Analyte	Unit	Interim Action Soil Remediation Level						
<b>TPH</b>								
Gasoline Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diesel Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
<b>BTEX</b>								
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.05 UJ	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05 U	< 0.05 UJ	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.1 UJ	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>								
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	< 0.05 UJ	< 0.05 U	< 0.05 U	< 0.05 U

Notes:

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action soil remediation level

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

X - Chromatographic pattern does not match fuel standard used for quantitation

## Table 2. North Sidewall Soil - Performance Sampling Results

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

		Location Date Sample Elevation (ft)	<b>SW-N04 10/03/2022 SW-N04-442 442</b>	<b>SW-N04 10/17/2022 SW-N04-437 437</b>	<b>SW-N05 10/19/2022 SW-N05-429 429</b>	<b>SW-N07 09/30/2022 SW-N07-447 447</b>	<b>SW-N07 10/03/2022 SW-N07-442 442</b>	<b>SW-N07 10/17/2022 SW-N07-437 437</b>
Analyte	Unit	Interim Action Soil Remediation Level						
<b>TPH</b>								
Gasoline Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	<b>73</b>	<b>740</b>	< 5 U
Diesel Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	<b>440</b>	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	<b>440</b>	< 250 U
<b>BTEX</b>								
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	< 0.03 U	<b>0.03</b>	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 UJ	< 0.05 U	< 0.05 U	<b>0.2</b>	<b>1.2 J</b>	<b>0.057</b>
Ethylbenzene	mg/kg	6	< 0.05 UJ	< 0.05 U	< 0.05 U	<b>0.59</b>	<b>5.1 J</b>	<b>0.085</b>
Total Xylenes	mg/kg	9	< 0.1 UJ	< 0.1 U	< 0.1 U	<b>2.87</b>	<b>35.1 J</b>	<b>0.284</b>
<b>PAHs</b>								
Naphthalene	mg/kg	5	< 0.05 UJ	< 0.05 U	< 0.05 U	<b>0.26</b>	<b>6.4 J</b>	< 0.05 U

Notes:

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

X - Chromatographic pattern does not match fuel standard used for quan

## Table 2. North Sidewall Soil - Performance Sampling Results

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

		Location Date Sample Elevation (ft)	SW-N08 10/19/2022 SW-N08-429 429	SW-N10 09/30/2022 SW-N10-447 447	SW-N10 10/03/2022 SW-N10-442 442	SW-N10 10/17/2022 SW-N10-437 437	SW-N10 10/19/2022 SW-N10-429 429	SW-N12 09/30/2022 SW-N12-447 447
Analyte	Unit	Interim Action Soil Remediation Level						
<b>TPH</b>								
Gasoline Range Organics	mg/kg	30	< 5 U	1700	1500	< 5 U	< 5 U	30
Diesel Range Organics	mg/kg	2000	< 50 U	550 X	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	550 X	< 250 U	< 250 U	< 250 U	< 250 U
<b>BTEX</b>								
Benzene	mg/kg	0.03	< 0.03 U	0.19 J	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 U	0.29 J	0.95	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05 U	10 J	5.7	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	13.9 J	36.7	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>								
Naphthalene	mg/kg	5	< 0.05 U	8 J	5.3	< 0.05 U	< 0.05 U	0.56

Notes:

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

X - Chromatographic pattern does not match fuel standard used for quan

## Table 2. North Sidewall Soil - Performance Sampling Results

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

		Location Date Sample Elevation (ft)	SW-N12 10/03/2022 SW-N12-442 442	SW-N12 10/17/2022 SW-N12-437 437	SW-N14 09/30/2022 SW-N14-447 447	SW-N14 10/03/2022 SW-N14-442 442
Analyte	Unit	Interim Action Soil Remediation Level				
<b>TPH</b>						
Gasoline Range Organics	mg/kg	30	<b>370 J</b>	< 5 U	< 5 U	< 5 U
Diesel Range Organics	mg/kg	2000	<b>74 X</b>	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	<b>74</b>	< 250 U	< 250 U	< 250 U
<b>BTEX</b>						
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	<b>0.48</b>	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	<b>0.984</b>	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>						
Naphthalene	mg/kg	5	<b>3.3</b>	< 0.05 U	< 0.05 U	< 0.05 U

Notes:

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action

U - Analyte not detected at or above Reporting Limit (RL) shown

J - Result value estimated

UJ - Analyte not detected and the Reporting Limit (RL) is an estimate

X - Chromatographic pattern does not match fuel standard used for quan

### Table 3. West Sidewall Soil - Performance Sampling Results

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

Location Date Sample Elevation (ft)			SW-W01 10/05/2022 SW-W01-439 439	SW-W02 09/26/2022 SW-W02-444 444	SW-W03 10/05/2022 SW-W03-439 439	SW-W03 10/07/2022 SW-W03-434 434	SW-W04 09/26/2022 SW-W04-444 444	SW-W04 10/19/2022 SW-W04-429 429	SW-W05 10/07/2022 SW-W05-434 434
Analyte	Unit	Interim Action Soil Remediation Level							
<b>TPH</b>									
Gasoline Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diesel Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
<b>BTEX</b>									
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	<b>0.057</b>	<b>0.074</b>
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>									
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U

Notes:

Bold - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action soil remediation level

U - Analyte not detected at or above Reporting Limit (RL) shown



### Table 3. West Sidewall Soil - Performance Sampling Results

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

			Location Date Sample Elevation (ft)	SW-W05 10/21/2022 SW-W05-425 425	SW-W06 09/26/2022 SW-W06-444 444	SW-W06 10/05/2022 SW-W06-439 439	SW-W06 10/18/2022 SW-W06-429 429	SW-W06 10/21/2022 SW-W06-425 425	SW-W06 10/25/2022 SW-W06-421 421
Analyte	Unit	Interim Action Soil Remediation Level							
<b>TPH</b>									
Gasoline Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diesel Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
<b>BTEX</b>									
Benzene	mg/kg	0.03	<b>0.045</b>	< 0.03 U	< 0.03 U	<b>0.51</b>	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05 U	< 0.05 U	<b>0.073</b>	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>									
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U

**Notes:**

Bold - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action

U - Analyte not detected at or above Reporting Limit (RL) shown

### Table 3. West Sidewall Soil - Performance Sampling Results

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

			Location Date Sample Elevation (ft)	SW-W08 09/26/2022 SW-W08-444 444	SW-W08 10/05/2022 SW-W08-439 439	SW-W08 10/25/2022 SW-W08-421 421	SW-W09 10/07/2022 SW-W09-434 434	SW-W09 10/18/2022 SW-W09-429 429	SW-W09 10/21/2022 SW-W09-425 425
Analyte	Unit	Interim Action Soil Remediation Level							
<b>TPH</b>									
Gasoline Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diesel Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
<b>BTEX</b>									
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	< 0.03 U	<b>0.11</b>	<b>0.06</b>	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>									
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U

**Notes:**

Bold - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action

U - Analyte not detected at or above Reporting Limit (RL) shown

### Table 3. West Sidewall Soil - Performance Sampling Results

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

			Location Date Sample Elevation (ft)	SW-W10 09/26/2022 SW-W10-444 444	SW-W11 10/05/2022 SW-W11-439 439	SW-W11 10/07/2022 SW-W11-434 434	SW-W11 10/18/2022 SW-W11-429 429	SW-W11 10/25/2022 SW-W11-421 421	SW-W12 09/26/2022 SW-W12-444 444
Analyte	Unit	Interim Action Soil Remediation Level							
<b>TPH</b>									
Gasoline Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diesel Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
<b>BTEX</b>									
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	<b>0.12</b>	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05 U	<b>0.096</b>	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	<b>0.335</b>	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>									
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U

**Notes:**

Bold - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action

U - Analyte not detected at or above Reporting Limit (RL) shown

### Table 3. West Sidewall Soil - Performance Sampling Results

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

			Location Date Sample Elevation (ft)	SW-W12 10/21/2022 SW-W12-425 425	SW-W13 10/05/2022 SW-W13-439 439	SW-W14 09/26/2022 SW-W14-444 444	SW-W14 10/07/2022 SW-W14-434 434	SW-W14 10/18/2022 SW-W14-429 429	SW-W14 10/21/2022 SW-W14-425 425
Analyte	Unit	Interim Action Soil Remediation Level							
<b>TPH</b>									
Gasoline Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diesel Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
<b>BTEX</b>									
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 U	<b>0.15</b>	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	<b>0.11</b>	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>									
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U

**Notes:**

Bold - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action

U - Analyte not detected at or above Reporting Limit (RL) shown

### Table 3. West Sidewall Soil - Performance Sampling Results

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

			Location Date Sample Elevation (ft)	SW-W16 09/26/2022 SW-W16-444 444	SW-W16 10/05/2022 SW-W16-439 439	SW-W16 10/07/2022 SW-W16-434 434	SW-W99 10/07/2022 SW-W99-434 434
Analyte	Unit	Interim Action Soil Remediation Level					
<b>TPH</b>							
Gasoline Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U	< 5 U
Diesel Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U	< 250 U
<b>BTEX</b>							
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>							
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U

**Notes:**

Bold - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action

U - Analyte not detected at or above Reporting Limit (RL) shown

## Table 4. South Sidewall Soil - Performance Sampling Results

Project No. 180357, Texaco-Strickland, Lynnwood, Washington

			Location Date Sample Elevation (ft)	<b>SW-S01</b> <b>10/11/2022</b> <b>SW-S01-446</b> <b>446</b>	<b>SW-S03</b> <b>10/11/2022</b> <b>SW-S03-446</b> <b>446</b>	<b>SW-S06</b> <b>10/11/2022</b> <b>SW-S06-446</b> <b>446</b>
Analyte	Unit	Interim Action Soil Remediation Level				
<b>TPH</b>						
Gasoline Range Organics	mg/kg	30	< 5 U	< 5 U	< 5 U	< 5 U
Diesel Range Organics	mg/kg	2000	< 50 U	< 50 U	< 50 U	< 50 U
Motor Oil Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U
Diesel and Oil Extended Range Organics	mg/kg	2000	< 250 U	< 250 U	< 250 U	< 250 U
<b>BTEX</b>						
Benzene	mg/kg	0.03	< 0.03 U	< 0.03 U	< 0.03 U	< 0.03 U
Toluene	mg/kg	7	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Ethylbenzene	mg/kg	6	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U
Total Xylenes	mg/kg	9	< 0.1 U	< 0.1 U	< 0.1 U	< 0.1 U
<b>PAHs</b>						
Naphthalene	mg/kg	5	< 0.05 U	< 0.05 U	< 0.05 U	< 0.05 U

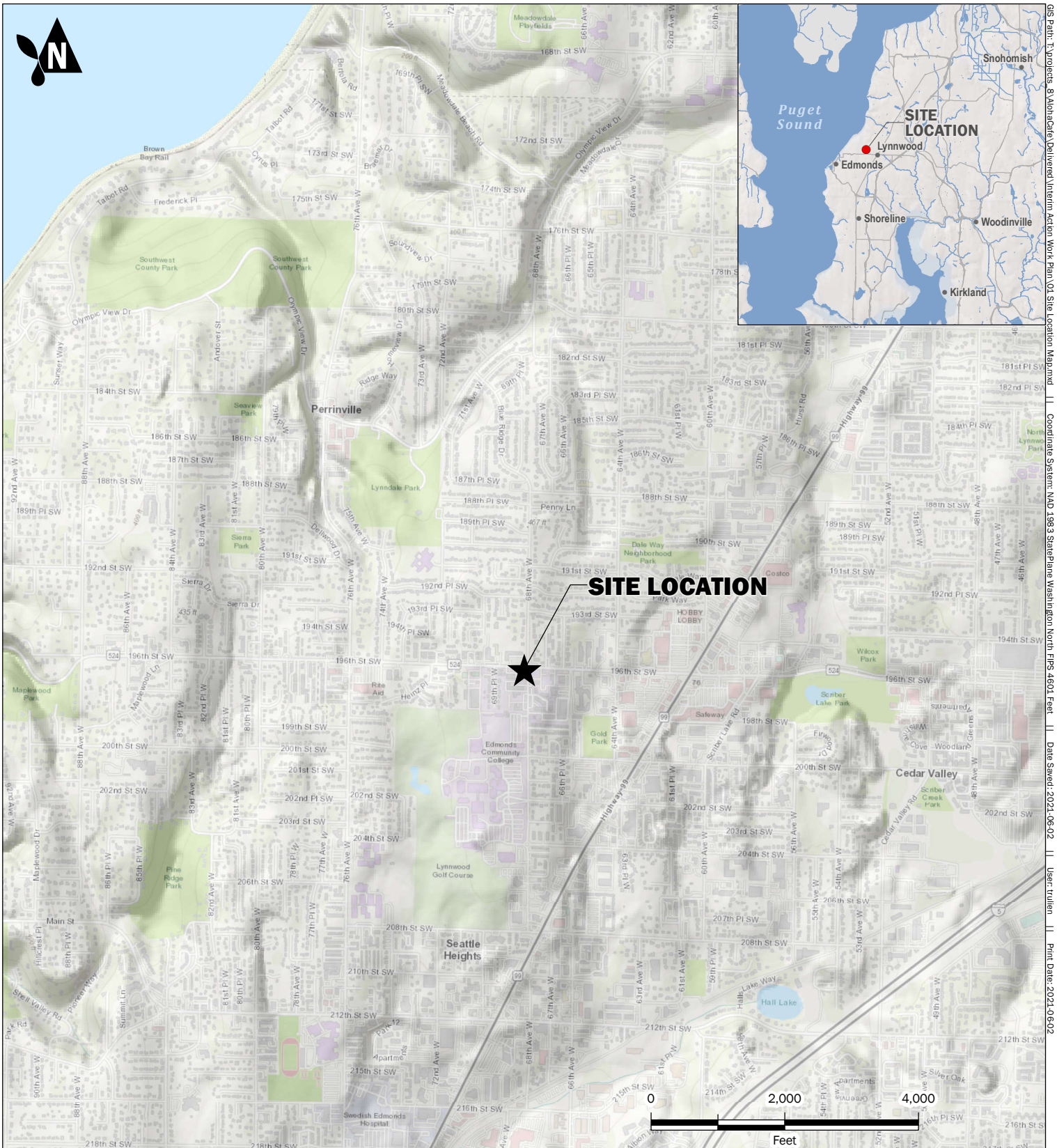
Notes:

**Bold** - detected

Blue Shaded - Detected result or nondetected RL exceeded interim action soil remediation level

U - Analyte not detected at or above Reporting Limit (RL) shown

# FIGURES



**Site Location Map**  
 Interim Action Status Letter  
 Texaco Strickland Site  
 6808 196th Street SW  
 Lynnwood, WA

	JUN-2021	BY: WVG / TDR	FIGURE NO. <b>1</b>
	PROJECT NO. 180357	REVISED BY: ---	

GIS Path: I:\Projects - 8\Mapacade\Delivered\Interim Action Work Plan\_Q3 Site Location\Map.mxd | Coordinate System: NAD 1983 StatePlane Washington North FIPS 4601 Feet | Date Saved: 2021-06-02 | User: trulen | Print Date: 2021-06-02





- One or more COCs were detected in confirmation soil samples at a concentration greater than the Cleanup Level
- One or more COCs were detected in confirmation soil samples but at a concentration less than the Cleanup Level
- COCs were not detected in confirmation soil samples

Analyte	Interim Action Soil Remediation Level (mg/kg)
TPHg	30
TPHd	2,000
TPHo	2,000
Benzene	0.03
Toluene	7
Ethylbenzene	6
Total Xylenes	9
Naphthalene	5

### Bottom Soil Performance Sampling Results

Interim Action Status Letter  
 Texaco Strickland Site  
 Lynnwood, Washington



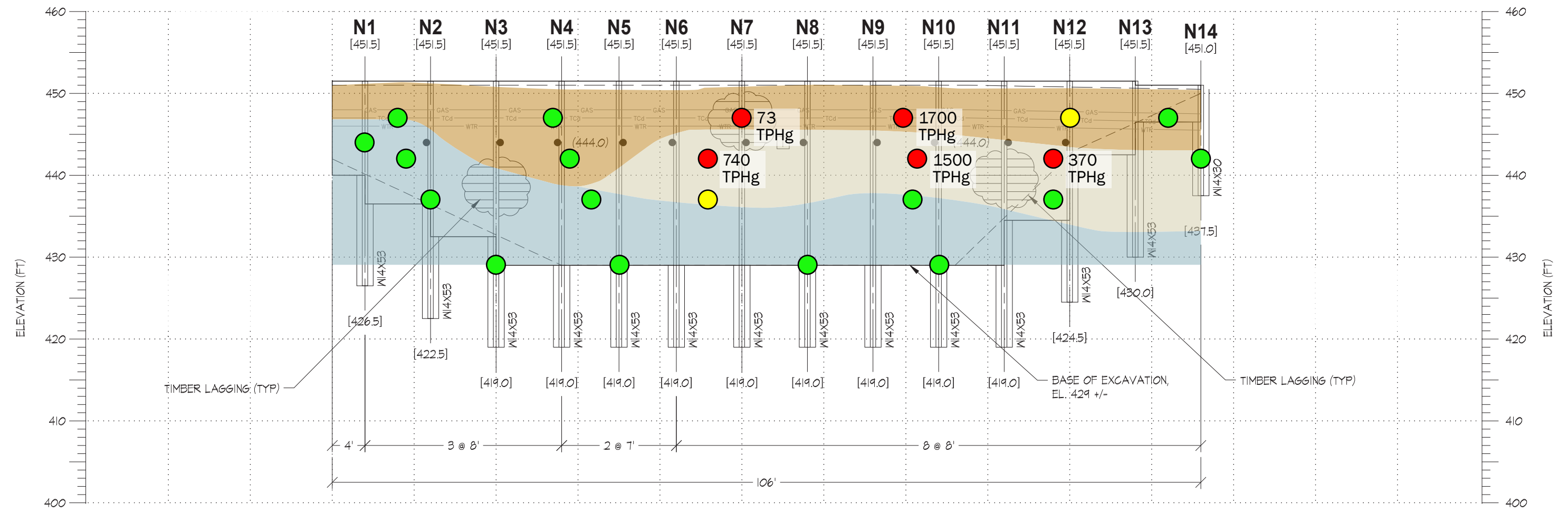
DEC-2022  
 PROJECT NO.  
 180357

BY:  
 BDO  
 REV BY:  
 ---

FIGURE NO.  
**2**

West East

## NORTH WALL



- One or more COCs were detected in confirmation soil samples at a concentration greater than the Cleanup Level
- One or more COCs were detected in confirmation soil samples but at a concentration less than the Cleanup Level
- COCs were not detected in confirmation soil samples

- Fill
- Weathered Vashon Glacial Till
- Vashon Glacial Till

Note: Geology from Sections A-A' of Geotechnical Report

Analyte	Interim Action Soil Remediation Level (mg/kg)
TPHg	30
TPHd	2,000
TPHo	2,000
Benzene	0.03
Toluene	7
Ethylbenzene	6
Total Xylenes	9
Naphthalene	5

### North Sidewall Soil Performance Sampling Results

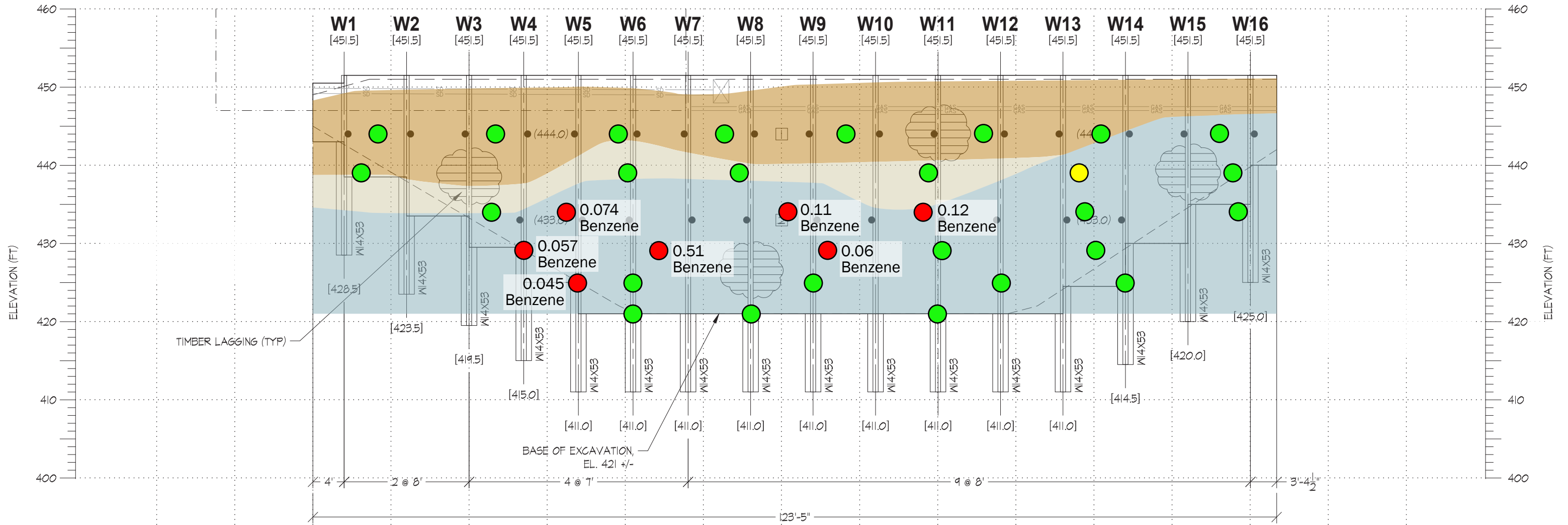
Interim Action Status Letter  
Texaco Strickland Site  
Lynnwood, Washington

	DEC-2022	BY: BDO	FIGURE NO. <b>3</b>
	PROJECT NO. 180357	REV BY: ---	

South

North

### WEST WALL



- One or more COCs were detected in confirmation soil samples at a concentration greater than the Cleanup Level
- One or more COCs were detected in confirmation soil samples but at a concentration less than the Cleanup Level
- COCs were not detected in confirmation soil samples

- Fill
- Weathered Vashon Glacial Till
- Vashon Glacial Till

Note: Geology from Sections B-B' of Geotechnical Report

Analyte	Interim Action Soil Remediation Level (mg/kg)
TPHg	30
TPHd	2,000
TPHo	2,000
Benzene	0.03
Toluene	7
Ethylbenzene	6
Total Xylenes	9
Naphthalene	5

### West Sidewall Soil Performance Sampling Results

Interim Action Status Letter  
 Texaco Strickland Site  
 Lynnwood, Washington



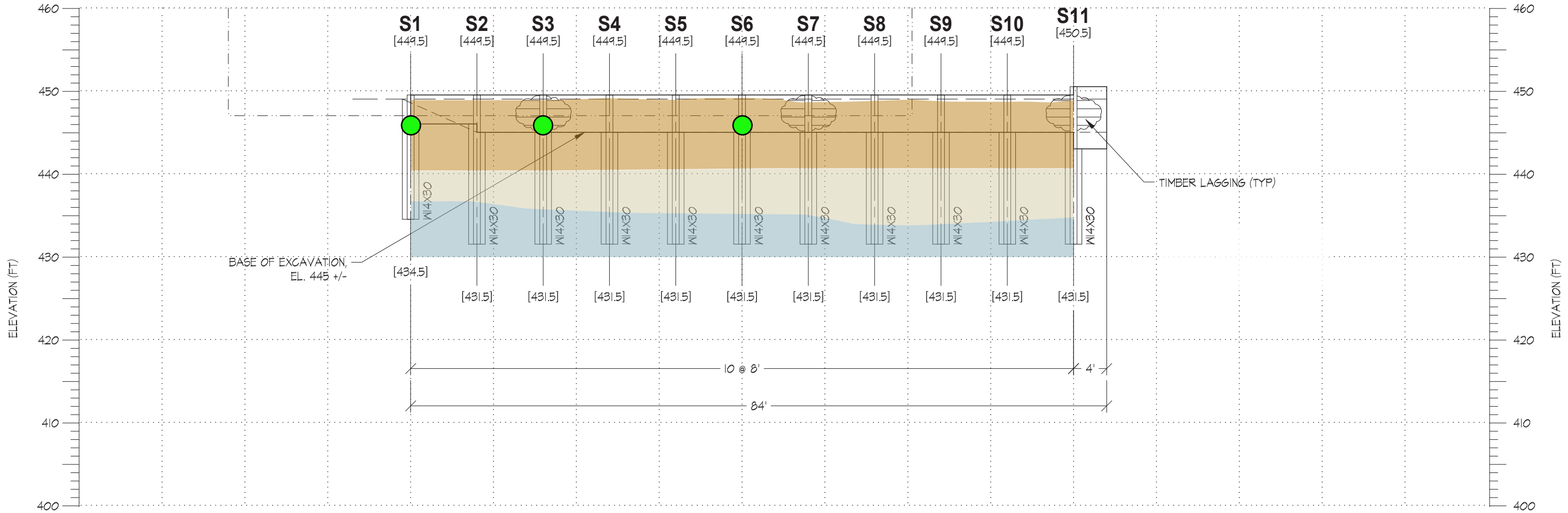
DEC-2022  
 PROJECT NO. 180357

BY: BDO  
 REV BY: ---

FIGURE NO. **4**

East West

### SOUTH WALL



- One or more COCs were detected in confirmation soil samples at a concentration greater than the Cleanup Level
- One or more COCs were detected in confirmation soil samples but at a concentration less than the Cleanup Level
- COCs were not detected in confirmation soil samples

- Fill
- Weathered Vashon Glacial Till
- Vashon Glacial Till

*Note: Geology from Sections A-A' of Geotechnical Report*

Analyte	Interim Action Soil Remediation Level (mg/kg)
TPHg	30
TPHd	2,000
TPHo	2,000
Benzene	0.03
Toluene	7
Ethylbenzene	6
Total Xylenes	9
Naphthalene	5

### South Sidewall Soil Performance Sampling Results

Interim Action Status Letter  
Texaco Strickland Site  
Lynnwood, Washington



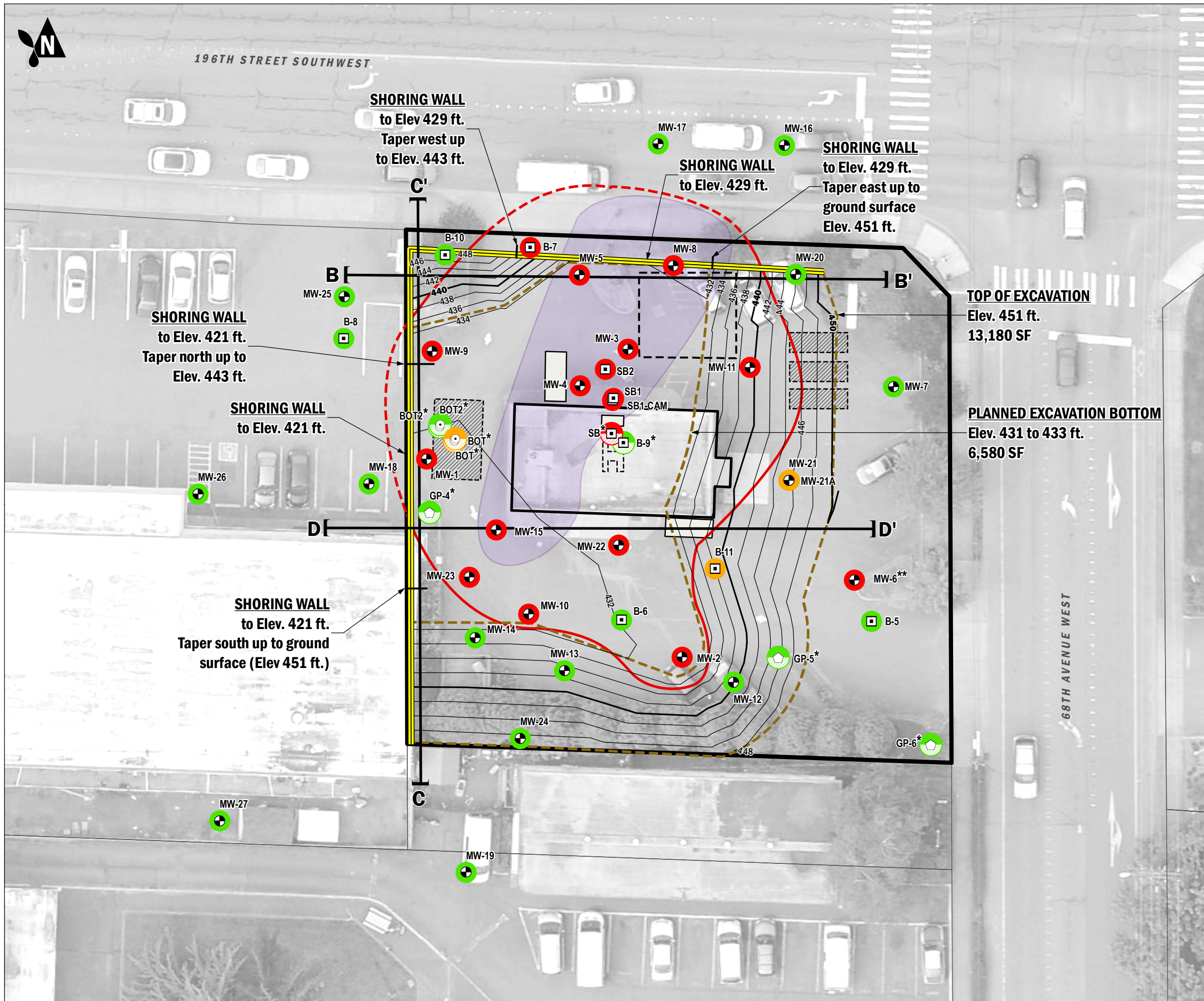
DEC-2022  
PROJECT NO.  
180357

BY:  
BDO  
REV BY:  
---

FIGURE NO.  
**5**

# **ATTACHMENT A**

**IAWP Figure 7 (for reference)**

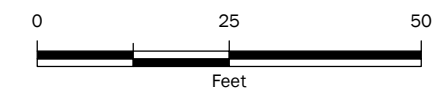


- One or more analytes detected at concentrations greater than the MTCA Method A cleanup levels in soil.
- One or more analytes detected at concentrations less than the MTCA Method A cleanup levels in soil.
- Analytes not detected.

- \* Shallow Soil Sample Result (less than 5 feet below ground surface)
- Soil Probe
- Soil Boring
- + Monitoring Well
- Soil Sample

- - - Extents of Soil Exceeding Cleanup Levels  
Dashed where inferred

- LNAPL Plume
- Shoring Wall
- 10-ft. Excavation Contour
- 2-ft. Excavation Contour
- Building
- Subject Property
- Former UST (Removed)
- Existing UST (Closed-In-Place or Abandoned)
- Former Pump Island
- Snohomish County Tax Parcel



**Notes:**

- LNAPL = Light Non-Aqueous Phase Liquid
- \*\* The soil sample collected at MW-6 in 2007 contained an exceedance of benzene at 20 feet bgs. The soil sample collected from B-05 in 2010 did not contain detectable concentrations of benzene and has established soil confirmation.

### Conceptual Soil Excavation Plan

Interim Action Work Plan  
Texaco Strickland Site  
6808 196th Street SW  
Lynnwood, WA

	JUN-2021	BY: WVG / TDR	FIGURE NO. <b>7</b>
	PROJECT NO. 180357	REVISED BY: BMG / WEG	

GIS Path: T:\Projects\_8\AutoCAD\Drawings\Interim Action Work Plan\Conceptual Soil Excavation Plan.mxd | Coordinate System: NAD 1983 HARN StatePlane Washington North FIPS 4601 Feet | Date Saved: 2021-06-02 | User: trulien | Print Date: 2021-06-02

# **ATTACHMENT B**

## **Laboratory 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.

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

October 6, 2022

Daniel Babcock, Project Manager  
Aspect Consulting, LLC  
710 2<sup>nd</sup> Ave S, Suite 550  
Seattle, WA 98104

Dear Mr Babcock:

Included are the results from the testing of material submitted on September 26, 2022 from the Texaco Strickland 180357, F&BI 209417 project. There are 17 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Adam Griffin  
ASP1006R.DOC



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 26, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 209417 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
209417 -01	SW-W02-444
209417 -02	SW-W04-444
209417 -03	SW-W06-444
209417 -04	SW-W08-444
209417 -05	SW-W10-444
209417 -06	SW-W12-444
209417 -07	SW-W14-444
209417 -08	SW-W16-444
209417 -09	SW-N01-444

The 8260D naphthalene calibration standard failed the acceptance criteria for the method blank. The data were flagged accordingly.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22  
Date Received: 09/26/22  
Project: Texaco Strickland 180357, F&BI 209417  
Date Extracted: 09/29/22  
Date Analyzed: 09/29/22

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

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
SW-W02-444 209417-01	<5	105
SW-W04-444 209417-02	<5	107
SW-W06-444 209417-03	<5	103
SW-W08-444 209417-04	<5	103
SW-W10-444 209417-05	<5	104
SW-W12-444 209417-06	<5	104
SW-W14-444 209417-07	<5	109
SW-W16-444 209417-08	<5	104
SW-N01-444 209417-09	<5	103
Method Blank 02-2102 MB	<5	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22  
Date Received: 09/26/22  
Project: Texaco Strickland 180357, F&BI 209417  
Date Extracted: 09/30/22  
Date Analyzed: 09/30/22

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

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 56-165)
SW-W02-444 209417-01	<50	<250	110
SW-W04-444 209417-02	<50	<250	98
SW-W06-444 209417-03	<50	<250	108
SW-W08-444 209417-04	<50	<250	109
SW-W10-444 209417-05	<50	<250	100
SW-W12-444 209417-06	<50	<250	105
SW-W14-444 209417-07	<50	<250	99
SW-W16-444 209417-08	<50	<250	98
SW-N01-444 209417-09	<50	<250	102
Method Blank 02-2382 MB	<50	<250	107

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	SW-W02-444	Client:	Aspect Consulting, LLC
Date Received:	09/26/22	Project:	Texaco Strickland 180357
Date Extracted:	09/29/22	Lab ID:	209417-01
Date Analyzed:	09/29/22	Data File:	092927.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	110	84	120
Toluene-d8	104	73	128
4-Bromofluorobenzene	93	57	146

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	SW-W04-444	Client:	Aspect Consulting, LLC
Date Received:	09/26/22	Project:	Texaco Strickland 180357
Date Extracted:	09/29/22	Lab ID:	209417-02
Date Analyzed:	09/29/22	Data File:	092928.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	84	120
Toluene-d8	105	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	SW-W06-444	Client:	Aspect Consulting, LLC
Date Received:	09/26/22	Project:	Texaco Strickland 180357
Date Extracted:	09/29/22	Lab ID:	209417-03
Date Analyzed:	09/29/22	Data File:	092929.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	84	120
Toluene-d8	107	73	128
4-Bromofluorobenzene	93	57	146

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	SW-W08-444	Client:	Aspect Consulting, LLC
Date Received:	09/26/22	Project:	Texaco Strickland 180357
Date Extracted:	09/29/22	Lab ID:	209417-04
Date Analyzed:	09/29/22	Data File:	092930.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	84	120
Toluene-d8	105	73	128
4-Bromofluorobenzene	99	57	146

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	SW-W10-444	Client:	Aspect Consulting, LLC
Date Received:	09/26/22	Project:	Texaco Strickland 180357
Date Extracted:	09/29/22	Lab ID:	209417-05
Date Analyzed:	09/29/22	Data File:	092931.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	110	84	120
Toluene-d8	104	73	128
4-Bromofluorobenzene	94	57	146

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	SW-W12-444	Client:	Aspect Consulting, LLC
Date Received:	09/26/22	Project:	Texaco Strickland 180357
Date Extracted:	09/29/22	Lab ID:	209417-06
Date Analyzed:	09/29/22	Data File:	092932.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	84	120
Toluene-d8	106	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	SW-W14-444	Client:	Aspect Consulting, LLC
Date Received:	09/26/22	Project:	Texaco Strickland 180357
Date Extracted:	09/29/22	Lab ID:	209417-07
Date Analyzed:	09/29/22	Data File:	092933.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	84	120
Toluene-d8	103	73	128
4-Bromofluorobenzene	94	57	146

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	SW-W16-444	Client:	Aspect Consulting, LLC
Date Received:	09/26/22	Project:	Texaco Strickland 180357
Date Extracted:	09/29/22	Lab ID:	209417-08
Date Analyzed:	09/29/22	Data File:	092934.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	84	120
Toluene-d8	103	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	SW-N01-444	Client:	Aspect Consulting, LLC
Date Received:	09/26/22	Project:	Texaco Strickland 180357
Date Extracted:	09/29/22	Lab ID:	209417-09
Date Analyzed:	09/29/22	Data File:	092935.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	84	120
Toluene-d8	102	73	128
4-Bromofluorobenzene	95	57	146

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357
Date Extracted:	09/29/22	Lab ID:	02-2297 mb
Date Analyzed:	09/29/22	Data File:	092912.D
Matrix:	Soil	Instrument:	GCMS13
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	84	120
Toluene-d8	105	73	128
4-Bromofluorobenzene	97	57	146

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05 ca

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 09/26/22

Project: Texaco Strickland 180357, F&BI 209417

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

Laboratory Code: 209443-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	110	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 09/26/22

Project: Texaco Strickland 180357, F&BI 209417

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

Laboratory Code: 209418-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	4,500	84	96	63-146	13

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	94	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/06/22

Date Received: 09/26/22

Project: Texaco Strickland 180357, F&BI 209417

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

Laboratory Code: 209391-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1.0	<0.03	81	85	15-129	5
Toluene	mg/kg (ppm)	1.0	<0.05	75	80	15-129	6
Ethylbenzene	mg/kg (ppm)	1.0	<0.05	71	75	23-133	5
m,p-Xylene	mg/kg (ppm)	2.0	<0.1	77	82	19-134	6
o-Xylene	mg/kg (ppm)	1.0	<0.05	72	77	20-132	7
Naphthalene	mg/kg (ppm)	1.0	<0.05	64	69	30-138	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1.0	102	70-130
Toluene	mg/kg (ppm)	1.0	95	63-127
Ethylbenzene	mg/kg (ppm)	1.0	91	60-140
m,p-Xylene	mg/kg (ppm)	2.0	99	56-145
o-Xylene	mg/kg (ppm)	1.0	92	61-137
Naphthalene	mg/kg (ppm)	1.0	85	67-143



# 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.

**SAMPLE CHAIN OF CUSTODY**

109417  
 Report To: David Boback & Adam Griffin  
 Company: Aspet Consulting  
 Address: \_\_\_\_\_  
 City, State, ZIP: \_\_\_\_\_  
 Phone: 316.617.0499 Email: dboback@aspetconsulting.com

SAMPLERS (signature) [Signature]

PROJECT NAME  
TEXCO STANFORD

PO #  
180357

REMARKS

INVOICE TO

Project specific RIs? - Yes / No

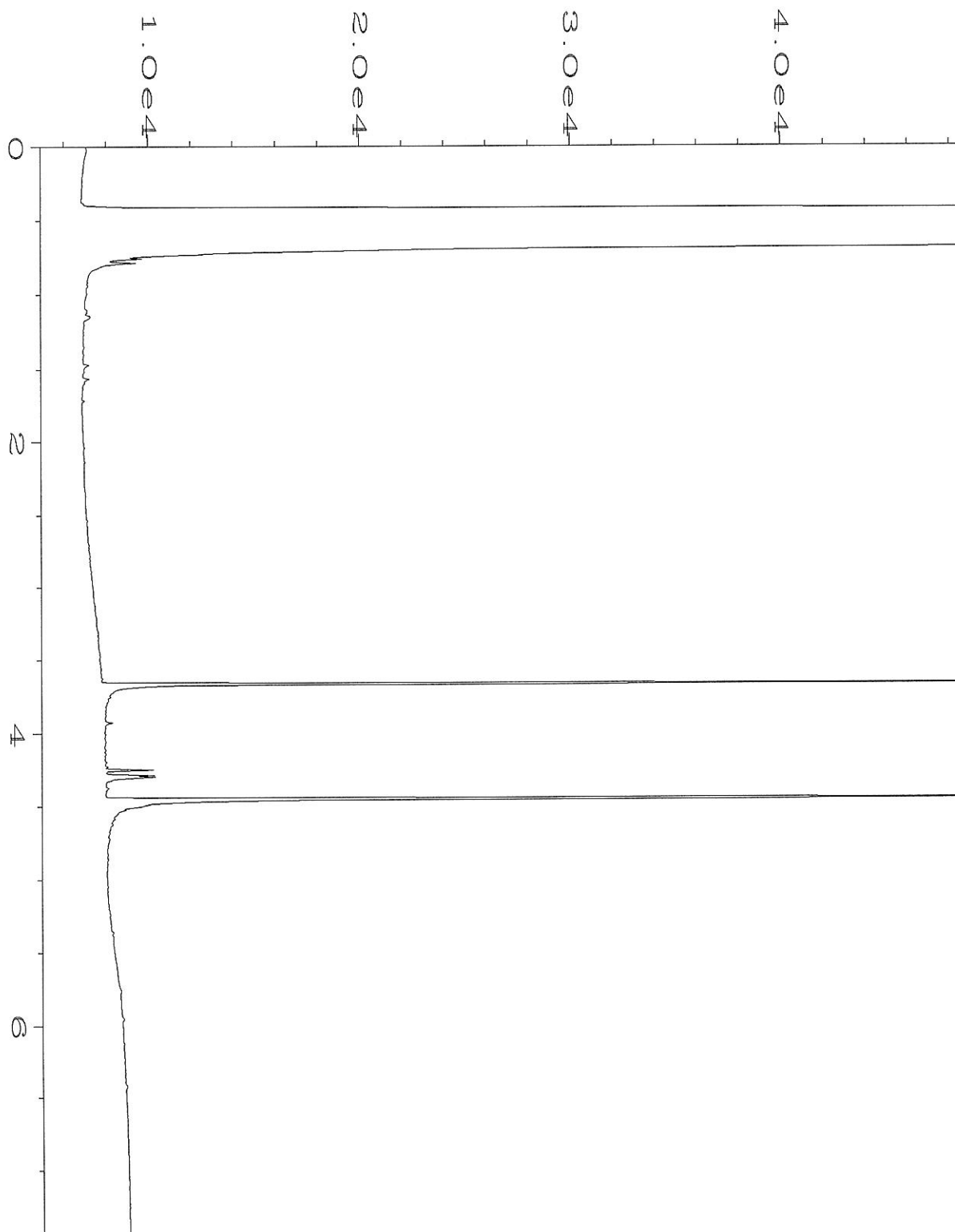
Page # 1 of 1  
 TURNOVER TIME  
 Standard turnaround  
 RUSH  
 Rush charges authorized by: \_\_\_\_\_  
 SAMPLE DISPOSAL  
 Archive samples  
 Other \_\_\_\_\_  
 Default: Dispose after 30 days

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							
SW-W02-444	01-A-E	9/26/22	1115	Soil	5	X	X												
SW-W04-444	02		1115																
SW-W06-444	03		1120																
SW-W08-444	04		1125																
SW-W10-444	05		1140																
SW-W12-444	06		1145																
SW-W14-444	07		1240																
SW-W16-444	08		1245																
SW-N01-444	09		1350																

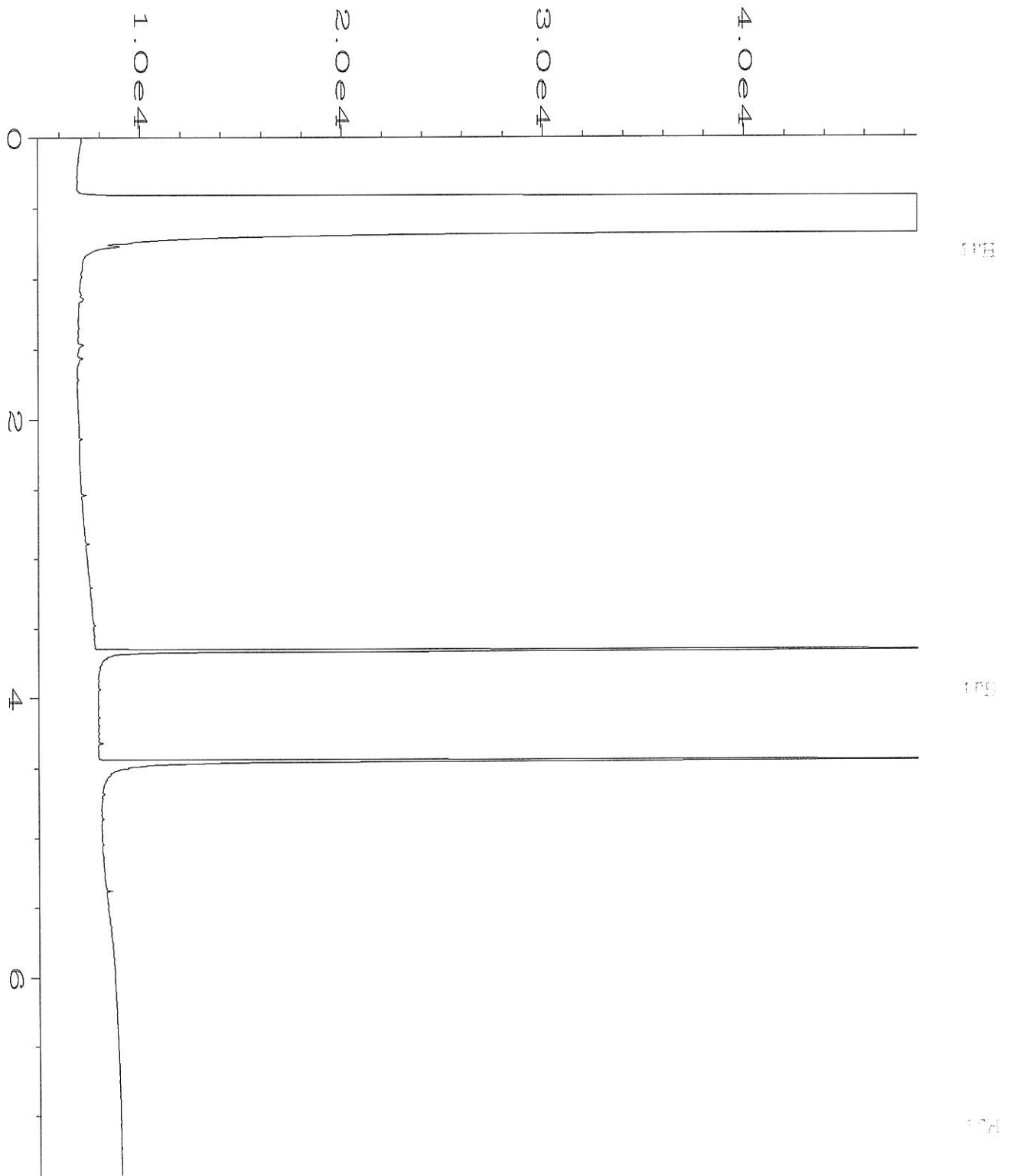
Friedman & Bruya, Inc.  
 Ph. (206) 285-8282

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>		<u>David Boback</u>		<u>Aspet</u>		9/26/22	1458
Received by: <u>[Signature]</u>		<u>ANH PHAN</u>		<u>ESB</u>		09/26/22	14:59
Relinquished by:							
Received by:							

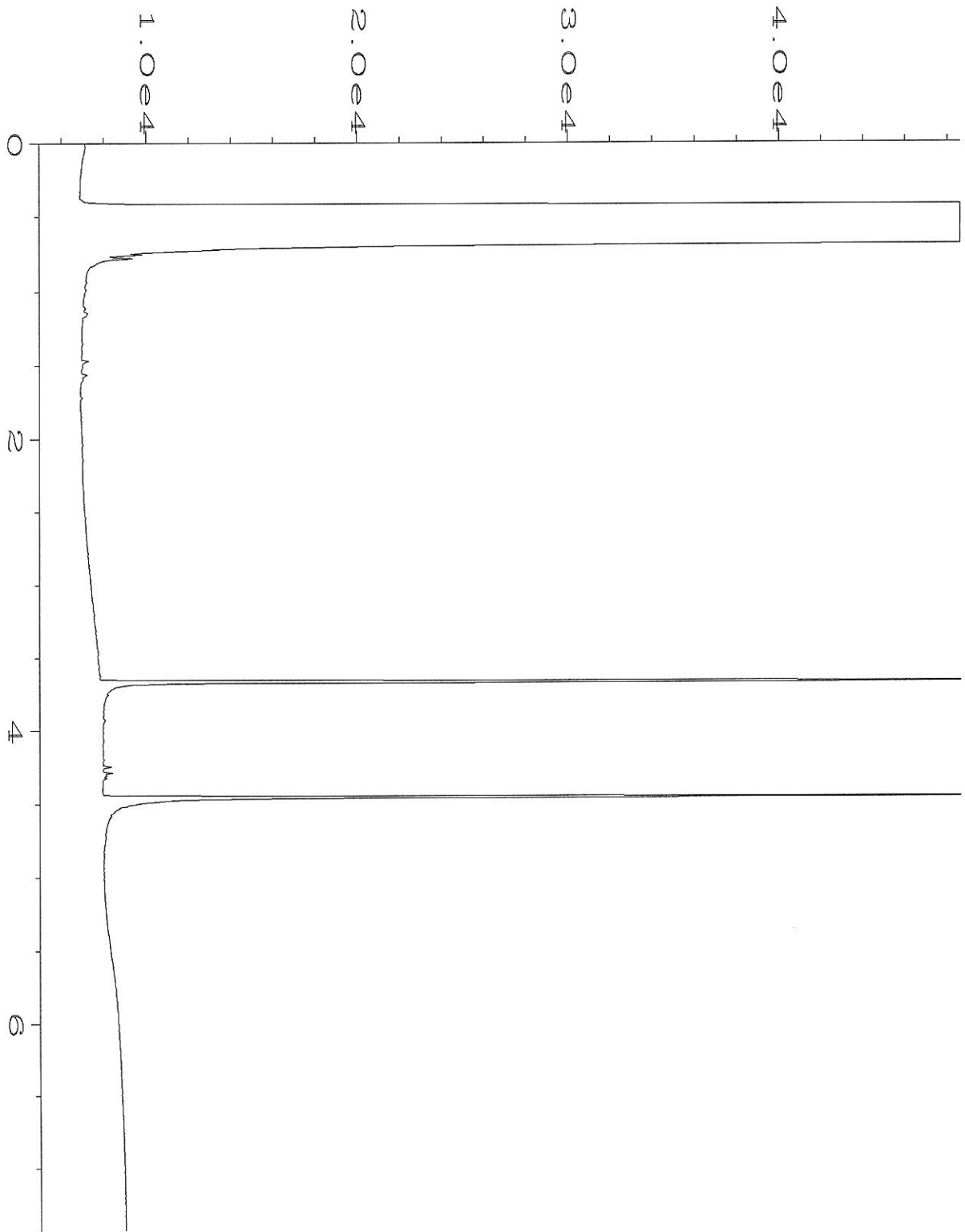
Samples received at ESB



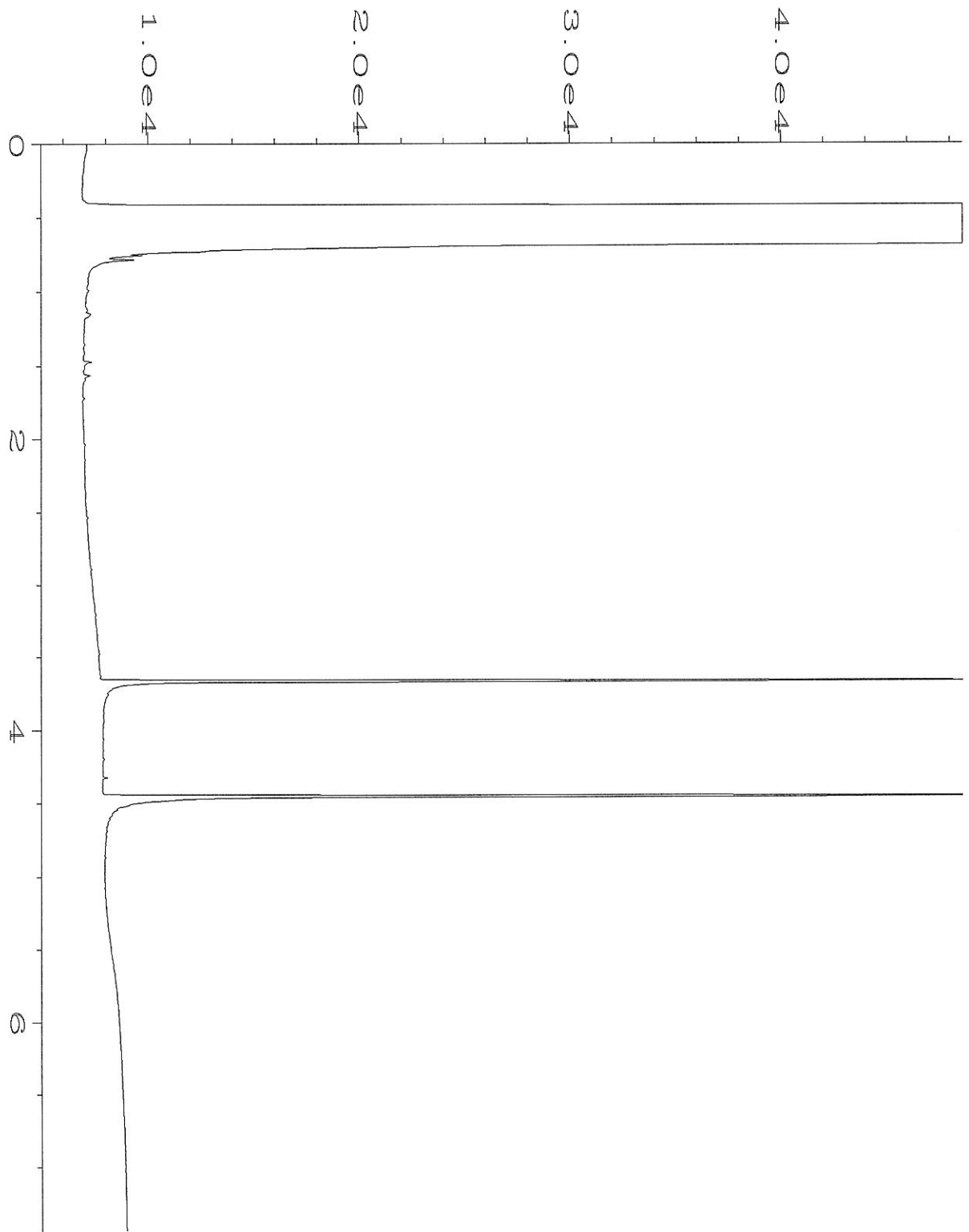
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Operator	: TL	Vial Number	: 42
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209417-01	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 30 Sep 22 07:54 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 11:15 AM		



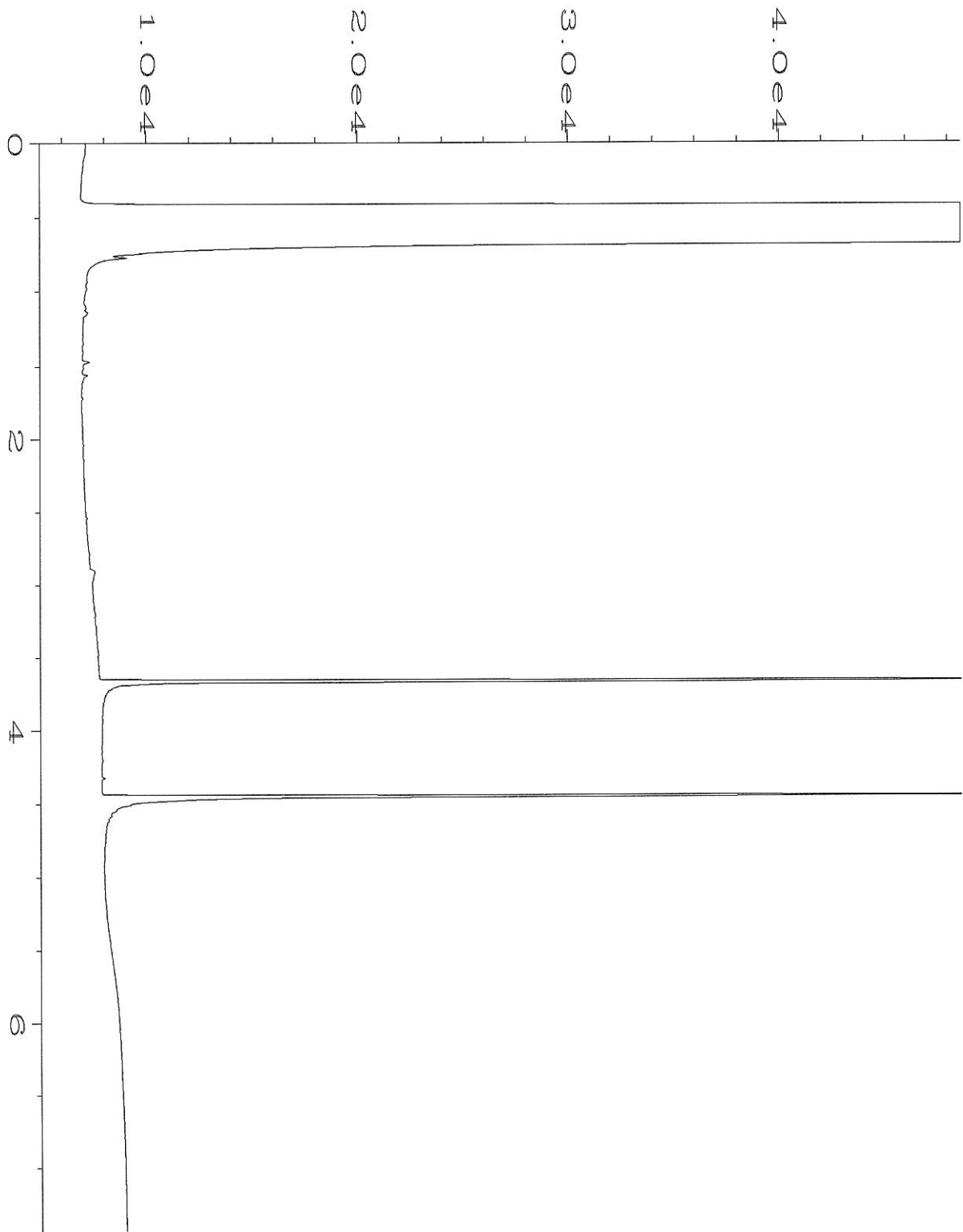
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Instrument	: GC1	Injection Number	: 1
Sample Name	: 209417-02	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 30 Sep 22 08:09 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 11:15 AM		



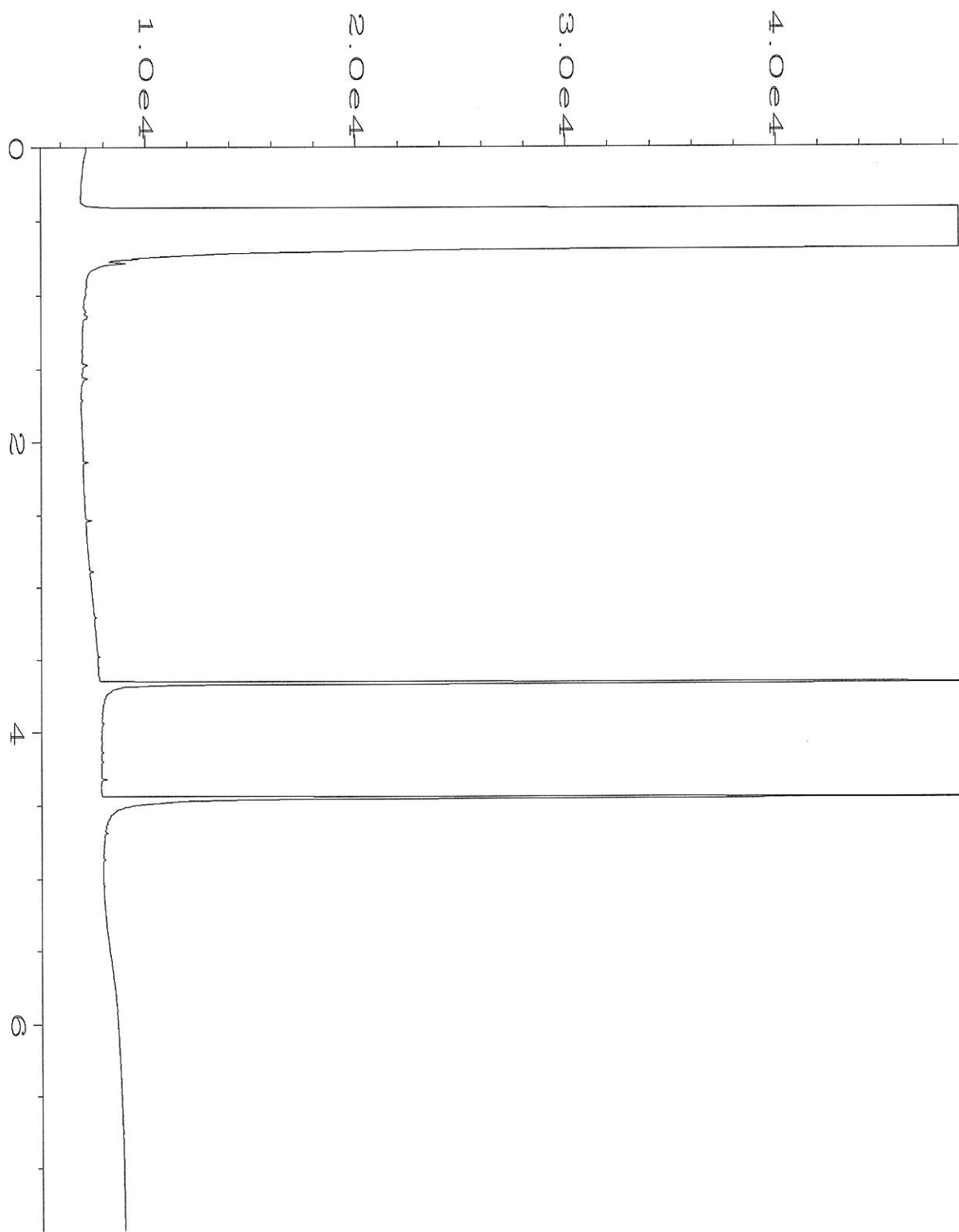
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Operator	: TL	Vial Number	: 44
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209417-03	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 30 Sep 22 08:23 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 11:15 AM		



Data File Name	: C:\HPCHEM\1\DATA\09-30-22\045F0901.D	Page Number	: 1
Operator	: TL	Vial Number	: 45
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209417-04	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 30 Sep 22 08:38 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 11:15 AM		

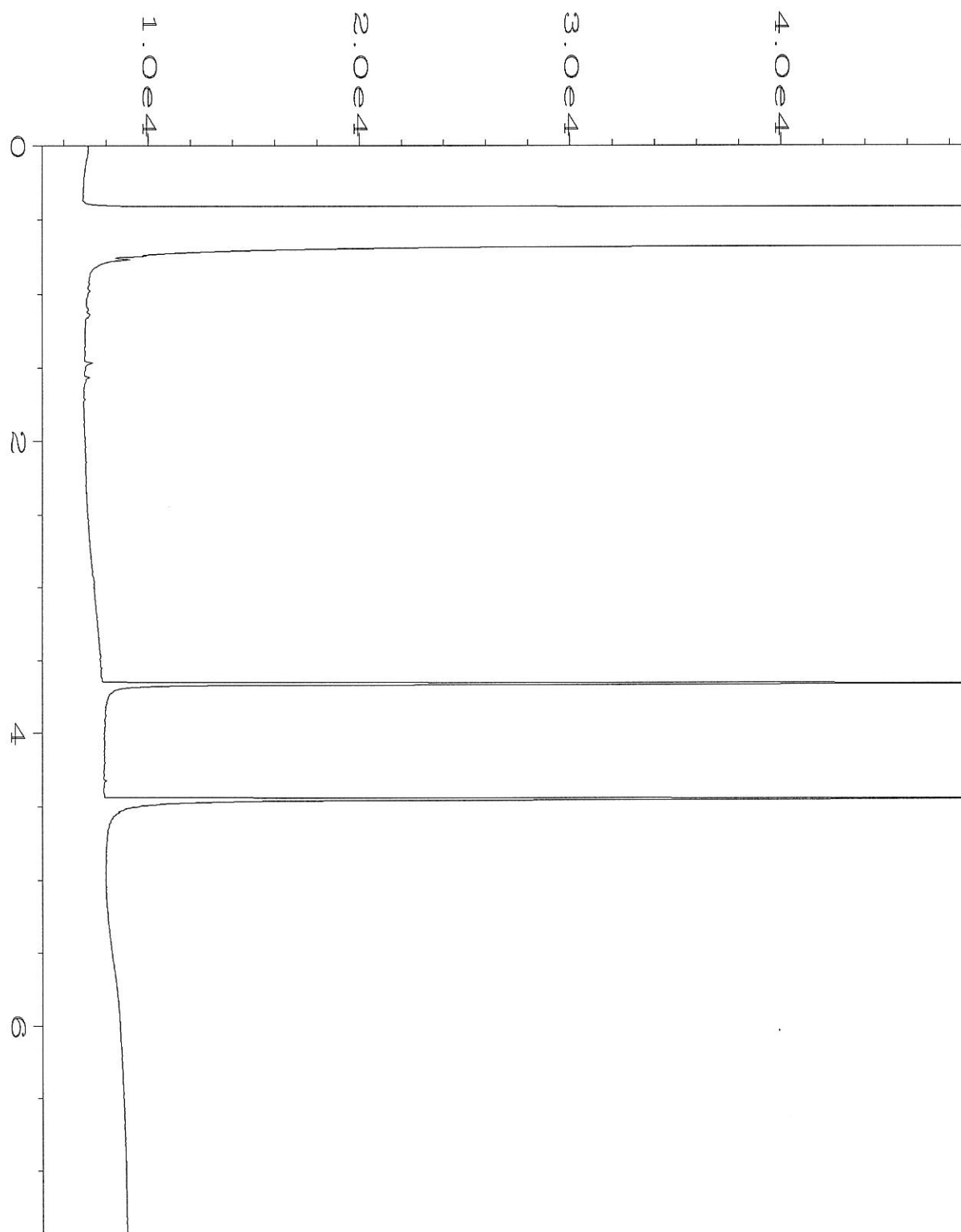


Data File Name	: C:\HPCHEM\1\DATA\09-30-22\046F0901.D	Page Number	: 1
Operator	: TL	Vial Number	: 46
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209417-05	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 30 Sep 22 08:53 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 11:15 AM		

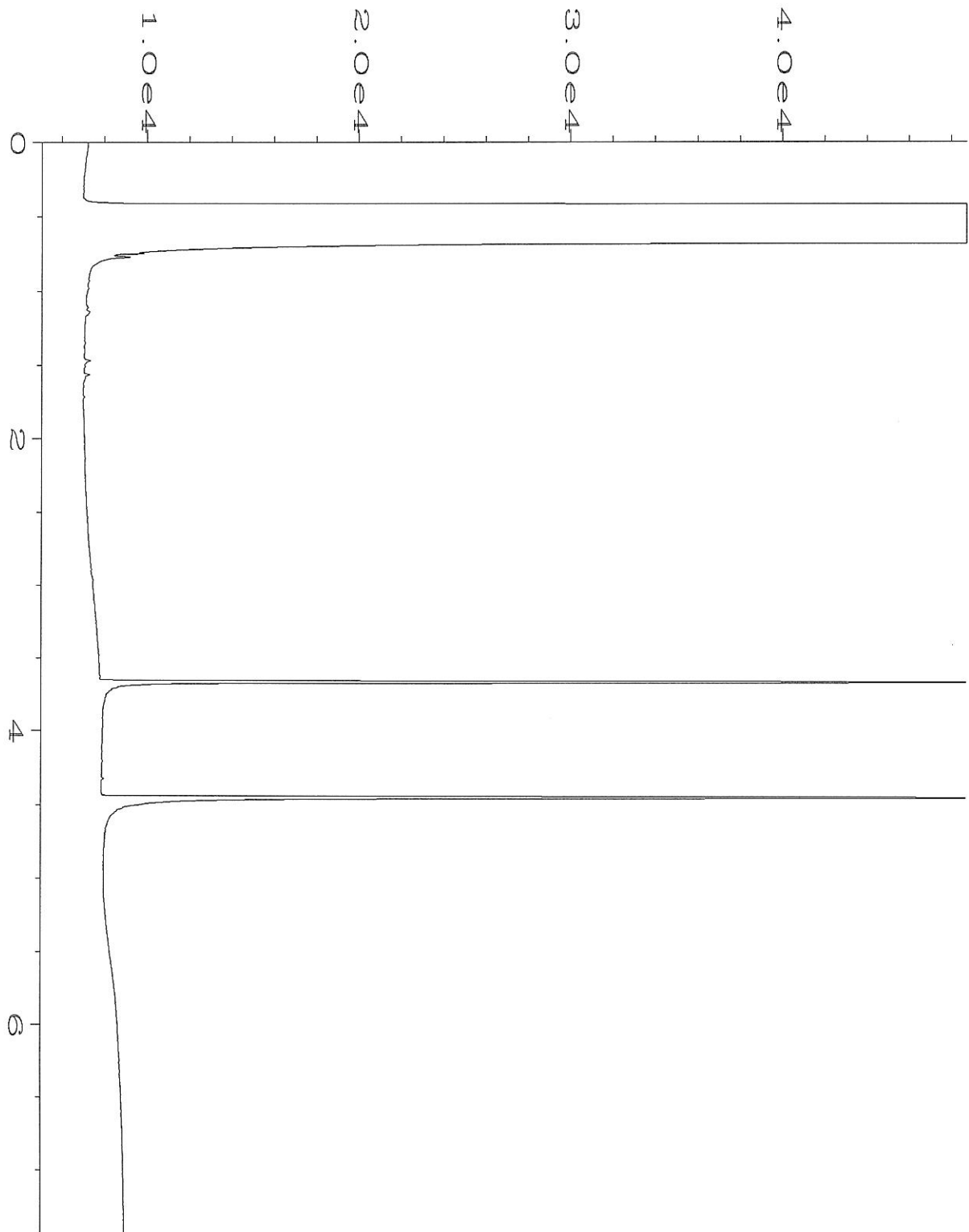


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Operator	: TL	Vial Number	: 47
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209417-06	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 30 Sep 22 09:08 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 11:15 AM		

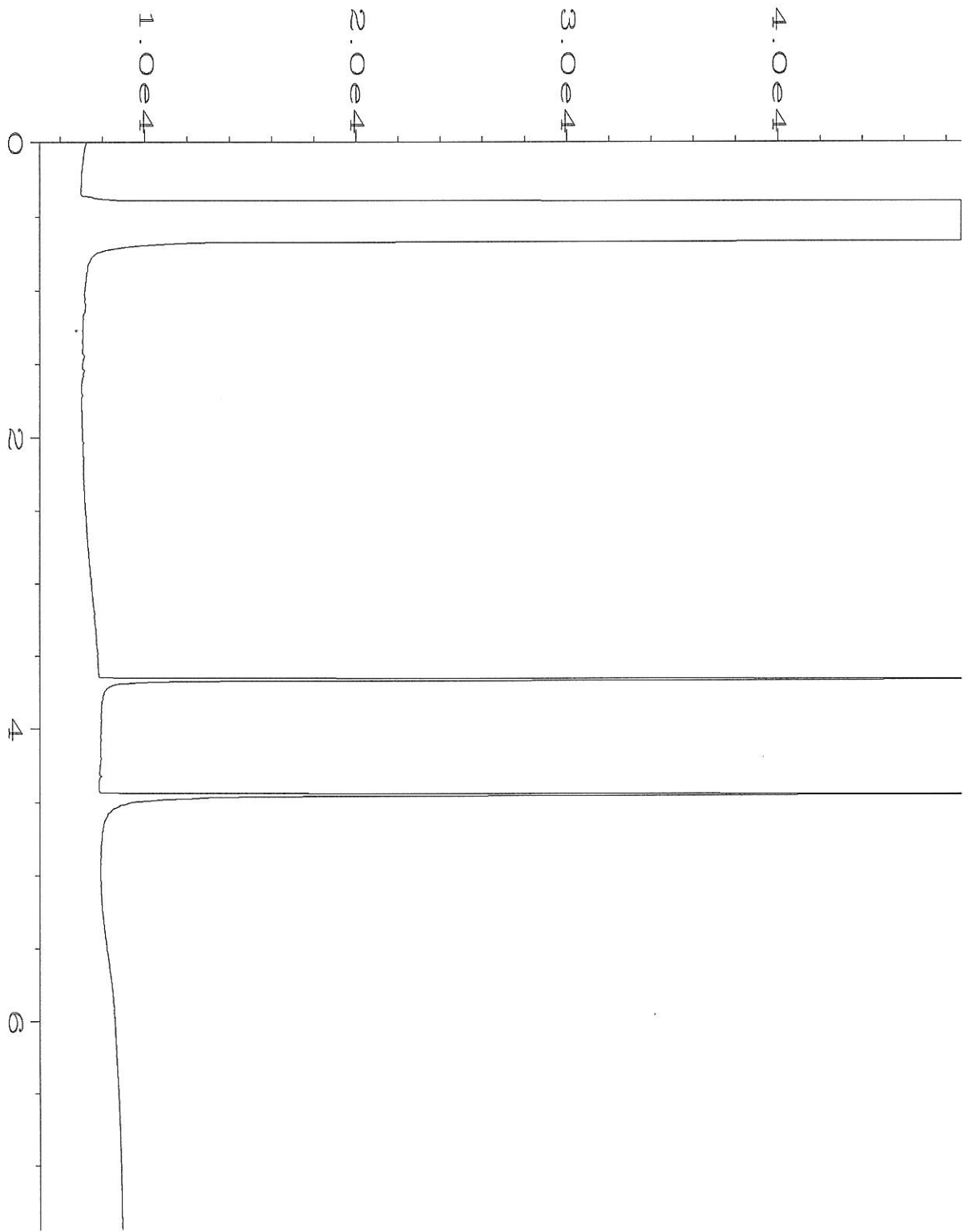




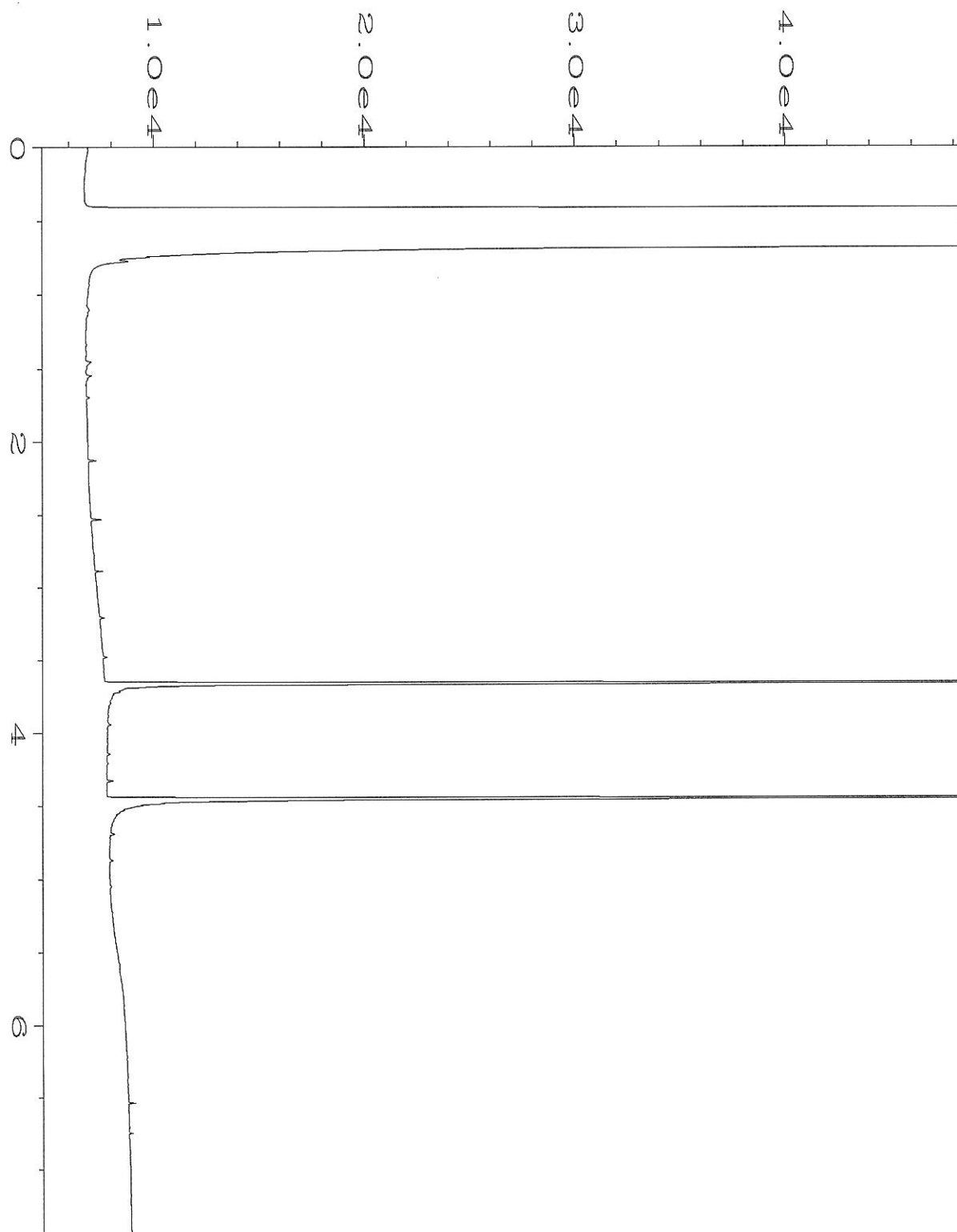
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Operator	: TL	Vial Number	: 48
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209417-07	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 30 Sep 22 09:22 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 11:15 AM		



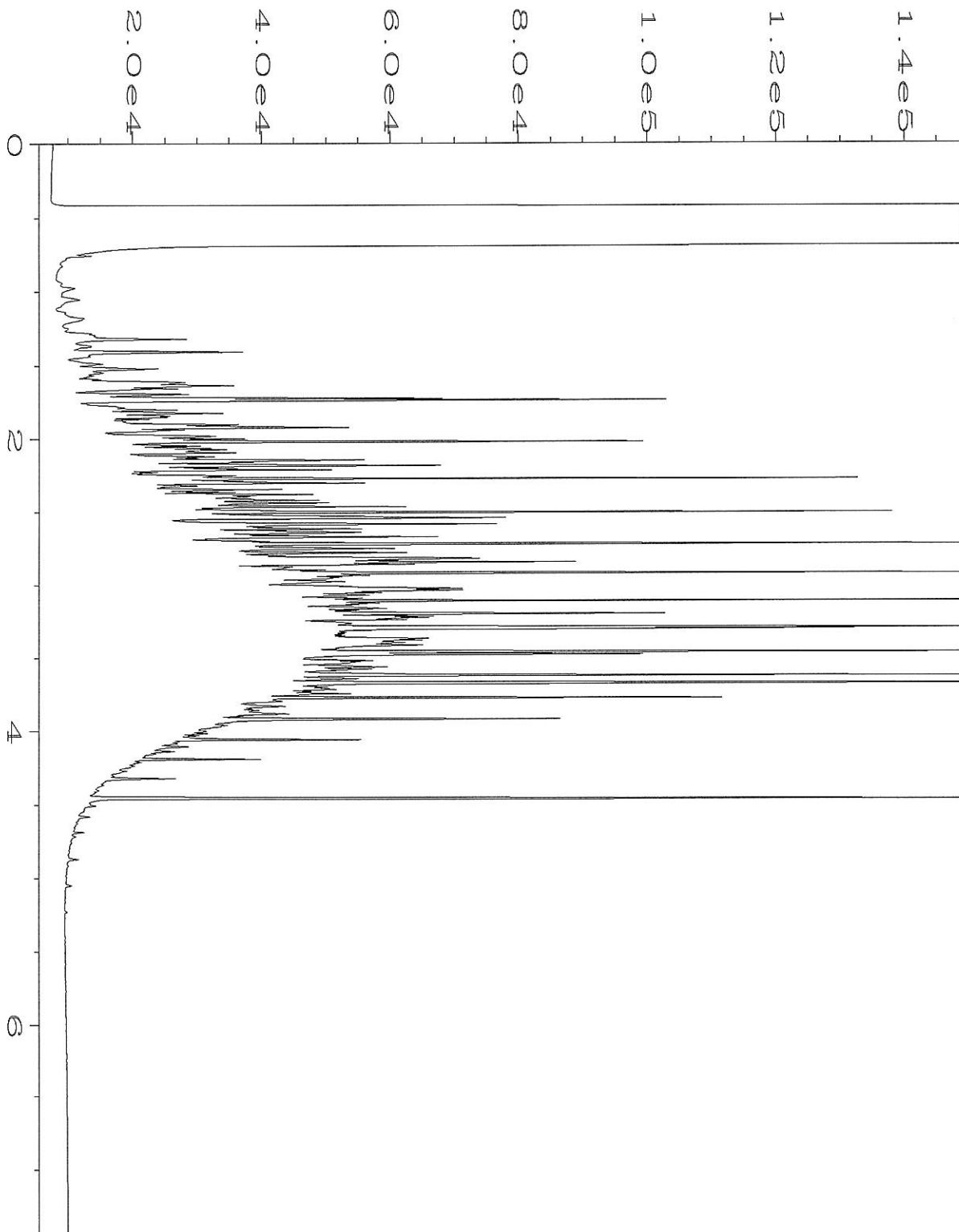
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Operator	: TL	Vial Number	: 49
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209417-08	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 30 Sep 22 09:37 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 11:16 AM		



Data File Name	: C:\HPCHEM\1\DATA\09-30-22\050F0901.D	Page Number	: 1
Operator	: TL	Vial Number	: 50
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209417-09	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 30 Sep 22 09:52 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 11:16 AM		



Data File Name	: C:\HPCHEM\1\DATA\09-30-22\027F0701.D	Page Number	: 1
Operator	: TL	Vial Number	: 27
Instrument	: GC1	Injection Number	: 1
Sample Name	: 02-2382 mb	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 30 Sep 22 03:50 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 11:16 AM		



Data File Name	: C:\HPCHEM\1\DATA\09-30-22\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 66-186F	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 30 Sep 22 06:05 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 11:16 AM		

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.

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

October 10, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
350 Madison Ave. N.  
Bainbridge Island, WA 98110-1810

Dear Mr Griffin:

Included are the results from the testing of material submitted on September 30, 2022 from the Texaco Strickland 180357, F&BI 209531 project. There are 14 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1010R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on September 30, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 209531 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
209531 -01	SW-N02-447
209531 -02	SW-N04-447
209531 -03	SW-N07-447
209531 -04	SW-N10-447
209531 -05	SW-N12-447
209531 -06	SW-N14-447

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/22  
Date Received: 09/30/22  
Project: Texaco Strickland 180357, F&BI 209531  
Date Extracted: 10/05/22  
Date Analyzed: 10/05/22

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

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
SW-N02-447 209531-01	<5	106
SW-N04-447 209531-02	<5	104
SW-N07-447 209531-03 1/5	73	108
SW-N10-447 209531-04 1/50	1,700	117
SW-N12-447 209531-05	30	110
SW-N14-447 209531-06	<5	104
Method Blank 02-2339 MB	<5	126



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/22  
Date Received: 09/30/22  
Project: Texaco Strickland 180357, F&BI 209531  
Date Extracted: 10/04/22  
Date Analyzed: 10/04/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-D<sub>x</sub>**

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 56-165)
SW-N02-447 209531-01	<50	<250	114
SW-N04-447 209531-02	<50	<250	116
SW-N07-447 209531-03	<50	<250	103
SW-N10-447 209531-04	550 x	<250	102
SW-N12-447 209531-05	<50	<250	101
SW-N14-447 209531-06	<50	<250	110
Method Blank 02-2399 MB	<50	<250	116

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N02-447	Client:	Aspect Consulting, LLC
Date Received:	09/30/22	Project:	Texaco Strickland 180357, F&BI 209531
Date Extracted:	10/04/22	Lab ID:	209531-01
Date Analyzed:	10/04/22	Data File:	100420.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	jeb

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	105	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N04-447	Client:	Aspect Consulting, LLC
Date Received:	09/30/22	Project:	Texaco Strickland 180357, F&BI 209531
Date Extracted:	10/04/22	Lab ID:	209531-02
Date Analyzed:	10/04/22	Data File:	100421.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	jeb

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	104	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N07-447	Client:	Aspect Consulting, LLC
Date Received:	09/30/22	Project:	Texaco Strickland 180357, F&BI 209531
Date Extracted:	10/04/22	Lab ID:	209531-03
Date Analyzed:	10/04/22	Data File:	100422.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	jeb

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	103	89	112
4-Bromofluorobenzene	107	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	0.030
Toluene	0.20
Ethylbenzene	0.59
m,p-Xylene	2.5
o-Xylene	0.37
Naphthalene	0.26

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N10-447	Client:	Aspect Consulting, LLC
Date Received:	09/30/22	Project:	Texaco Strickland 180357, F&BI 209531
Date Extracted:	10/04/22	Lab ID:	209531-04
Date Analyzed:	10/04/22	Data File:	100423.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	jeb

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	126	89	112
4-Bromofluorobenzene	126	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	0.19
Toluene	0.29
Ethylbenzene	10
m,p-Xylene	13
o-Xylene	0.90
Naphthalene	8.0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N12-447	Client:	Aspect Consulting, LLC
Date Received:	09/30/22	Project:	Texaco Strickland 180357, F&BI 209531
Date Extracted:	10/04/22	Lab ID:	209531-05
Date Analyzed:	10/04/22	Data File:	100424.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	jeb

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	103	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	0.56

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N14-447	Client:	Aspect Consulting, LLC
Date Received:	09/30/22	Project:	Texaco Strickland 180357, F&BI 209531
Date Extracted:	10/04/22	Lab ID:	209531-06
Date Analyzed:	10/04/22	Data File:	100425.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	jeb

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	104	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357, F&BI 209531
Date Extracted:	10/04/22	Lab ID:	02-2312 mb
Date Analyzed:	10/04/22	Data File:	100405.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	jeb

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	103	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/22

Date Received: 09/30/22

Project: Texaco Strickland 180357, F&BI 209531

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

Laboratory Code: 209531-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	110	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/22

Date Received: 09/30/22

Project: Texaco Strickland 180357, F&BI 209531

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

Laboratory Code: 210018-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	98	90	63-146	9

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	90	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/22

Date Received: 09/30/22

Project: Texaco Strickland 180357, F&BI 209531

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

Laboratory Code: 210015-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	0.13	68	76	29-129	11
Toluene	mg/kg (ppm)	1	4.4	0 ip	0 ip	35-130	nm
Ethylbenzene	mg/kg (ppm)	1	4.7	0 ip	0 ip	32-137	nm
m,p-Xylene	mg/kg (ppm)	2	25	0 ip	0 ip	34-136	nm
o-Xylene	mg/kg (ppm)	1	8.9	0 ip	0 ip	33-134	nm
Naphthalene	mg/kg (ppm)	1	9.4	0 ip	0 ip	14-157	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	117	71-118
Toluene	mg/kg (ppm)	1	111	66-126
Ethylbenzene	mg/kg (ppm)	1	111	64-123
m,p-Xylene	mg/kg (ppm)	2	111	78-122
o-Xylene	mg/kg (ppm)	1	112	77-124
Naphthalene	mg/kg (ppm)	1	112	63-140

# 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.

**SAMPLE CHAIN OF CUSTODY**

09/30/22

VS A3 / A02

Page # 1 of 1

Report to: 209531  
Robert Griffin & David Eckhardt

Company: Apert Consulting

Address: \_\_\_\_\_

City, State, ZIP: \_\_\_\_\_

Phone: 316-617-0499 Email: Robert.Griffin@ApertConsulting.com

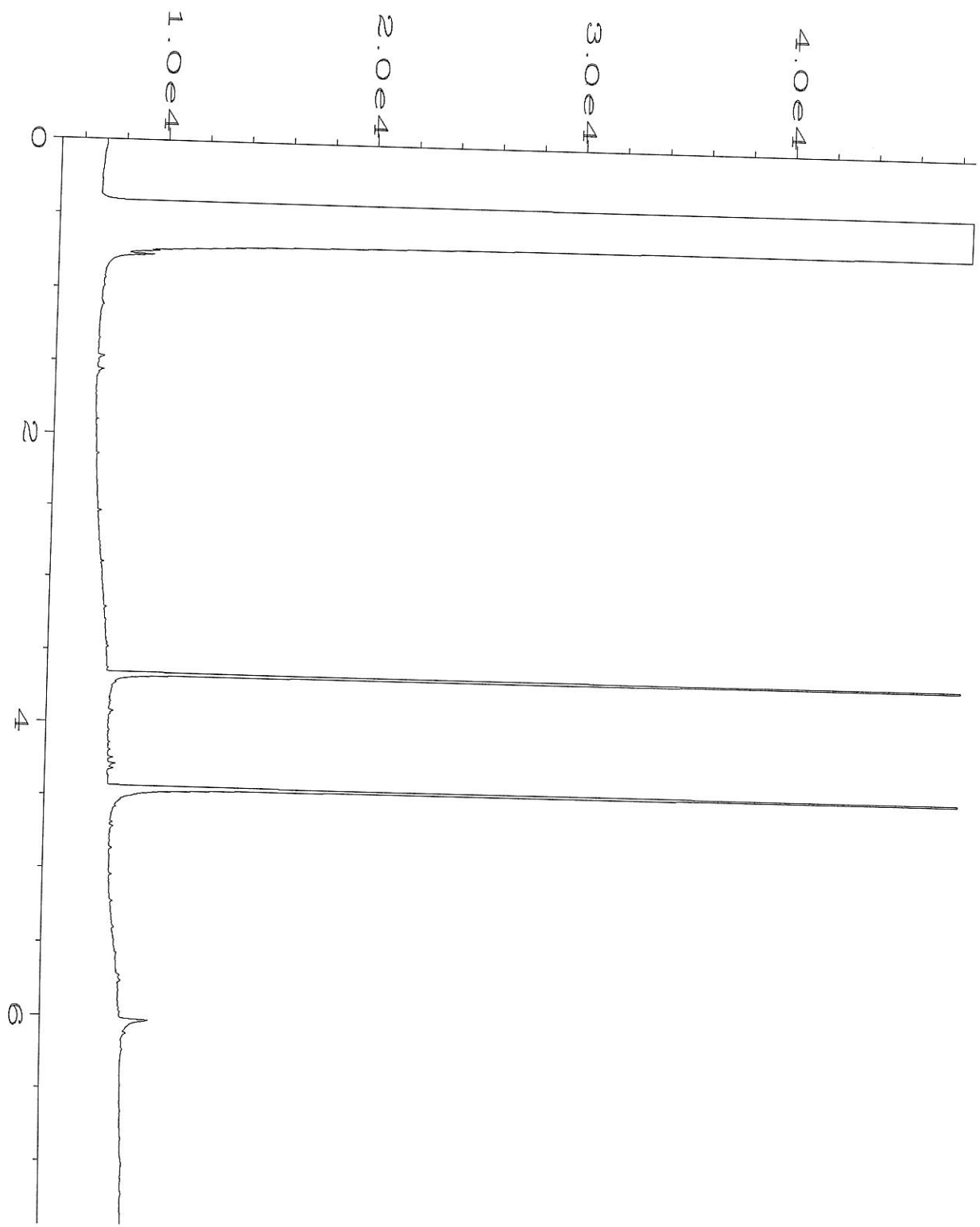
ANALYSES REQUESTED <input checked="" type="checkbox"/> NWTPH-Dx <input checked="" type="checkbox"/> NWTPH-Gx <input type="checkbox"/> BTEX EPA 8021 <input type="checkbox"/> NWTPH-HCID <input type="checkbox"/> VOCs EPA 8260 <input type="checkbox"/> PAHs EPA 8270 <input type="checkbox"/> PCBs EPA 8082 <input checked="" type="checkbox"/> BTEXN 8260		PROJECT NAME <u>Texas Strickland</u>	PO # <u>180357</u>
REMARKS Project specific RIs? - Yes / No		INVOICE TO	
SAMPLE DISPOSAL <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH Rush charges authorized by: _____ <input type="checkbox"/> Archive samples <input type="checkbox"/> Other _____ Default: Dispose after 30 days		TURNOURND TIME	

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes		
SU-NO2-447	01 A-E	9/29/22	1140	Soil	5	X	X								
SU-NO4-447	02	9/30/22	0710	Soil	5										
SU-NO7-447	03	9/30/22	0740												
SU-NO10-447	04		0815												
SU-NO12-447	05		0850												
SU-NO14-447	06		0900												

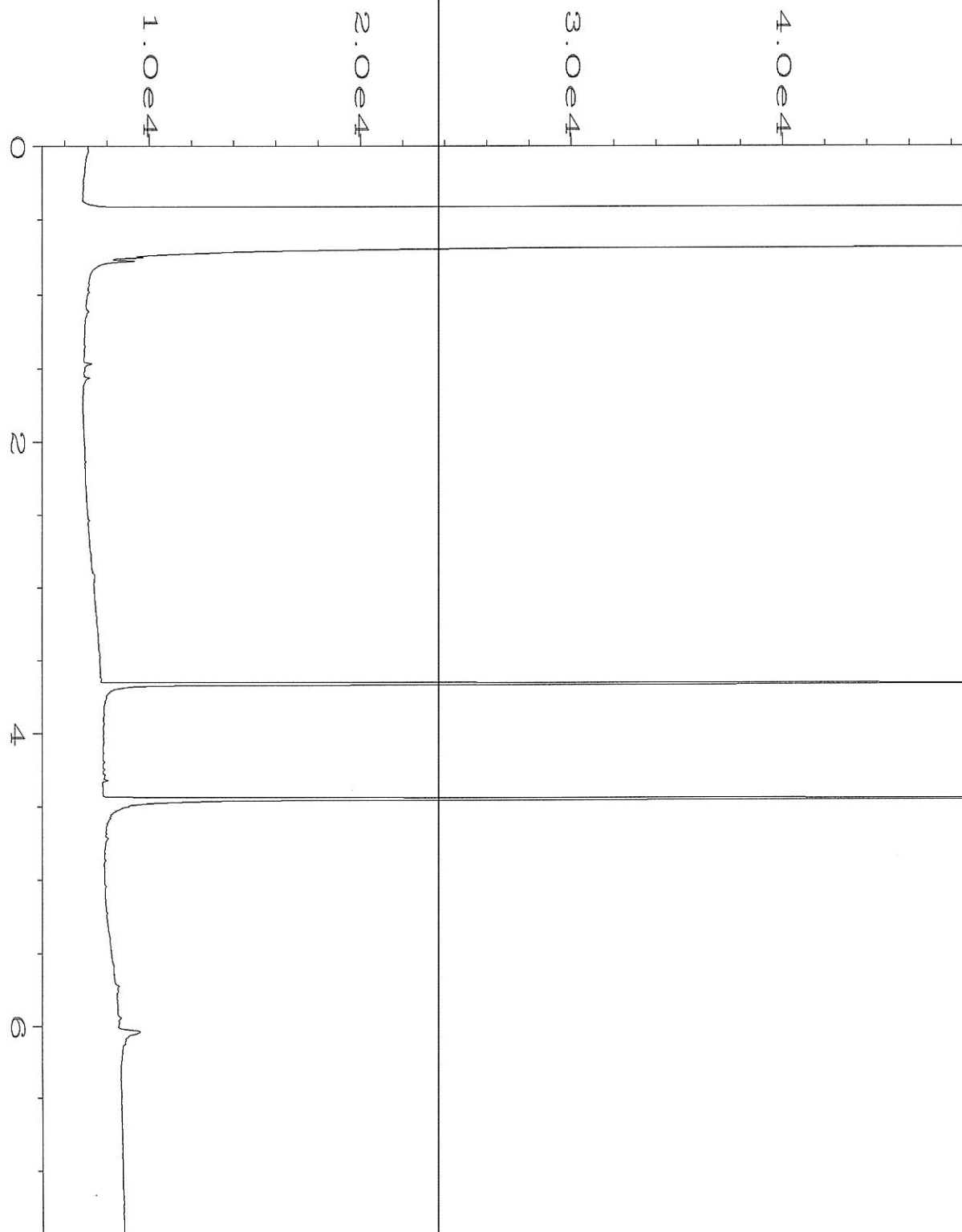
Friedman & Bruya, Inc.  
 Ph. (206) 285-8282

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u> Received by: <u>[Signature]</u>		<u>David Eckhardt</u> <u>ANH PHAN</u>		<u>Apert Consulting</u> <u>ERB</u>		9/30/22	1510
Relinquished by: _____ Received by: _____		_____ _____		_____ _____		_____	_____
Received by: _____		_____		_____		_____	_____

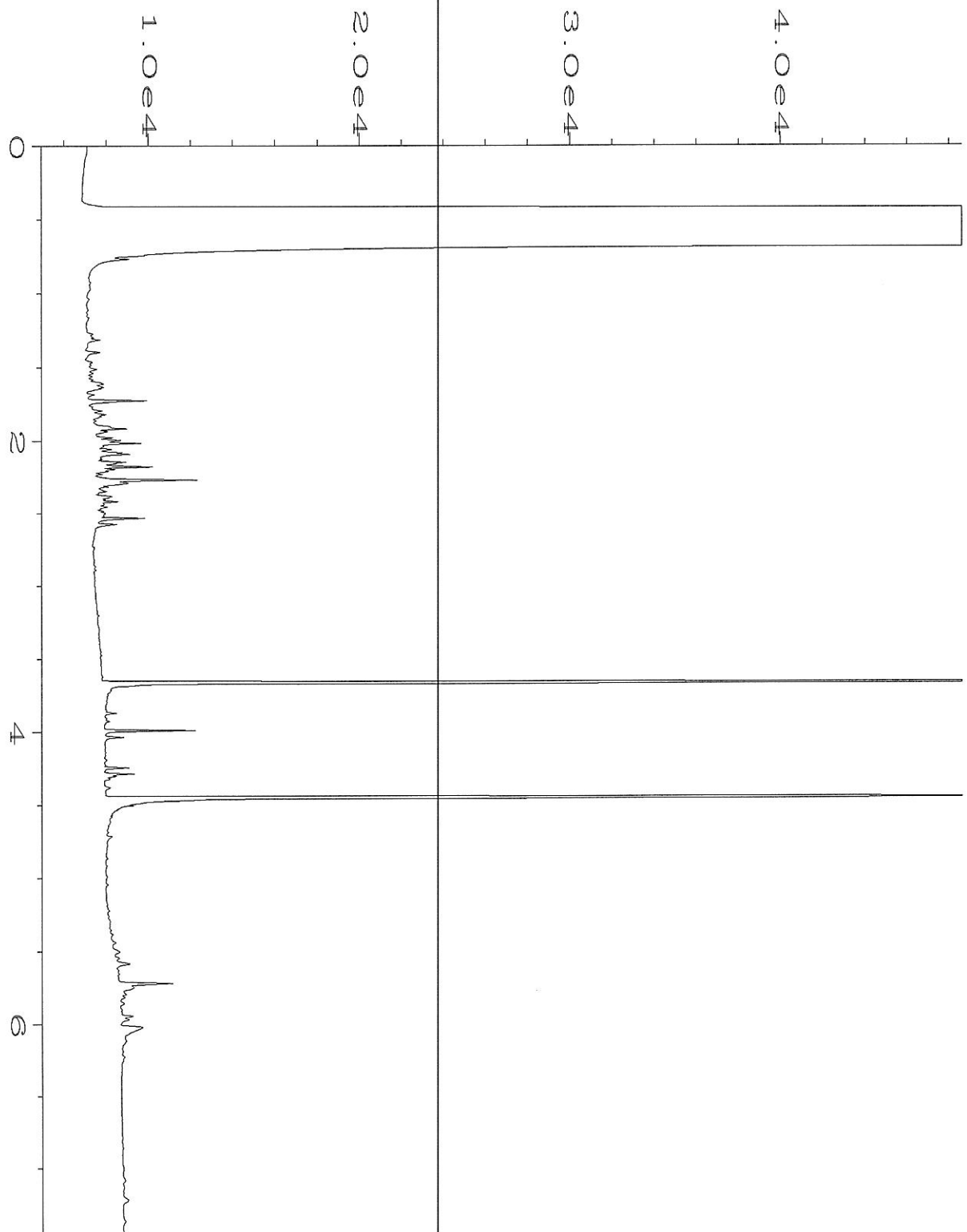
Samples received at EOC



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Operator	: TL	Vial Number	: 32
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209531-01	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 22 04:34 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	05 Oct 22 09:42 AM		

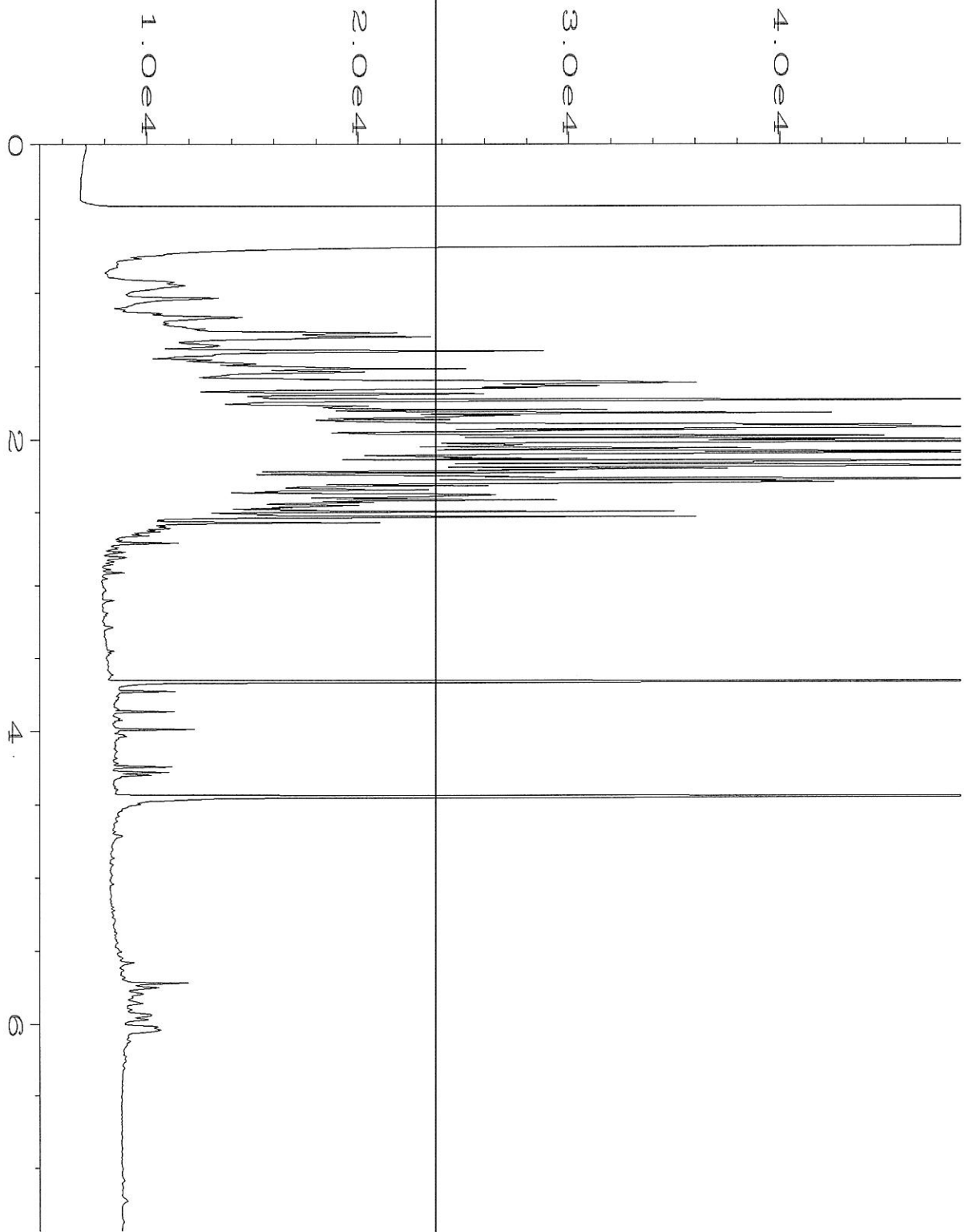


Data File Name	: C:\HPCHEM\1\DATA\10-04-22\033F0701.D	Page Number	: 1
Operator	: TL	Vial Number	: 33
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209531-02	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 22 04:48 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	05 Oct 22 09:42 AM		

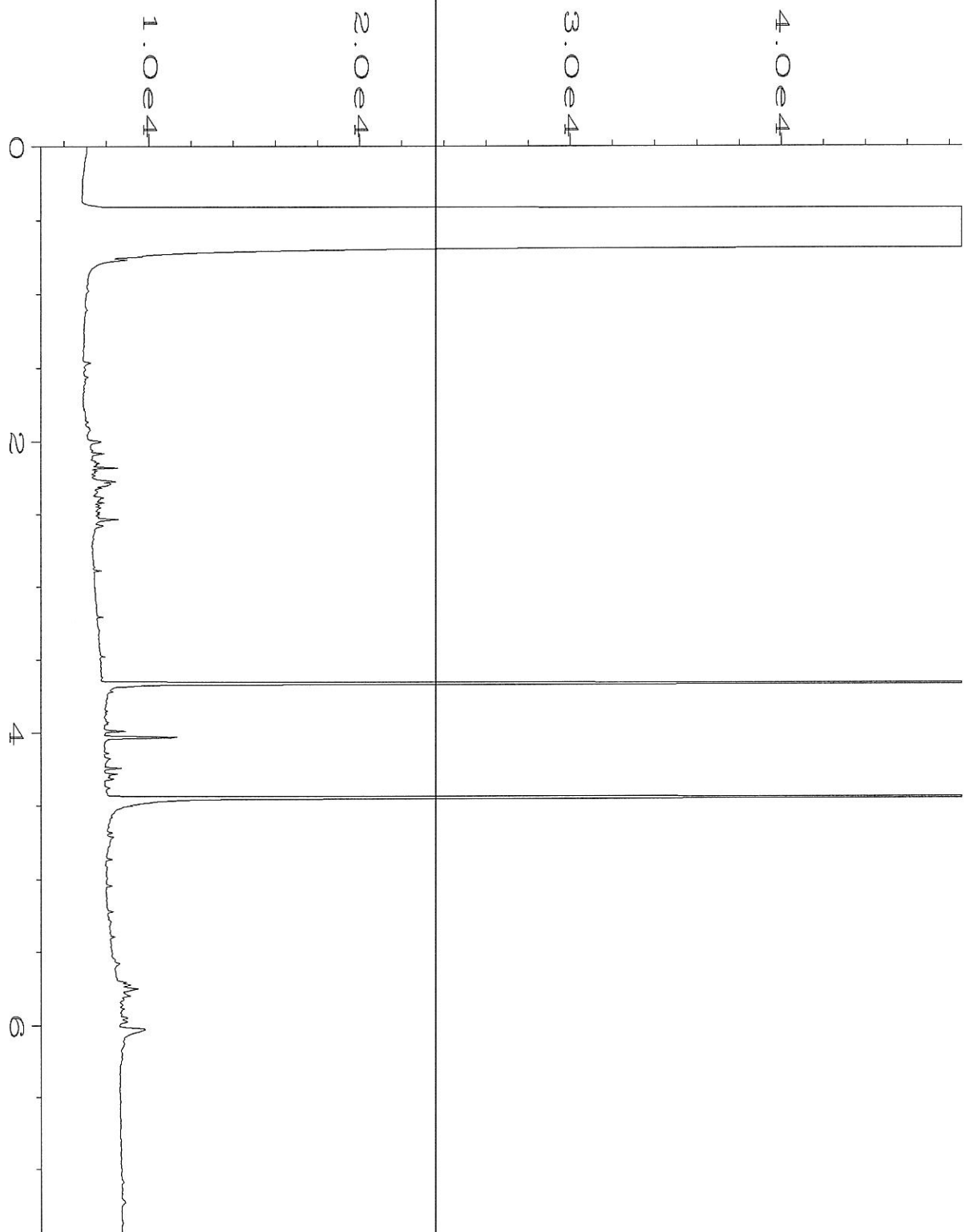


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Operator	: TL	Vial Number	: 34
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209531-03	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 22 05:03 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	05 Oct 22 09:42 AM		

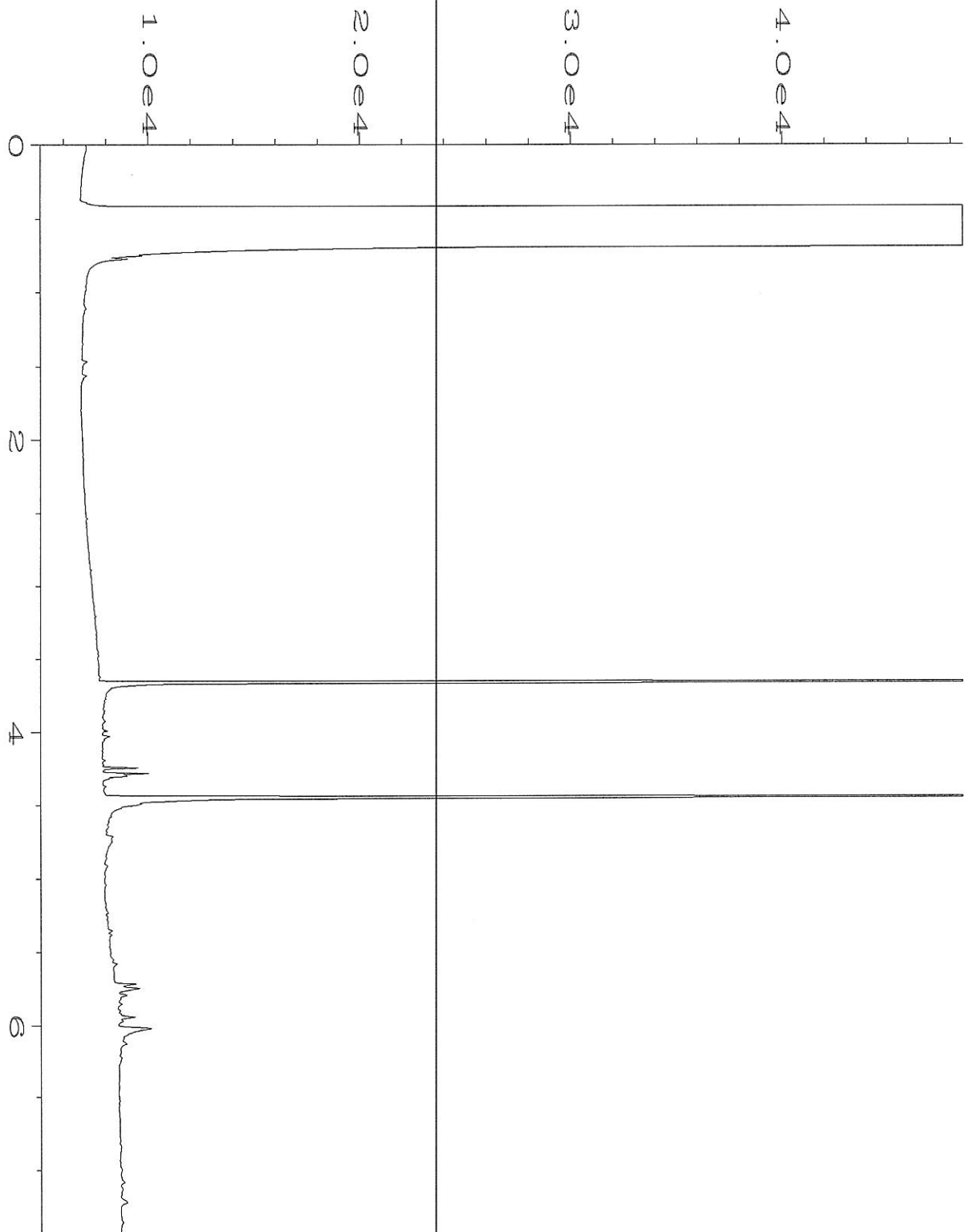




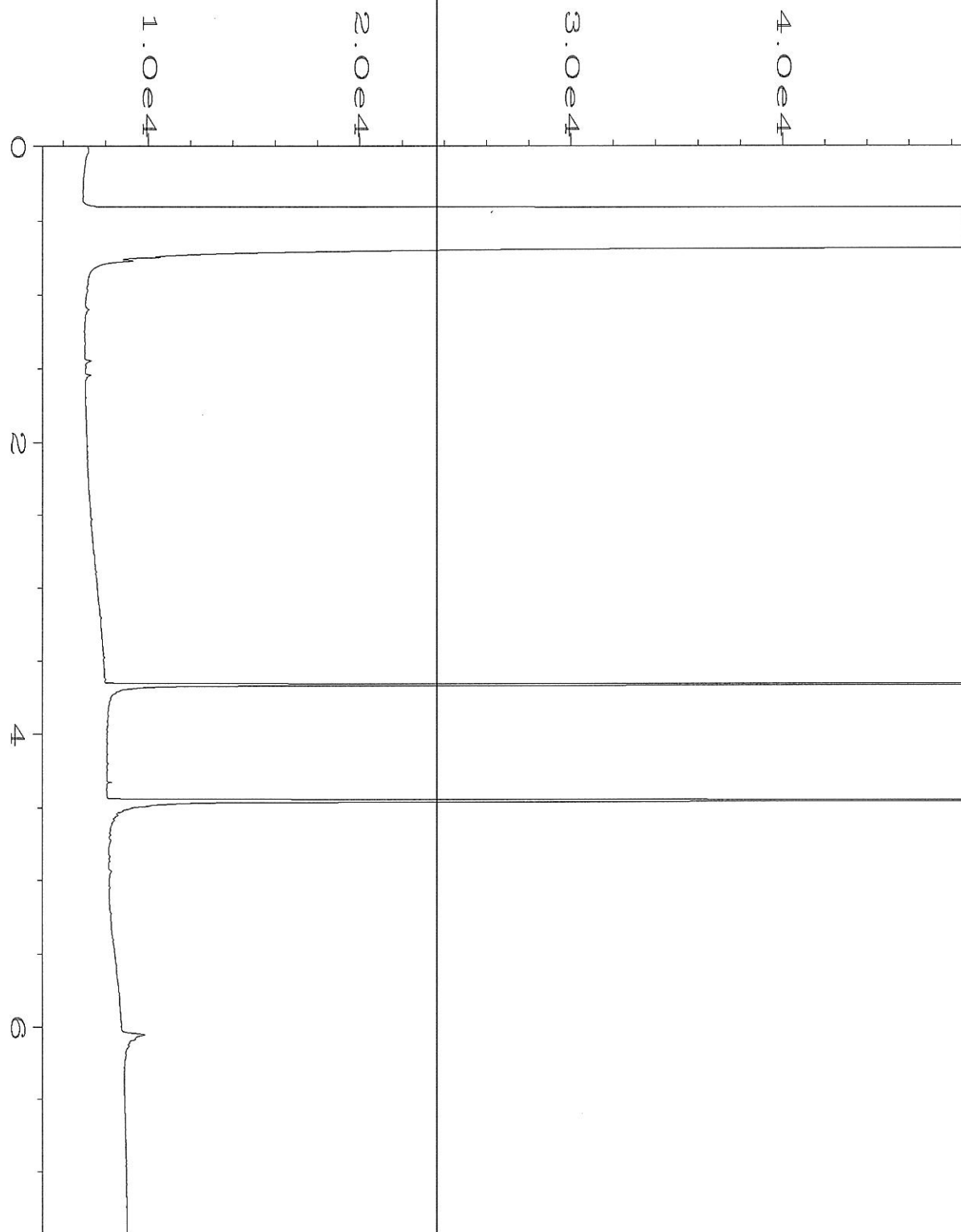
Data File Name	: C:\HPCHEM\1\DATA\10-04-22\035F0701.D	Page Number	: 1
Operator	: TL	Vial Number	: 35
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209531-04	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 22 05:18 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	05 Oct 22 09:42 AM		



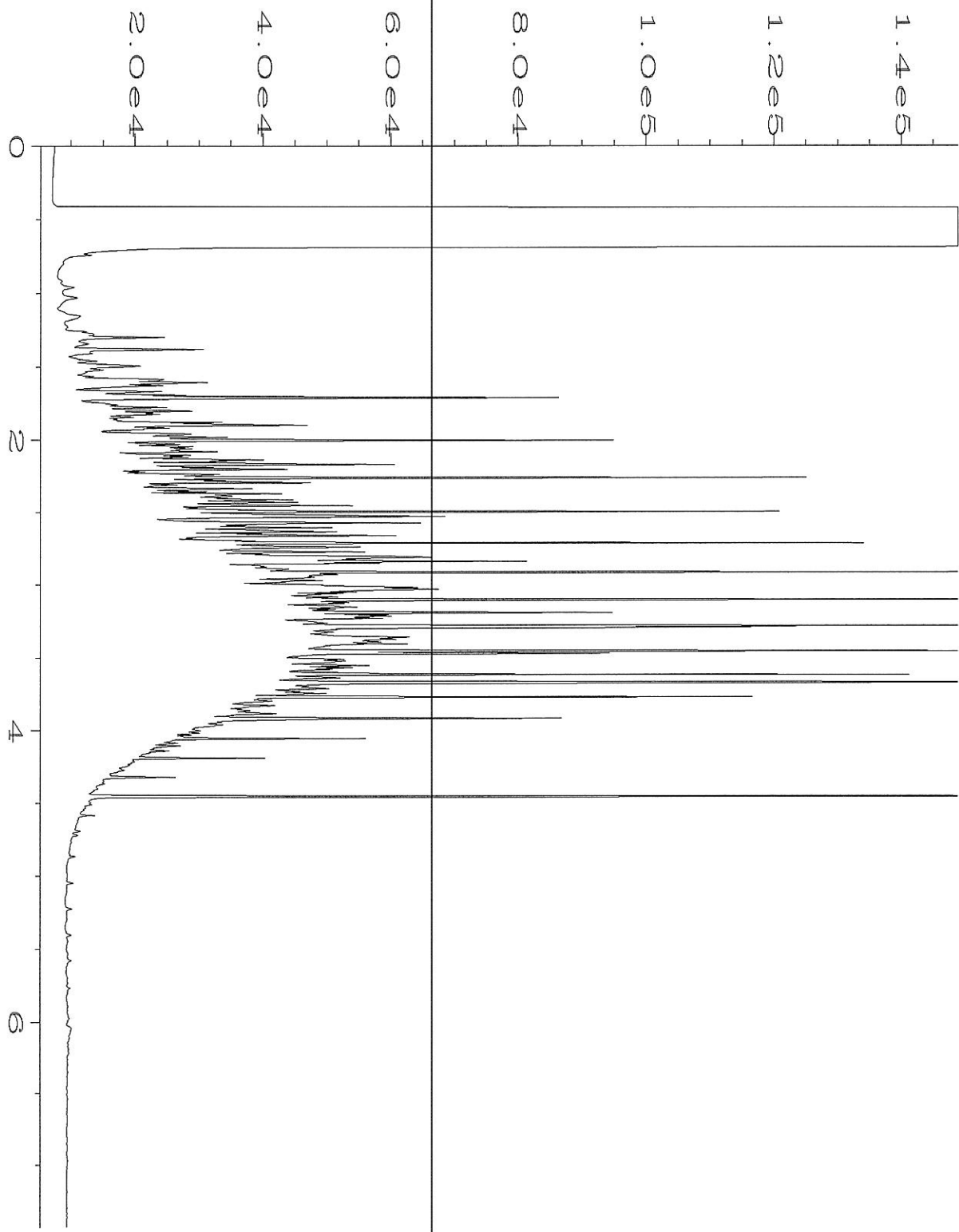
Data File Name	: C:\HPCHEM\1\DATA\10-04-22\036F0701.D	Page Number	: 1
Operator	: TL	Vial Number	: 36
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209531-05	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 22 05:32 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	05 Oct 22 09:42 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-04-22\037F0701.D	Page Number	: 1
Operator	: TL	Vial Number	: 37
Instrument	: GC1	Injection Number	: 1
Sample Name	: 209531-06	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 22 05:47 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	05 Oct 22 09:43 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-04-22\016F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 16
Instrument	: GC1	Injection Number	: 1
Sample Name	: 02-2399 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 22 11:46 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	05 Oct 22 09:43 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-04-22\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 66-186F	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 22 06:39 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	05 Oct 22 09:43 AM		

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.

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

October 10, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
350 Madison Ave. N.  
Bainbridge Island, WA 98110-1810

Dear Mr Griffin:

Included are the results from the testing of material submitted on October 3, 2022 from the Texaco Strickland 180357, F&BI 210015 project. There are 20 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1010R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 3, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 210015 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210015 -01	UST-100322
210015 -02	SW-N02-442
210015 -03	SW-N04-442
210015 -04	SW-N07-442

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/22  
Date Received: 10/03/22  
Project: Texaco Strickland 180357, F&BI 210015  
Date Extracted: 10/03/22  
Date Analyzed: 10/03/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 58-139)
UST-100322 210015-01 1/5	660	ip
SW-N02-442 210015-02	<5	91
SW-N04-442 210015-03	<5	90
SW-N07-442 210015-04 1/20	740	117
Method Blank 02-2335 MB	<5	105



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/22  
Date Received: 10/03/22  
Project: Texaco Strickland 180357, F&BI 210015  
Date Extracted: 10/03/22  
Date Analyzed: 10/04/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-D<sub>x</sub>**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
UST-100322 210015-01	3,800 x	18,000	111
SW-N02-442 210015-02	<50	<250	91
SW-N04-442 210015-03	<50	<250	90
SW-N07-442 210015-04	440	<250	86
Method Blank 02-2396 MB	<50	<250	114

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	UST-100322	Client:	Aspect Consulting, LLC
Date Received:	10/03/22	Project:	Texaco Strickland 180357
Date Extracted:	10/03/22	Lab ID:	210015-01
Date Analyzed:	10/03/22	Data File:	210015-01.130
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	1.35
Barium	43.4
Cadmium	<1
Chromium	12.1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	UST-100322	Client:	Aspect Consulting, LLC
Date Received:	10/03/22	Project:	Texaco Strickland 180357
Date Extracted:	10/03/22	Lab ID:	210015-01 x5
Date Analyzed:	10/04/22	Data File:	210015-01 x5.086
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
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Lead	137
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FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Total Metals By EPA Method 6020B

Client ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	NA	Project:	Texaco Strickland 180357
Date Extracted:	10/03/22	Lab ID:	I2-703 mb
Date Analyzed:	10/03/22	Data File:	I2-703 mb.123
Matrix:	Soil	Instrument:	ICPMS2
Units:	mg/kg (ppm) Dry Weight	Operator:	SP

Analyte:	Concentration mg/kg (ppm)
Arsenic	<1
Barium	<1
Cadmium	<1
Chromium	<1
Lead	<1
Mercury	<1
Selenium	<1
Silver	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	UST-100322	Client:	Aspect Consulting, LLC
Date Received:	10/03/22	Project:	Texaco Strickland 180357
Date Extracted:	10/04/22	Lab ID:	210015-01
Date Analyzed:	10/04/22	Data File:	100408.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	jeb

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	107	90	109
Toluene-d8	109	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	0.15
Toluene	5.2
Ethylbenzene	5.5
m,p-Xylene	29
o-Xylene	10
Naphthalene	11

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N02-442	Client:	Aspect Consulting, LLC
Date Received:	10/03/22	Project:	Texaco Strickland 180357
Date Extracted:	10/04/22	Lab ID:	210015-02
Date Analyzed:	10/04/22	Data File:	100412.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	jeb

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	104	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N04-442	Client:	Aspect Consulting, LLC
Date Received:	10/03/22	Project:	Texaco Strickland 180357
Date Extracted:	10/04/22	Lab ID:	210015-03
Date Analyzed:	10/04/22	Data File:	100413.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	jeb

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	104	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N07-442	Client:	Aspect Consulting, LLC
Date Received:	10/03/22	Project:	Texaco Strickland 180357
Date Extracted:	10/04/22	Lab ID:	210015-04
Date Analyzed:	10/04/22	Data File:	100414.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	jeb

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	120 ip	89	112
4-Bromofluorobenzene	115	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	1.2
Ethylbenzene	5.1
m,p-Xylene	27
o-Xylene	8.1
Naphthalene	6.4



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357
Date Extracted:	10/04/22	Lab ID:	02-2312 mb
Date Analyzed:	10/04/22	Data File:	100405.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	jeb

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	103	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	UST-100322	Client:	Aspect Consulting, LLC
Date Received:	10/03/22	Project:	Texaco Strickland 180357
Date Extracted:	10/03/22	Lab ID:	210015-01 1/6
Date Analyzed:	10/04/22	Data File:	100413.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	92	23	127

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.05
Aroclor 1232	<0.05
Aroclor 1016	<0.05
Aroclor 1242	<0.05
Aroclor 1248	<0.05
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357
Date Extracted:	10/03/22	Lab ID:	02-2393 mb2
Date Analyzed:	10/04/22	Data File:	100412.D
Matrix:	Soil	Instrument:	GC7
Units:	mg/kg (ppm) Dry Weight	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	130	23	127

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.004
Aroclor 1232	<0.004
Aroclor 1016	<0.004
Aroclor 1242	<0.004
Aroclor 1248	<0.004
Aroclor 1254	<0.004
Aroclor 1260	<0.004
Aroclor 1262	<0.004
Aroclor 1268	<0.004

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/22

Date Received: 10/03/22

Project: Texaco Strickland 180357, F&BI 210015

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

Laboratory Code: 209490-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	95	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/22

Date Received: 10/03/22

Project: Texaco Strickland 180357, F&BI 210015

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

Laboratory Code: 210009-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	150	92	93	63-146	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	92	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/22

Date Received: 10/03/22

Project: Texaco Strickland 180357, F&BI 210015

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

Laboratory Code: 209519-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Arsenic	mg/kg (ppm)	10	1.71	98	94	75-125	4
Barium	mg/kg (ppm)	50	24.7	110	104	75-125	6
Cadmium	mg/kg (ppm)	10	<1	99	97	75-125	2
Chromium	mg/kg (ppm)	50	12.0	95	98	75-125	3
Lead	mg/kg (ppm)	50	1.32	94	92	75-125	2
Mercury	mg/kg (ppm)	5	<1	98	98	75-125	0
Selenium	mg/kg (ppm)	5	<1	93	93	75-125	0
Silver	mg/kg (ppm)	10	<1	96	92	75-125	4

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Arsenic	mg/kg (ppm)	10	101	80-120
Barium	mg/kg (ppm)	50	102	80-120
Cadmium	mg/kg (ppm)	10	101	80-120
Chromium	mg/kg (ppm)	50	105	80-120
Lead	mg/kg (ppm)	50	104	80-120
Mercury	mg/kg (ppm)	5	106	80-120
Selenium	mg/kg (ppm)	5	99	80-120
Silver	mg/kg (ppm)	10	103	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/22

Date Received: 10/03/22

Project: Texaco Strickland 180357, F&BI 210015

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

Laboratory Code: 210015-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	0.13	68	76	29-129	11
Toluene	mg/kg (ppm)	1	4.4	0 ip	0 ip	35-130	nm
Ethylbenzene	mg/kg (ppm)	1	4.7	0 ip	0 ip	32-137	nm
m,p-Xylene	mg/kg (ppm)	2	25	0 ip	0 ip	34-136	nm
o-Xylene	mg/kg (ppm)	1	8.9	0 ip	0 ip	33-134	nm
Naphthalene	mg/kg (ppm)	1	9.4	0 ip	0 ip	14-157	nm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/22

Date Received: 10/03/22

Project: Texaco Strickland 180357, F&BI 210015

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	117	71-118
Toluene	mg/kg (ppm)	1	111	66-126
Ethylbenzene	mg/kg (ppm)	1	111	64-123
m,p-Xylene	mg/kg (ppm)	2	111	78-122
o-Xylene	mg/kg (ppm)	1	112	77-124
Naphthalene	mg/kg (ppm)	1	112	63-140



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/10/22

Date Received: 10/03/22

Project: Texaco Strickland 180357, F&BI 210015

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

Laboratory Code: 209526-01 1/6 (Matrix Spike) 1/6

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	86	79	44-107	8
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	99	94	38-124	5

Laboratory Code: Laboratory Control Sample 1/6

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	104	47-158
Aroclor 1260	mg/kg (ppm)	0.25	101	69-147

# 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.

210015

SAMPLE CHAIN OF CUSTODY

10/03/22

BI11/VS-A2

Page # 1 of 1

Report To Adam Koffin + David Schook

Company Aspect Consulting

Address \_\_\_\_\_  
City, State, ZIP \_\_\_\_\_

Phone 313-617-0499 Email akoffin@aspectconsulting.com

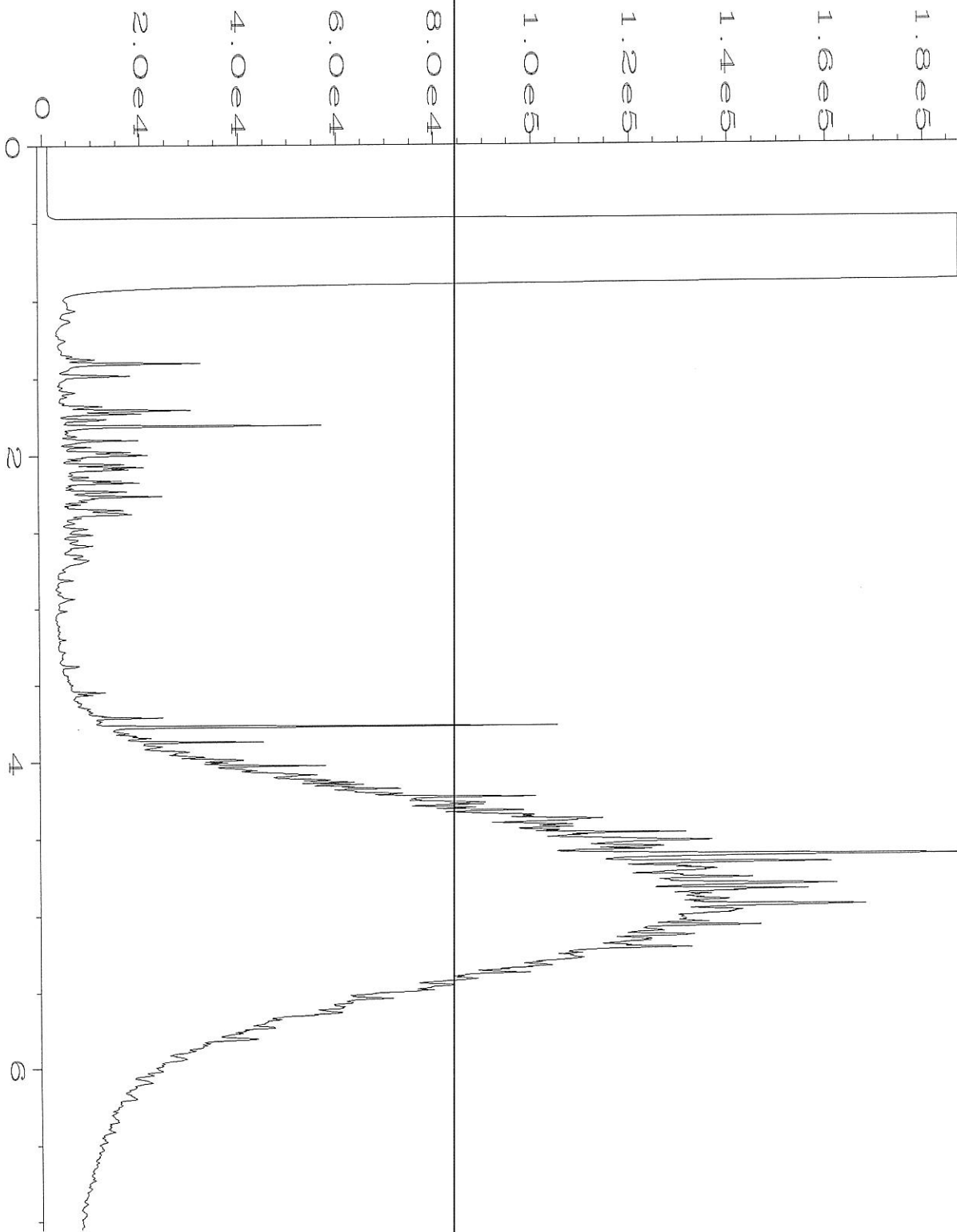
SAMPLERS (signature)	PROJECT NAME	PO #
<i>[Signature]</i>	Texaco Strickland	180357
REMARKS	INVOICE TO	
Project specific RIs? - Yes / No		

TURNAROUND TIME	SAMPLE DISPOSAL
<input type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH See below Rush charges authorized by: <i>David Schook</i>	<input type="checkbox"/> Archive samples <input type="checkbox"/> Other _____ Default: Dispose after 30 days

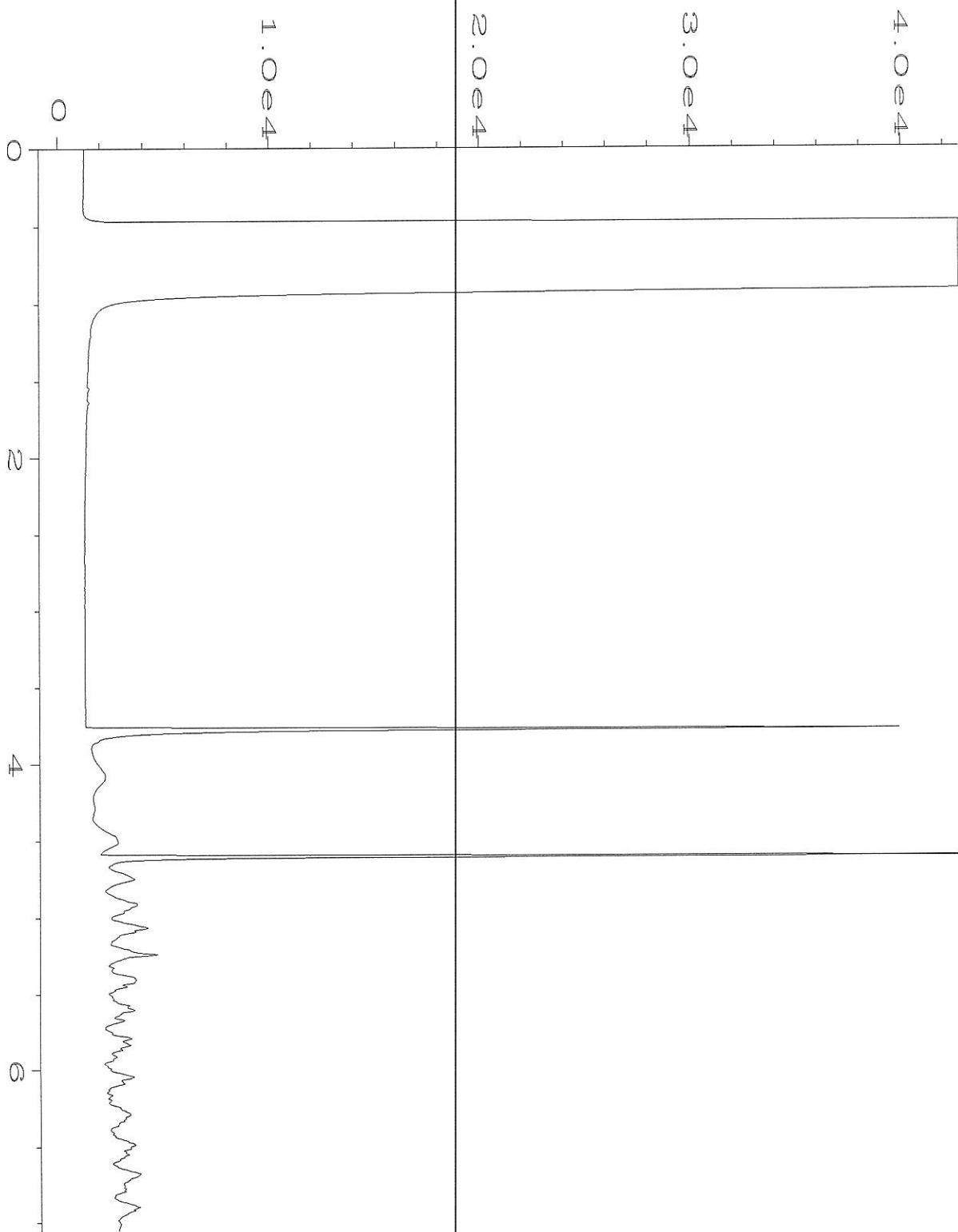
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	BTEXN 8260	RUZA-8 Metals		
UST-100322	01A-E	10/3/22	0855	511	5	X	X						X	X	24-hr TAT	
SW-N02-442	02		1205			X	X						X	X	Standard TAT	
SW-N04-442	03		1210			X	X						X	X		
SW-N07-442	04		1215			X	X						X	X		

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<i>[Signature]</i>	David Schook	Aspect	10/3/22	1348
Received by: <i>[Signature]</i>	ANH PHAN	ESB	10/03/22	13:48
Relinquished by:				
Received by:		Samples received at	DOC	

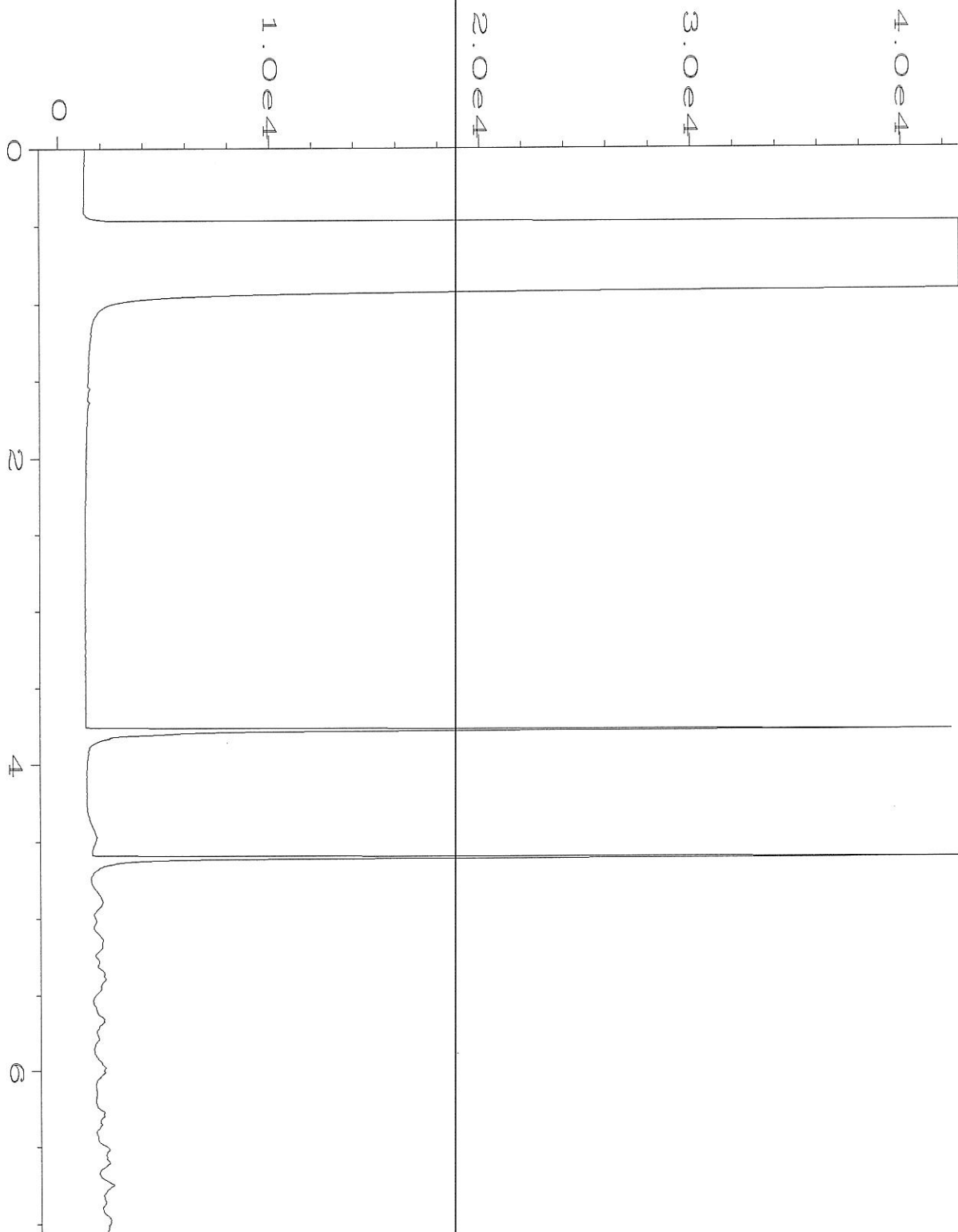
Friedman & Bruya, Inc.  
Ph. (206) 285-8282



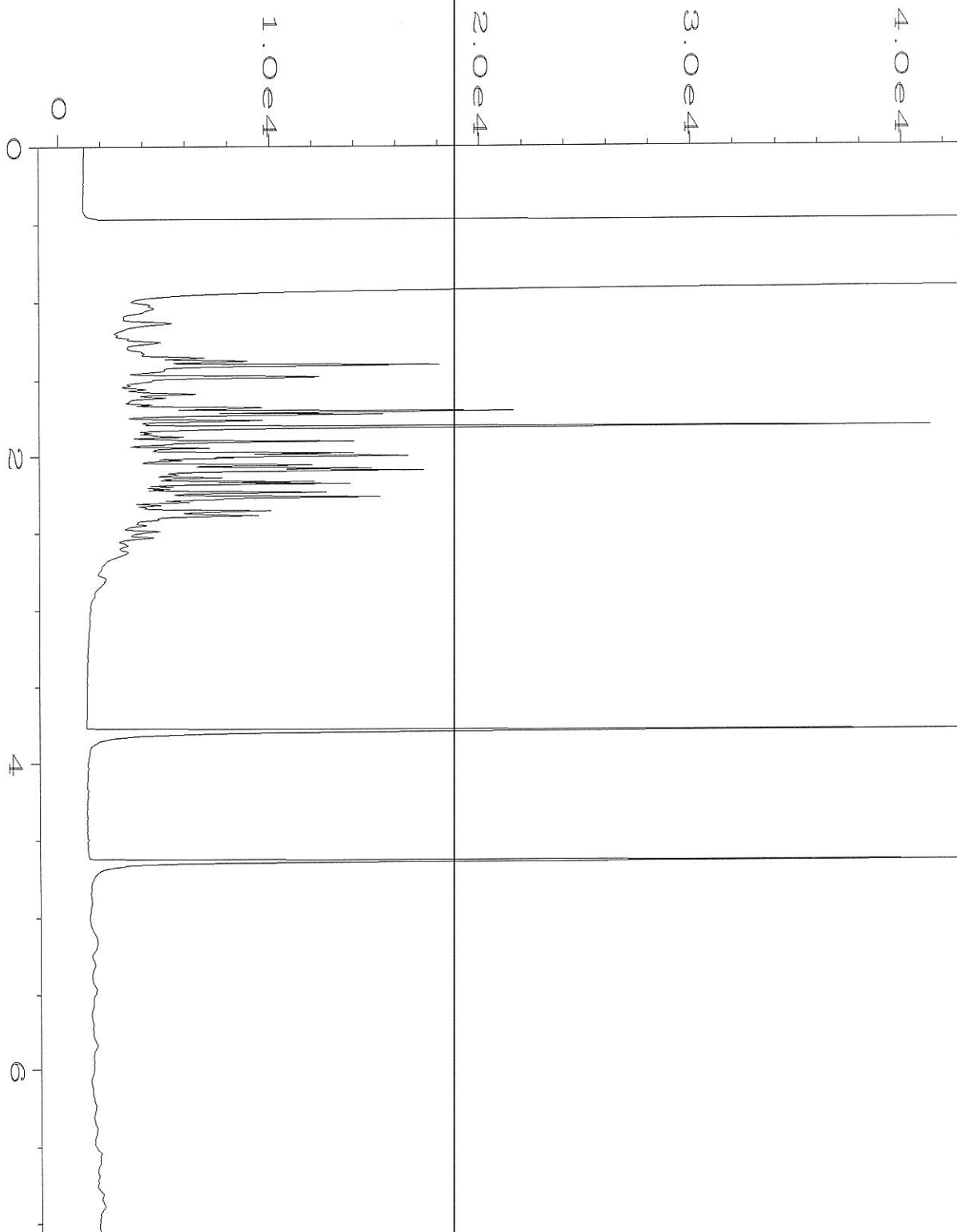
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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210015-01	Sequence Line	: 3
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Acquired on	: 04 Oct 22 09:34 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 01:24 PM		



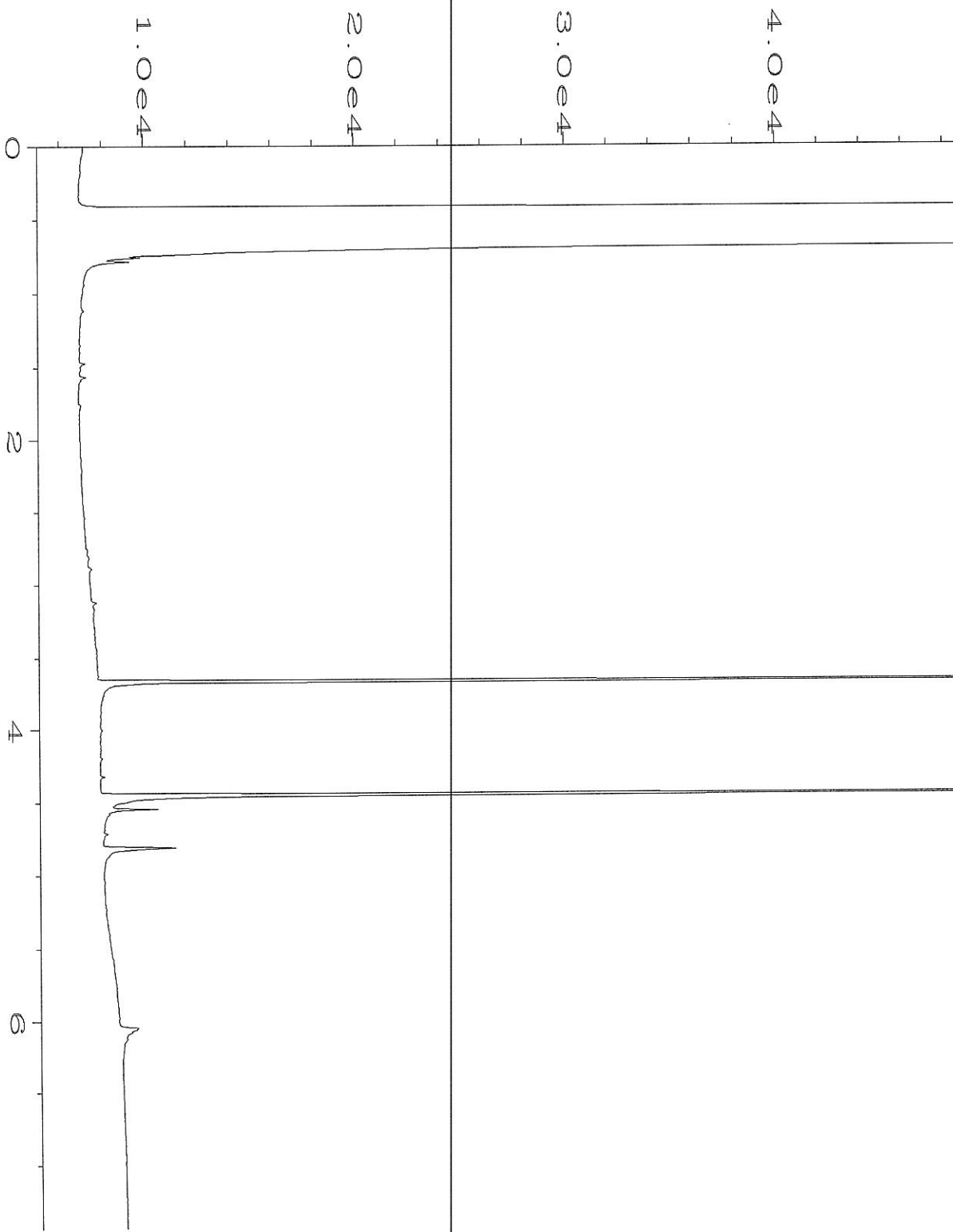
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Operator	: TL	Vial Number	: 14
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210015-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 22 09:46 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 01:24 PM		



Data File Name	: C:\HPCHEM\4\DATA\10-04-22\015F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 15
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210015-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 22 09:57 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 01:24 PM		

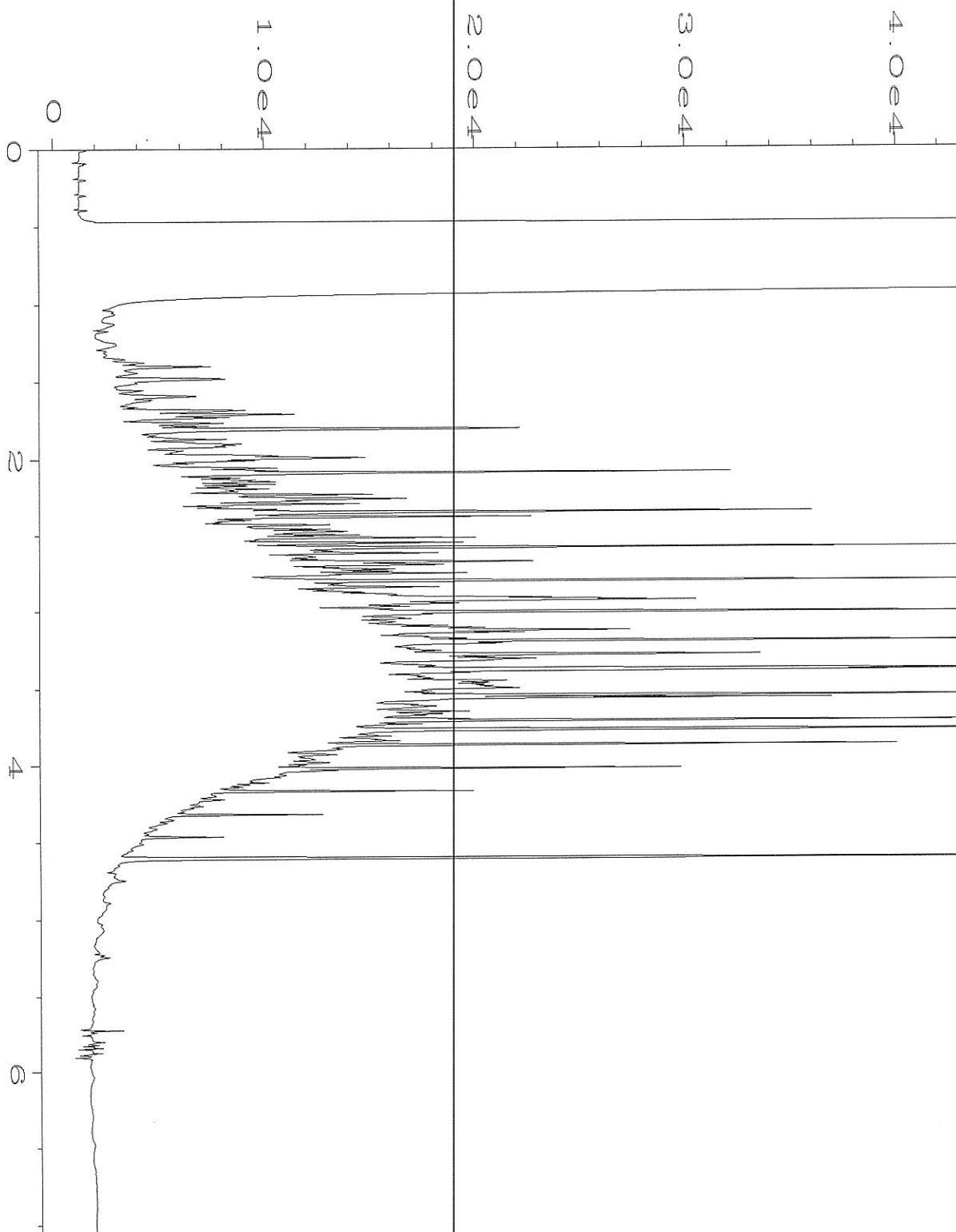


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Operator	: TL	Vial Number	: 16
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210015-04	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 22 10:09 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 01:24 PM		



Data File Name	: C:\HPCHEM\1\DATA\10-03-22\055F0801.D	Page Number	: 1
Operator	: TL	Vial Number	: 55
Instrument	: GC1	Injection Number	: 1
Sample Name	: 02-2396 mb	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 03 Oct 22 03:31 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 01:21 PM		





Data File Name	: C:\HPCHEM\4\DATA\10-04-22\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 66-186F	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 04 Oct 22 06:30 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	04 Oct 22 01:28 PM		

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.

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

October 13, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
350 Madison Ave. N.  
Bainbridge Island, WA 98110-1810

Dear Mr Griffin:

Included are the results from the testing of material submitted on October 7, 2022 from the Texaco Strickland 180357, F&BI 210102 project. There are 15 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1013R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 7, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 210102 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210102 -01	SW-W03-434
210102 -02	SW-W99-434
210102 -03	SW-W05-434
210102 -04	SW-W09-434
210102 -05	SW-W11-434
210102 -06	SW-W14-434
210102 -07	SW-W16-434

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/22  
Date Received: 10/07/22  
Project: Texaco Strickland 180357, F&BI 210102  
Date Extracted: 10/11/22  
Date Analyzed: 10/11/22

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

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
SW-W03-434 210102-01	<5	105
SW-W99-434 210102-02	<5	107
SW-W05-434 210102-03	<5	104
SW-W09-434 210102-04	<5	103
SW-W11-434 210102-05	<5	96
SW-W14-434 210102-06	<5	104
SW-W16-434 210102-07	<5	100
Method Blank 02-2352 MB	<5	99

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/22  
Date Received: 10/07/22  
Project: Texaco Strickland 180357, F&BI 210102  
Date Extracted: 10/10/22  
Date Analyzed: 10/10/22

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

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 56-165)
SW-W03-434 210102-01	<50	<250	123
SW-W99-434 210102-02	<50	<250	128
SW-W05-434 210102-03	<50	<250	112
SW-W09-434 210102-04	<50	<250	129
SW-W11-434 210102-05	<50	<250	120
SW-W14-434 210102-06	<50	<250	127
SW-W16-434 210102-07	<50	<250	126
Method Blank 02-2445 MB	<50	<250	122

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W03-434	Client:	Aspect Consulting, LLC
Date Received:	10/07/22	Project:	Texaco Strickland 180357
Date Extracted:	10/10/22	Lab ID:	210102-01
Date Analyzed:	10/10/22	Data File:	101018.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W99-434	Client:	Aspect Consulting, LLC
Date Received:	10/07/22	Project:	Texaco Strickland 180357
Date Extracted:	10/10/22	Lab ID:	210102-02
Date Analyzed:	10/10/22	Data File:	101019.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W05-434	Client:	Aspect Consulting, LLC
Date Received:	10/07/22	Project:	Texaco Strickland 180357
Date Extracted:	10/10/22	Lab ID:	210102-03
Date Analyzed:	10/10/22	Data File:	101020.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	0.074
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W09-434	Client:	Aspect Consulting, LLC
Date Received:	10/07/22	Project:	Texaco Strickland 180357
Date Extracted:	10/10/22	Lab ID:	210102-04
Date Analyzed:	10/10/22	Data File:	101021.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	95	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	0.11
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W11-434	Client:	Aspect Consulting, LLC
Date Received:	10/07/22	Project:	Texaco Strickland 180357
Date Extracted:	10/10/22	Lab ID:	210102-05
Date Analyzed:	10/10/22	Data File:	101022.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	0.12
Toluene	<0.05
Ethylbenzene	0.096
m,p-Xylene	0.26
o-Xylene	0.075
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W14-434	Client:	Aspect Consulting, LLC
Date Received:	10/07/22	Project:	Texaco Strickland 180357
Date Extracted:	10/10/22	Lab ID:	210102-06
Date Analyzed:	10/10/22	Data File:	101023.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	96	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W16-434	Client:	Aspect Consulting, LLC
Date Received:	10/07/22	Project:	Texaco Strickland 180357
Date Extracted:	10/10/22	Lab ID:	210102-07
Date Analyzed:	10/10/22	Data File:	101024.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357
Date Extracted:	10/10/22	Lab ID:	02-2325 mb
Date Analyzed:	10/10/22	Data File:	101005.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	jm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	94	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/22

Date Received: 10/07/22

Project: Texaco Strickland 180357, F&BI 210102

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

Laboratory Code: 210106-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	105	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/22

Date Received: 10/07/22

Project: Texaco Strickland 180357, F&BI 210102

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL 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	mg/kg (ppm)	5,000	113	106	79-144	6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/13/22

Date Received: 10/07/22

Project: Texaco Strickland 180357, F&BI 210102

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

Laboratory Code: 210102-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	<0.03	73	74	29-129	1
Toluene	mg/kg (ppm)	1	<0.05	80	82	35-130	2
Ethylbenzene	mg/kg (ppm)	1	<0.05	82	84	32-137	2
m,p-Xylene	mg/kg (ppm)	2	<0.1	82	83	34-136	1
o-Xylene	mg/kg (ppm)	1	<0.05	83	82	33-134	1
Naphthalene	mg/kg (ppm)	1	<0.05	83	87	14-157	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	90	71-118
Toluene	mg/kg (ppm)	1	98	66-126
Ethylbenzene	mg/kg (ppm)	1	100	64-123
m,p-Xylene	mg/kg (ppm)	2	98	78-122
o-Xylene	mg/kg (ppm)	1	99	77-124
Naphthalene	mg/kg (ppm)	1	98	63-140



# 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.

**SAMPLE CHAIN OF CUSTODY**

10/7/22 US74/802

Page # 1 of 1

210102

Report To: Adam Brubaker + David Ehrlich

Company: Apex Consulting

Address:

City, State, ZIP:

Phone: 661-7-0199 Email: alex@apexconsulting.com

SAMPLERS (signature)		PROJECT NAME	PO #
		Texco Station	180357
REMARKS		INVOICE TO	

Project specific RLS? - Yes / No

ANALYSES REQUESTED

TURNAROUND TIME

Standard turnaround

RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples

Other

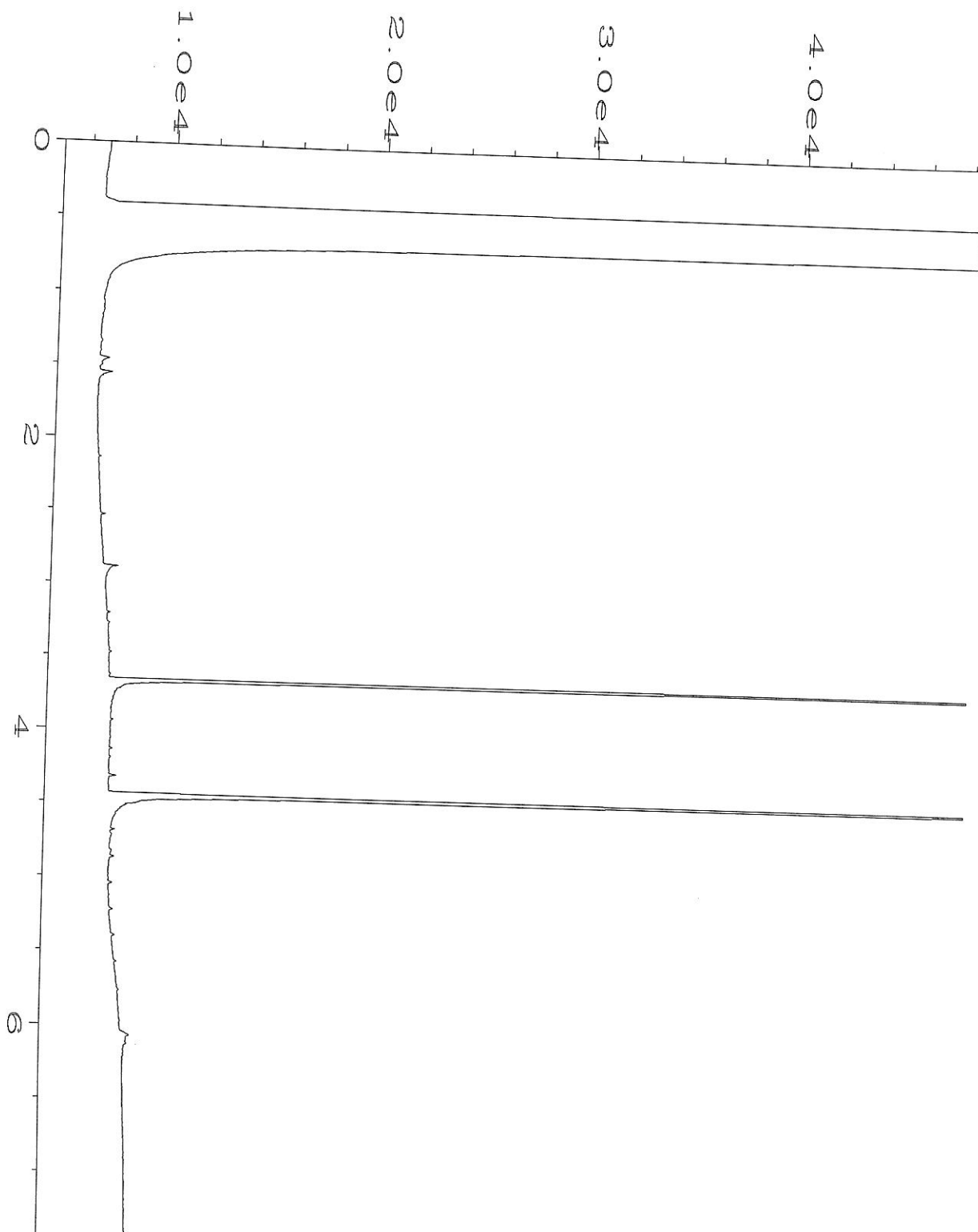
Default: Dispose after 30 days

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	BTEX by 8260	Notes
SW-103-434	01AE	10/7/22	1005	S1	5	X	X						X	
SW-109-434	02		1015											
SW-105-434	03		1030											
SW-109-434	04		1220											
SW-111-434	05		1300											
SW-114-434	06		1335											
SW-116-434	07		1405											

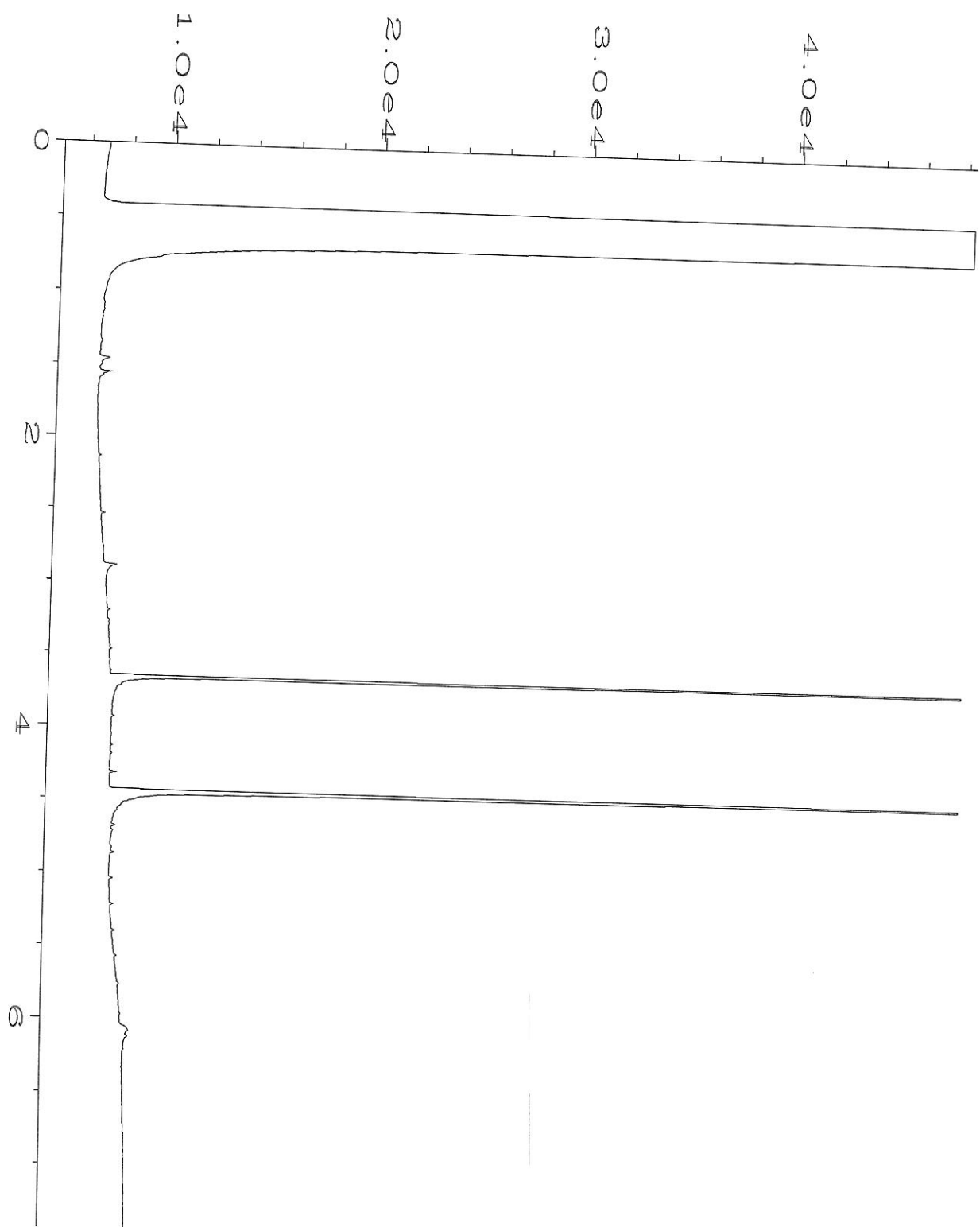
Samples received at: 4 OG

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: [Signature]		David Ehrlich		Apex		10/7/22	1630
Received by: [Signature]		HONG WUYEK		FBI		10/7/22	16:30
Relinquished by:							
Received by:							

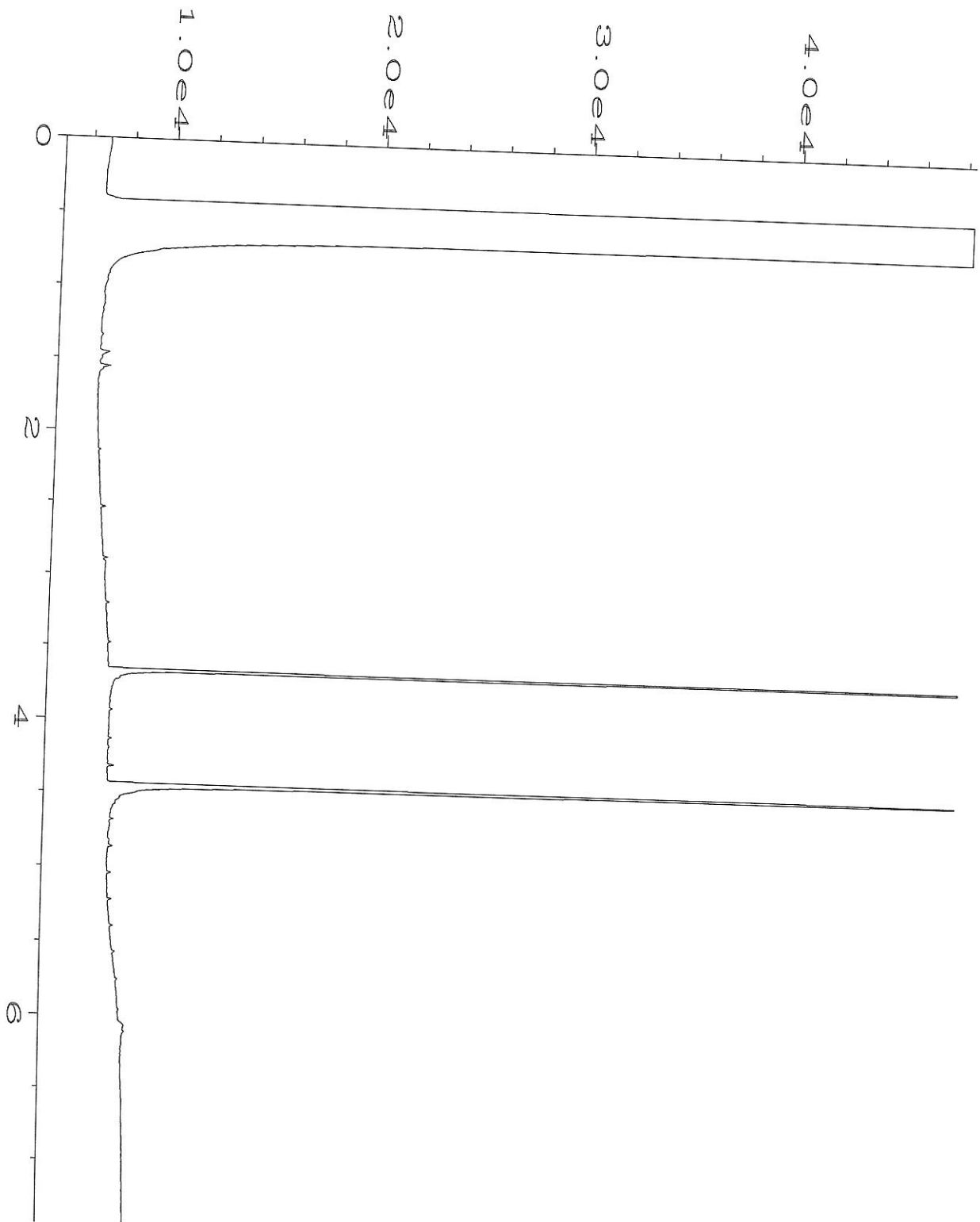
Friedman & Bruya, Inc.  
Ph. (206) 285-8282



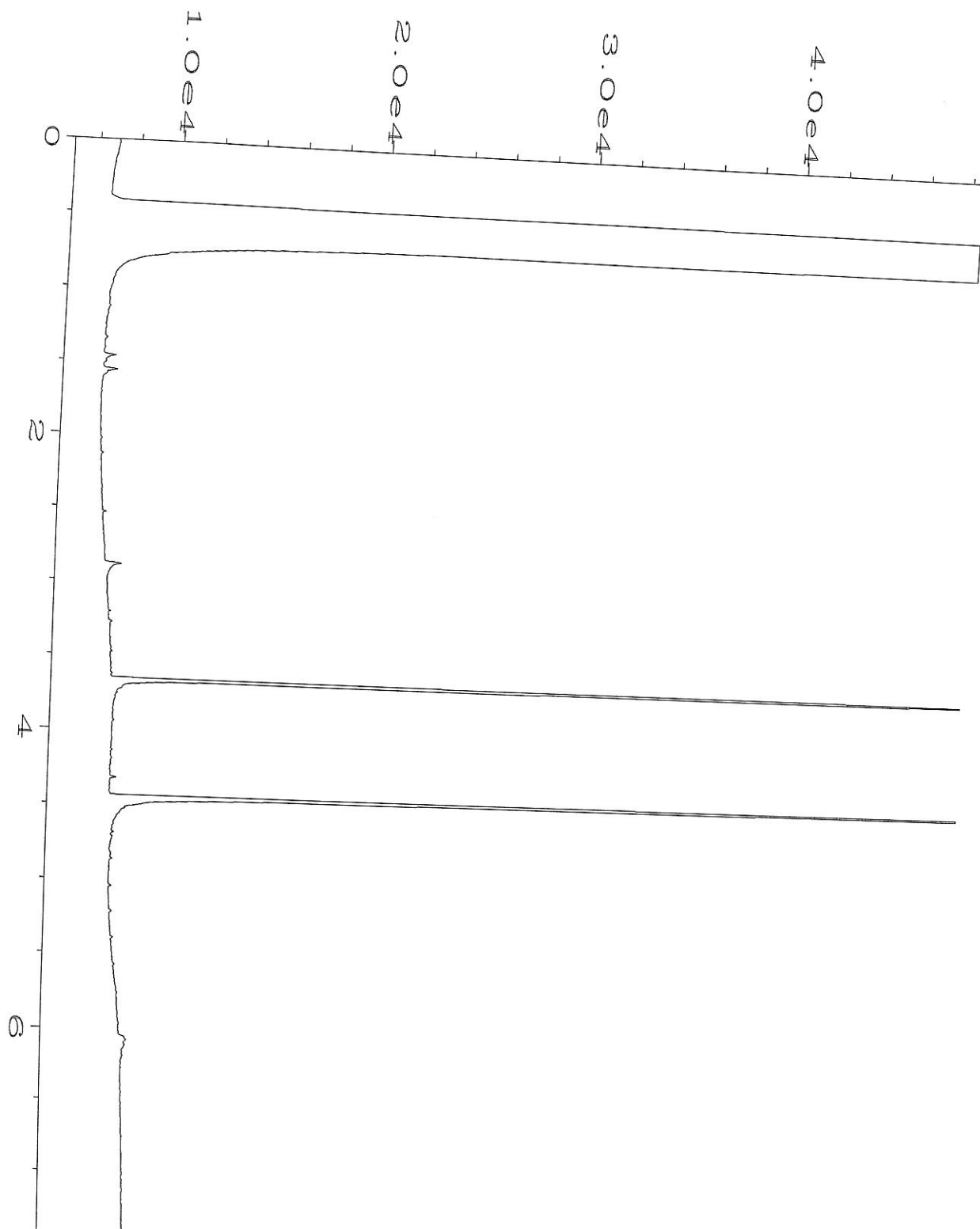
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Operator	: TL	Vial Number	: 26
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210102-01	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Oct 22 03:07 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	11 Oct 22 10:38 AM		



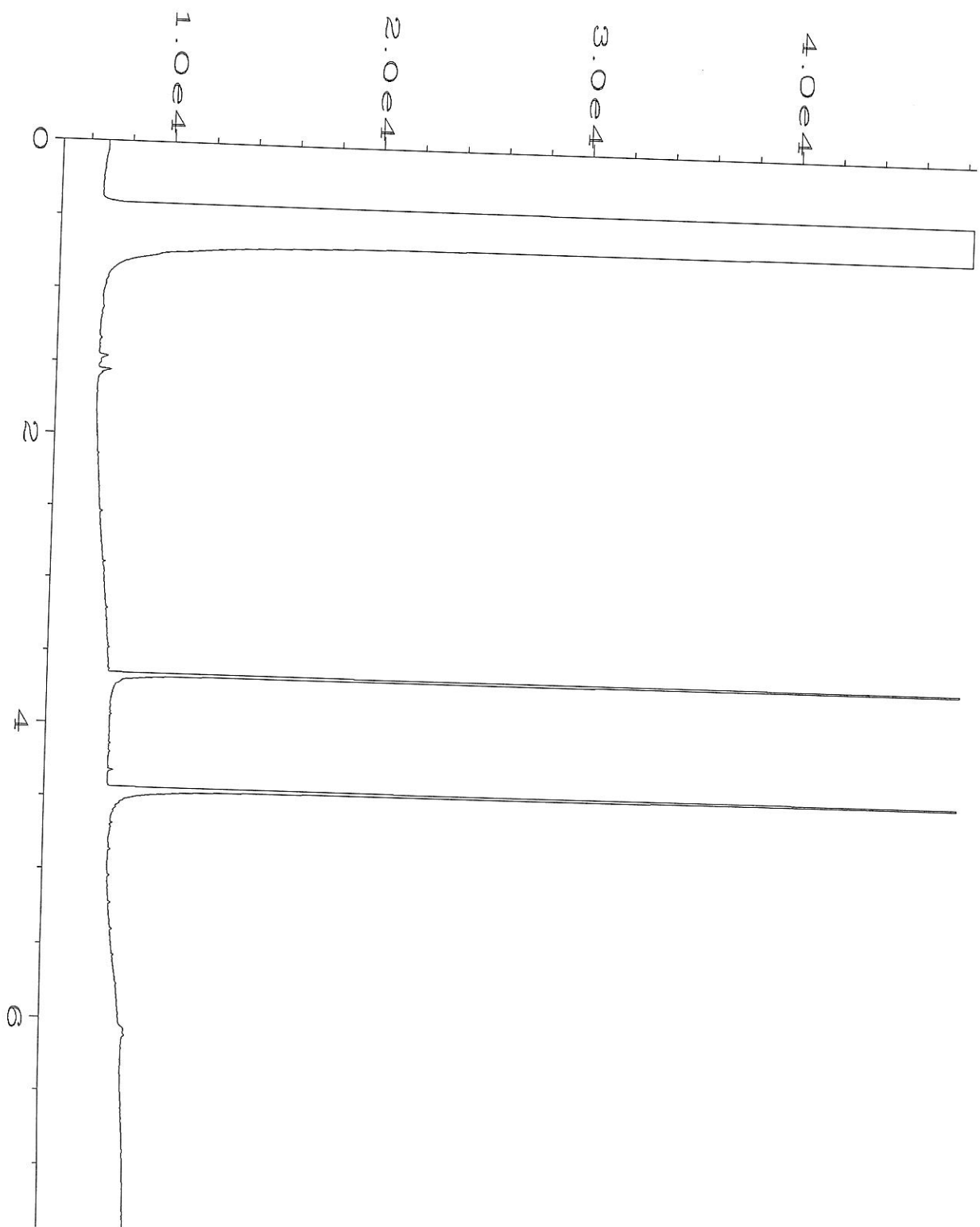
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Operator	: TL	Vial Number	: 27
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210102-02	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Oct 22 03:22 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	11 Oct 22 10:39 AM		



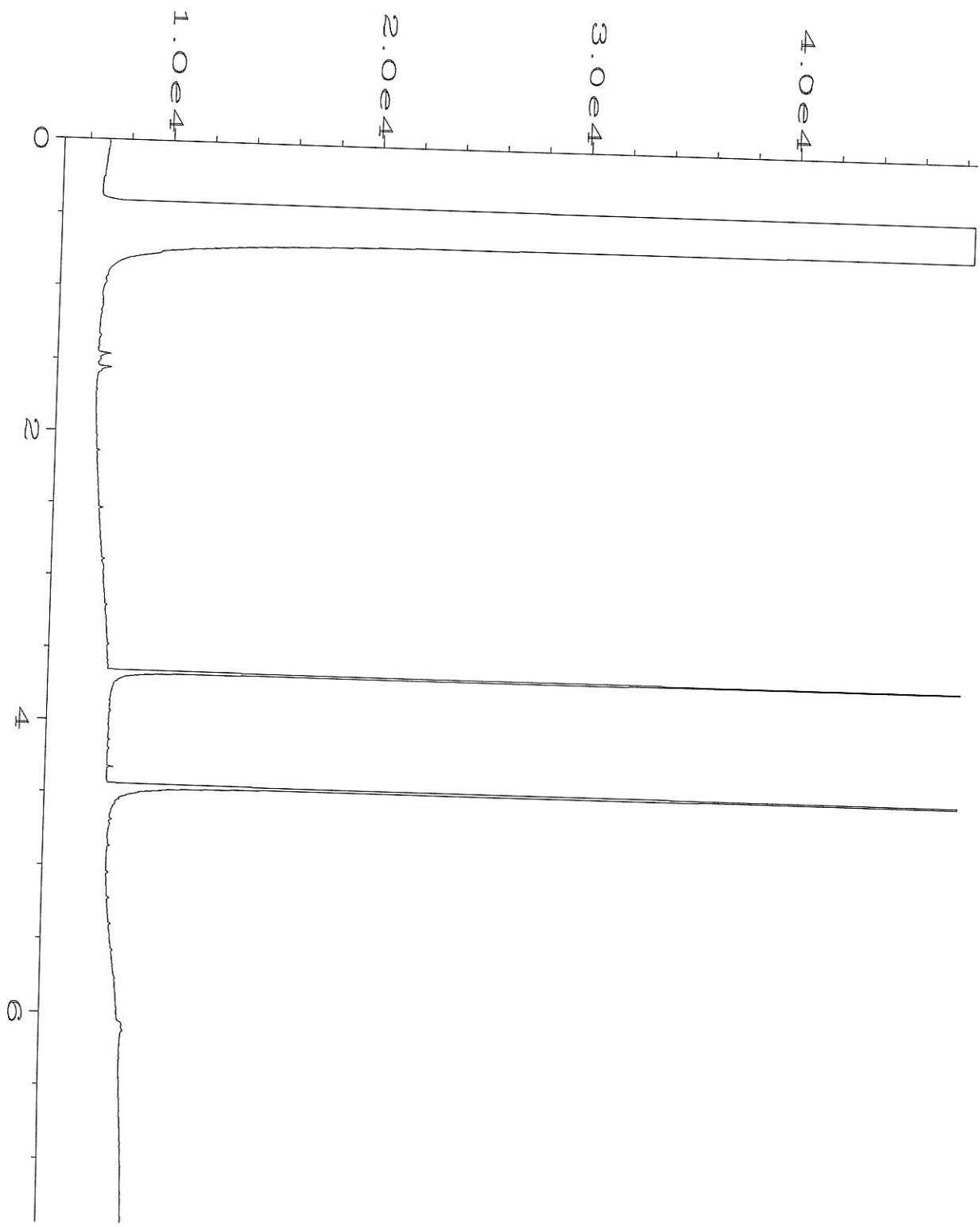
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Operator	: TL	Vial Number	: 28
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210102-03	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Oct 22 03:37 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	11 Oct 22 10:39 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-10-22\029F0901.D	Page Number	: 1
Operator	: TL	Vial Number	: 29
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210102-04	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Oct 22 03:52 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	11 Oct 22 10:39 AM		

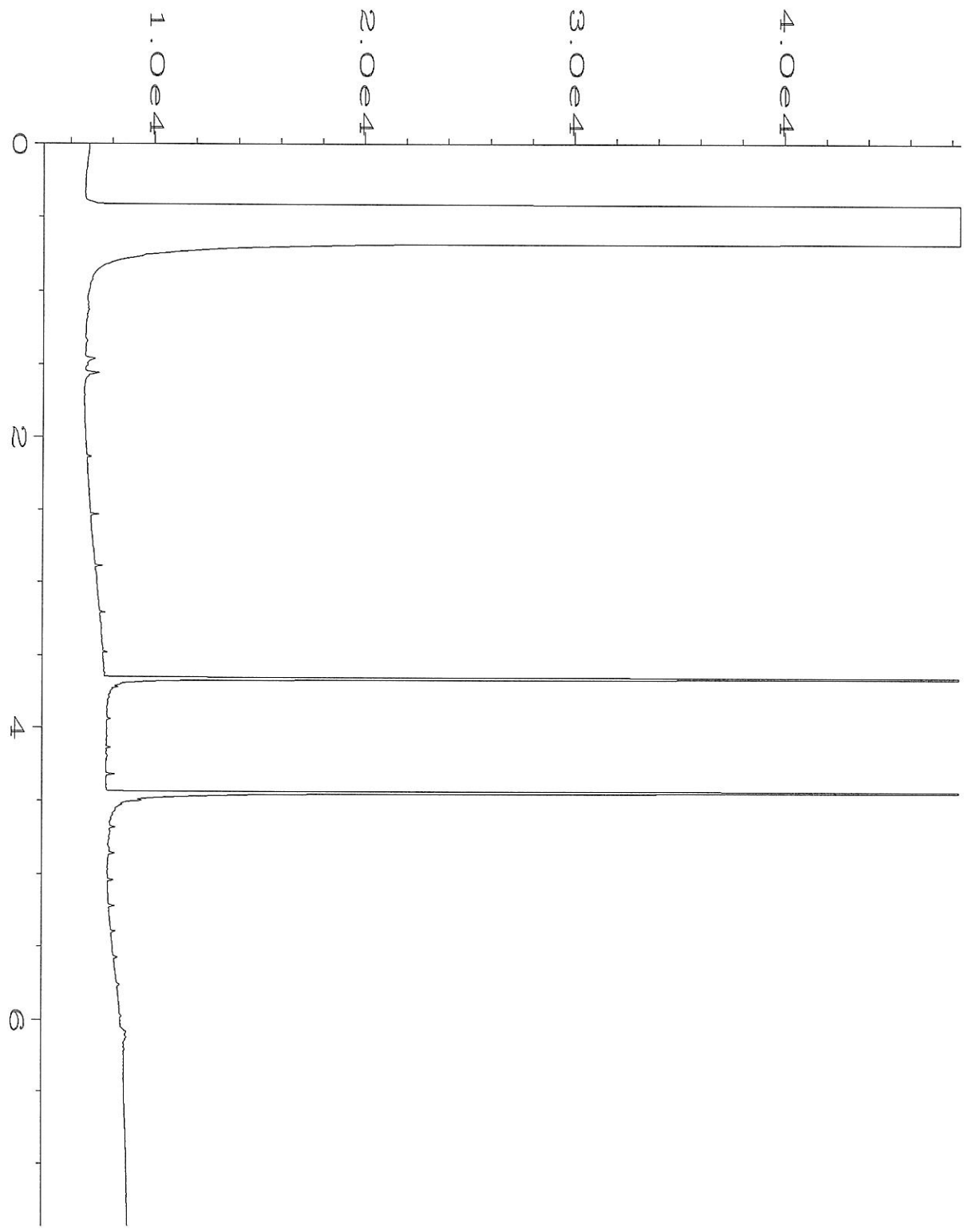


Data File Name	: C:\HPCHEM\1\DATA\10-10-22\030F0901.D	Page Number	: 1
Operator	: TL	Vial Number	: 30
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210102-05	Sequence Line	: 9
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 10 Oct 22 04:06 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	11 Oct 22 10:39 AM		

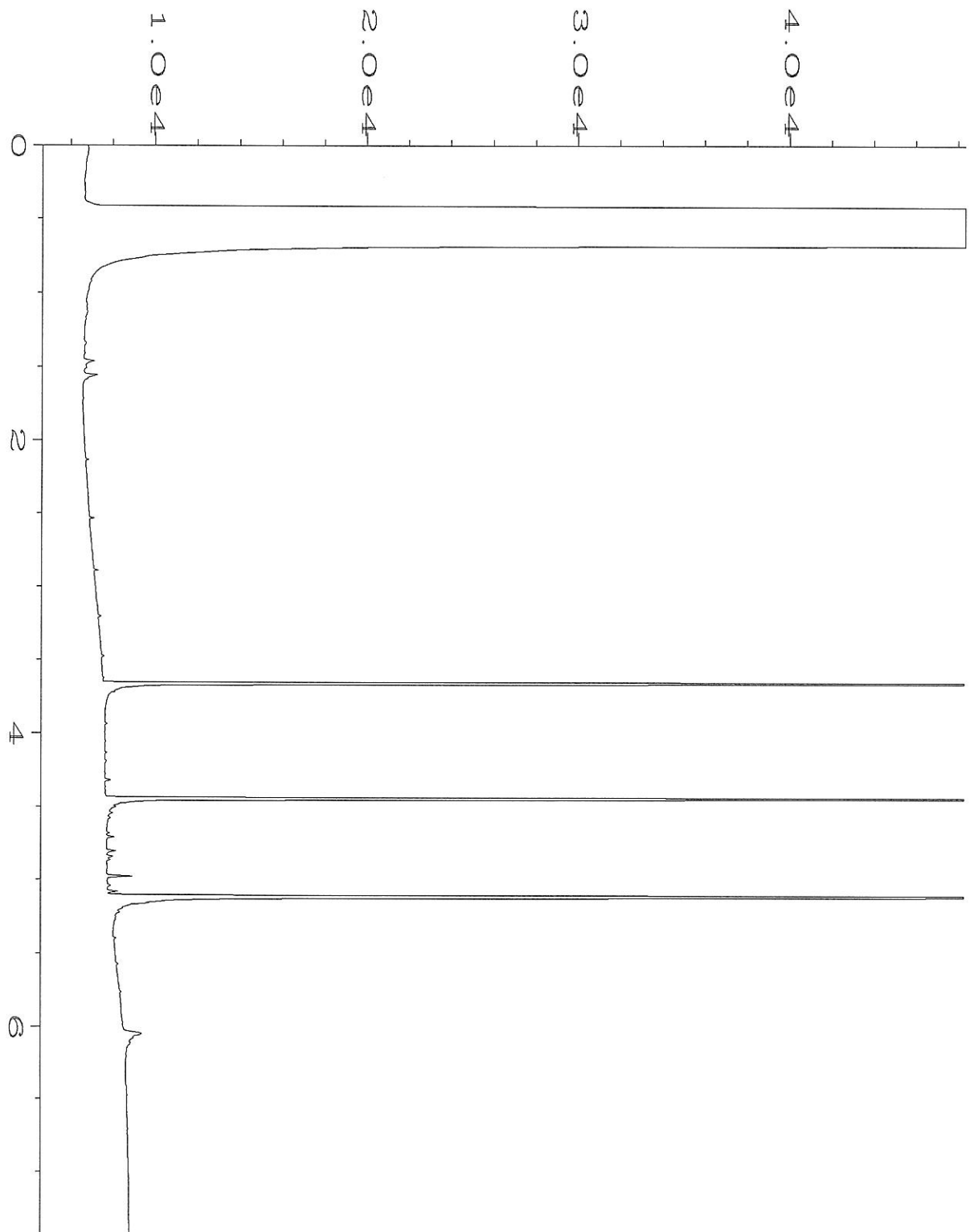


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Instrument	: GC1	Injection Number	: 1
Sample Name	: 210102-06	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Oct 22 04:21 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	11 Oct 22 10:39 AM		

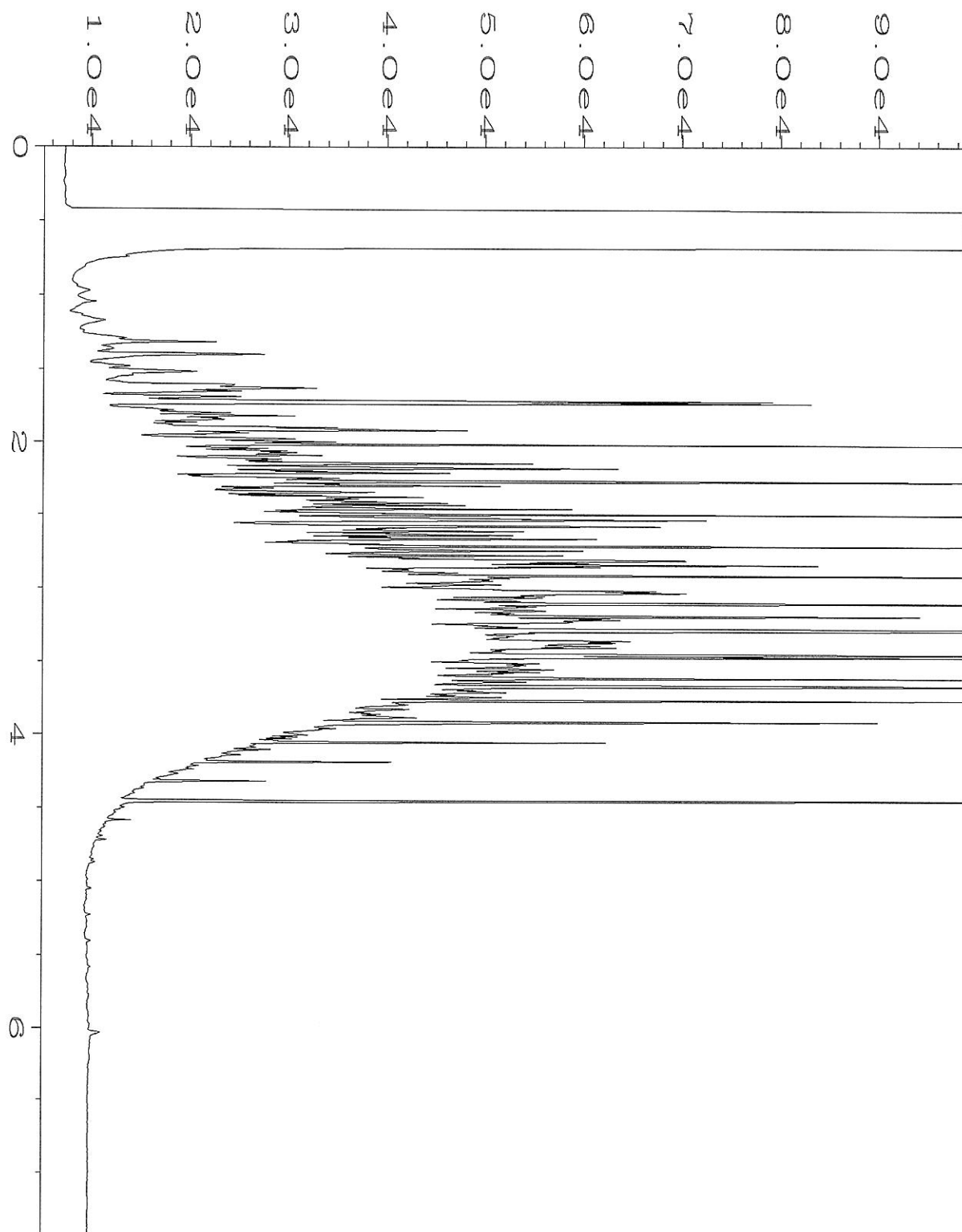




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Operator	: TL	Vial Number	: 32
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210102-07	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Oct 22 04:36 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	11 Oct 22 10:40 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-10-22\018F0701.D	Page Number	: 1
Operator	: TL	Vial Number	: 18
Instrument	: GC1	Injection Number	: 1
Sample Name	: 02-2445 mb	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Oct 22 12:34 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	11 Oct 22 10:40 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-10-22\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 66-186F	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 10 Oct 22 06:06 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	11 Oct 22 10:41 AM		

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.

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

October 18, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
350 Madison Ave. N.  
Bainbridge Island, WA 98110-1810

Dear Mr Griffin:

Included are the results from the testing of material submitted on October 11, 2022 from the Texaco Strickland 180357, F&BI 210145 project. There are 18 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1018R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 11, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 210145 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210145 -01	Grab-101122
210145 -02	SW-S01-446
210145 -03	SW-S03-446
210145 -04	SW-S06-446

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/18/22  
Date Received: 10/11/22  
Project: Texaco Strickland 180357, F&BI 210145  
Date Extracted: 10/12/22  
Date Analyzed: 10/12/22

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

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
SW-S01-446 210145-02	<5	107
SW-S03-446 210145-03	<5	108
SW-S06-446 210145-04	<5	105
Method Blank 02-2356 MB	<5	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/18/22  
Date Received: 10/11/22  
Project: Texaco Strickland 180357, F&BI 210145  
Date Extracted: 10/14/22  
Date Analyzed: 10/14/22

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

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
Grab-101122 210145-01 1/10	6,500	96
Method Blank 02-2504 MB	<100	90

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/18/22  
Date Received: 10/11/22  
Project: Texaco Strickland 180357, F&BI 210145  
Date Extracted: 10/12/22  
Date Analyzed: 10/12/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-D<sub>x</sub>**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
SW-S01-446 210145-02	<50	<250	113
SW-S03-446 210145-03	<50	<250	109
SW-S06-446 210145-04	<50	<250	98
Method Blank 02-2466 MB2	<50	<250	65



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/18/22  
Date Received: 10/11/22  
Project: Texaco Strickland 180357, F&BI 210145  
Date Extracted: 10/13/22  
Date Analyzed: 10/13/22

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-D<sub>x</sub>**  
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> <u>(% Recovery)</u> (Limit 41-152)
Grab-101122 210145-01	1,000 x	12,000	103
Method Blank 02-2521 MB	<50	<250	100

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-S01-446	Client:	Aspect Consulting, LLC
Date Received:	10/11/22	Project:	Texaco Strickland 180357, F&BI 210145
Date Extracted:	10/12/22	Lab ID:	210145-02
Date Analyzed:	10/12/22	Data File:	101224.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	90	109
Toluene-d8	95	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-S03-446	Client:	Aspect Consulting, LLC
Date Received:	10/11/22	Project:	Texaco Strickland 180357, F&BI 210145
Date Extracted:	10/12/22	Lab ID:	210145-03
Date Analyzed:	10/12/22	Data File:	101225.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-S06-446	Client:	Aspect Consulting, LLC
Date Received:	10/11/22	Project:	Texaco Strickland 180357, F&BI 210145
Date Extracted:	10/12/22	Lab ID:	210145-04
Date Analyzed:	10/12/22	Data File:	101226.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357, F&BI 210145
Date Extracted:	10/12/22	Lab ID:	02-2330 mb
Date Analyzed:	10/12/22	Data File:	101205.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	90	109
Toluene-d8	94	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Grab-101122	Client:	Aspect Consulting, LLC
Date Received:	10/11/22	Project:	Texaco Strickland 180357, F&BI 210145
Date Extracted:	10/12/22	Lab ID:	210145-01 1/20
Date Analyzed:	10/13/22	Data File:	101312.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	78	126
Toluene-d8	97	84	115
4-Bromofluorobenzene	96	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	1,200
Toluene	37
Ethylbenzene	73
m,p-Xylene	84
o-Xylene	22
Naphthalene	24

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357, F&BI 210145
Date Extracted:	10/12/22	Lab ID:	02-2329 mb
Date Analyzed:	10/12/22	Data File:	101207.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	94	84	115
4-Bromofluorobenzene	96	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/18/22

Date Received: 10/11/22

Project: Texaco Strickland 180357, F&BI 210145

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	mg/kg (ppm)	20	100	105	61-153	5



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/18/22

Date Received: 10/11/22

Project: Texaco Strickland 180357, F&BI 210145

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

Laboratory Code: 210080-07 (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	105	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/18/22

Date Received: 10/11/22

Project: Texaco Strickland 180357, F&BI 210145

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

Laboratory Code: 210132-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	82	86	73-135	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	82	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/18/22

Date Received: 10/11/22

Project: Texaco Strickland 180357, F&BI 210145

**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	64	68	63-142	6

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/18/22

Date Received: 10/11/22

Project: Texaco Strickland 180357, F&BI 210145

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

Laboratory Code: 209536-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	<0.03	75	76	29-129	1
Toluene	mg/kg (ppm)	1	<0.05	82	83	35-130	1
Ethylbenzene	mg/kg (ppm)	1	<0.05	82	84	32-137	2
m,p-Xylene	mg/kg (ppm)	2	<0.1	81	83	34-136	2
o-Xylene	mg/kg (ppm)	1	<0.05	80	82	33-134	2
Naphthalene	mg/kg (ppm)	1	<0.05	79	81	14-157	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	92	71-118
Toluene	mg/kg (ppm)	1	102	66-126
Ethylbenzene	mg/kg (ppm)	1	102	64-123
m,p-Xylene	mg/kg (ppm)	2	102	78-122
o-Xylene	mg/kg (ppm)	1	101	77-124
Naphthalene	mg/kg (ppm)	1	99	63-140

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/18/22

Date Received: 10/11/22

Project: Texaco Strickland 180357, F&BI 210145

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

Laboratory Code: 210138-07 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Benzene	ug/L (ppb)	10	<0.35	86	50-150
Toluene	ug/L (ppb)	10	<1	91	50-150
Ethylbenzene	ug/L (ppb)	10	<1	89	50-150
m,p-Xylene	ug/L (ppb)	20	<2	88	50-150
o-Xylene	ug/L (ppb)	10	<1	89	50-150
Naphthalene	ug/L (ppb)	10	<1	84	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Benzene	ug/L (ppb)	10	95	94	70-130	1
Toluene	ug/L (ppb)	10	96	94	70-130	2
Ethylbenzene	ug/L (ppb)	10	97	97	70-130	0
m,p-Xylene	ug/L (ppb)	20	97	96	70-130	1
o-Xylene	ug/L (ppb)	10	98	98	70-130	0
Naphthalene	ug/L (ppb)	10	94	95	70-130	1

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The 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.

210145

Report To: FLM Griffiths, Daniel Barrow

Company: Aspect Consulting

Address: Seattle, WA

City, State, ZIP: \_\_\_\_\_  
Phone: \_\_\_\_\_ Email: \_\_\_\_\_

SAMPLE CHAIN OF CUSTODY 10/11/22 VW11E031B01/V5-MS

SAMPLERS (signature) [Signature]

PROJECT NAME: TEXACO-Snickard

REMARKS

Project specific RIs? - Yes / No

PO #

180357

INVOICE TO

TURNAROUND TIME  
 Standard turnaround  
 RUSH  
Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL  
 Archive samples  
 Other \_\_\_\_\_

Default: Dispose after 30 days

ANALYSES REQUESTED

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	
Garab-101122	01 A-G	10/11/22	0705	W	7	X	X	X					
SW-501-440	02 A-E		0740	S	5								
SW-503-440	03		0745										
SW-506-440	04		0750										

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by: [Signature]

Ashley Rowan

Aspect

10/11/22

12:50

Received by: [Signature]

ANDY PHAM

FRB

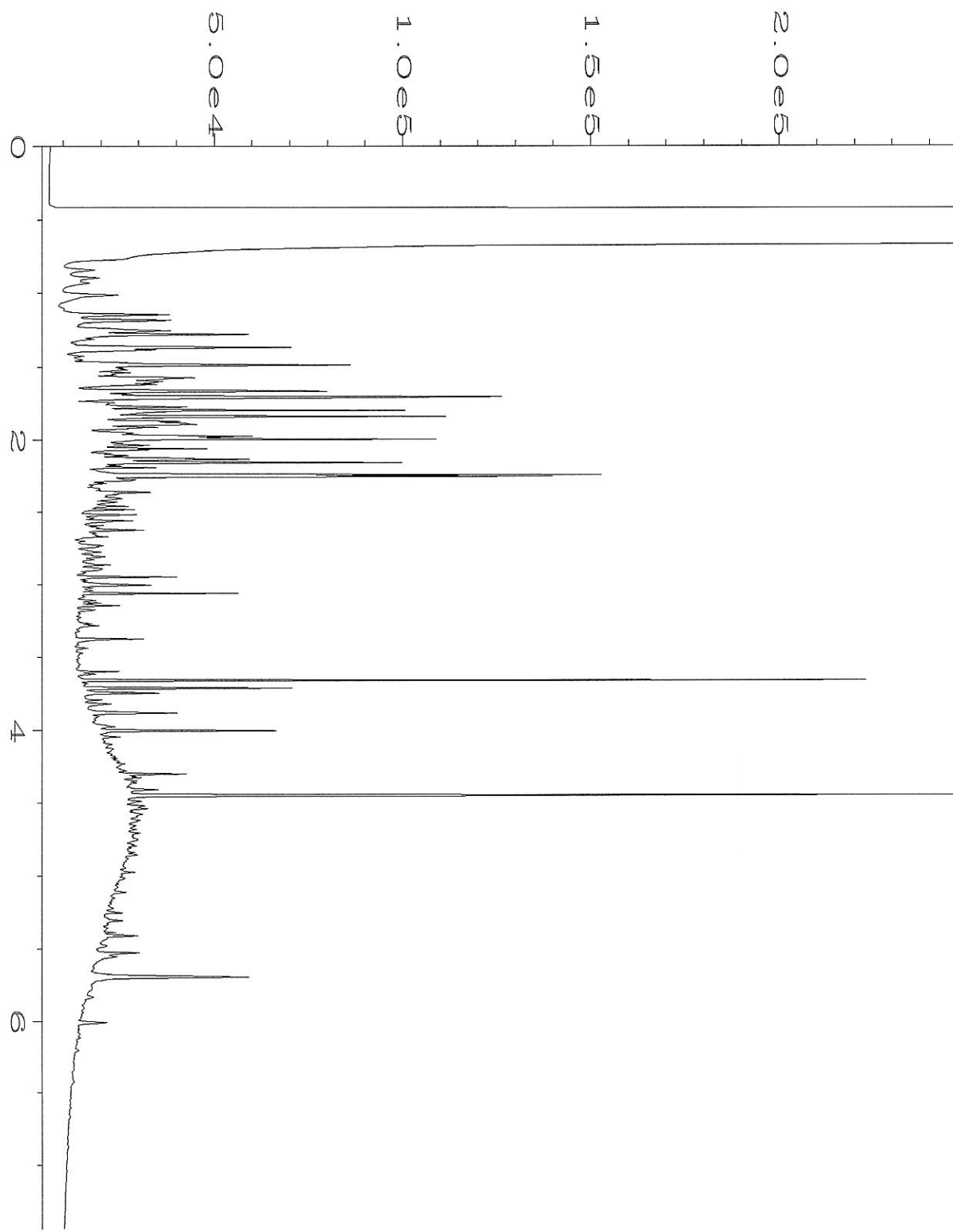
10/11/22

13:50

Relinquished by:

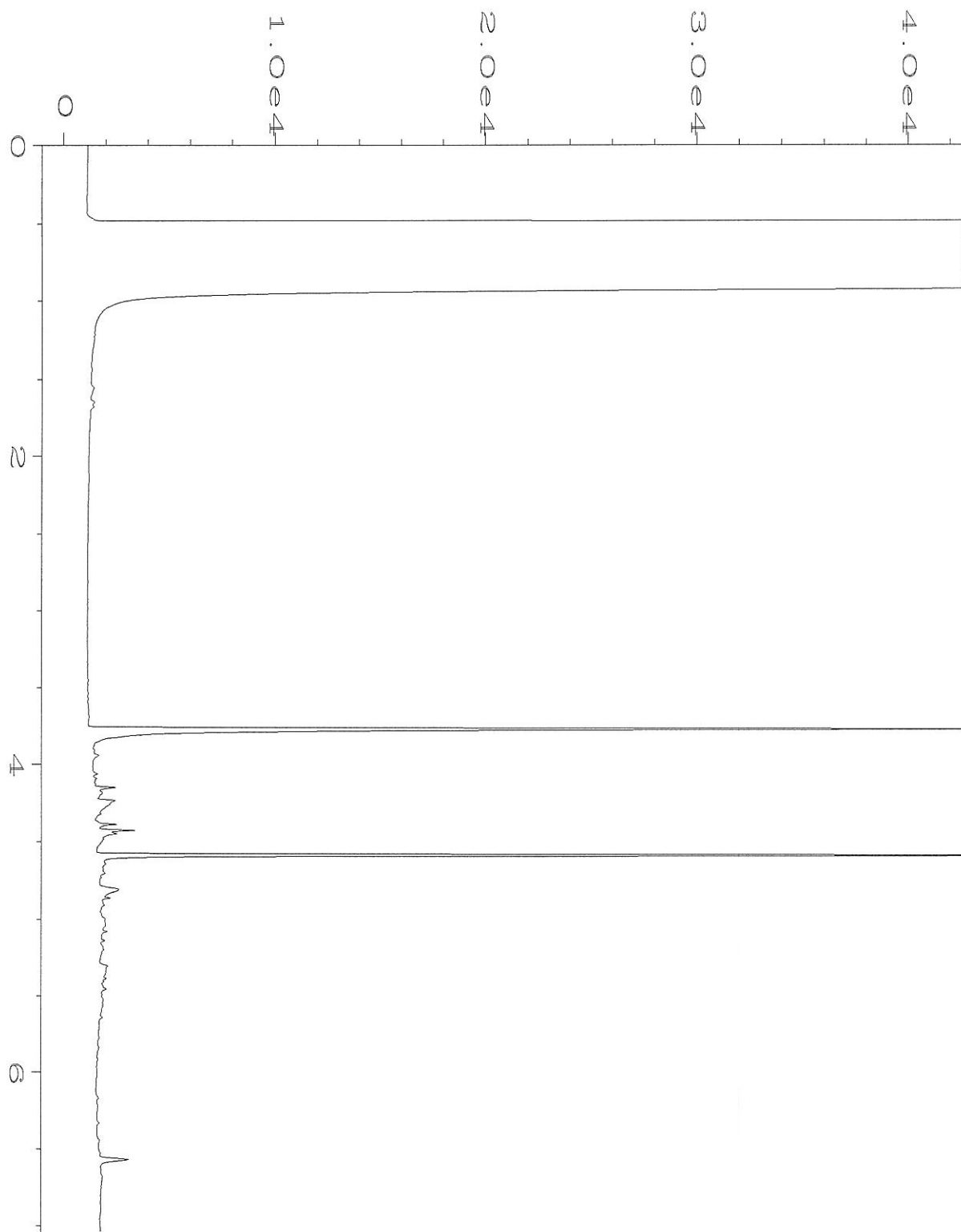
Samples received at DOC

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

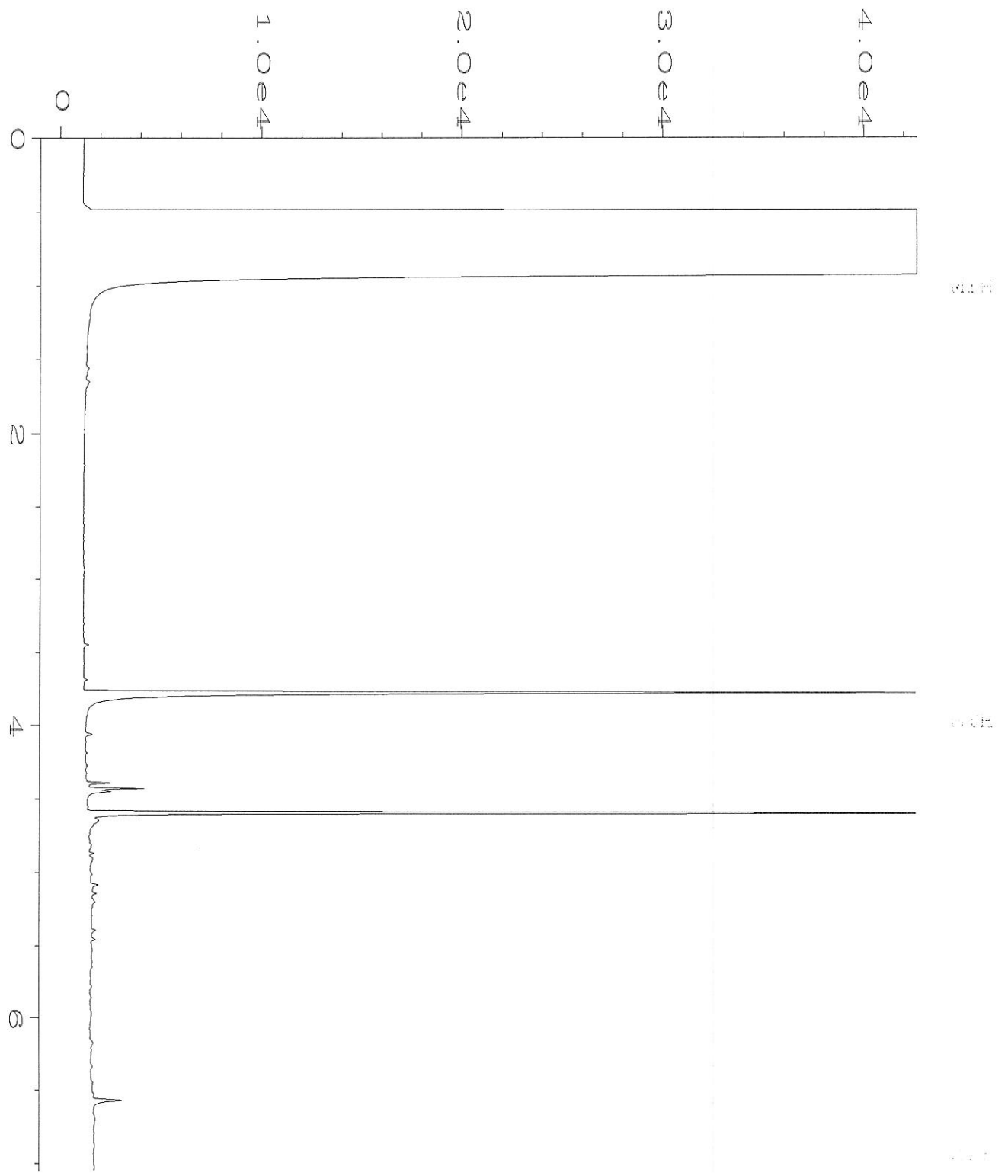


Data File Name	: C:\HPCHEM\1\DATA\10-13-22\029F1301.D	Page Number	: 1
Operator	: TL	Vial Number	: 29
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210145-01	Sequence Line	: 13
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 13 Oct 22 03:11 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	14 Oct 22 09:59 AM		

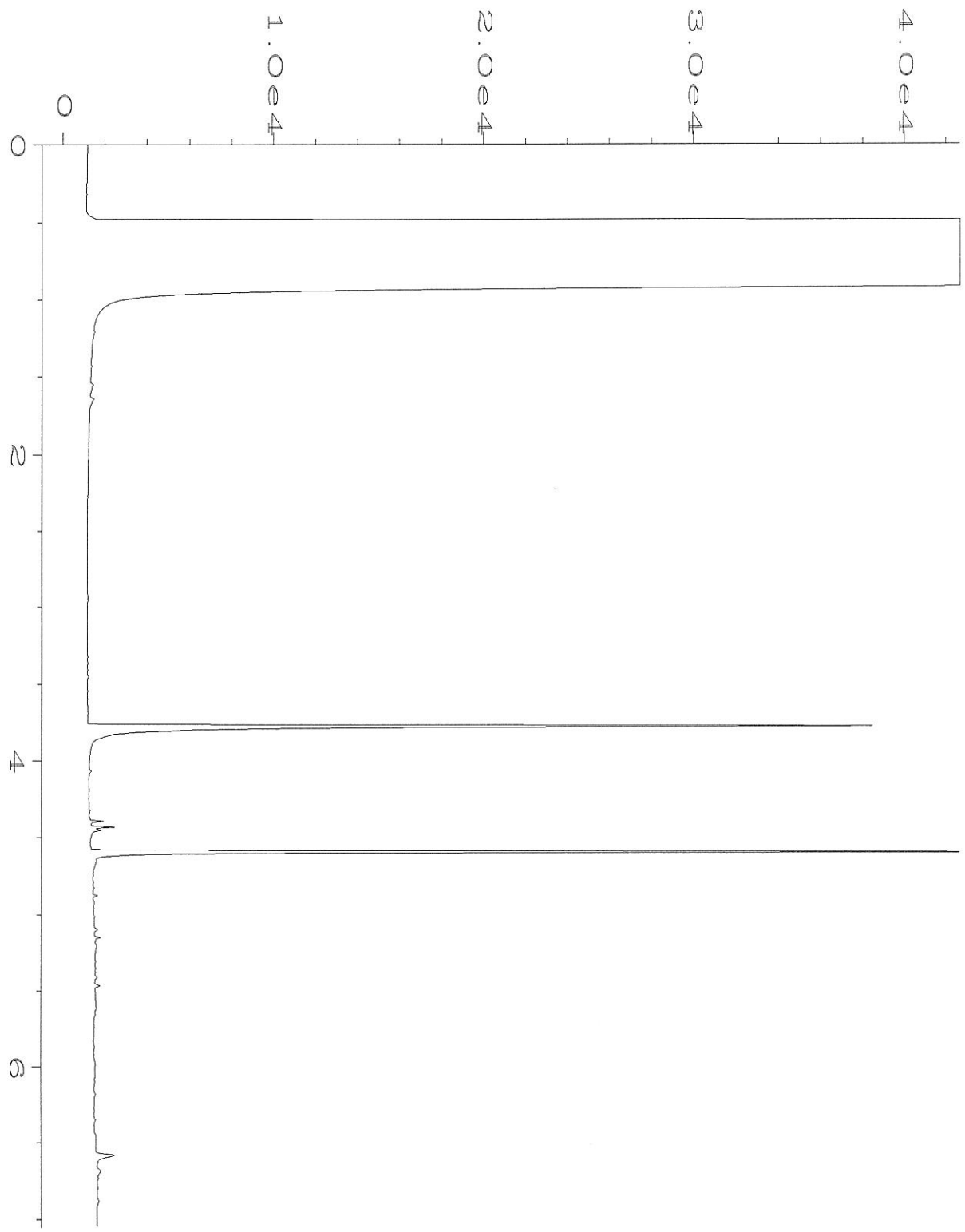




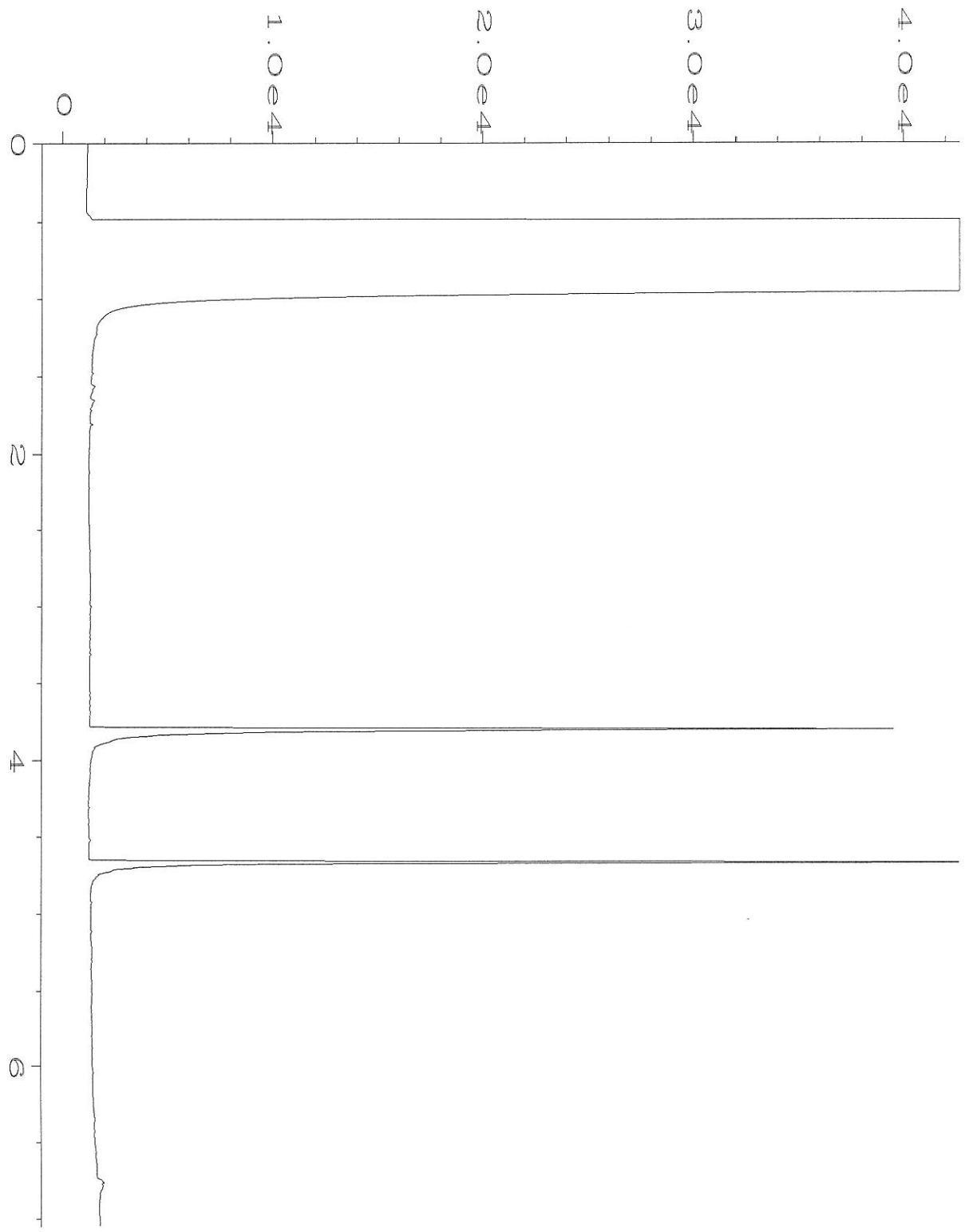
Data File Name	: C:\HPCHEM\4\DATA\10-12-22\029F1001.D	Page Number	: 1
Operator	: TL	Vial Number	: 29
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210145-02	Sequence Line	: 10
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 12 Oct 22 05:16 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	13 Oct 22 08:42 AM		



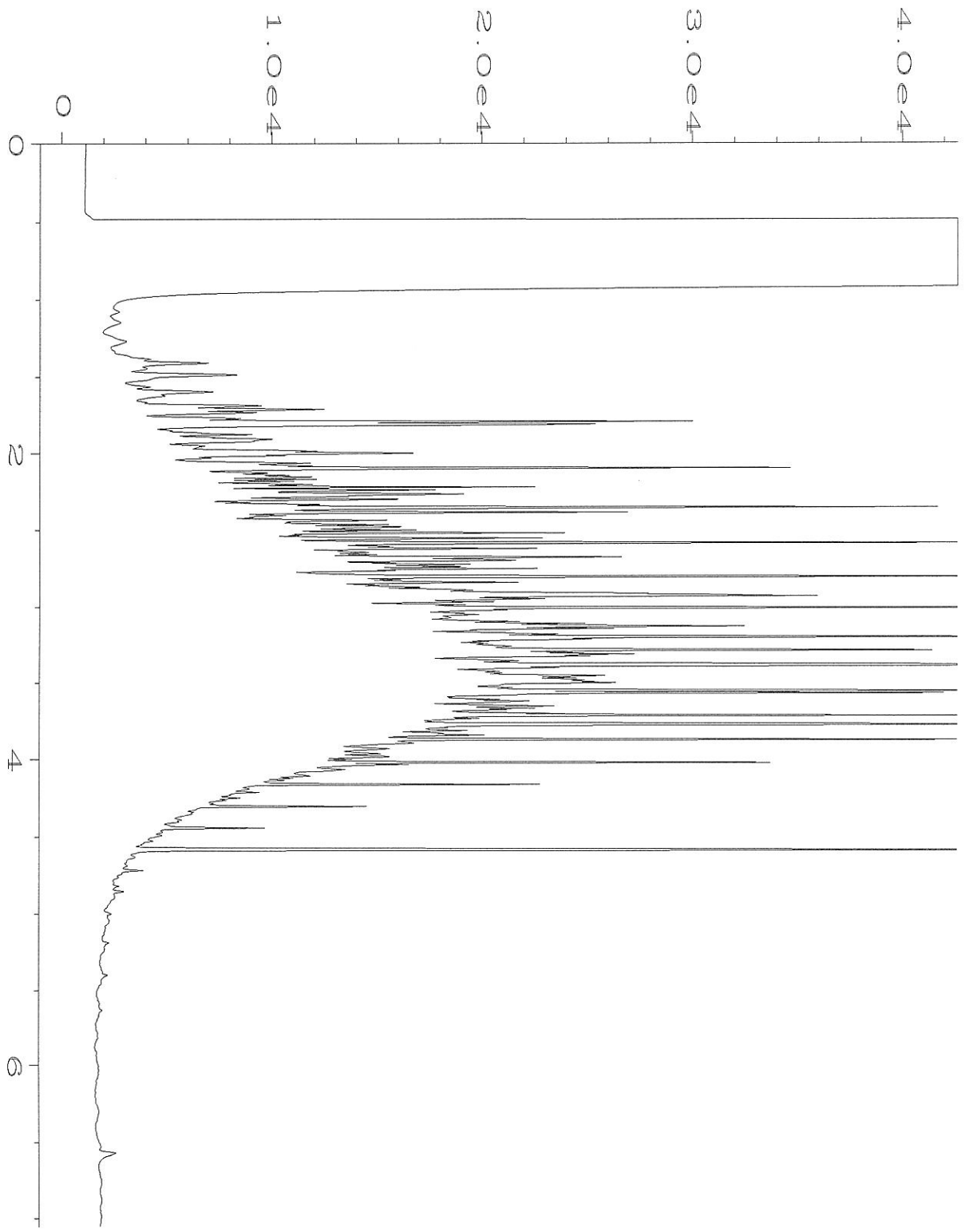
Data File Name	: C:\HPCHEM\4\DATA\10-12-22\030F1001.D	Page Number	: 1
Operator	: TL	Vial Number	: 30
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210145-03	Sequence Line	: 10
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 12 Oct 22 05:27 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	13 Oct 22 08:42 AM		



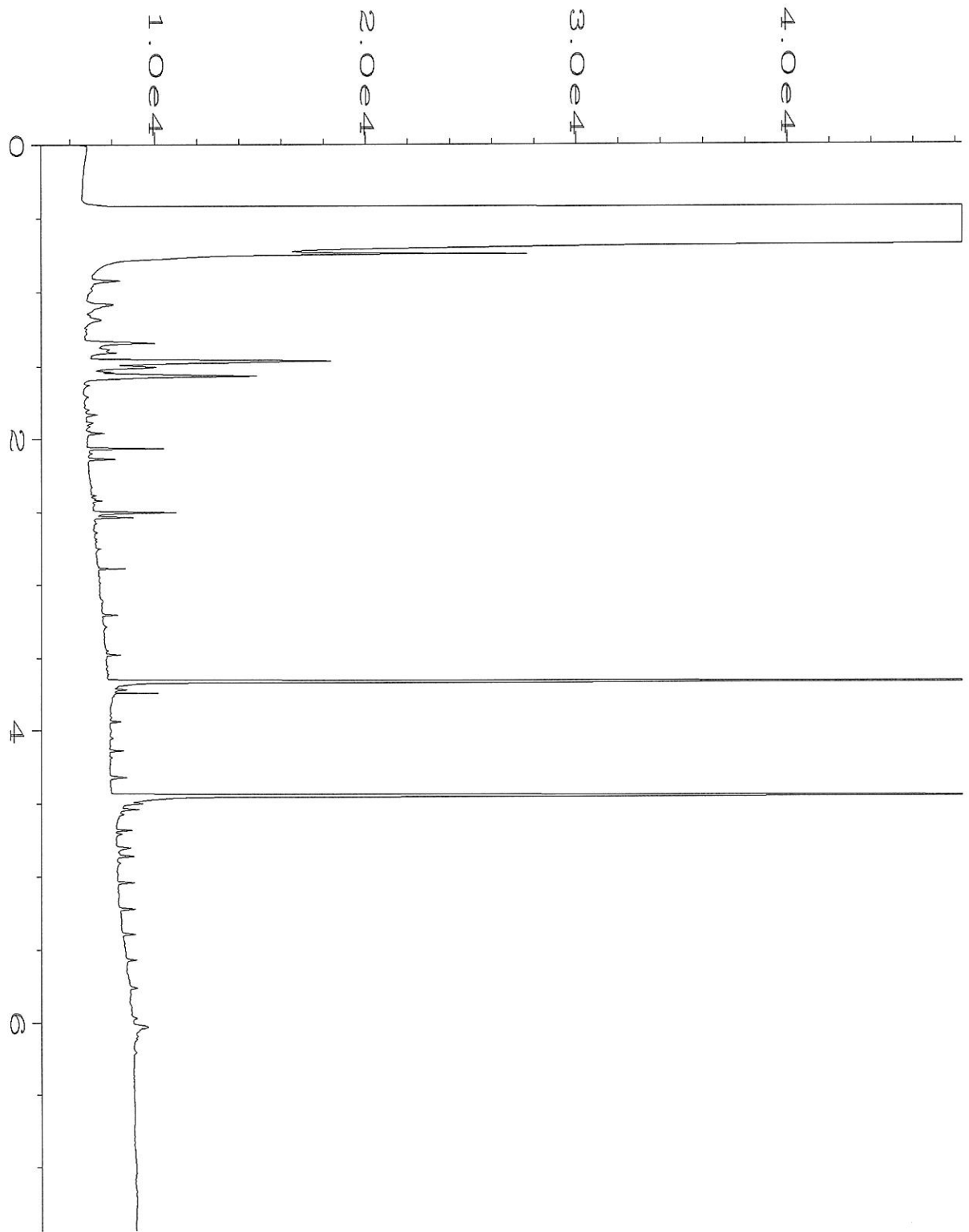
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Operator	: TL	Vial Number	: 31
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210145-04	Sequence Line	: 10
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 12 Oct 22 05:38 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	13 Oct 22 08:42 AM		



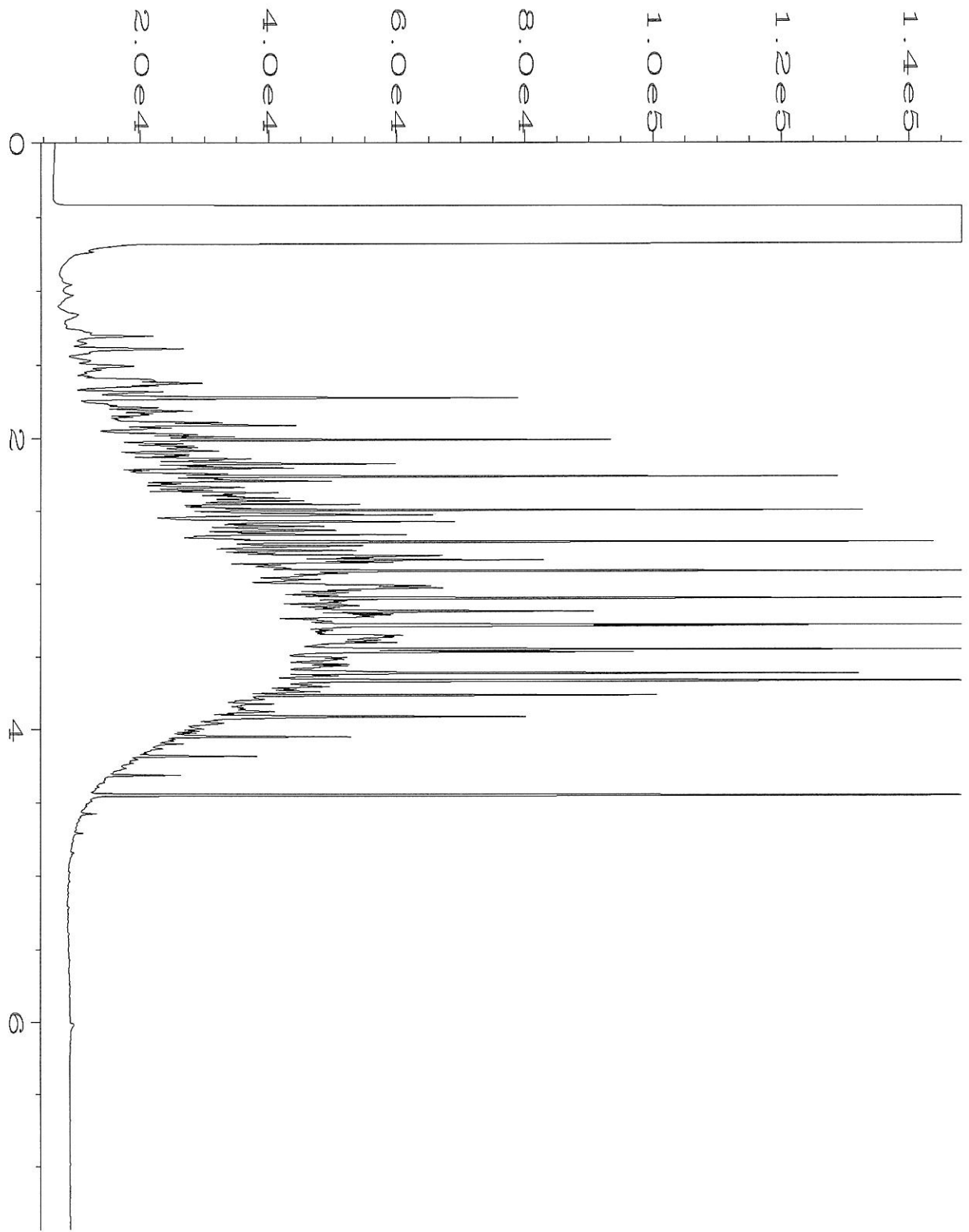
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Operator	: TL	Vial Number	: 6
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 02-2466 mb2	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 12 Oct 22 09:01 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	13 Oct 22 08:42 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-12-22\003F1101.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 66-186F	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 12 Oct 22 06:13 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	13 Oct 22 08:42 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-13-22\086F0901.D	Page Number	: 1
Operator	: TL	Vial Number	: 86
Instrument	: GC1	Injection Number	: 1
Sample Name	: 02-2521 mb	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 13 Oct 22 01:01 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	14 Oct 22 10:00 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-13-22\003F1501.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 66-186F	Sequence Line	: 15
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 13 Oct 22 04:18 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	14 Oct 22 10:00 AM		

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.

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

October 20, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
710 2<sup>nd</sup> Ave S, Suite 550  
Seattle, WA 98104

Dear Mr Griffin:

Included are the results from the testing of material submitted on October 14, 2022 from the Texaco Strickland 180357, F&BI 210214 project. There are 10 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1020R.DOC



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 14, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 210214 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210214 -01	B-N04-W09-428
210214 -02	B-N99-W99-428

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/22  
Date Received: 10/14/22  
Project: Texaco Strickland 180357, F&BI 210214  
Date Extracted: 10/18/22  
Date Analyzed: 10/18/22

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

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
B-N04-W09-428 210214-01	<5	105
B-N99-W99-428 210214-02	<5	107
Method Blank 02-2510 MB	<5	109

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/22

Date Received: 10/14/22

Project: Texaco Strickland 180357, F&BI 210214

Date Extracted: 10/17/22

Date Analyzed: 10/17/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
B-N04-W09-428 210214-01	<50	<250	91
B-N99-W99-428 210214-02	<50	<250	90
Method Blank 02-2532 MB	<50	<250	69

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N04-W09-428	Client:	Aspect Consulting, LLC
Date Received:	10/14/22	Project:	Texaco Strickland 180357, F&BI 210214
Date Extracted:	10/17/22	Lab ID:	210214-01
Date Analyzed:	10/17/22	Data File:	101706.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	105	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N99-W99-428	Client:	Aspect Consulting, LLC
Date Received:	10/14/22	Project:	Texaco Strickland 180357, F&BI 210214
Date Extracted:	10/17/22	Lab ID:	210214-02
Date Analyzed:	10/17/22	Data File:	101707.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357, F&BI 210214
Date Extracted:	10/17/22	Lab ID:	02-2483 mb
Date Analyzed:	10/17/22	Data File:	101705.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	106	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/22

Date Received: 10/14/22

Project: Texaco Strickland 180357, F&BI 210214

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

Laboratory Code: 210214-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	105	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/22

Date Received: 10/14/22

Project: Texaco Strickland 180357, F&BI 210214

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

Laboratory Code: 210228-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	86	88	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	90	74-139



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/22

Date Received: 10/14/22

Project: Texaco Strickland 180357, F&BI 210214

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

Laboratory Code: 210214-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	<0.03	83	88	29-129	6
Toluene	mg/kg (ppm)	1	<0.05	91	98	35-130	7
Ethylbenzene	mg/kg (ppm)	1	<0.05	91	99	32-137	8
m,p-Xylene	mg/kg (ppm)	2	<0.1	90	98	34-136	9
o-Xylene	mg/kg (ppm)	1	<0.05	90	96	33-134	6
Naphthalene	mg/kg (ppm)	1	<0.05	94	100	14-157	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	83	71-118
Toluene	mg/kg (ppm)	1	96	66-126
Ethylbenzene	mg/kg (ppm)	1	99	64-123
m,p-Xylene	mg/kg (ppm)	2	98	78-122
o-Xylene	mg/kg (ppm)	1	99	77-124
Naphthalene	mg/kg (ppm)	1	100	63-140

# 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.

210214

SAMPLE CHAIN OF CUSTODY

10/14/22

601/VS-A1

Report To Daniel Blodt & Associates

Company Aspect Consulting

Address

City, State, ZIP

Phone 361.7.7777 Email d.blodt@aspectconsulting.com

SAMPLERS (signature) *[Signature]*

PROJECT NAME

Texas Smoked

PO #

1803572

REMARKS

INVOICE TO

Project specific RIIS? - Yes / No

Page # 1 of 1

TURNAROUND TIME

Standard turnaround

RUSH 72 hours

Rush charges authorized by: Daniel Blodt

SAMPLE DISPOSAL

Archive samples

Other

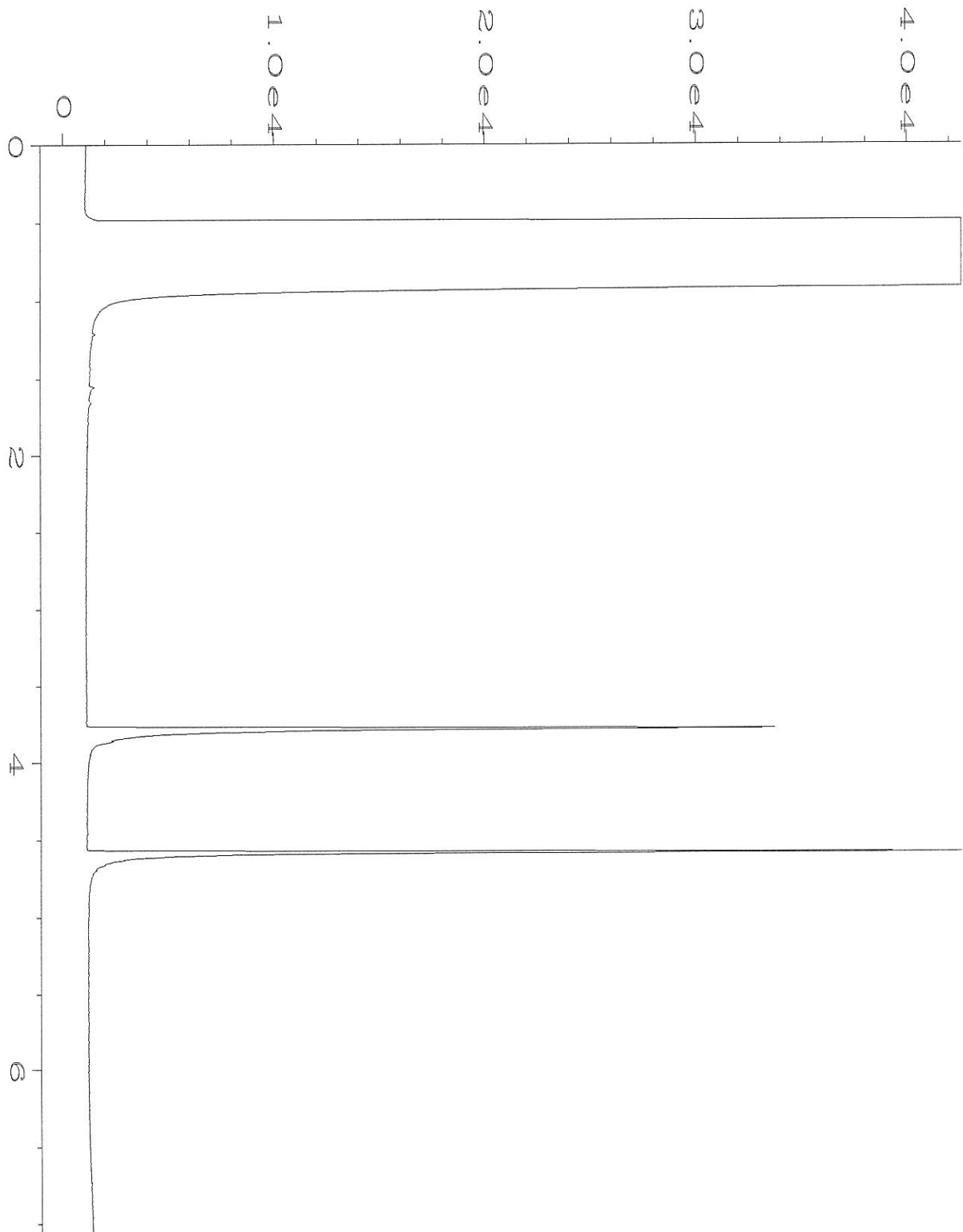
ANALYSES REQUESTED

- NWTPH-Dx
- NWTPH-Gx
- BTEX EPA 8021
- NWTPH-HCID
- VOCs EPA 8260
- PAHs EPA 8270
- PCBs EPA 8082
- BTEX by B260

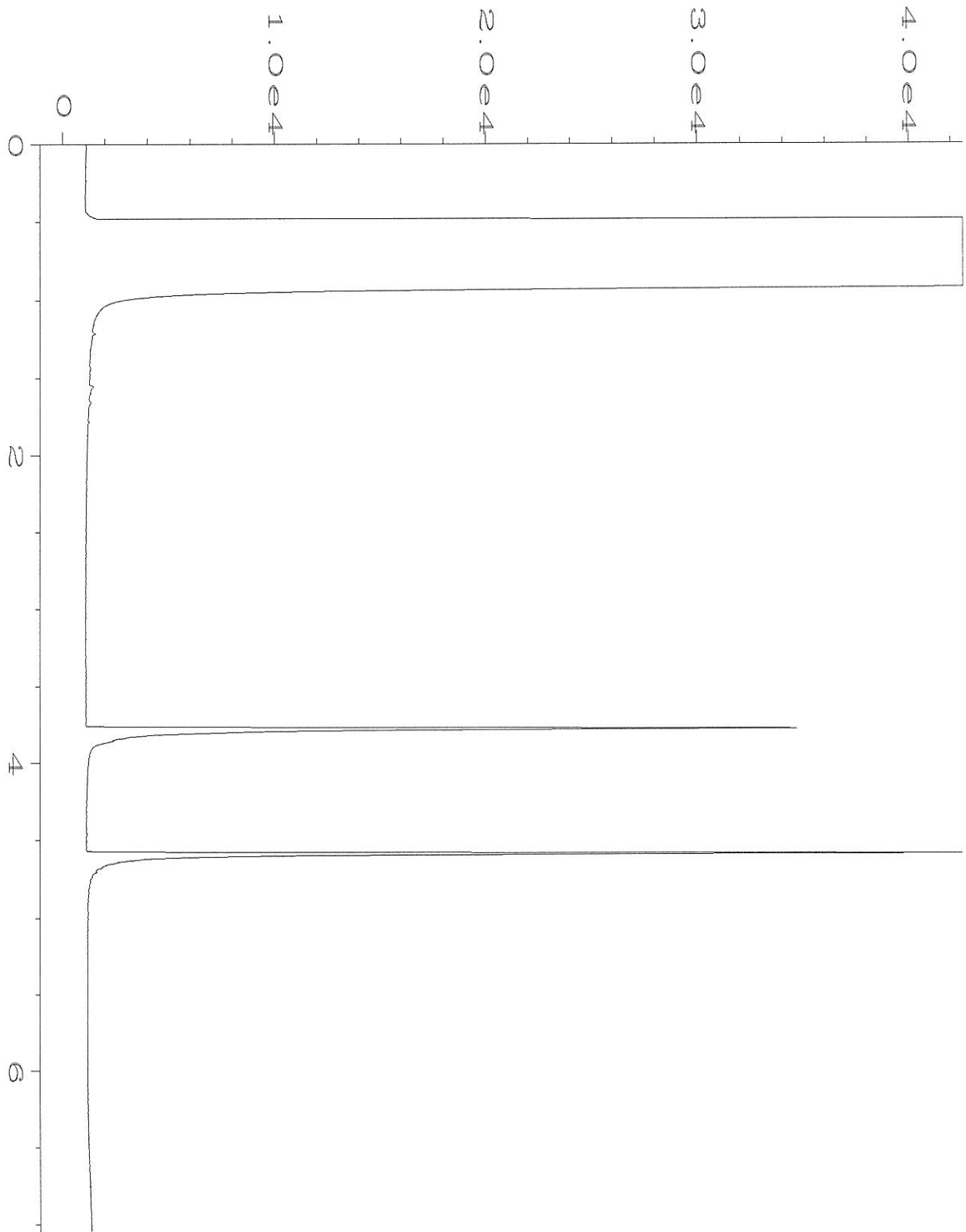
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes					
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	BTEX by B260								
B-N04-W09-428	O1A-E	10/14/22	0930	Soil	5	X	X														
B-N19-W19-428			0940	Soil	5	X	X														

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

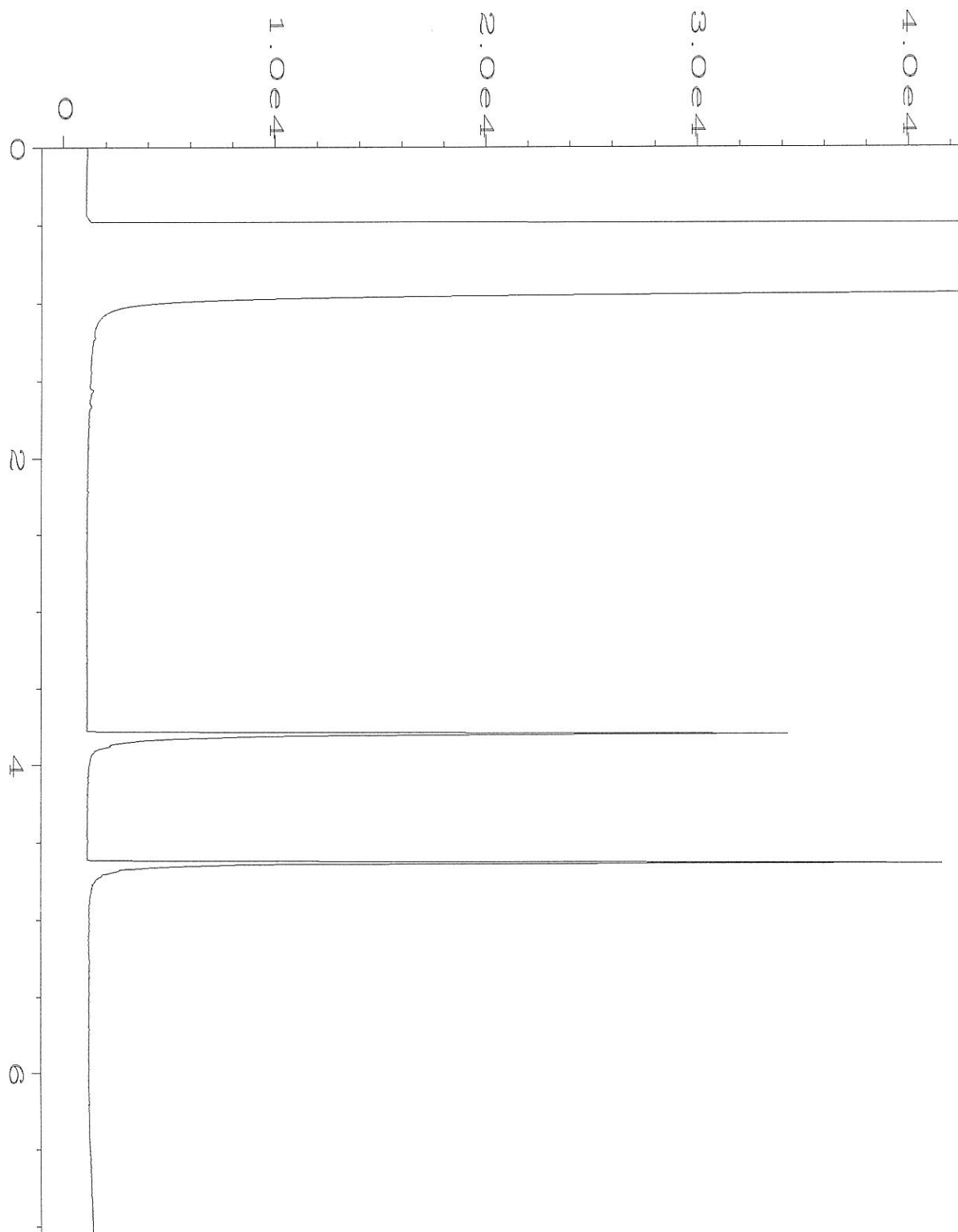
SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by:	<i>[Signature]</i>	Daniel Blodt		Aspect		10/14/22	1534
Received by:	<i>[Signature]</i>	VINCE		FBI		10-14-22	1534
Relinquished by:							
Received by:				Samples received at		3:00	



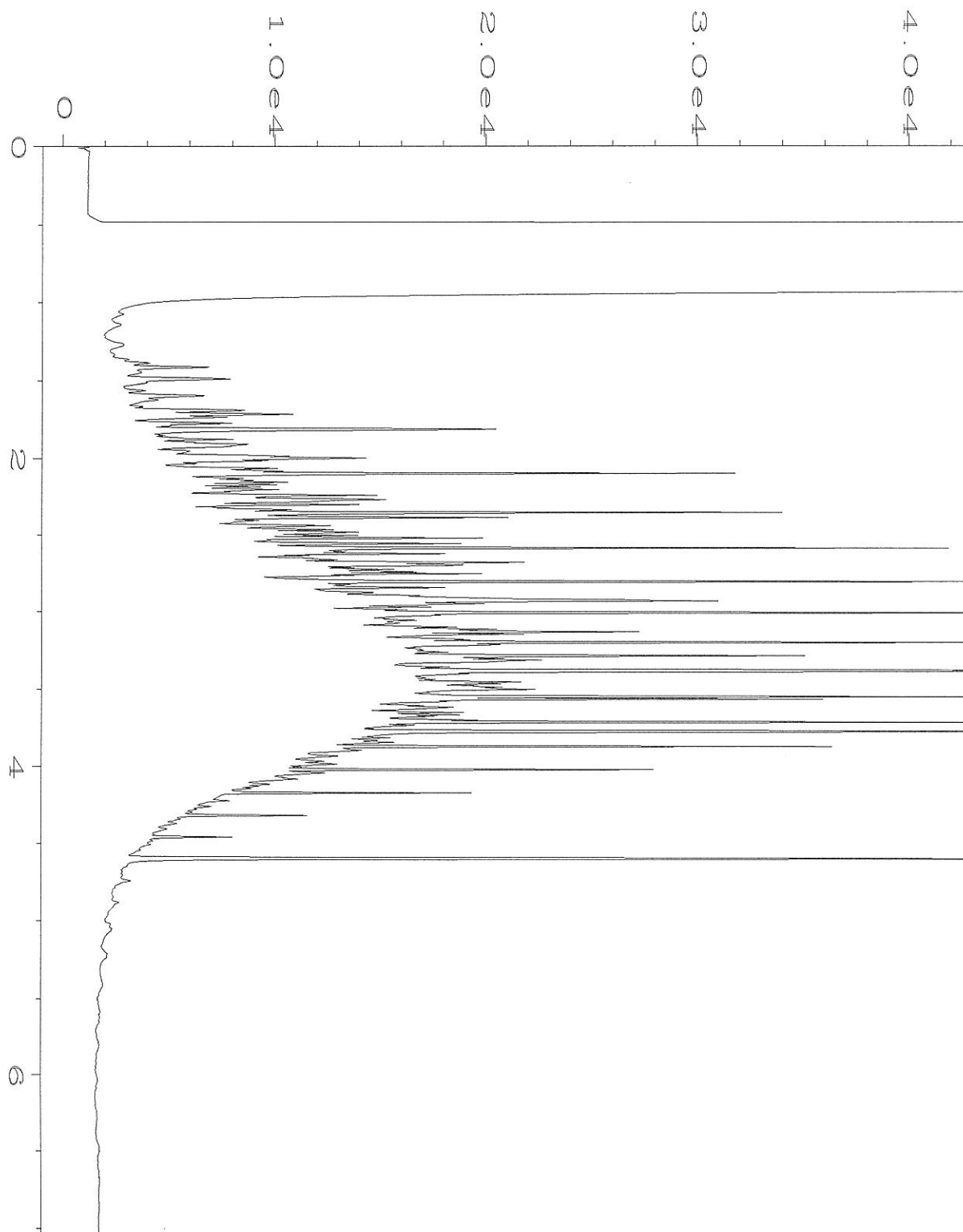
Data File Name	: C:\HPCHEM\4\DATA\10-17-22\037F1101.D	Page Number	: 1
Operator	: TL	Vial Number	: 37
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210214-01	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 17 Oct 22 05:54 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	18 Oct 22 09:21 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-17-22\038F1101.D	Page Number	: 1
Operator	: TL	Vial Number	: 38
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210214-02	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 17 Oct 22 06:06 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	18 Oct 22 09:21 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-17-22\021F0701.D	Page Number	: 1
Operator	: TL	Vial Number	: 21
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 02-2532 mb	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 17 Oct 22 02:19 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	18 Oct 22 09:21 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-17-22\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 66-186M	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 17 Oct 22 05:56 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	18 Oct 22 09:21 AM		

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.

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

October 21, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
350 Madison Ave. N.  
Bainbridge Island, WA 98110-1810

Dear Mr Griffin:

Included are the results from the testing of material submitted on October 18, 2022 from the Texaco Strickland 180357, F&BI 210253 project. There are 17 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1021R.DOC



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 18, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210253 -01	SW-W06-429
210253 -02	SW-W09-429
210253 -03	SW-W11-429
210253 -04	SW-W14-429
210253 -05	Trip Blank

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/22  
Date Received: 10/18/22  
Project: Texaco Strickland 180357, F&BI 210253  
Date Extracted: 10/20/22  
Date Analyzed: 10/20/22

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

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
SW-W06-429 210253-01	<5	124
SW-W09-429 210253-02	<5	105
SW-W11-429 210253-03	<5	101
SW-W14-429 210253-04	<5	107
Method Blank 02-2515 MB	<5	104

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/22

Date Received: 10/18/22

Project: Texaco Strickland 180357, F&BI 210253

Date Extracted: 10/19/22

Date Analyzed: 10/19/22

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE  
USING METHOD NWTPH-Gx**  
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)
Trip Blank 210253-05	<100	105
Method Blank 02-2514 MB	<100	89

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/22

Date Received: 10/18/22

Project: Texaco Strickland 180357, F&BI 210253

Date Extracted/Date Analyzed: 10/19/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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 56-165)
SW-W06-429 210253-01	<50	<250	112
SW-W09-429 210253-02	<50	<250	110
SW-W11-429 210253-03	<50	<250	111
SW-W14-429 210253-04	<50	<250	100
Method Blank 02-2543 MB	<50	<250	78

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W06-429	Client:	Aspect Consulting, LLC
Date Received:	10/18/22	Project:	Texaco Strickland 180357
Date Extracted:	10/19/22	Lab ID:	210253-01
Date Analyzed:	10/19/22	Data File:	101909.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	94	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	0.51
Toluene	<0.05
Ethylbenzene	0.073
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W09-429	Client:	Aspect Consulting, LLC
Date Received:	10/18/22	Project:	Texaco Strickland 180357
Date Extracted:	10/19/22	Lab ID:	210253-02
Date Analyzed:	10/19/22	Data File:	101908.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	96	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	0.060
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W11-429	Client:	Aspect Consulting, LLC
Date Received:	10/18/22	Project:	Texaco Strickland 180357
Date Extracted:	10/19/22	Lab ID:	210253-03
Date Analyzed:	10/19/22	Data File:	101906.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W14-429	Client:	Aspect Consulting, LLC
Date Received:	10/18/22	Project:	Texaco Strickland 180357
Date Extracted:	10/19/22	Lab ID:	210253-04
Date Analyzed:	10/19/22	Data File:	101907.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357
Date Extracted:	10/19/22	Lab ID:	02-2487 mb
Date Analyzed:	10/19/22	Data File:	101905.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Trip Blank	Client:	Aspect Consulting, LLC
Date Received:	10/18/22	Project:	Texaco Strickland 180357
Date Extracted:	10/19/22	Lab ID:	210253-05
Date Analyzed:	10/19/22	Data File:	101911.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	78	126
Toluene-d8	95	84	115
4-Bromofluorobenzene	100	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357
Date Extracted:	10/19/22	Lab ID:	02-2488 mb
Date Analyzed:	10/19/22	Data File:	101907.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	96	84	115
4-Bromofluorobenzene	95	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/22

Date Received: 10/18/22

Project: Texaco Strickland 180357, F&BI 210253

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

Laboratory Code: 210253-03 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	100	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/22

Date Received: 10/18/22

Project: Texaco Strickland 180357, F&BI 210253

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

Laboratory Code: 210236-01 (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	108	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/22

Date Received: 10/18/22

Project: Texaco Strickland 180357, F&BI 210253

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

Laboratory Code: 210253-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	82	84	63-146	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	82	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/22

Date Received: 10/18/22

Project: Texaco Strickland 180357, F&BI 210253

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

Laboratory Code: 210253-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	0.44	30 b	30 b	29-129	0 b
Toluene	mg/kg (ppm)	1	<0.05	88	84	35-130	5
Ethylbenzene	mg/kg (ppm)	1	0.063	83	81	32-137	2
m,p-Xylene	mg/kg (ppm)	2	<0.1	86	84	34-136	2
o-Xylene	mg/kg (ppm)	1	<0.05	90	89	33-134	1
Naphthalene	mg/kg (ppm)	1	<0.05	89	91	14-157	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	97	71-118
Toluene	mg/kg (ppm)	1	103	66-126
Ethylbenzene	mg/kg (ppm)	1	104	64-123
m,p-Xylene	mg/kg (ppm)	2	104	78-122
o-Xylene	mg/kg (ppm)	1	103	77-124
Naphthalene	mg/kg (ppm)	1	105	63-140

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/22

Date Received: 10/18/22

Project: Texaco Strickland 180357, F&BI 210253

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

Laboratory Code: 210249-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Benzene	ug/L (ppb)	10	<0.35	99	50-150
Toluene	ug/L (ppb)	10	<1	101	50-150
Ethylbenzene	ug/L (ppb)	10	<1	99	50-150
m,p-Xylene	ug/L (ppb)	20	<2	99	50-150
o-Xylene	ug/L (ppb)	10	<1	97	50-150
Naphthalene	ug/L (ppb)	10	<1	96	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Benzene	ug/L (ppb)	10	105	99	70-130	6
Toluene	ug/L (ppb)	10	100	98	70-130	2
Ethylbenzene	ug/L (ppb)	10	103	97	70-130	6
m,p-Xylene	ug/L (ppb)	20	103	96	70-130	7
o-Xylene	ug/L (ppb)	10	104	94	70-130	10
Naphthalene	ug/L (ppb)	10	100	89	70-130	12



# 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.

210253

SAMPLE CHAIN OF CUSTODY

10/18/22

US-A2/V201/001

SAMPLES (signature) *David Paracost*

Page # 1 of 1

Report To Adam Griffiths, David Paracost

Company Agrest Consulting

Address 710 2nd Ave SCS2

City, State, ZIP \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

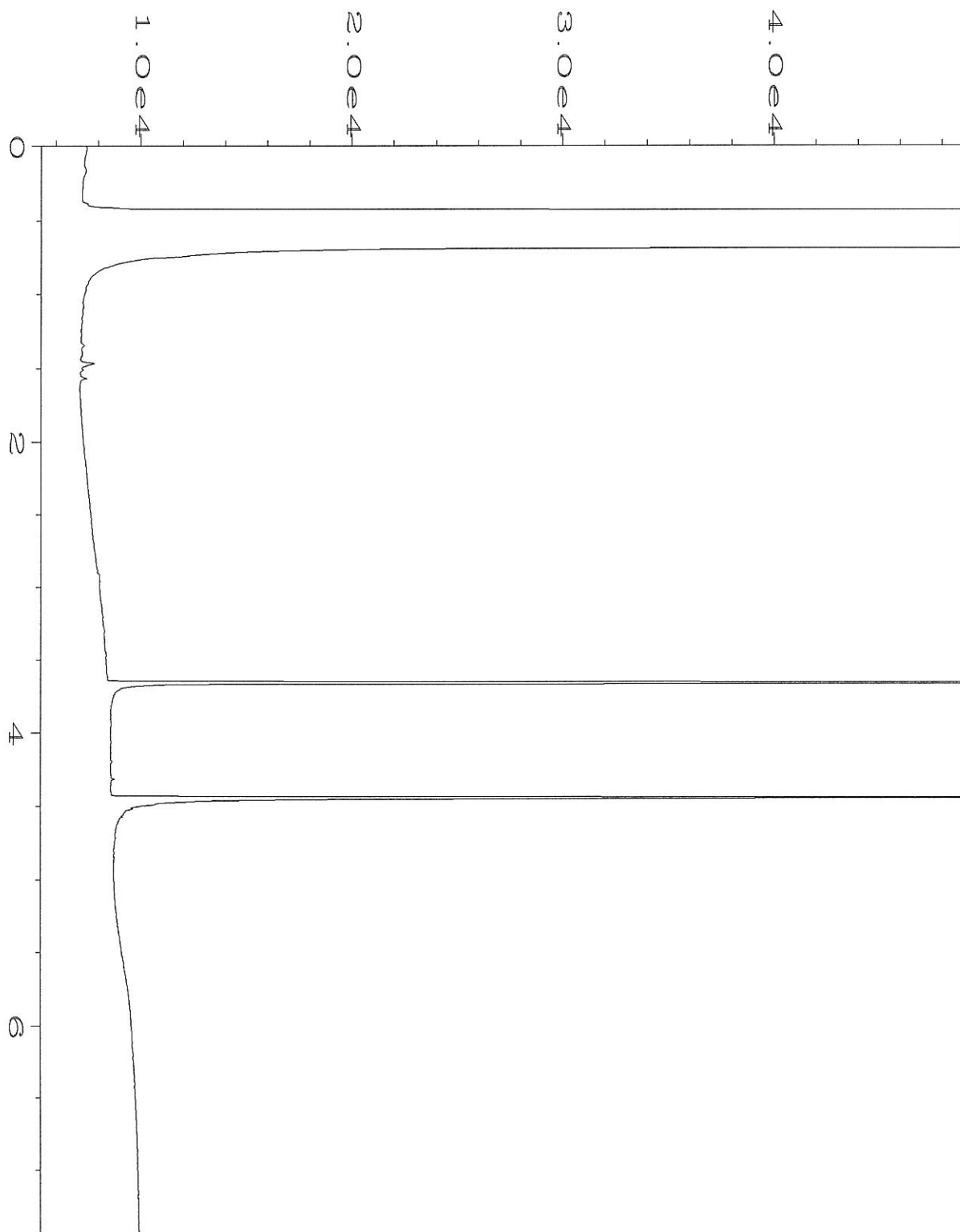
PROJECT NAME	PO #
<u>toxic-Strickland</u>	<u>180357</u>
REMARKS	INVOICE TO
Project specific RI's? - Yes / No	

TURNAROUND TIME
<input checked="" type="checkbox"/> Standard turnaround
<input type="checkbox"/> RUSH
Rush charges authorized by: _____
SAMPLE DISPOSAL
<input type="checkbox"/> Archive samples
<input type="checkbox"/> Other _____
Default: Dispose after 30 days

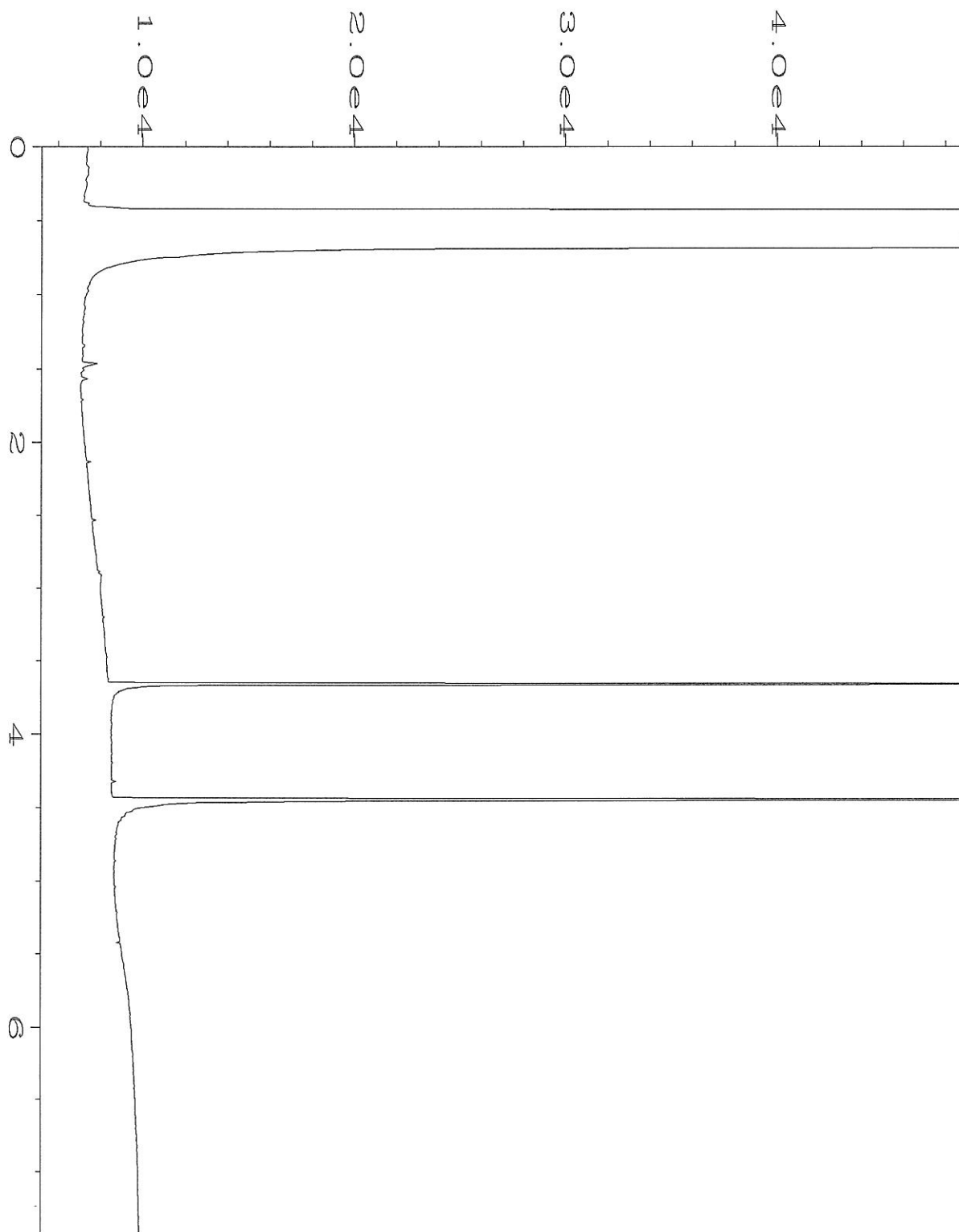
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8220	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
SW-W06-429	01AE	10/18/22	1300	G	5	X	X	X						
SW-W09-429	02		1045	↓	↓	↓	↓	↓						
SW-W11-429	03		1045	↓	↓	↓	↓	↓						
SW-W14-429	04		1045	↓	↓	↓	↓	↓						
HPLBLANK	05AB	-	-	Water	2	X	X	X						

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
<i>David Paracost</i>	DAVID PARACOST	Agrest	10/18/22	1557
Reinquired by:				
Received by:	ERIC FOUR	Agrest	10/19/22	1557
Reinquired by:				
Received by:		Samples received at	4	°C

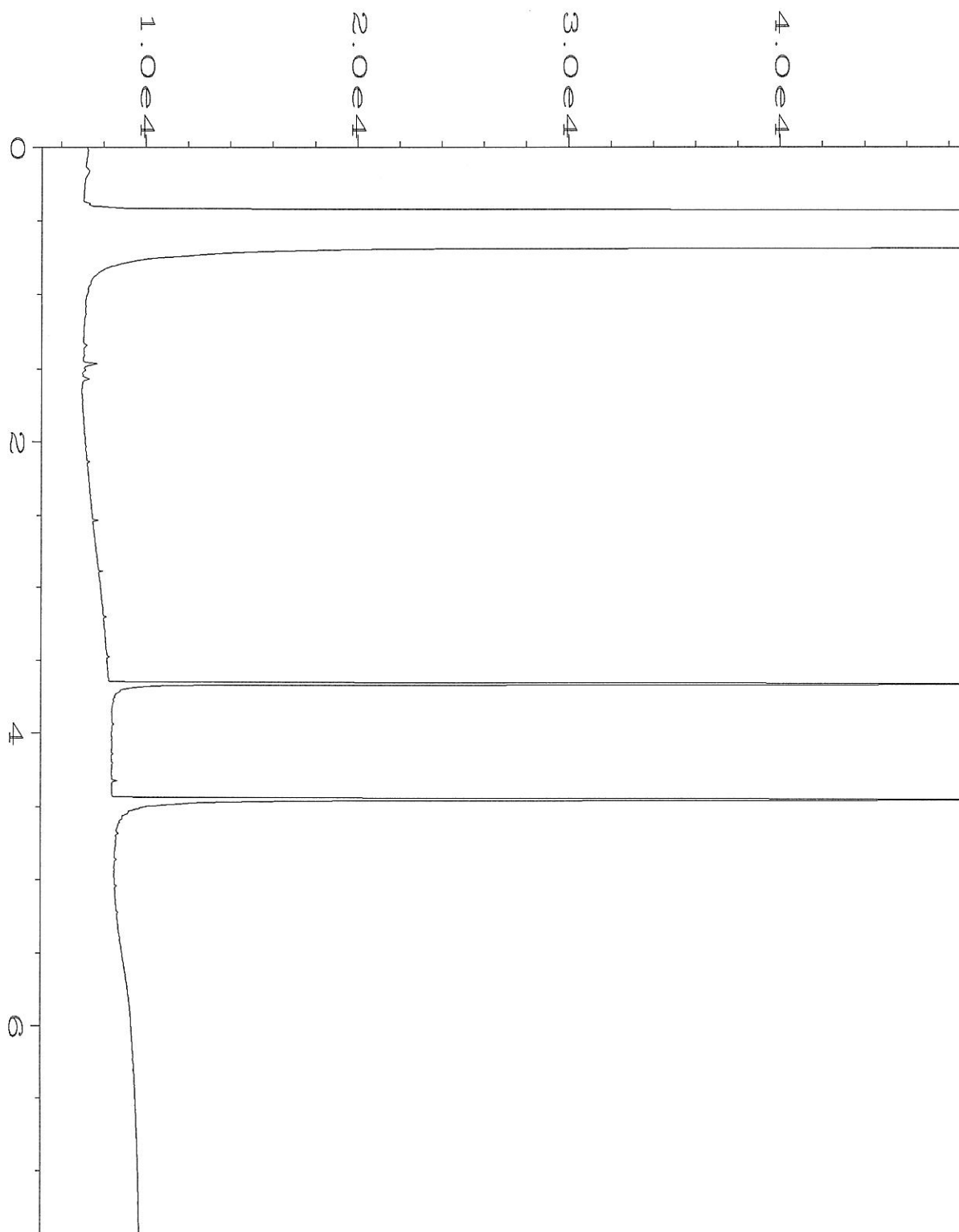
Friedman & Bruya, Inc.  
Ph. (206) 285-8282



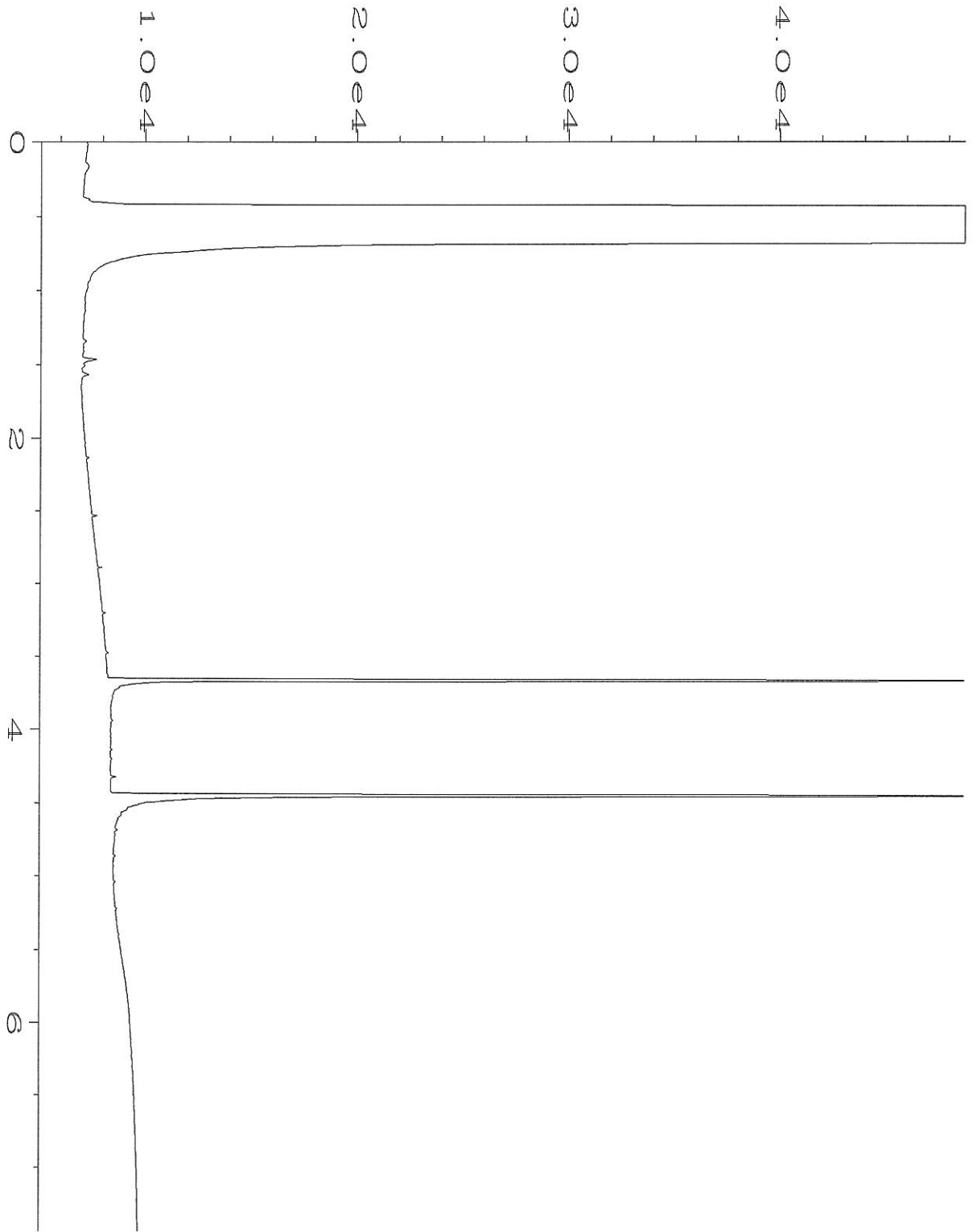
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Operator	: TL	Vial Number	: 10
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210253-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Oct 22 10:09 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	20 Oct 22 10:17 AM		



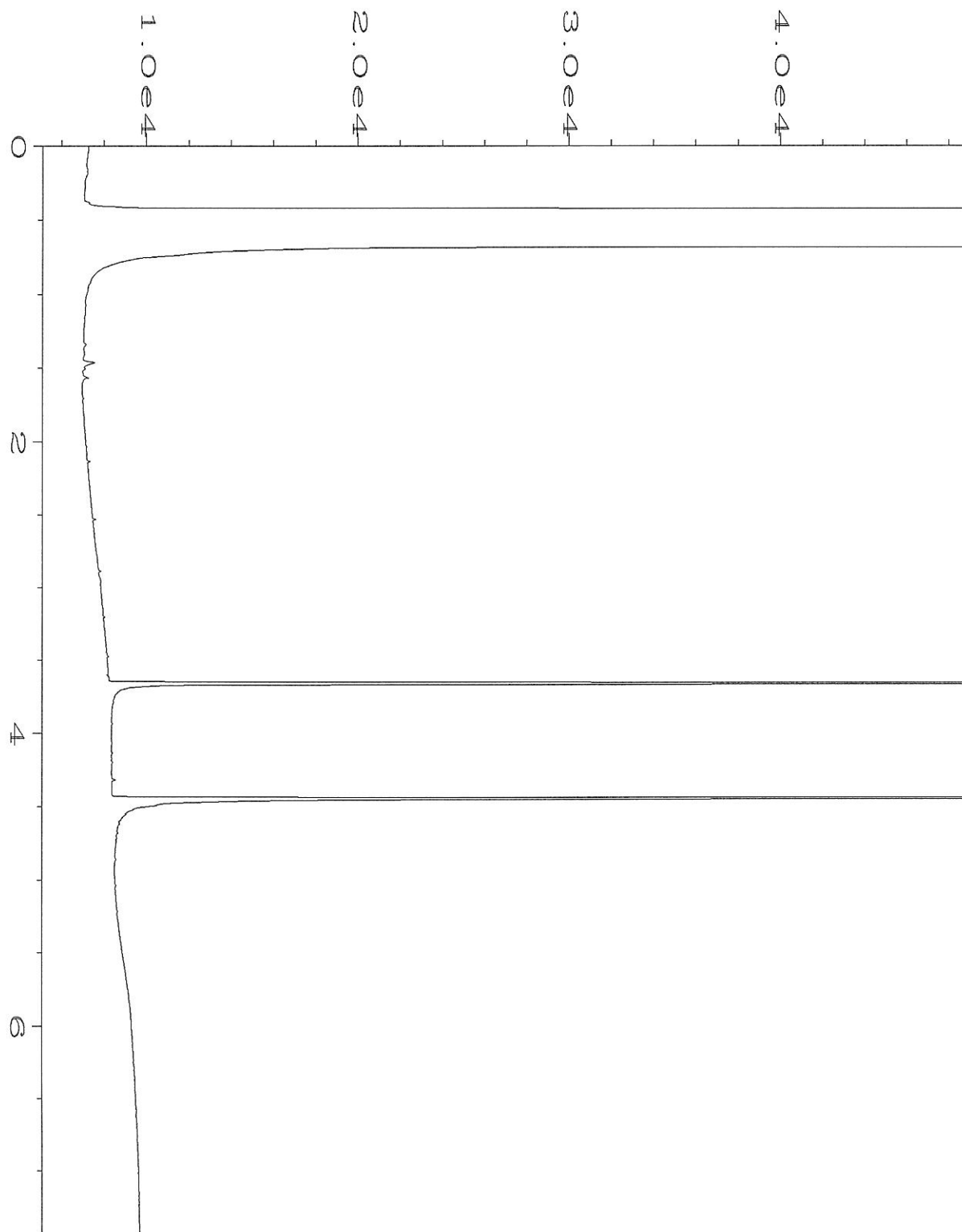
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Operator	: TL	Vial Number	: 11
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210253-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Oct 22 10:23 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	20 Oct 22 10:18 AM		



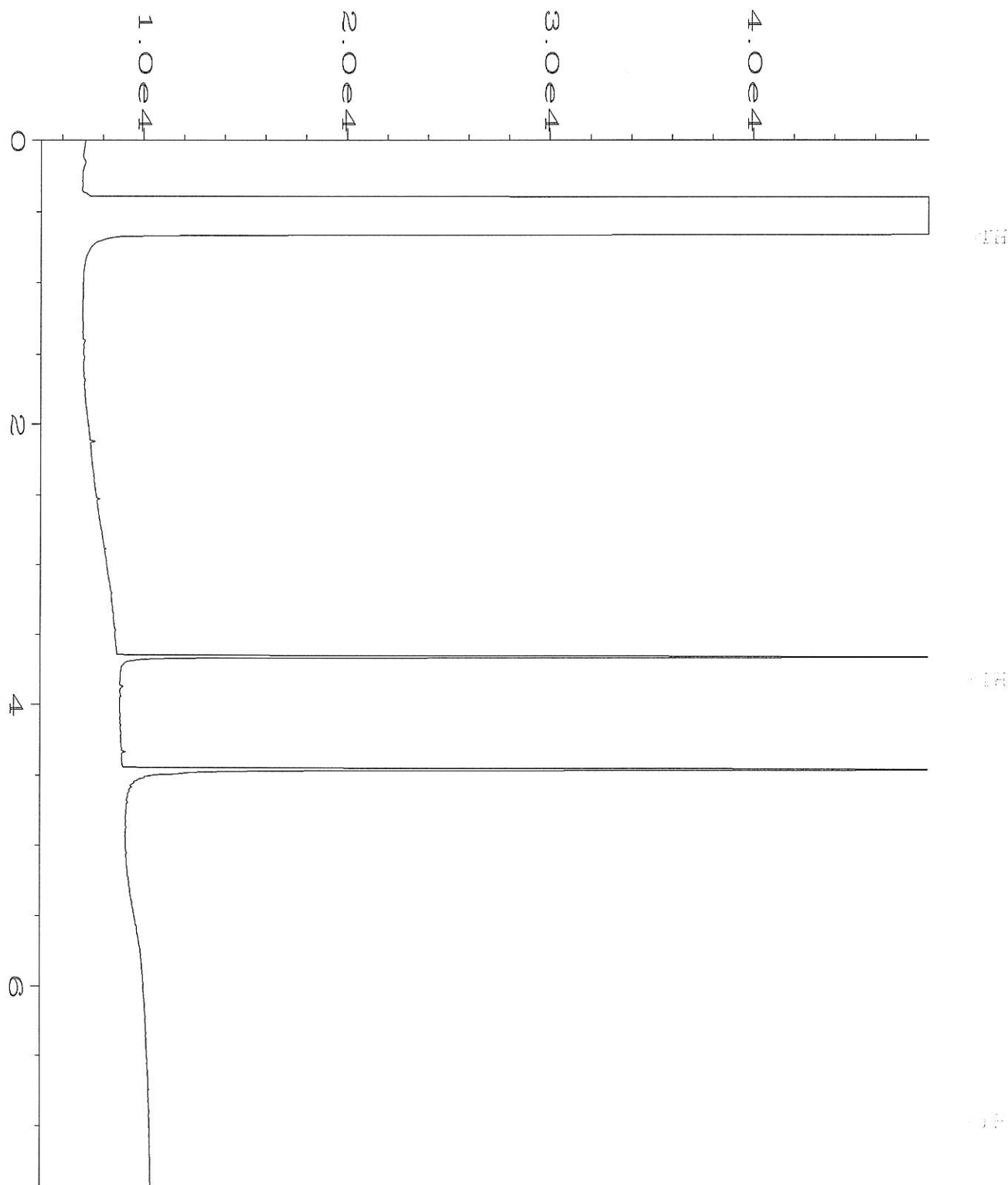
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Operator	: TL	Vial Number	: 12
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210253-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Oct 22 10:37 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	20 Oct 22 10:18 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-19-22\012F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 12
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210253-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Oct 22 10:37 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	20 Oct 22 10:18 AM		

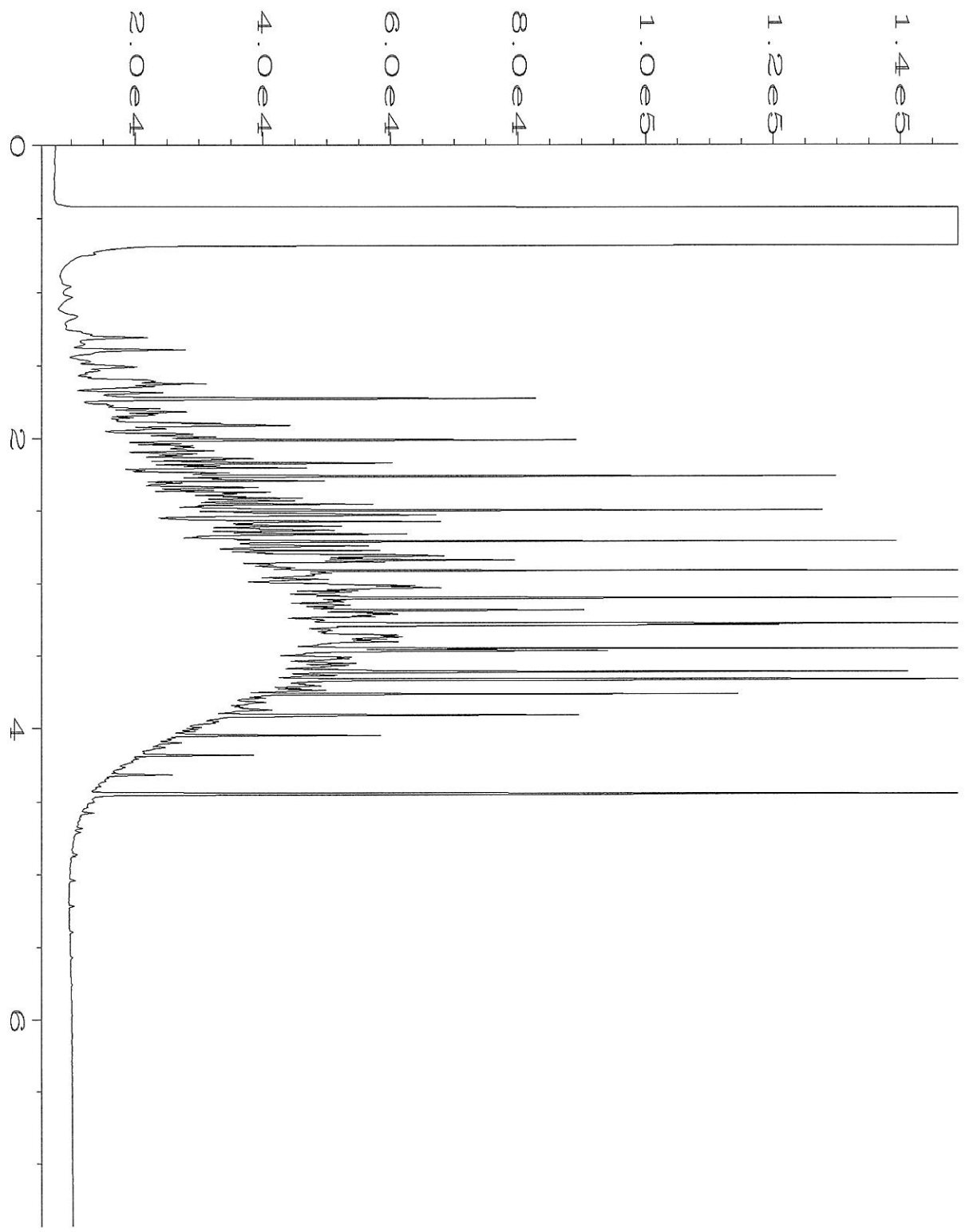


Data File Name	: C:\HPCHEM\1\DATA\10-19-22\013F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 13
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210253-04	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Oct 22 10:51 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	20 Oct 22 10:18 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-19-22\006F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 6
Instrument	: GC1	Injection Number	: 1
Sample Name	: 02-2543 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Oct 22 09:18 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	20 Oct 22 10:18 AM		





Data File Name	: C:\HPCHEM\1\DATA\10-19-22\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 66-186M	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 19 Oct 22 06:31 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	20 Oct 22 10:18 AM		

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.

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

October 24, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
350 Madison Ave. N.  
Bainbridge Island, WA 98110-1810

Dear Mr Griffin:

Included are the results from the testing of material submitted on October 19, 2022 from the Texaco Strickland 180357, F&BI 210272 project. There are 18 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1024R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 19, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 210272 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210272 -01	SW-W04-429
210272 -02	SW-N03-429
210272 -03	SW-N05-429
210272 -04	SW-N08-429
210272 -05	SW-N10-429
210272 -06	Trip Blank

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/24/22  
Date Received: 10/19/22  
Project: Texaco Strickland 180357, F&BI 210272  
Date Extracted: 10/21/22  
Date Analyzed: 10/21/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
SW-W04-429 210272-01	<5	94
SW-N03-429 210272-02	<5	107
SW-N05-429 210272-03	<5	105
SW-N08-429 210272-04	<5	103
SW-N10-429 210272-05	<5	107
Method Blank 02-2517 MB	<5	104

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/24/22  
Date Received: 10/19/22  
Project: Texaco Strickland 180357, F&BI 210272  
Date Extracted: 10/20/22  
Date Analyzed: 10/20/22

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

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
Trip Blank 210272-06	<100	58
Method Blank 02-2516 MB	<100	90

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/24/22  
Date Received: 10/19/22  
Project: Texaco Strickland 180357, F&BI 210272  
Date Extracted: 10/20/22  
Date Analyzed: 10/20/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-D<sub>x</sub>**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
SW-W04-429 210272-01	<50	<250	87
SW-N03-429 210272-02	<50	<250	94
SW-N05-429 210272-03	<50	<250	84
SW-N08-429 210272-04	<50	<250	90
SW-N10-429 210272-05	<50	<250	90
Method Blank 02-2547 MB2	<50	<250	68

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W04-429	Client:	Aspect Consulting, LLC
Date Received:	10/19/22	Project:	Texaco Strickland 180357, F&BI 210272
Date Extracted:	10/20/22	Lab ID:	210272-01
Date Analyzed:	10/20/22	Data File:	102010.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	0

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	0.057
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N03-429	Client:	Aspect Consulting, LLC
Date Received:	10/19/22	Project:	Texaco Strickland 180357, F&BI 210272
Date Extracted:	10/20/22	Lab ID:	210272-02
Date Analyzed:	10/20/22	Data File:	102011.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	0

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N05-429	Client:	Aspect Consulting, LLC
Date Received:	10/19/22	Project:	Texaco Strickland 180357, F&BI 210272
Date Extracted:	10/20/22	Lab ID:	210272-03
Date Analyzed:	10/20/22	Data File:	102014.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	0

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N08-429	Client:	Aspect Consulting, LLC
Date Received:	10/19/22	Project:	Texaco Strickland 180357, F&BI 210272
Date Extracted:	10/20/22	Lab ID:	210272-04
Date Analyzed:	10/20/22	Data File:	102015.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	0

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N10-429	Client:	Aspect Consulting, LLC
Date Received:	10/19/22	Project:	Texaco Strickland 180357, F&BI 210272
Date Extracted:	10/20/22	Lab ID:	210272-05
Date Analyzed:	10/20/22	Data File:	102016.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	0

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357, F&BI 210272
Date Extracted:	10/20/22	Lab ID:	02-2489 mb
Date Analyzed:	10/20/22	Data File:	102005.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	0

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	95	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Trip Blank	Client:	Aspect Consulting, LLC
Date Received:	10/19/22	Project:	Texaco Strickland 180357, F&BI 210272
Date Extracted:	10/20/22	Lab ID:	210272-06
Date Analyzed:	10/20/22	Data File:	102009.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	106	84	115
4-Bromofluorobenzene	104	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357, F&BI 210272
Date Extracted:	10/20/22	Lab ID:	02-2490 mb
Date Analyzed:	10/20/22	Data File:	102007.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	106	84	115
4-Bromofluorobenzene	98	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/24/22

Date Received: 10/19/22

Project: Texaco Strickland 180357, F&BI 210272

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

Laboratory Code: 210272-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	100	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/24/22

Date Received: 10/19/22

Project: Texaco Strickland 180357, F&BI 210272

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

Laboratory Code: 210263-07 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	RPD (Limit 20)
Gasoline	ug/L (ppb)	250	270	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	ug/L (ppb)	1,000	115	69-134



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/24/22

Date Received: 10/19/22

Project: Texaco Strickland 180357, F&BI 210272

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

Laboratory Code: 210267-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	74	74	63-146	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	82	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/24/22

Date Received: 10/19/22

Project: Texaco Strickland 180357, F&BI 210272

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

Laboratory Code: 210272-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	0.052	69	75	29-129	8
Toluene	mg/kg (ppm)	1	<0.05	84	90	35-130	7
Ethylbenzene	mg/kg (ppm)	1	<0.05	87	94	32-137	8
m,p-Xylene	mg/kg (ppm)	2	<0.1	86	94	34-136	9
o-Xylene	mg/kg (ppm)	1	<0.05	88	96	33-134	9
Naphthalene	mg/kg (ppm)	1	<0.05	95	100	14-157	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	90	71-118
Toluene	mg/kg (ppm)	1	99	66-126
Ethylbenzene	mg/kg (ppm)	1	103	64-123
m,p-Xylene	mg/kg (ppm)	2	103	78-122
o-Xylene	mg/kg (ppm)	1	103	77-124
Naphthalene	mg/kg (ppm)	1	109	63-140

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/24/22

Date Received: 10/19/22

Project: Texaco Strickland 180357, F&BI 210272

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

Laboratory Code: 210275-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Benzene	ug/L (ppb)	10	<0.35	99	50-150
Toluene	ug/L (ppb)	10	<1	101	50-150
Ethylbenzene	ug/L (ppb)	10	<1	101	50-150
m,p-Xylene	ug/L (ppb)	20	<2	101	50-150
o-Xylene	ug/L (ppb)	10	<1	100	50-150
Naphthalene	ug/L (ppb)	10	<1	101	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Benzene	ug/L (ppb)	10	102	98	70-130	4
Toluene	ug/L (ppb)	10	104	99	70-130	5
Ethylbenzene	ug/L (ppb)	10	105	100	70-130	5
m,p-Xylene	ug/L (ppb)	20	105	100	70-130	5
o-Xylene	ug/L (ppb)	10	104	98	70-130	6
Naphthalene	ug/L (ppb)	10	108	99	70-130	9

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The 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.

**SAMPLE CHAIN OF CUSTODY**

10/19/22

VS A2 / W01 / C02  
Page # \_\_\_\_\_ of \_\_\_\_\_

210272

Report for Adrian Griffin, Daniel Babcock

Company Aspect Consulting

Address 110 2nd Ave STE 550

City, State, ZIP Seattle, WA

Phone \_\_\_\_\_ Email \_\_\_\_\_

SAMPLERS (signature)  
[Signature]

PROJECT NAME

Hexa 10 - Shuckford

PO #

180257

REMARKS

INVOICE TO

Project specific RIs? - Yes / No

**ANALYSES REQUESTED**

- NWTPH-Dx
- NWTPH-Gx
- BTEX EPA 8021
- NWTPH-HCID
- VOCs EPA 8260
- PAHs EPA 8270
- PCBs EPA 8082

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				
SW-N04-429	01 A-E	10/19/22	8:55	S	5	X	X	X								
SW-N03-429	02		11:10													
SW-N05-429	03		11:15													
SW-N08-429	04		11:26													
SW-N09-429	05		11:25													
TMP BLANK	06 AB				2											No Data
																per DB 10/19/22 ME

Samples received at 3 °C

TURNAROUND TIME

Standard turnaround

RUSH 48-Hr

Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL

Archive samples

Other

Default: Dispose after 30 days

SIGNATURE

PRINT NAME

COMPANY

DATE TIME

Relinquished by: [Signature]

Adrian Robinson

ASPECT

10/19/22

16:02

Received by: [Signature]

Adrian Wright

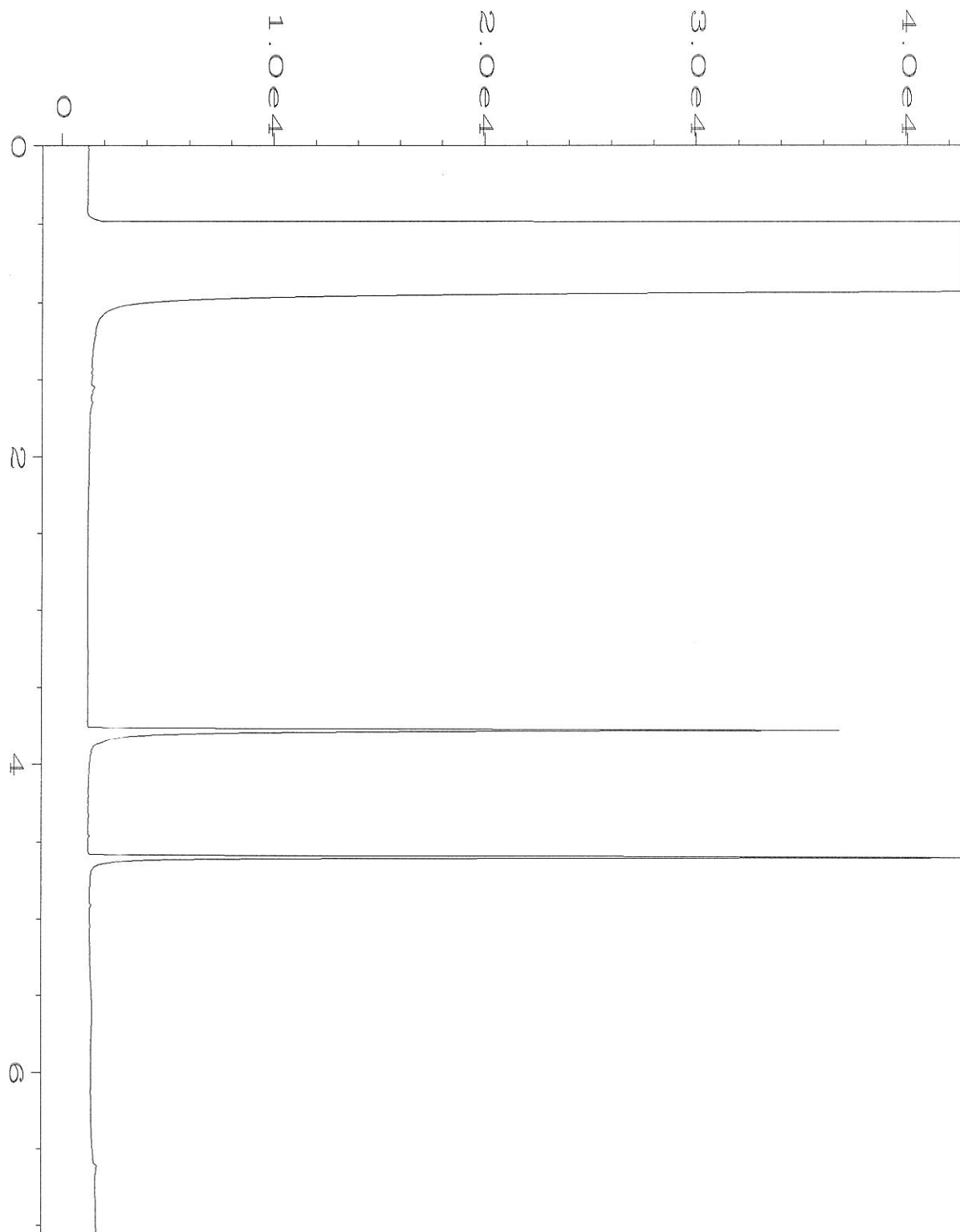
FAB I

10/19/22

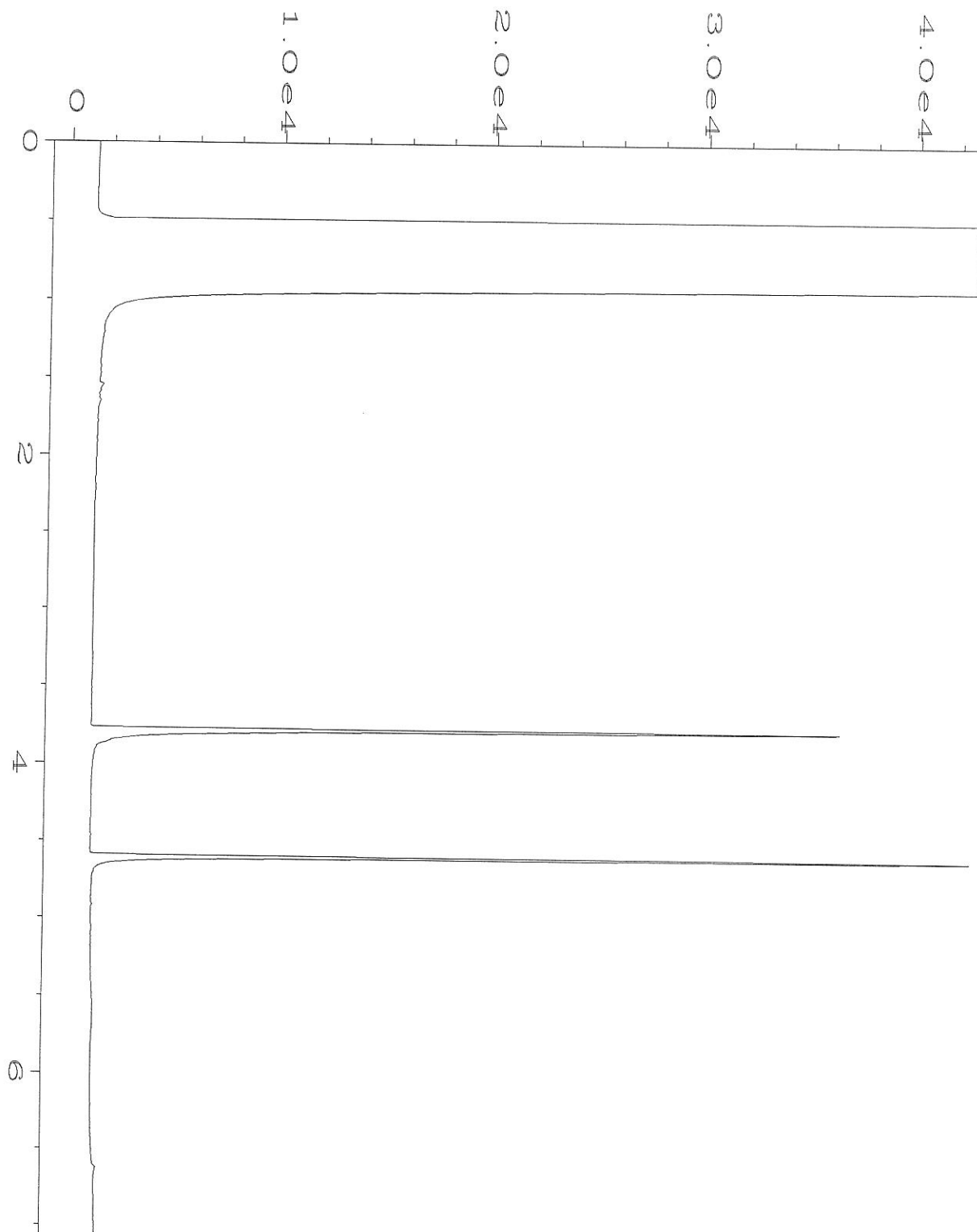
16:02

Received by: \_\_\_\_\_

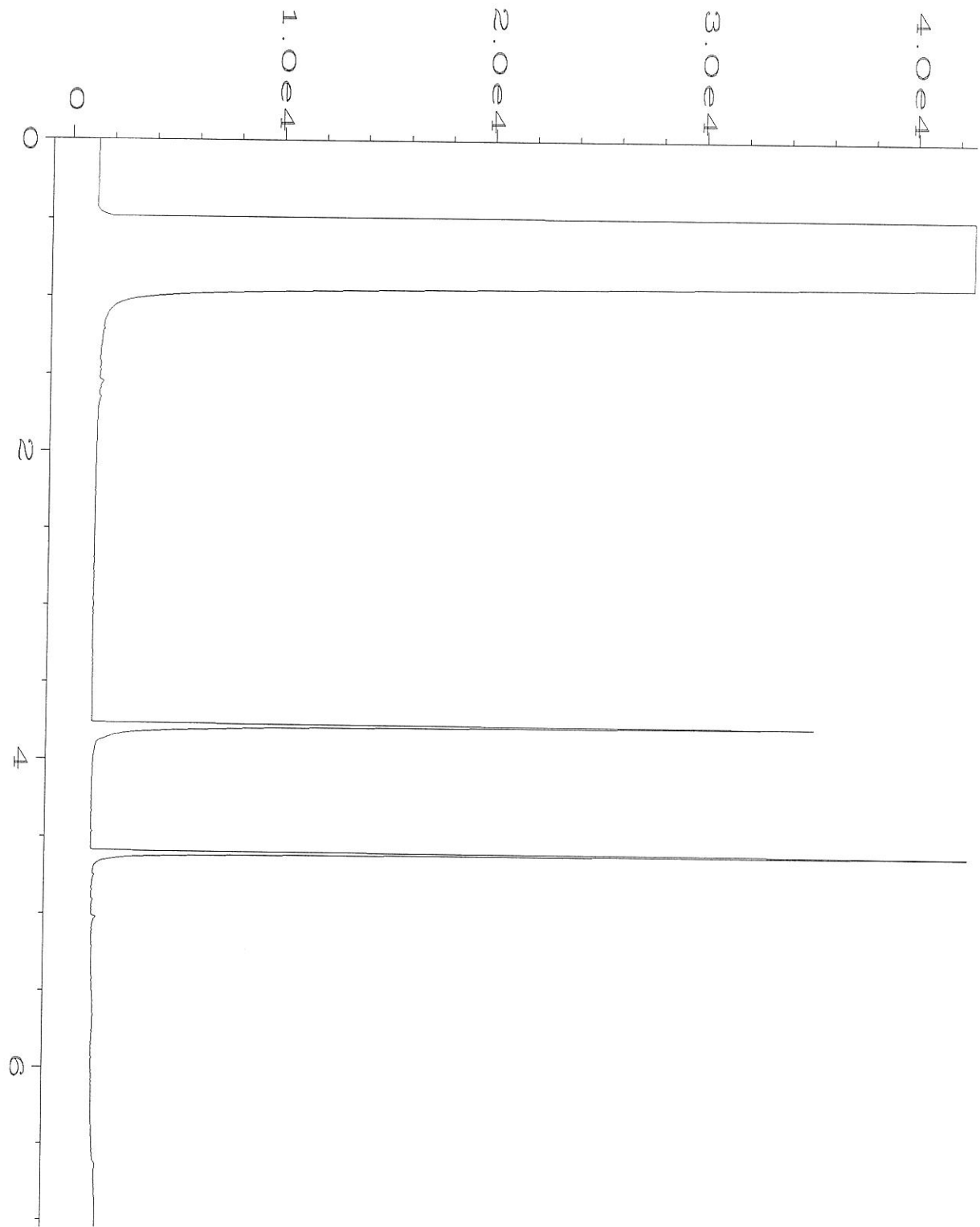
Friedman & Bruya, Inc.  
Ph. (206) 285-8282



Data File Name	: C:\HPCHEM\4\DATA\10-20-22\012F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 12
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210272-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 Oct 22 09:33 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	21 Oct 22 09:37 AM		

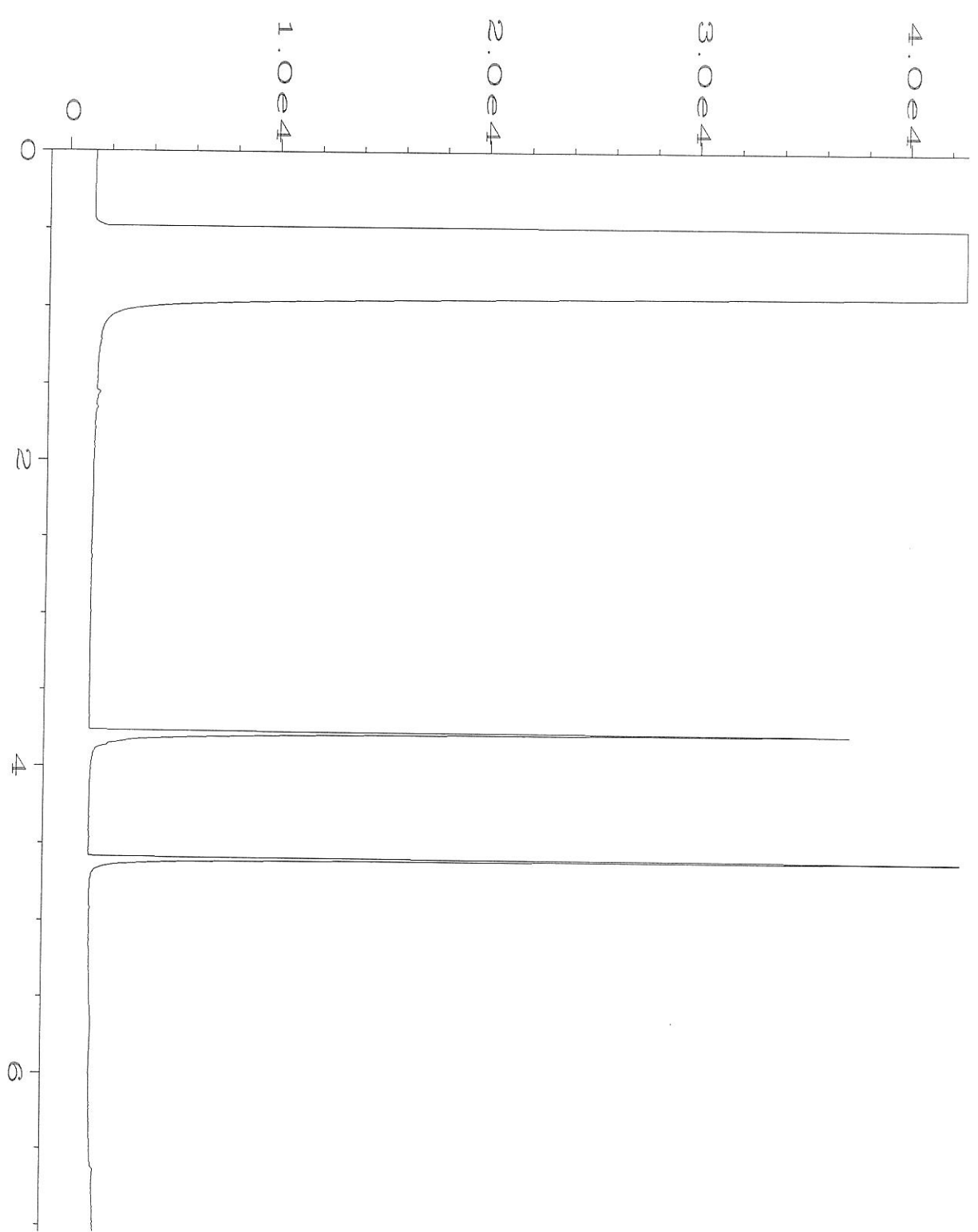


Data File Name	: C:\HPCHEM\4\DATA\10-20-22\013F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 13
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210272-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 Oct 22 09:45 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	21 Oct 22 09:37 AM		

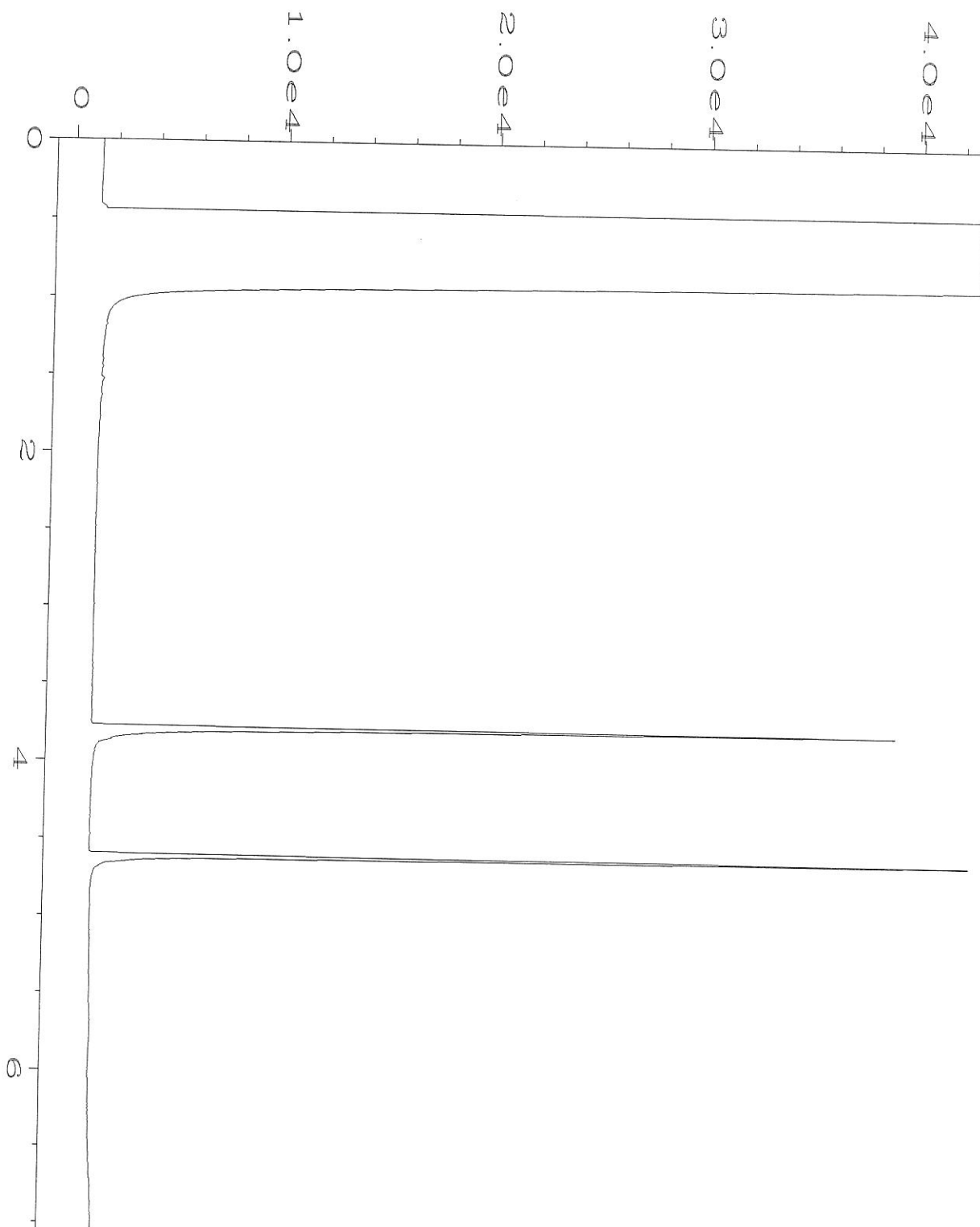


Data File Name	: C:\HPCHEM\4\DATA\10-20-22\014F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 14
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210272-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 Oct 22 09:56 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	21 Oct 22 09:37 AM		

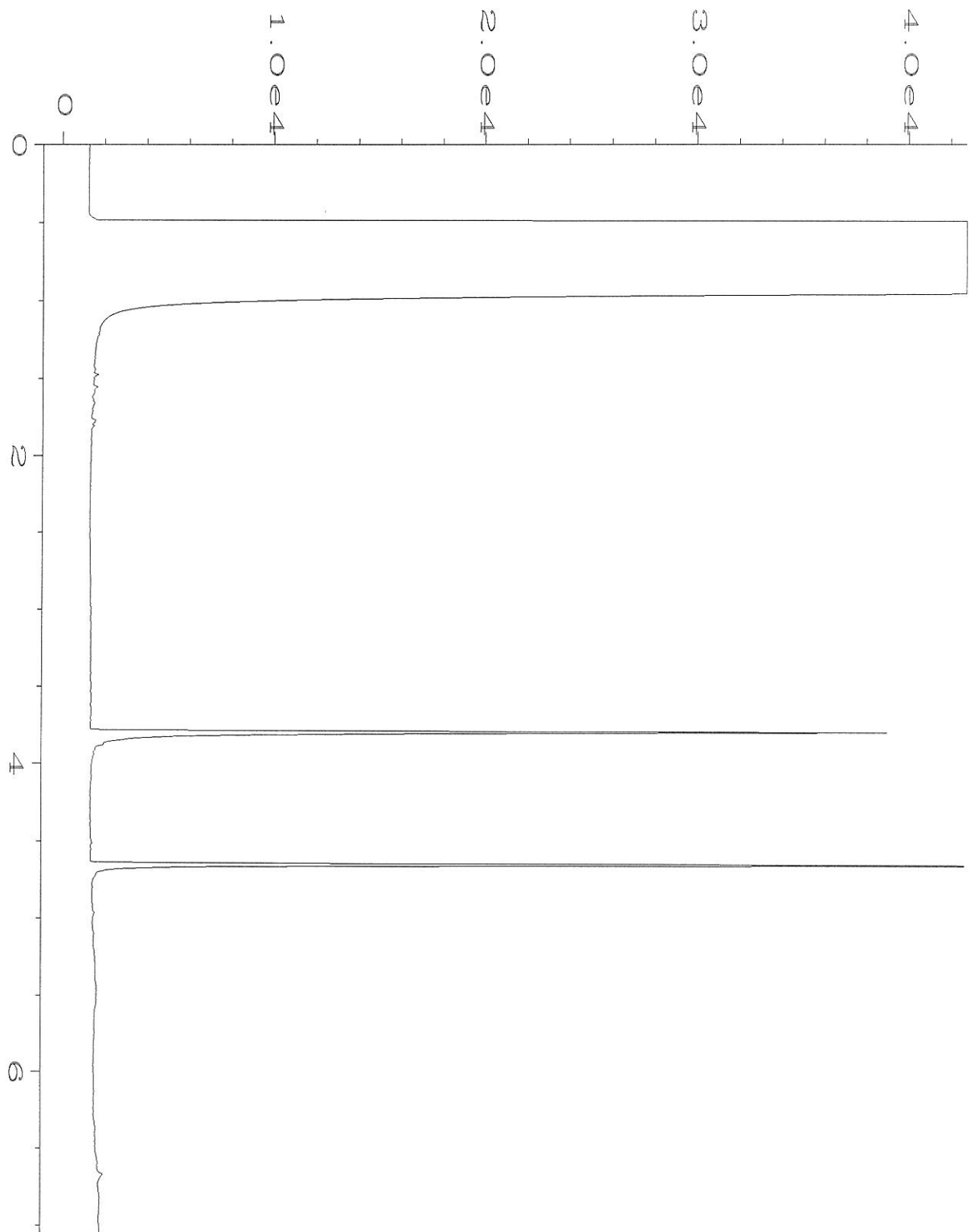




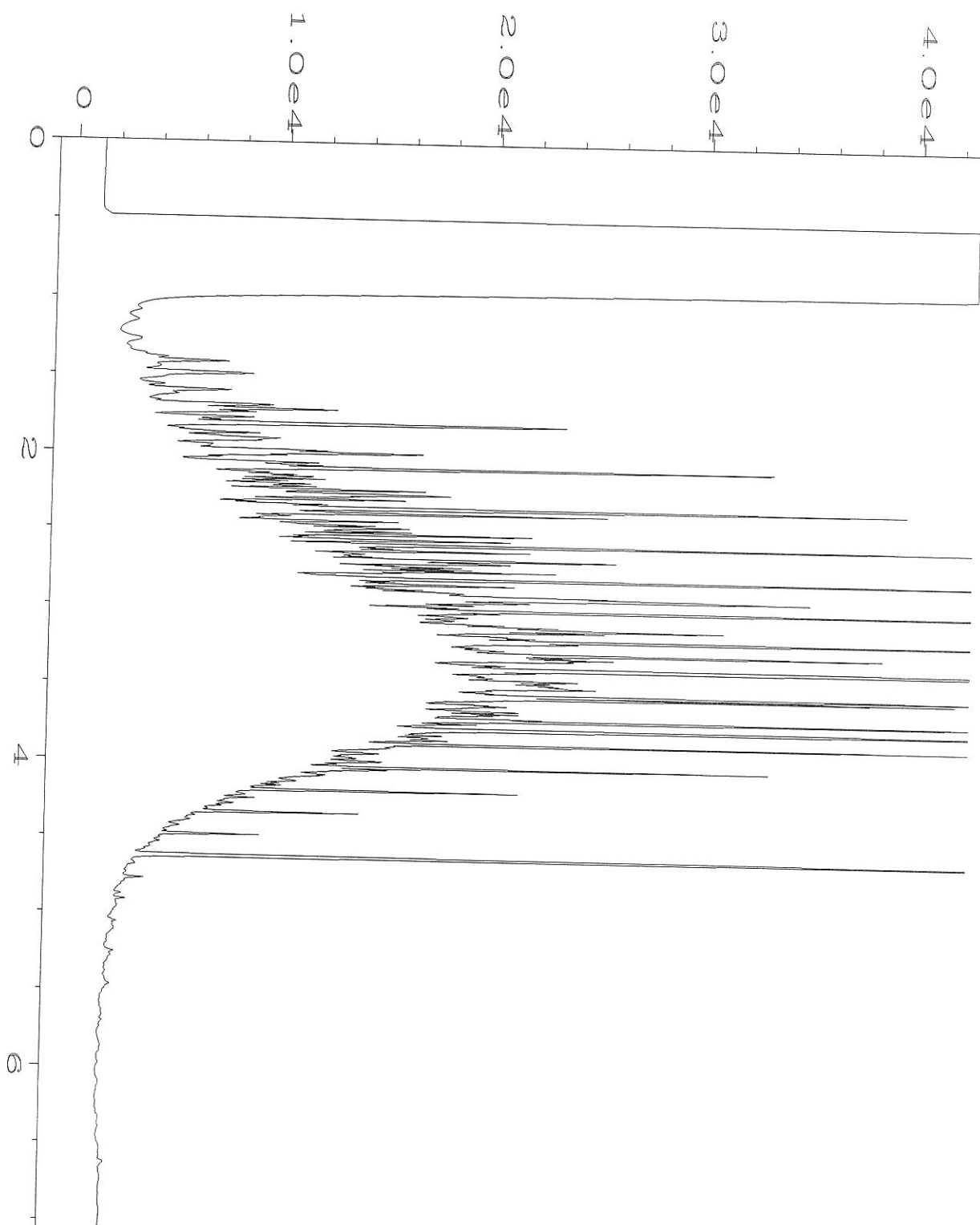
Data File Name	: C:\HPCHEM\4\DATA\10-20-22\015F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 15
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210272-04	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 Oct 22 10:07 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	21 Oct 22 09:38 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-20-22\016F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 16
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210272-05	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 Oct 22 10:18 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	21 Oct 22 09:38 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-20-22\006F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 6
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 02-2547 mb2	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 20 Oct 22 08:28 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	21 Oct 22 09:38 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-20-22\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 66-186M	Sequence Line	: 2
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 20 Oct 22 06:51 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	21 Oct 22 09:39 AM		

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.

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

October 26, 2022

Daniel Babcock, Project Manager  
Aspect Consulting, LLC  
710 2<sup>nd</sup> Ave S, Suite 550  
Seattle, WA 98104

Dear Mr Babcock:

Included are the results from the testing of material submitted on October 21, 2022 from the Texaco Strickland 180357, F&BI 210320 project. There are 29 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Adam Griffin  
ASP1026R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 21, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 210320 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210320 -01	B-N04-W04-427
210320 -02	B-N04-W06-427
210320 -03	B-N04-W11-427
210320 -04	B-N04-W14-429
210320 -05	B-N04-W16-429
210320 -06	B-N07-W16-429
210320 -07	B-N99-W99-429
210320 -08	B-N10-W16-429
210320 -09	B-N07-W14-429
210320 -10	SW-W09-425
210320 -11	SW-W05-425
210320 -12	SW-W06-425
210320 -13	SW-W12-425
210320 -14	SW-W14-425
210320 -15	Trip Blank 102122

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/26/22  
Date Received: 10/21/22  
Project: Texaco Strickland 180357, F&BI 210320  
Date Extracted: 10/24/22  
Date Analyzed: 10/24/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 58-139)
B-N04-W04-427 210320-01	<5	89
B-N04-W06-427 210320-02	<5	89
B-N04-W11-427 210320-03	<5	91
B-N04-W14-429 210320-04	<5	90
B-N04-W16-429 210320-05	<5	88
B-N07-W16-429 210320-06	<5	92
B-N99-W99-429 210320-07	<5	91
B-N10-W16-429 210320-08	<5	91
B-N07-W14-429 210320-09	<5	118
SW-W09-425 210320-10	<5	122

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/26/22  
Date Received: 10/21/22  
Project: Texaco Strickland 180357, F&BI 210320  
Date Extracted: 10/24/22  
Date Analyzed: 10/24/22

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

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 58-139)
SW-W05-425 210320-11	<5	120
SW-W06-425 210320-12	<5	105
SW-W12-425 210320-13	<5	119
SW-W14-425 210320-14	<5	118
Method Blank 02-2562 MB	<5	119



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/26/22

Date Received: 10/21/22

Project: Texaco Strickland 180357, F&BI 210320

Date Extracted: 10/24/22

Date Analyzed: 10/24/22

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS GASOLINE  
USING METHOD NWTPH-Gx**  
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)
Trip Blank 102122 210320-15	<100	121
Method Blank 02-2518 MB	<100	92

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/26/22  
 Date Received: 10/21/22  
 Project: Texaco Strickland 180357, F&BI 210320  
 Date Extracted: 10/24/22  
 Date Analyzed: 10/24/22

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

Results Reported on a Dry Weight Basis  
 Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
B-N04-W04-427 210320-01	<50	<250	74
B-N04-W06-427 210320-02	<50	<250	73
B-N04-W11-427 210320-03	<50	<250	71
B-N04-W14-429 210320-04	<50	<250	79
B-N04-W16-429 210320-05	<50	<250	75
B-N07-W16-429 210320-06	<50	<250	78
B-N99-W99-429 210320-07	<50	<250	73
B-N10-W16-429 210320-08	<50	<250	74
B-N07-W14-429 210320-09	<50	<250	73
SW-W09-425 210320-10	<50	<250	75
SW-W05-425 210320-11	<50	<250	70

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/26/22

Date Received: 10/21/22

Project: Texaco Strickland 180357, F&BI 210320

Date Extracted: 10/24/22

Date Analyzed: 10/24/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-D<sub>x</sub>**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
SW-W06-425 210320-12	<50	<250	80
SW-W12-425 210320-13	<50	<250	71
SW-W14-425 210320-14	<50	<250	73
Method Blank 02-2593 MB	<50	<250	104

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N04-W04-427	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-01
Date Analyzed:	10/24/22	Data File:	102406.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N04-W06-427	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-02
Date Analyzed:	10/24/22	Data File:	102407.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N04-W11-427	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-03
Date Analyzed:	10/24/22	Data File:	102408.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N04-W14-429	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-04
Date Analyzed:	10/24/22	Data File:	102409.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N04-W16-429	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-05
Date Analyzed:	10/24/22	Data File:	102410.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N07-W16-429	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-06
Date Analyzed:	10/24/22	Data File:	102411.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	102	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N99-W99-429	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-07
Date Analyzed:	10/24/22	Data File:	102412.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N10-W16-429	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-08
Date Analyzed:	10/24/22	Data File:	102413.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N07-W14-429	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-09
Date Analyzed:	10/24/22	Data File:	102414.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	105	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W09-425	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-10
Date Analyzed:	10/24/22	Data File:	102415.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	101	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W05-425	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-11
Date Analyzed:	10/24/22	Data File:	102416.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	0.045
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W06-425	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-12
Date Analyzed:	10/24/22	Data File:	102417.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	106	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W12-425	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-13
Date Analyzed:	10/24/22	Data File:	102418.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	106	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W14-425	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-14
Date Analyzed:	10/24/22	Data File:	102419.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	02-2493 mb
Date Analyzed:	10/24/22	Data File:	102405.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Trip Blank 102122	Client:	Aspect Consulting, LLC
Date Received:	10/21/22	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	210320-15
Date Analyzed:	10/24/22	Data File:	102410.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	78	126
Toluene-d8	106	84	115
4-Bromofluorobenzene	100	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357
Date Extracted:	10/24/22	Lab ID:	02-2494 mb
Date Analyzed:	10/24/22	Data File:	102407.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	78	126
Toluene-d8	95	84	115
4-Bromofluorobenzene	91	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/26/22

Date Received: 10/21/22

Project: Texaco Strickland 180357, F&BI 210320

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

Laboratory Code: 210296-02 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	98	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/26/22

Date Received: 10/21/22

Project: Texaco Strickland 180357, F&BI 210320

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

Laboratory Code: 210343-01 (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	110	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/26/22

Date Received: 10/21/22

Project: Texaco Strickland 180357, F&BI 210320

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

Laboratory Code: 210330-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	82	82	63-146	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	82	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/26/22

Date Received: 10/21/22

Project: Texaco Strickland 180357, F&BI 210320

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

Laboratory Code: 210320-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	<0.03	79	82	29-129	4
Toluene	mg/kg (ppm)	1	<0.05	87	93	35-130	7
Ethylbenzene	mg/kg (ppm)	1	<0.05	89	95	32-137	7
m,p-Xylene	mg/kg (ppm)	2	<0.1	88	94	34-136	7
o-Xylene	mg/kg (ppm)	1	<0.05	89	93	33-134	4
Naphthalene	mg/kg (ppm)	1	<0.05	88	94	14-157	7

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	94	71-118
Toluene	mg/kg (ppm)	1	96	66-126
Ethylbenzene	mg/kg (ppm)	1	96	64-123
m,p-Xylene	mg/kg (ppm)	2	96	78-122
o-Xylene	mg/kg (ppm)	1	97	77-124
Naphthalene	mg/kg (ppm)	1	99	63-140



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/26/22

Date Received: 10/21/22

Project: Texaco Strickland 180357, F&BI 210320

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

Laboratory Code: 210263-07 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	
				Recovery MS	Acceptance Criteria
Benzene	ug/L (ppb)	10	<0.35	89	50-150
Toluene	ug/L (ppb)	10	<1	93	50-150
Ethylbenzene	ug/L (ppb)	10	<1	93	50-150
m,p-Xylene	ug/L (ppb)	20	<2	93	50-150
o-Xylene	ug/L (ppb)	10	<1	91	50-150
Naphthalene	ug/L (ppb)	10	<1	95	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent		Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Benzene	ug/L (ppb)	10	99	102	70-130	3
Toluene	ug/L (ppb)	10	92	97	70-130	5
Ethylbenzene	ug/L (ppb)	10	93	95	70-130	2
m,p-Xylene	ug/L (ppb)	20	93	96	70-130	3
o-Xylene	ug/L (ppb)	10	94	94	70-130	0
Naphthalene	ug/L (ppb)	10	97	95	70-130	2

# 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.

**SAMPLE CHAIN OF CUSTODY**

10/21/02 10/21/02 VS-102/VW3/C03

210320  
 Report # 210320 Bank 1 Edwards & Adam Griffin

Company Asper Consulting

Address \_\_\_\_\_

City, State, ZIP \_\_\_\_\_

Phone 316-617-0199 Email edwards@asperconsulting.com

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME <u>Texaco Structural</u>	PO # <u>180357</u>
REMARKS	INVOICE TO
Project specific RIs? - Yes / No	

Page # \_\_\_\_\_ of \_\_\_\_\_

TURNAROUND TIME

Standard turnaround  
 RUSH 24-hr  
 Rush charges authorized by: [Signature]

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						
B-N04-W04-427	01A-E	10/21/02	0720	Sm1	5	X	X								X			
B-N04-W06-427	02		0740															
B-N04-W11-427	03		0800															
B-N04-W14-429	04		0810															
B-N04-W16-429	05		0820															
B-N07-W16-429	06		0850															
B-N99-W99-429	07		0910															
B-N10-W16-429	08		0930															
B-N07-W14-429	09		0910															
SU-U09-425	10		1245															

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>		<u>Bank 1 Edwards</u>		<u>Asper</u>		<u>10/21/02</u>	<u>15:45</u>
Received by: <u>[Signature]</u>		<u>AMHPHAN</u>		<u>ESB</u>		<u>10/21/02</u>	<u>15:45</u>
Relinquished by:							
Received by:							
				Samples received at: <u>ESB</u>			

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

210320

SAMPLE CHAIN OF CUSTODY

10/21/22

VS-B2/VW3/003  
Page # of 2

Report To Dave Ebbel & Adam Griffin

SAMPLERS (signature) [Signature]

PROJECT NAME  
Texaco Shuckland

TURNAROUND TIME\*  
 Standard turnaround  
 RUSH 24-hr  
Rush charges authorized by: \_\_\_\_\_

Company Aspect Consulting

PO #  
180357

SAMPLE DISPOSAL  
 Archive samples  
 Other \_\_\_\_\_  
Default: Dispose after 30 days

Address \_\_\_\_\_  
City, State, ZIP \_\_\_\_\_

REMARKS  
Project specific RIS? - Yes / No

INVOICE TO

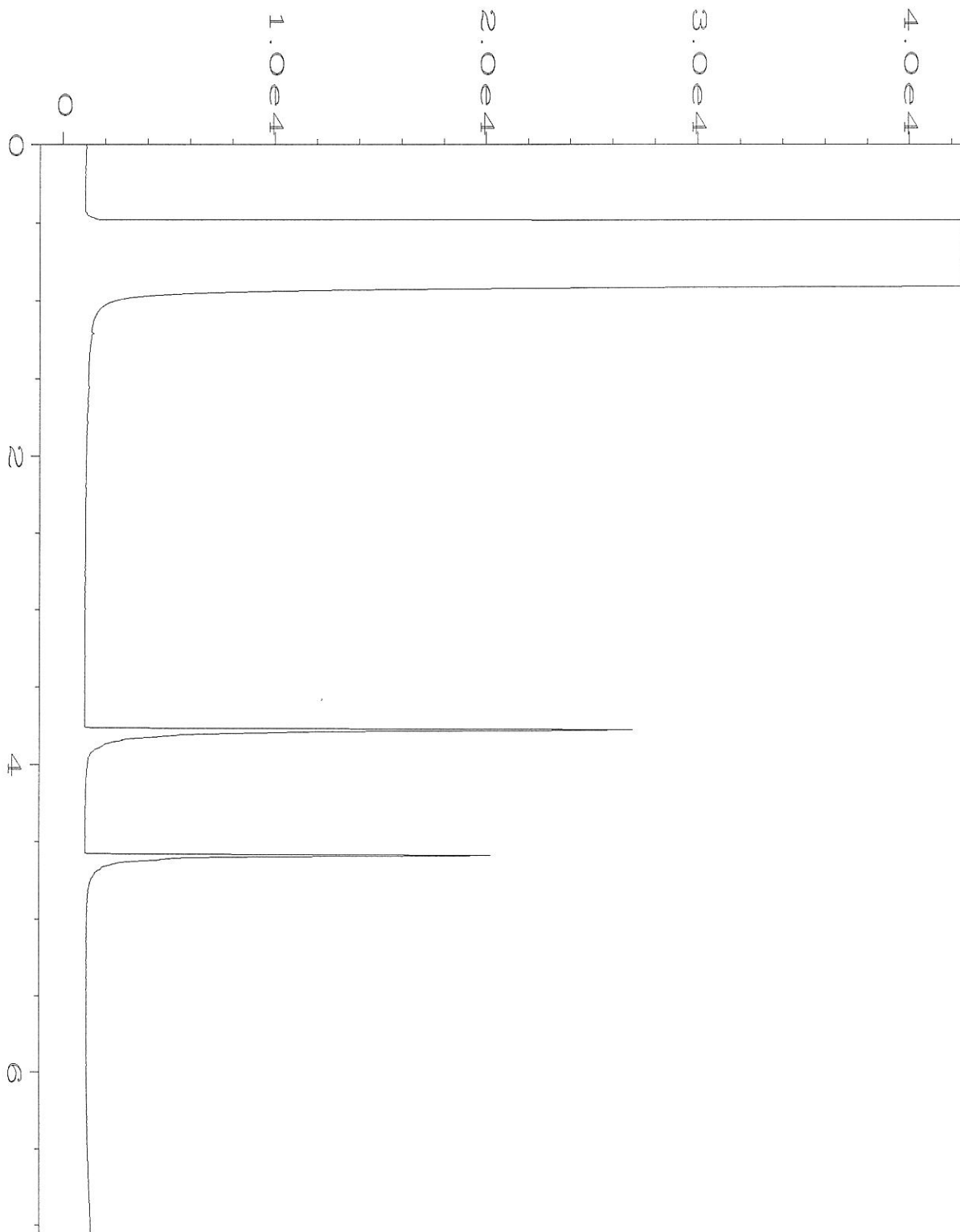
Phone 360-819-8199 Email adgriffin@aspectconsulting.com

ANALYSES REQUESTED

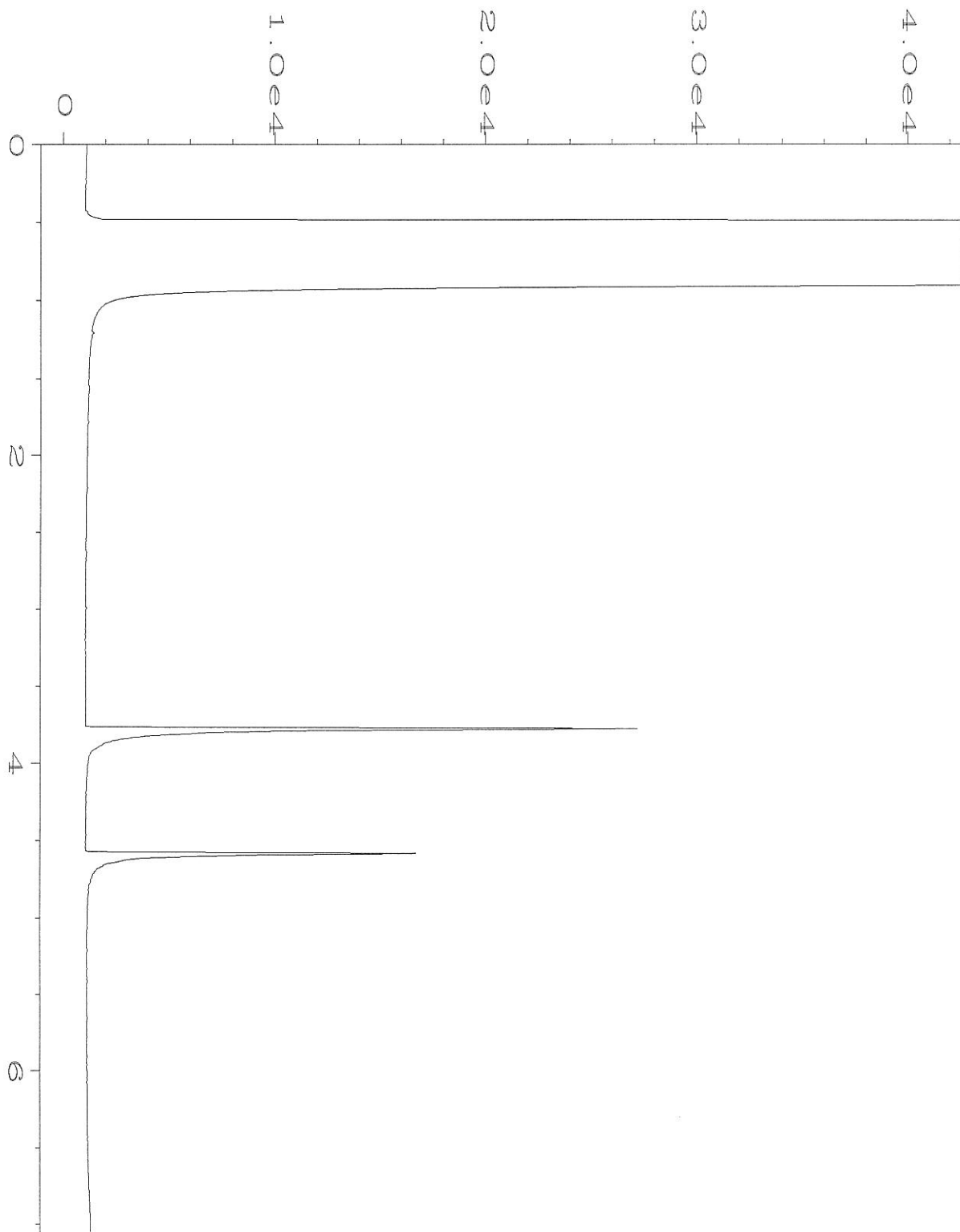
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes		
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082						
SW-W05-425	11 A-E	10/21/22	1220	soil	5	X	X											
SW-W06-425	12		1230	↓	↓													
SW-W12-425	13		1250	↓	↓													
SW-W14-425	14		1300	↓	↓													
Triphibank-102122	15			Water	2		X											

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Reinquished by: <u>[Signature]</u>		<u>Dave Ebbel</u>		<u>Aspect Consulting</u>		10/21/22	1545
Received by: <u>[Signature]</u>		<u>ADAM GRIFIN</u>		<u>EBB</u>		10/21/22	15:45
Reinquished by:							
Received by:							

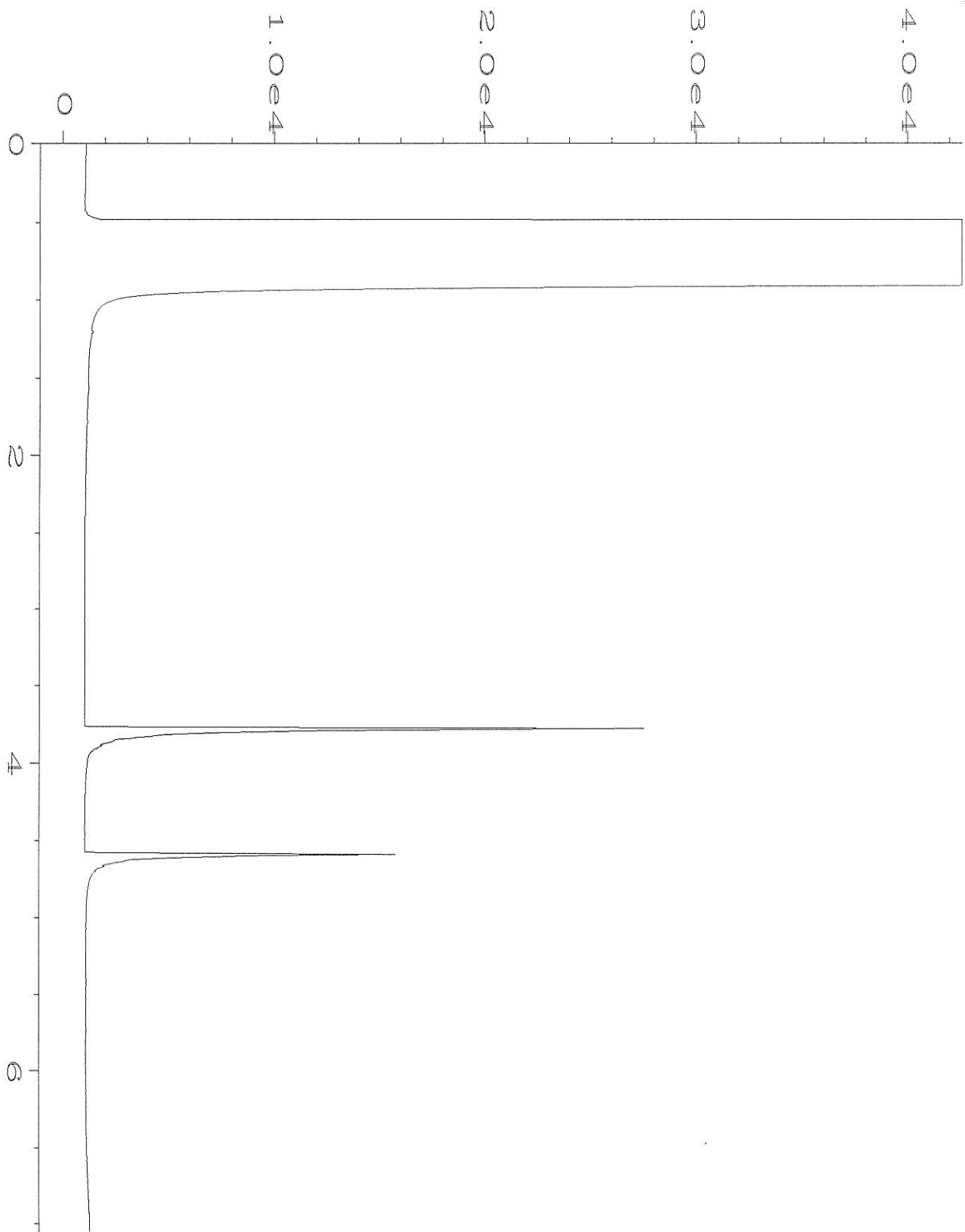
Friedman & Bruya, Inc.  
3012 16th Avenue West  
Seattle, WA 98119-2029  
Ph. (206) 285-8282



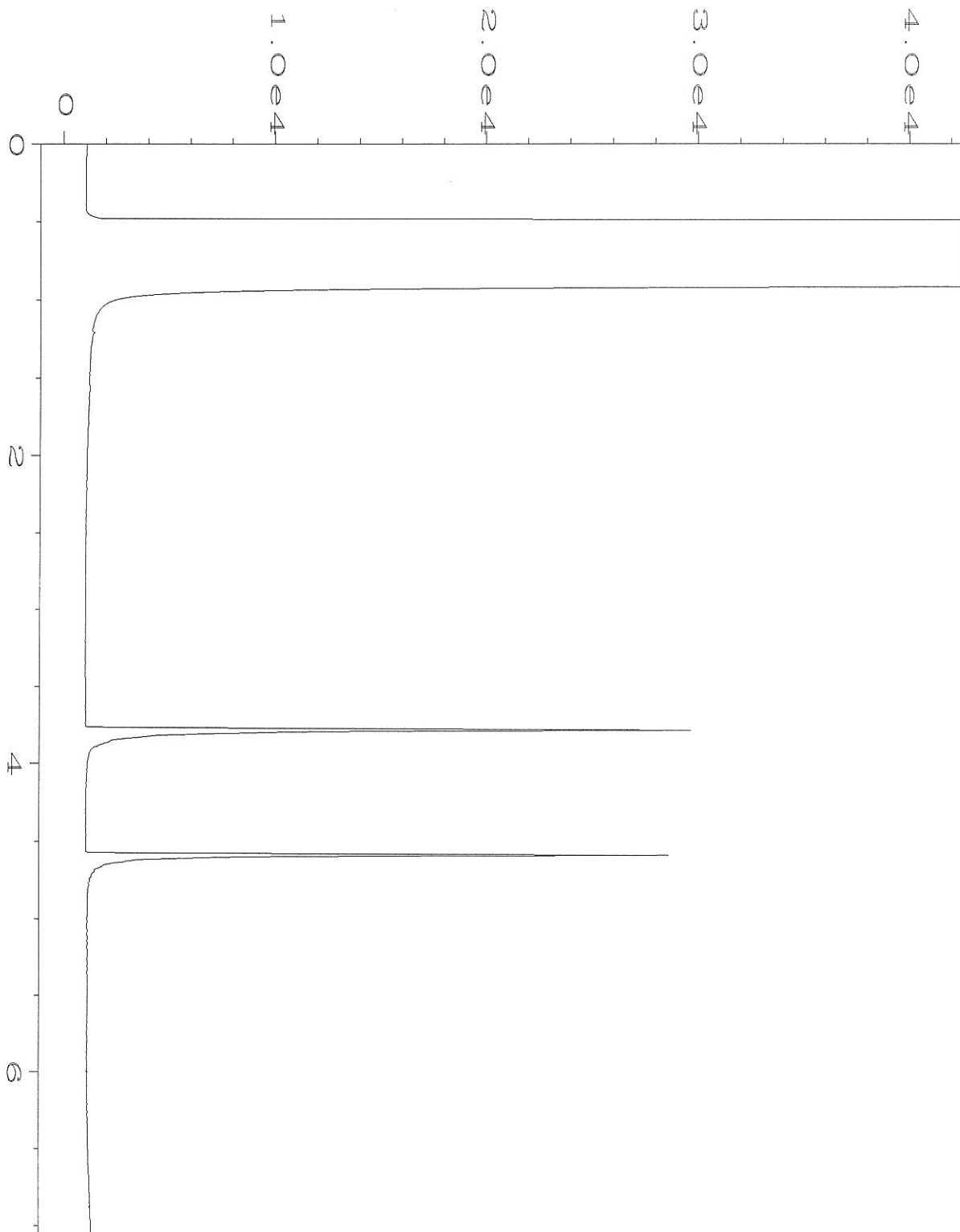
Data File Name	: C:\HPCHEM\4\DATA\10-24-22\026F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 26
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 12:26 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 08:48 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-24-22\027F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 27
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 12:37 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 08:48 AM		

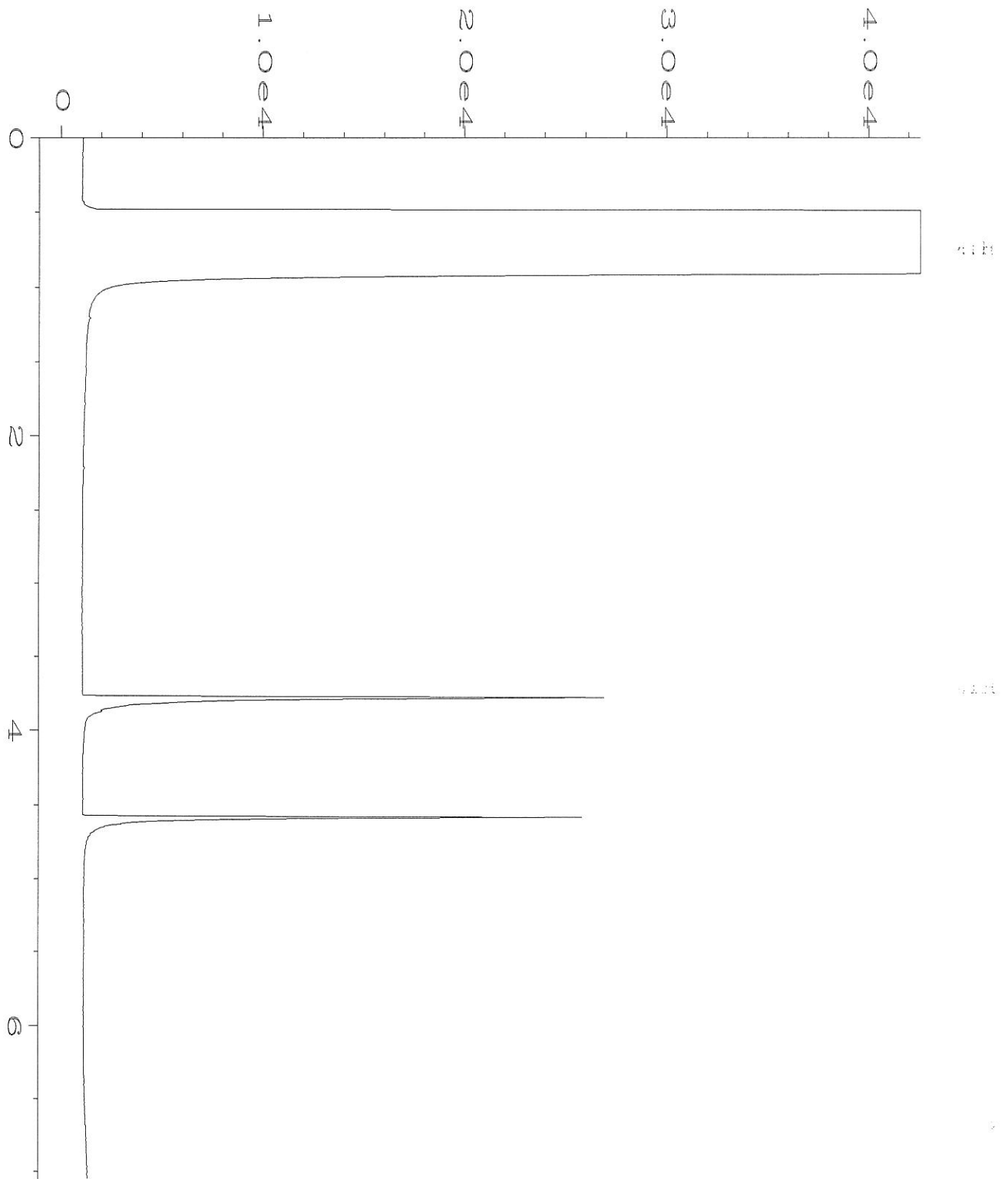


Data File Name	: C:\HPCHEM\4\DATA\10-24-22\028F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 28
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 12:49 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 09:02 AM		

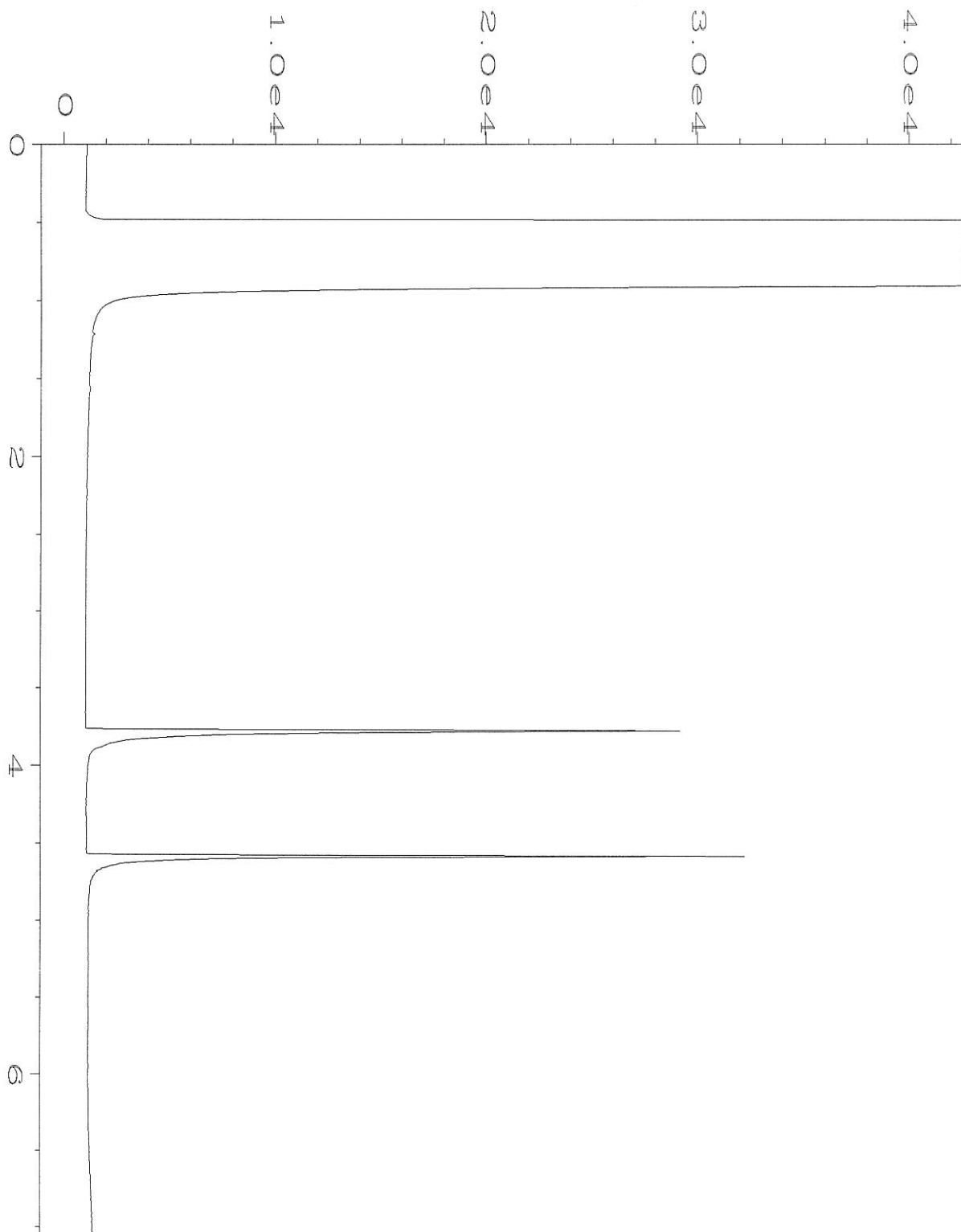


Data File Name	: C:\HPCHEM\4\DATA\10-24-22\029F0501.D	Page Number	: 1
Operator	: TL	Vial Number	: 29
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-04	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 01:23 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 09:02 AM		

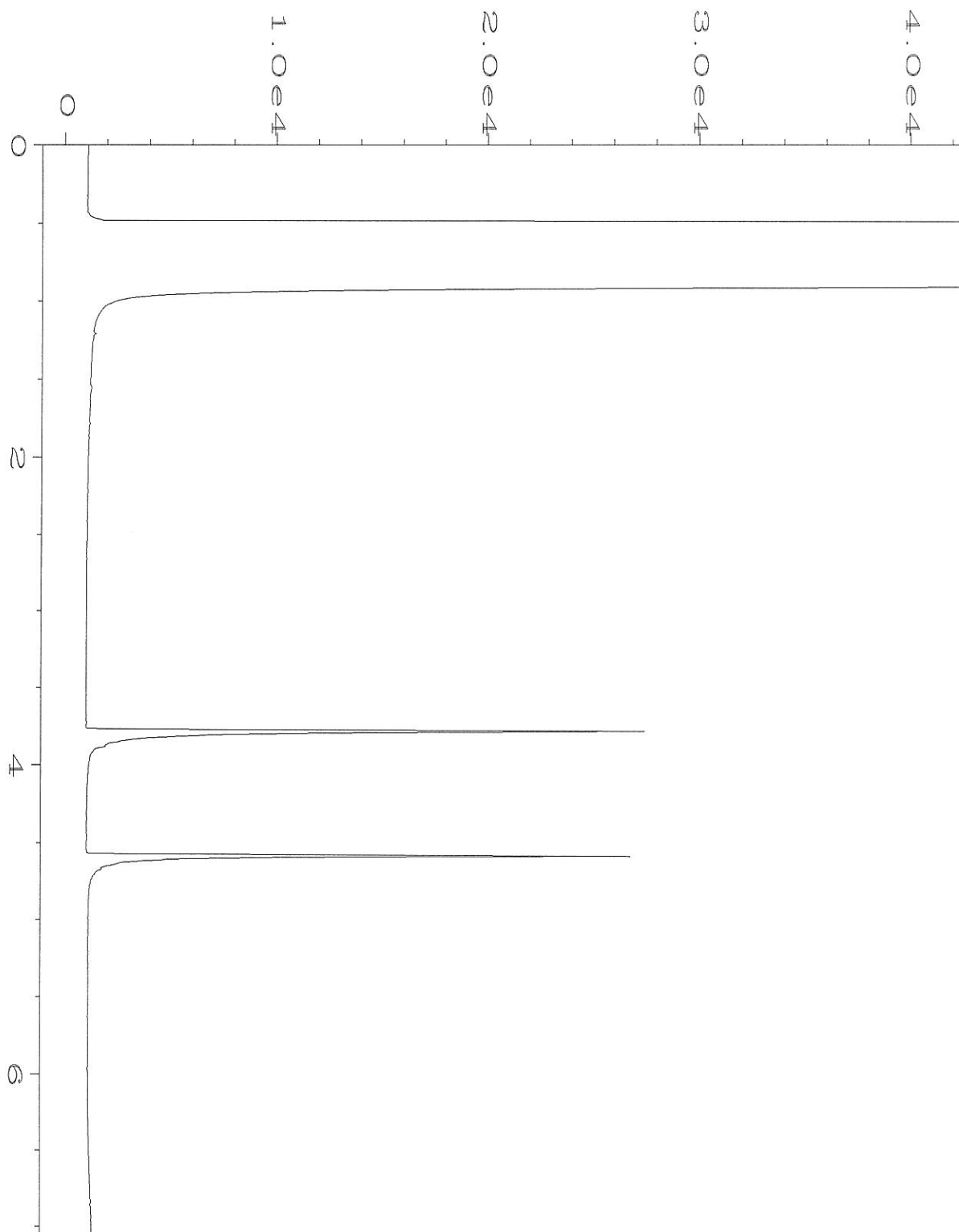




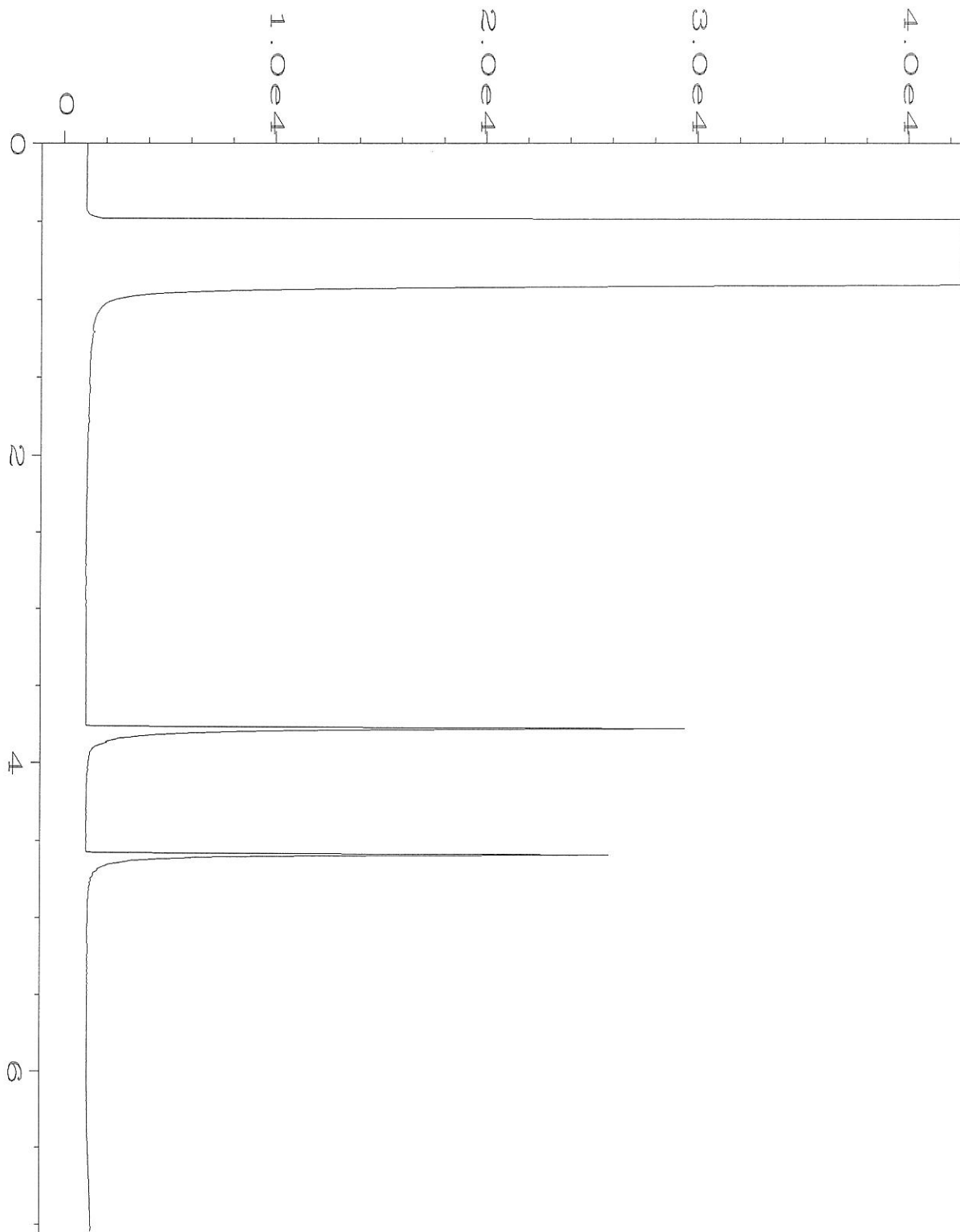
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Operator	: TL	Vial Number	: 30
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-05	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 01:34 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 09:02 AM		



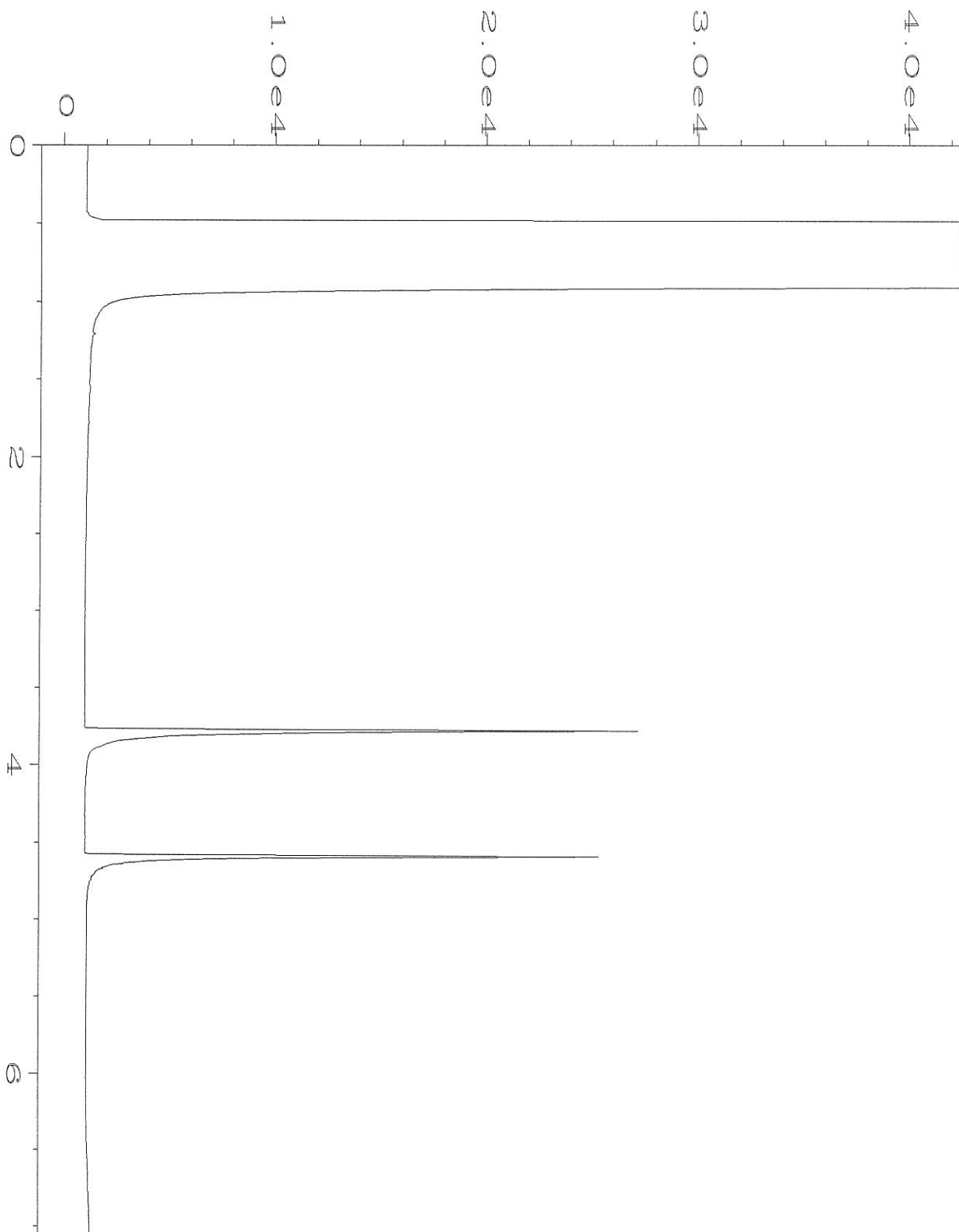
Data File Name	: C:\HPCHEM\4\DATA\10-24-22\031F0801.D	Page Number	: 1
Operator	: TL	Vial Number	: 31
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-06	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 02:32 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 09:06 AM		



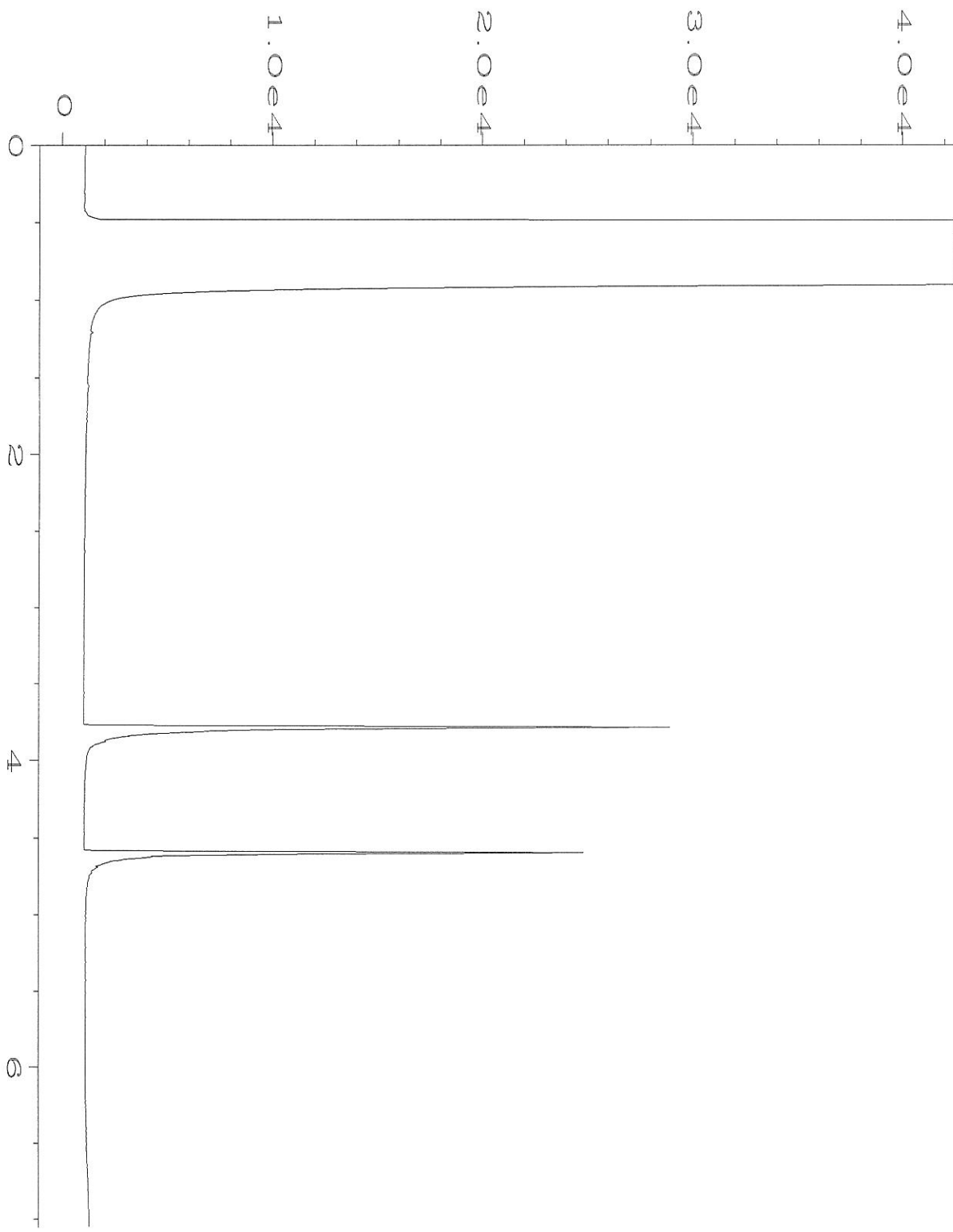
Data File Name	: C:\HPCHEM\4\DATA\10-24-22\032F0801.D	Page Number	: 1
Operator	: TL	Vial Number	: 32
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-07	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 02:43 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 09:06 AM		



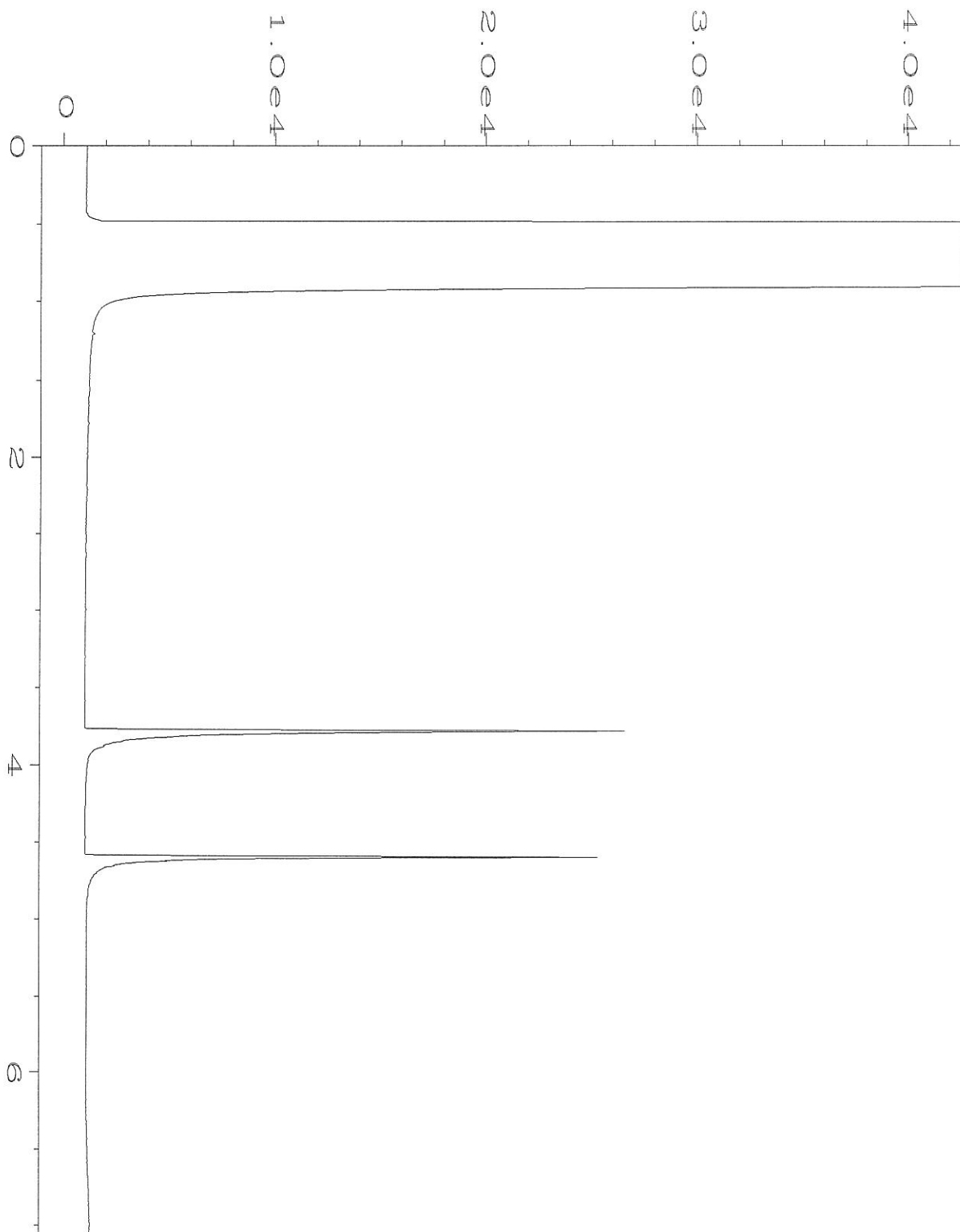
Data File Name	: C:\HPCHEM\4\DATA\10-24-22\033F0801.D	Page Number	: 1
Operator	: TL	Vial Number	: 33
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-08	Sequence Line	: 8
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 02:55 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 09:07 AM		



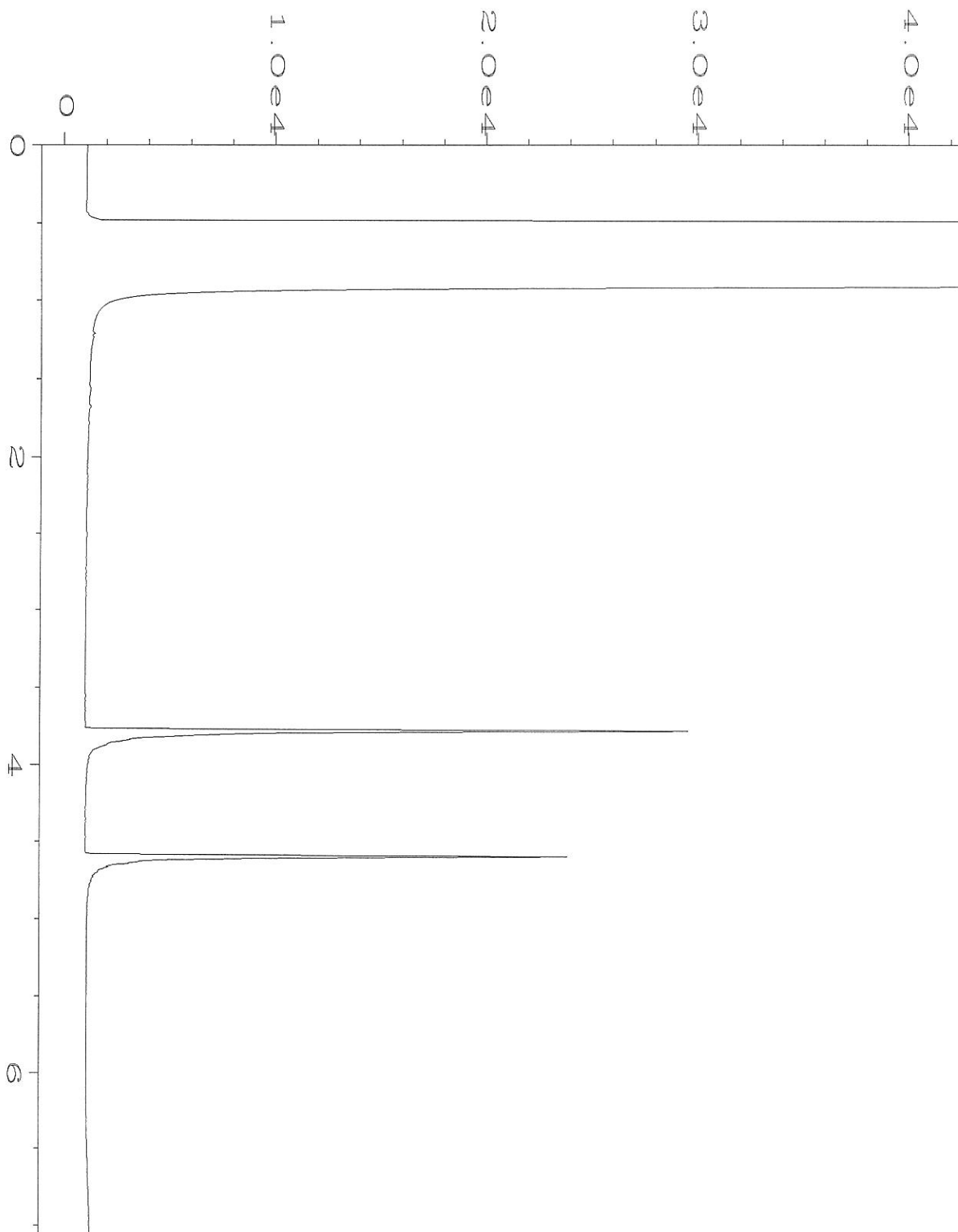
Data File Name	: C:\HPCHEM\4\DATA\10-24-22\034F1001.D	Page Number	: 1
Operator	: TL	Vial Number	: 34
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-09	Sequence Line	: 10
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 03:17 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 09:07 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-24-22\035F1001.D	Page Number	: 1
Operator	: TL	Vial Number	: 35
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-10	Sequence Line	: 10
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 03:29 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 09:07 AM		

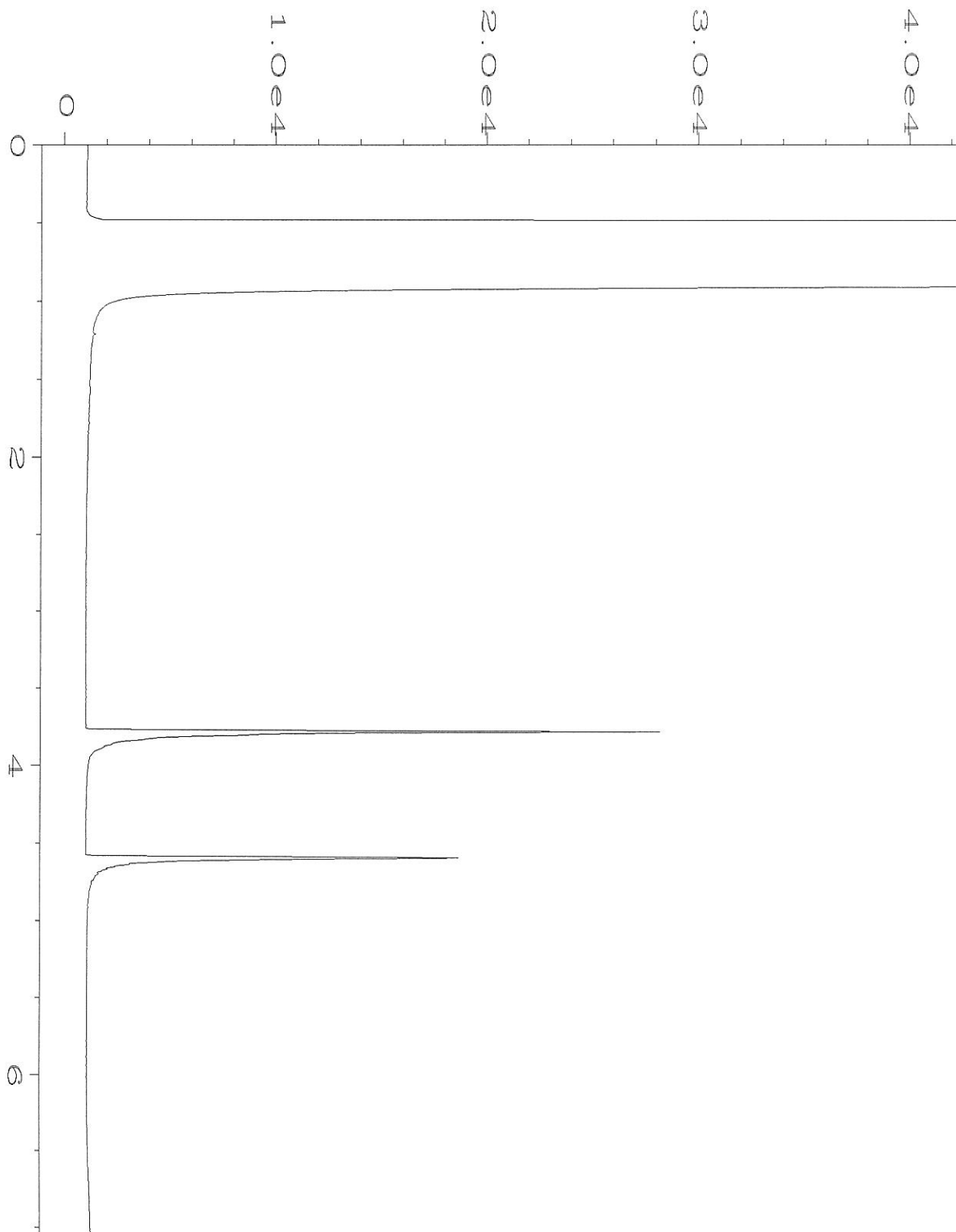


Data File Name	: C:\HPCHEM\4\DATA\10-24-22\036F1001.D	Page Number	: 1
Operator	: TL	Vial Number	: 36
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-11	Sequence Line	: 10
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 03:40 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 09:07 AM		

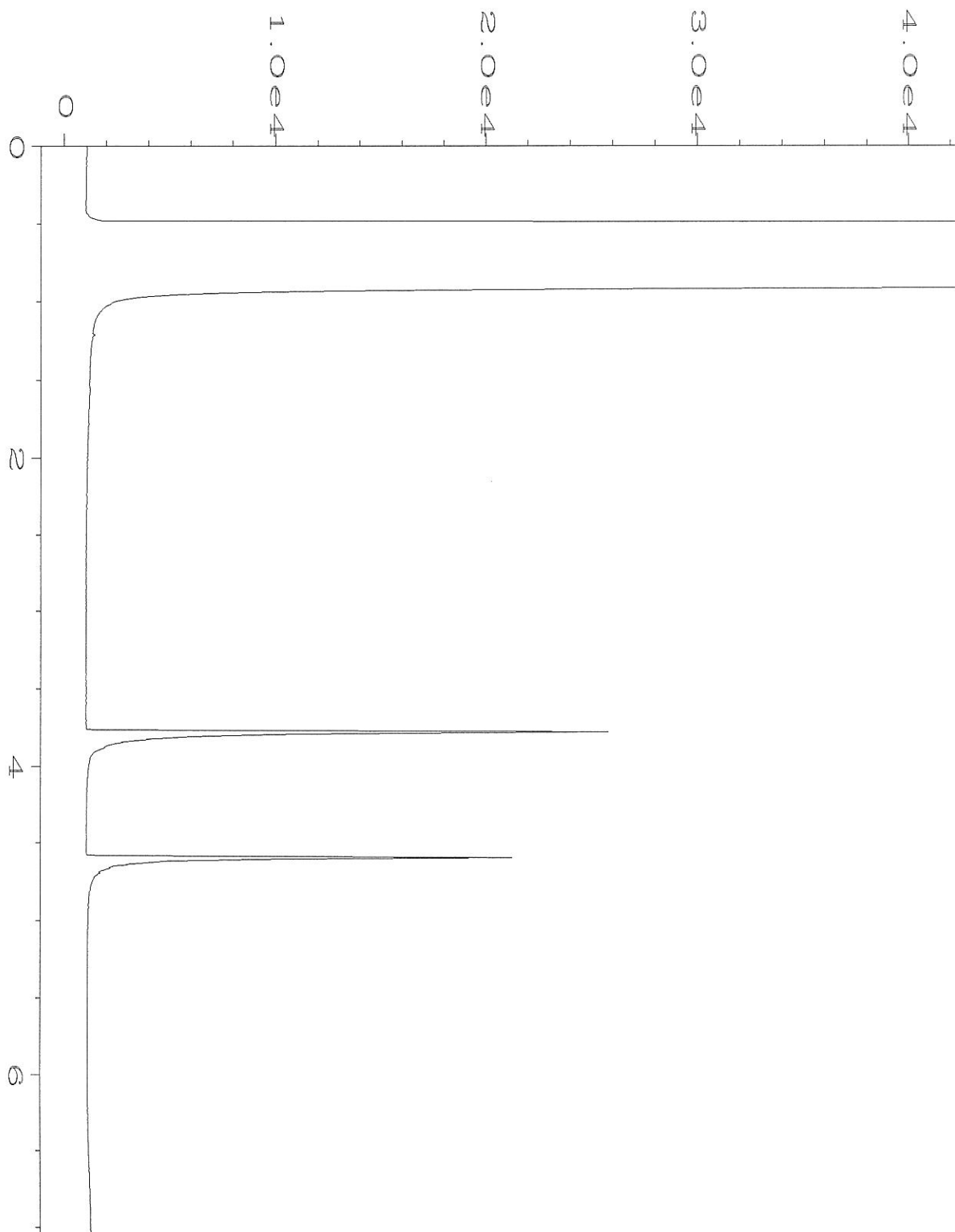


Data File Name	: C:\HPCHEM\4\DATA\10-24-22\037F1001.D	Page Number	: 1
Operator	: TL	Vial Number	: 37
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-12	Sequence Line	: 10
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 03:52 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 09:08 AM		

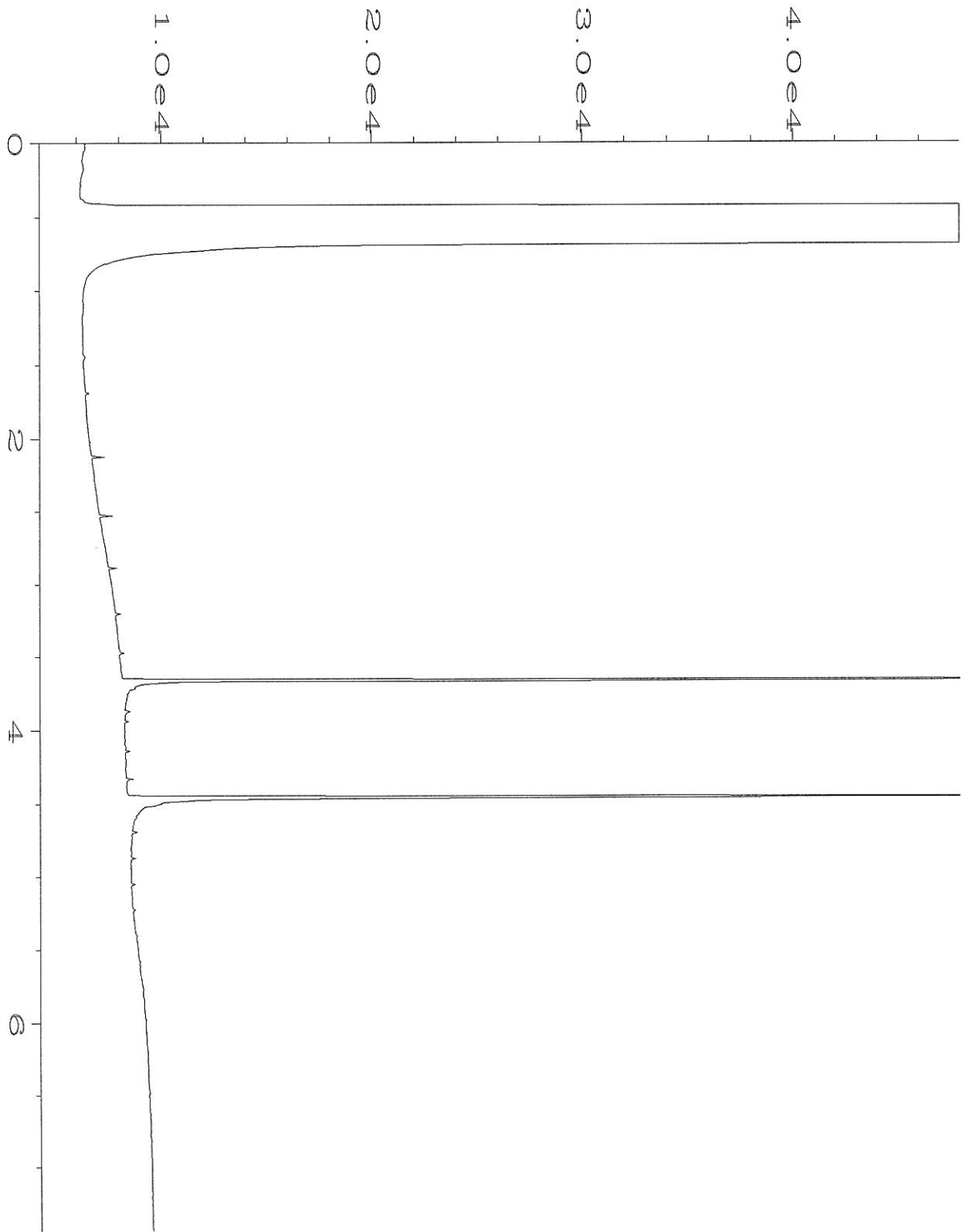




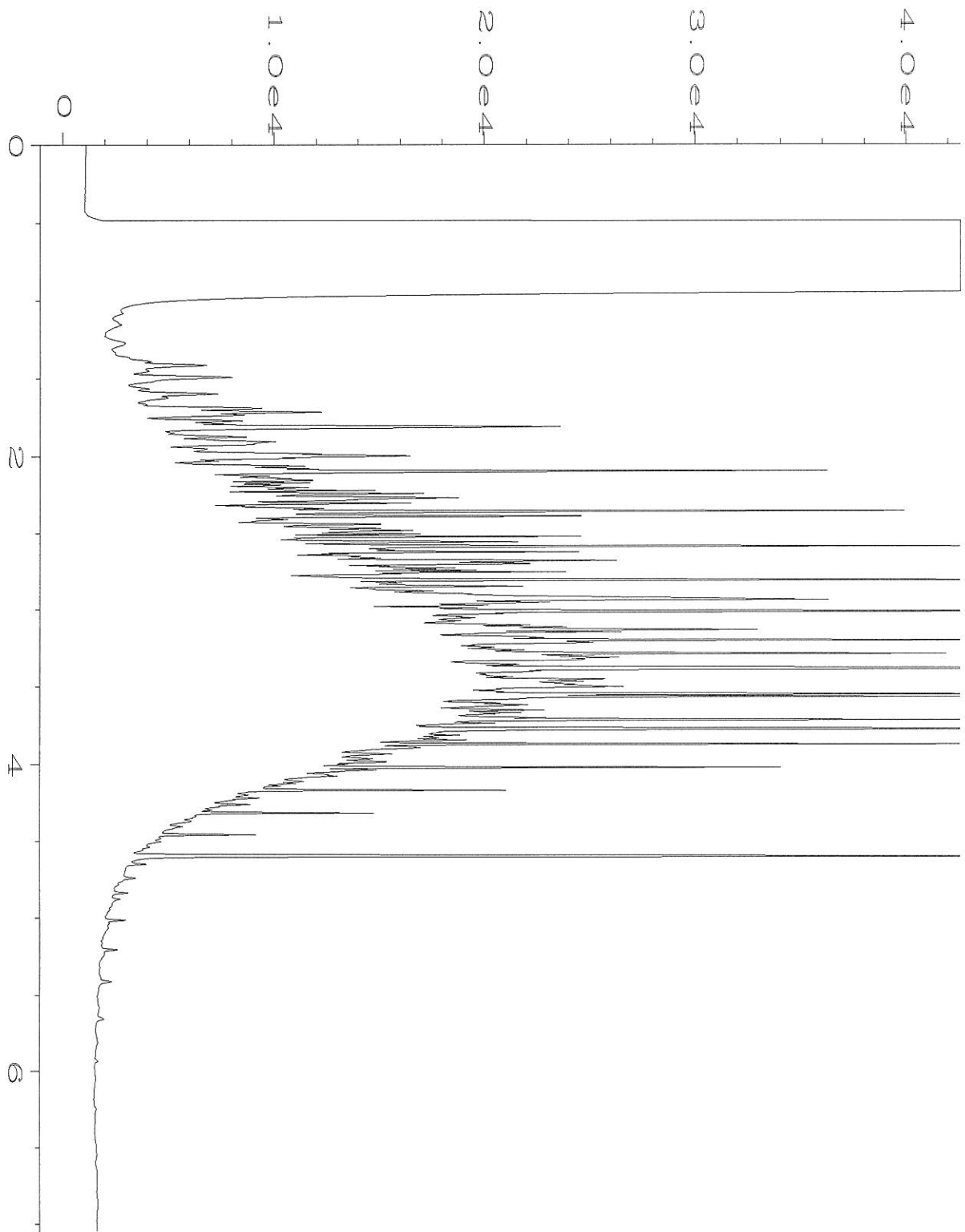
Data File Name	: C:\HPCHEM\4\DATA\10-24-22\038F1001.D	Page Number	: 1
Operator	: TL	Vial Number	: 38
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-13	Sequence Line	: 10
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 04:03 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 09:08 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-24-22\039F1001.D	Page Number	: 1
Operator	: TL	Vial Number	: 39
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210320-14	Sequence Line	: 10
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 04:14 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 09:08 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-24-22\006F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 6
Instrument	: GC1	Injection Number	: 1
Sample Name	: 02-2593 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 09:42 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 08:43 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-24-22\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 66-186M	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 24 Oct 22 05:51 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	25 Oct 22 09:05 AM		

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.

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

October 28, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
350 Madison Ave. N.  
Bainbridge Island, WA 98110-1810

Dear Mr Griffin:

Included are the results from the testing of material submitted on October 25, 2022 from the Texaco Strickland 180357, F&BI 210372 project. There are 11 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1028R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 25, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 210372 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210372 -01	SW-W06-421
210372 -02	SW-W08-421
210372 -03	SW-W11-421

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/25/22

Project: Texaco Strickland 180357, F&BI 210372

Date Extracted: 10/26/22

Date Analyzed: 10/26/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 58-139)
SW-W06-421 210372-01	<5	92
SW-W08-421 210372-02	<5	90
SW-W11-421 210372-03	<5	90
Method Blank 02-2567 mb	<5	93

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/25/22

Project: Texaco Strickland 180357, F&BI 210372

Date Extracted: 10/25/22

Date Analyzed: 10/25/22

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-D<sub>x</sub>**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
SW-W06-421 210372-01	<50	<250	76
SW-W08-421 210372-02	<50	<250	76
SW-W11-421 210372-03	<50	<250	55
Method Blank 02-2605 MB2	<50	<250	64



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W06-421	Client:	Aspect Consulting, LLC
Date Received:	10/25/22	Project:	Texaco Strickland 180357
Date Extracted:	10/26/22	Lab ID:	210372-01
Date Analyzed:	10/26/22	Data File:	102606.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W08-421	Client:	Aspect Consulting, LLC
Date Received:	10/25/22	Project:	Texaco Strickland 180357
Date Extracted:	10/26/22	Lab ID:	210372-02
Date Analyzed:	10/26/22	Data File:	102607.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W11-421	Client:	Aspect Consulting, LLC
Date Received:	10/25/22	Project:	Texaco Strickland 180357
Date Extracted:	10/26/22	Lab ID:	210372-03
Date Analyzed:	10/26/22	Data File:	102608.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357
Date Extracted:	10/26/22	Lab ID:	02-2498 mb
Date Analyzed:	10/26/22	Data File:	102605.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/25/22

Project: Texaco Strickland 180357, F&BI 210372

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	mg/kg (ppm)	20	125	115	61-153	8

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/25/22

Project: Texaco Strickland 180357, F&BI 210372

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

Laboratory Code: 210360-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	86	82	73-135	5

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	88	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/28/22

Date Received: 10/25/22

Project: Texaco Strickland 180357, F&BI 210372

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

Laboratory Code: 210372-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	<0.03	79	83	29-129	5
Toluene	mg/kg (ppm)	1	<0.05	84	87	35-130	4
Ethylbenzene	mg/kg (ppm)	1	<0.05	85	90	32-137	6
m,p-Xylene	mg/kg (ppm)	2	<0.1	86	90	34-136	5
o-Xylene	mg/kg (ppm)	1	<0.05	86	89	33-134	3
Naphthalene	mg/kg (ppm)	1	<0.05	84	89	14-157	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	98	71-118
Toluene	mg/kg (ppm)	1	104	66-126
Ethylbenzene	mg/kg (ppm)	1	105	64-123
m,p-Xylene	mg/kg (ppm)	2	106	78-122
o-Xylene	mg/kg (ppm)	1	104	77-124
Naphthalene	mg/kg (ppm)	1	100	63-140

# 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.



210372

SAMPLE CHAIN OF CUSTODY

10/25/22

Page #

1 of 1  
Cell/V581

Report To: Arthur Griffiths, Pamier Barber

Company: Agout Consulting

Address: 710 2nd Ave Ste 550

City, State, ZIP

Phone \_\_\_\_\_ Email \_\_\_\_\_

SAMPLERS (Signature)  
Arthur Griffiths

PROJECT NAME

TEXACO - SHICKLAND

PO #

180357

REMARKS

INVOICE TO

Project specific RIs? - Yes / No

ANALYSES REQUESTED

TURNAROUND TIME  
 Standard turnaround  
 RUSH 24-HR  
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 8012	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
SW-W-010-421	014E	10/25/22	0830	soil	5	X	X	X						
SW-W-08-421	02		0755											
SW-W-11-421	03		0740											

SIGNATURE

Relinquished by: [Signature]

Received by: [Signature]

PRINT NAME

Arthur Griffiths

Pamier Barber

COMPANY

Agout Consulting

FB

DATE

10/25/22

10/25/22

TIME

1532

1532

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

Relinquished by: \_\_\_\_\_  
Received by: \_\_\_\_\_  
Samples received at: 060

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.

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

October 31, 2022

Daniel Babcock, Project Manager  
Aspect Consulting, LLC  
710 2<sup>nd</sup> Ave S, Suite 550  
Seattle, WA 98104

Dear Mr Babcock:

Included are the results from the testing of material submitted on October 26, 2022 from the Texaco Strickland 180357, F&BI 210402 project. There are 43 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Adam Griffin  
ASP1031R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 26, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 210402 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210402 -01	B-N02-W02-438
210402 -02	B-N02-W04-424
210402 -03	B-N02-W06-423
210402 -04	B-N02-W09-424
210402 -05	B-N02-W12-425
210402 -06	B-N02-W14-429
210402 -07	B-N02-W16-434
210402 -08	B-N04-W02-437
210402 -09	B-N07-W02-438
210402 -10	B-N07-W04-431
210402 -11	B-N07-W06-430
210402 -12	B-N07-W09-426
210402 -13	B-N07-W12-426
210402 -14	B-N10-W02-438
210402 -15	B-N10-W04-431
210402 -16	B-N10-W06-431
210402 -17	B-N10-W12-429
210402 -18	B-N10-W14-429
210402 -19	B-N12-W02-444
210402 -20	B-N12-W12-439
210402 -21	B-N12-W14-439
210402 -22	B-N12-W16-439
210402 -23	Trip Blank-102622

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22  
Date Received: 10/26/22  
Project: Texaco Strickland 180357, F&BI 210402  
Date Extracted: 10/27/22  
Date Analyzed: 10/27/22

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

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
Trip Blank-102622 210402-23	<100	87
Method Blank 02-2571 mb	<100	91

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22  
Date Received: 10/26/22  
Project: Texaco Strickland 180357, F&BI 210402  
Date Extracted: 10/27/22  
Date Analyzed: 10/27/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
B-N02-W02-438 210402-01	<5	123
B-N02-W04-424 210402-02	<5	103
B-N02-W06-423 210402-03	<5	119
B-N02-W09-424 210402-04	<5	119
B-N02-W12-425 210402-05	<5	122
B-N02-W14-429 210402-06	<5	120
B-N02-W16-434 210402-07	<5	121
B-N04-W02-437 210402-08	<5	121
B-N07-W02-438 210402-09	<5	119
B-N07-W04-431 210402-10	<5	121
B-N07-W06-430 210402-11	14	134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22  
Date Received: 10/26/22  
Project: Texaco Strickland 180357, F&BI 210402  
Date Extracted: 10/27/22  
Date Analyzed: 10/27/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
B-N07-W09-426 210402-12	9.4	115
B-N07-W12-426 210402-13	<5	116
B-N10-W02-438 210402-14	<5	122
B-N10-W04-431 210402-15	<5	121
B-N10-W06-431 210402-16	<5	122
B-N10-W12-429 210402-17	<5	121
B-N10-W14-429 210402-18	<5	120
B-N12-W02-444 210402-19	<5	122
B-N12-W12-439 210402-20	<5	145
B-N12-W14-439 210402-21 1/10	1,600	ip

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22  
Date Received: 10/26/22  
Project: Texaco Strickland 180357, F&BI 210402  
Date Extracted: 10/27/22  
Date Analyzed: 10/27/22

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

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
B-N12-W16-439 210402-22	<5	122
Method Blank 02-2568 MB	<5	89
Method Blank 02-2572 mb	<5	125

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22  
 Date Received: 10/26/22  
 Project: Texaco Strickland 180357, F&BI 210402  
 Date Extracted: 10/27/22  
 Date Analyzed: 10/27/22

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

Results Reported on a Dry Weight Basis  
 Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
B-N02-W02-438 210402-01	<50	<250	90
B-N02-W04-424 210402-02	<50	<250	86
B-N02-W06-423 210402-03	<50	<250	87
B-N02-W09-424 210402-04	<50	<250	86
B-N02-W12-425 210402-05	<50	<250	91
B-N02-W14-429 210402-06	<50	<250	87
B-N02-W16-434 210402-07	<50	<250	86
B-N04-W02-437 210402-08	<50	<250	87
B-N07-W02-438 210402-09	<50	<250	90
B-N07-W04-431 210402-10	<50	<250	86
B-N07-W06-430 210402-11	<50	<250	99



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22  
 Date Received: 10/26/22  
 Project: Texaco Strickland 180357, F&BI 210402  
 Date Extracted: 10/27/22  
 Date Analyzed: 10/27/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
B-N07-W09-426 210402-12	<50	<250	97
B-N07-W12-426 210402-13	<50	<250	94
B-N10-W02-438 210402-14	<50	<250	87
B-N10-W04-431 210402-15	<50	<250	97
B-N10-W06-431 210402-16	<50	<250	86
B-N10-W12-429 210402-17	<50	<250	88
B-N10-W14-429 210402-18	<50	<250	86
B-N12-W02-444 210402-19	<50	<250	86
B-N12-W12-439 210402-20	310 x	630	107
B-N12-W14-439 210402-21	<50	<250	89

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22

Date Received: 10/26/22

Project: Texaco Strickland 180357, F&BI 210402

Date Extracted: 10/27/22

Date Analyzed: 10/27/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
B-N12-W16-439 210402-22	<50	<250	67
Method Blank 02-2658 MB	<50	<250	89
Method Blank 02-2659 MB	<50	<250	88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N02-W02-438	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-01
Date Analyzed:	10/27/22	Data File:	102716.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N02-W04-424	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-02
Date Analyzed:	10/27/22	Data File:	102717.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N02-W06-423	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-03
Date Analyzed:	10/27/22	Data File:	102718.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	105	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N02-W09-424	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-04
Date Analyzed:	10/27/22	Data File:	102719.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N02-W12-425	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-05
Date Analyzed:	10/27/22	Data File:	102720.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N02-W14-429	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-06
Date Analyzed:	10/27/22	Data File:	102721.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N02-W16-434	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-07
Date Analyzed:	10/27/22	Data File:	102722.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N04-W02-437	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-08
Date Analyzed:	10/27/22	Data File:	102723.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	90	109
Toluene-d8	102	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N07-W02-438	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-09
Date Analyzed:	10/27/22	Data File:	102724.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N07-W04-431	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-10
Date Analyzed:	10/27/22	Data File:	102725.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	98	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N07-W06-430	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-11
Date Analyzed:	10/27/22	Data File:	102726.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	102	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N07-W09-426	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-12
Date Analyzed:	10/27/22	Data File:	102727.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N07-W12-426	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-13
Date Analyzed:	10/27/22	Data File:	102728.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N10-W02-438	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-14
Date Analyzed:	10/27/22	Data File:	102729.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	105	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N10-W04-431	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-15
Date Analyzed:	10/27/22	Data File:	102730.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N10-W06-431	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-16
Date Analyzed:	10/27/22	Data File:	102731.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	105	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N10-W12-429	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-17
Date Analyzed:	10/27/22	Data File:	102732.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N10-W14-429	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-18
Date Analyzed:	10/27/22	Data File:	102733.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	106	90	109
Toluene-d8	102	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N12-W02-444	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-19
Date Analyzed:	10/27/22	Data File:	102734.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N12-W12-439	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-20
Date Analyzed:	10/27/22	Data File:	102735.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	105	90	109
Toluene-d8	104	89	112
4-Bromofluorobenzene	108	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	0.15
m,p-Xylene	0.35
o-Xylene	<0.05
Naphthalene	0.45

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N12-W14-439	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-21
Date Analyzed:	10/27/22	Data File:	102736.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N12-W16-439	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-22
Date Analyzed:	10/27/22	Data File:	102737.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	02-2612 mb
Date Analyzed:	10/27/22	Data File:	102712.D
Matrix:	Soil	Instrument:	GCMS11
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	79	128
Toluene-d8	104	84	121
4-Bromofluorobenzene	96	84	116

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	02-2613 mb
Date Analyzed:	10/27/22	Data File:	102715.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	lm

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Trip Blank-102622	Client:	Aspect Consulting, LLC
Date Received:	10/26/22	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	210402-23
Date Analyzed:	10/27/22	Data File:	102713.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	78	126
Toluene-d8	107	84	115
4-Bromofluorobenzene	97	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357
Date Extracted:	10/27/22	Lab ID:	02-2611 mb
Date Analyzed:	10/27/22	Data File:	102707.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	104	78	126
Toluene-d8	102	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22

Date Received: 10/26/22

Project: Texaco Strickland 180357, F&BI 210402

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

Laboratory Code: 210408-01 (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	115	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22

Date Received: 10/26/22

Project: Texaco Strickland 180357, F&BI 210402

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

Laboratory Code: 210378-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	110	61-153

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22

Date Received: 10/26/22

Project: Texaco Strickland 180357, F&BI 210402

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

Laboratory Code: 210402-15 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	105	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22

Date Received: 10/26/22

Project: Texaco Strickland 180357, F&BI 210402

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

Laboratory Code: 210402-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	92	92	73-135	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	94	74-139



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22

Date Received: 10/26/22

Project: Texaco Strickland 180357, F&BI 210402

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

Laboratory Code: 210402-21 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	90	92	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	92	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22

Date Received: 10/26/22

Project: Texaco Strickland 180357, F&BI 210402

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

Laboratory Code: 210391-23 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1.0	<0.03	76	89	50-150	16
Toluene	mg/kg (ppm)	1.0	<0.05	80	92	50-150	14
Ethylbenzene	mg/kg (ppm)	1.0	<0.05	82	95	50-150	15
m,p-Xylene	mg/kg (ppm)	2.0	<0.1	83	96	50-150	15
o-Xylene	mg/kg (ppm)	1.0	<0.05	80	93	50-150	15
Naphthalene	mg/kg (ppm)	1.0	<0.05	75	92	50-150	20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1.0	103	70-130
Toluene	mg/kg (ppm)	1.0	102	70-130
Ethylbenzene	mg/kg (ppm)	1.0	101	70-130
m,p-Xylene	mg/kg (ppm)	2.0	102	70-130
o-Xylene	mg/kg (ppm)	1.0	98	70-130
Naphthalene	mg/kg (ppm)	1.0	92	69-119

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22

Date Received: 10/26/22

Project: Texaco Strickland 180357, F&BI 210402

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

Laboratory Code: 210402-20 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	<0.03	79	82	29-129	4
Toluene	mg/kg (ppm)	1	<0.05	82	84	35-130	2
Ethylbenzene	mg/kg (ppm)	1	0.13	80	90	32-137	12
m,p-Xylene	mg/kg (ppm)	2	0.31	80	91	34-136	13
o-Xylene	mg/kg (ppm)	1	<0.05	83	89	33-134	7
Naphthalene	mg/kg (ppm)	1	0.39	85 b	122 b	14-157	36 b

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	107	71-118
Toluene	mg/kg (ppm)	1	110	66-126
Ethylbenzene	mg/kg (ppm)	1	111	64-123
m,p-Xylene	mg/kg (ppm)	2	112	78-122
o-Xylene	mg/kg (ppm)	1	111	77-124
Naphthalene	mg/kg (ppm)	1	108	63-140

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22

Date Received: 10/26/22

Project: Texaco Strickland 180357, F&BI 210402

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

Laboratory Code: 210425-04 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent	Acceptance
				Recovery MS	Criteria
Benzene	ug/L (ppb)	10	<0.35	93	50-150
Toluene	ug/L (ppb)	10	<1	92	50-150
Ethylbenzene	ug/L (ppb)	10	<1	91	50-150
m,p-Xylene	ug/L (ppb)	20	<2	91	50-150
o-Xylene	ug/L (ppb)	10	<1	89	50-150
Naphthalene	ug/L (ppb)	10	<1	83	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent	Percent	Acceptance Criteria	RPD (Limit 20)
			Recovery LCS	Recovery LCSD		
Benzene	ug/L (ppb)	10	94	96	70-130	2
Toluene	ug/L (ppb)	10	94	98	70-130	4
Ethylbenzene	ug/L (ppb)	10	94	98	70-130	4
m,p-Xylene	ug/L (ppb)	20	95	99	70-130	4
o-Xylene	ug/L (ppb)	10	94	96	70-130	2
Naphthalene	ug/L (ppb)	10	93	95	70-130	2

# 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.

210402

Report To: Blair & Adam Griffin

Company \_\_\_\_\_

Address \_\_\_\_\_

City, State, ZIP \_\_\_\_\_

Phone \_\_\_\_\_ Email \_\_\_\_\_

SAMPLE CHAIN OF CUSTODY

10/26/22

COY/VS32/W11

SAMPLERS (signature)	PROJECT NAME	PO #
<u>[Signature]</u>		
REMARKS	INVOICE TO	
	180294	
Project specific RI's? - Yes / No		

Page # 1 of 5

TURNAROUND TIME

Standard turnaround

RUSH 29-44 hr

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 8220	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
B-N02-W02-438	01 A-E	10/26/22	12:15	Soil	5	X	X	X						
B-N02-W04-424	02		12:50		1	X	X	X						
B-N02-W06-423	03		13:00		1	X	X	X						
B-N02-W04-424	04		13:10		1	X	X	X						
B-N02-W12-425	05		13:20		1	X	X	X						
B-N02-W14-429	06		13:35		1	X	X	X						
B-N02-W16-434	07		13:40		1	X	X	X						
B-N04-W02-437	08		12:30		1	X	X	X						
B-N07-W02-438	09		12:30		1	X	X	X						
B-N07-W04-431	10		12:25		1	X	X	X						

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u>		ASHLEY PROWSE		STRECK		10/26/22	16:04
Received by: <u>[Signature]</u>		ANH P HAN		ESB		10/26/22	16:04
Relinquished by:							
Received by:				Samples received at		DOC	

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

210 402

SAMPLE CHAIN OF CUSTODY

10/26/22

copy to 10/26/22

Report To

Company

Address

City, State, ZIP

Phone Email

SAMPLERS (signature)

PROJECT NAME

PO #

REMARKS

INVOICE TO

Project specific RIs? - Yes / No

Page # 2 of 3

TURNAROUND TIME

Standard turnaround  
RUSH  
Rush charges authorized by:

SAMPLE DISPOSAL

Archive samples  
Other

Default: Dispose after 30 days

ANALYSES REQUESTED

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			
B-N07-W06-430	11 A-E	10/26/22	1220	Soil	5	X	X	X							
B-N07-W09-426	12		1215												
B-N07-W09-426	13		1210												ID update per 86 10/17/22
B-N10-W02-438	14		1325												
B-N10-W01-431	15		1320												
B-N10-W06-431	16		1315												
B-U00-W12-429	17		1305												
B-N10-W14-429	18		1300												
B-N12-W02-414	19		1435												
B-N12-W12-439	20		1420												

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

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

Anthony Yman

AREX

10/20/22

14:04

ANN PHAN

ESB

10/26/22

16:04

Samples received at

000

210402

SAMPLE CHAIN OF CUSTODY

10/26/22

CO4NSB2/101  
3 of 3

Report To: Sami Skradl + Adam Giblin

Company: AsPost Consulting

Address: \_\_\_\_\_  
City, State, ZIP: \_\_\_\_\_

Phone: 316.617.5779 Email: skradl@aspostconsulting.com

SAMPLERS (signature)	PROJECT NAME	PO #
<u>[Signature]</u>	<u>Texas Spillwood</u>	<u>18057</u>
REMARKS	INVOICE TO	

Page # 3 of 3

TURNAROUND TIME  
 Standard turnaround  
 RUSH 24 hr  
 Rush charges authorized by: Sami Skradl

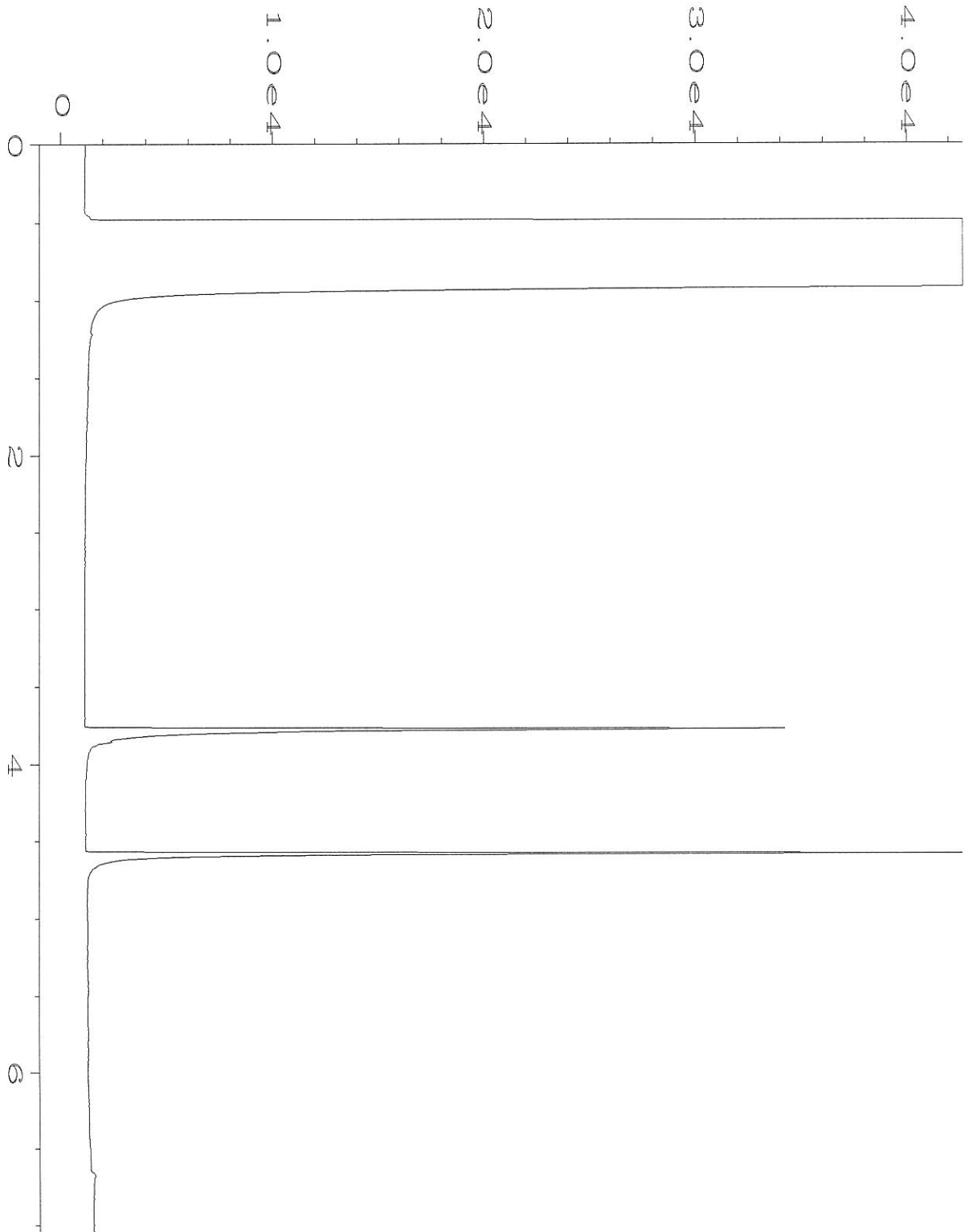
SAMPLE DISPOSAL  
 Archive samples  
 Other  
 Default: Dispose after 30 days

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	Other		Other					
B-N12-W14-434	21 A7E	10/26/22	1405	Soil	5	X	X													
B-N12-W16-434	22 ↓	↓	1420	↓	↓	X	X													
TR-Break-102622	DRAR	-	-	water	2															only for 357KJ

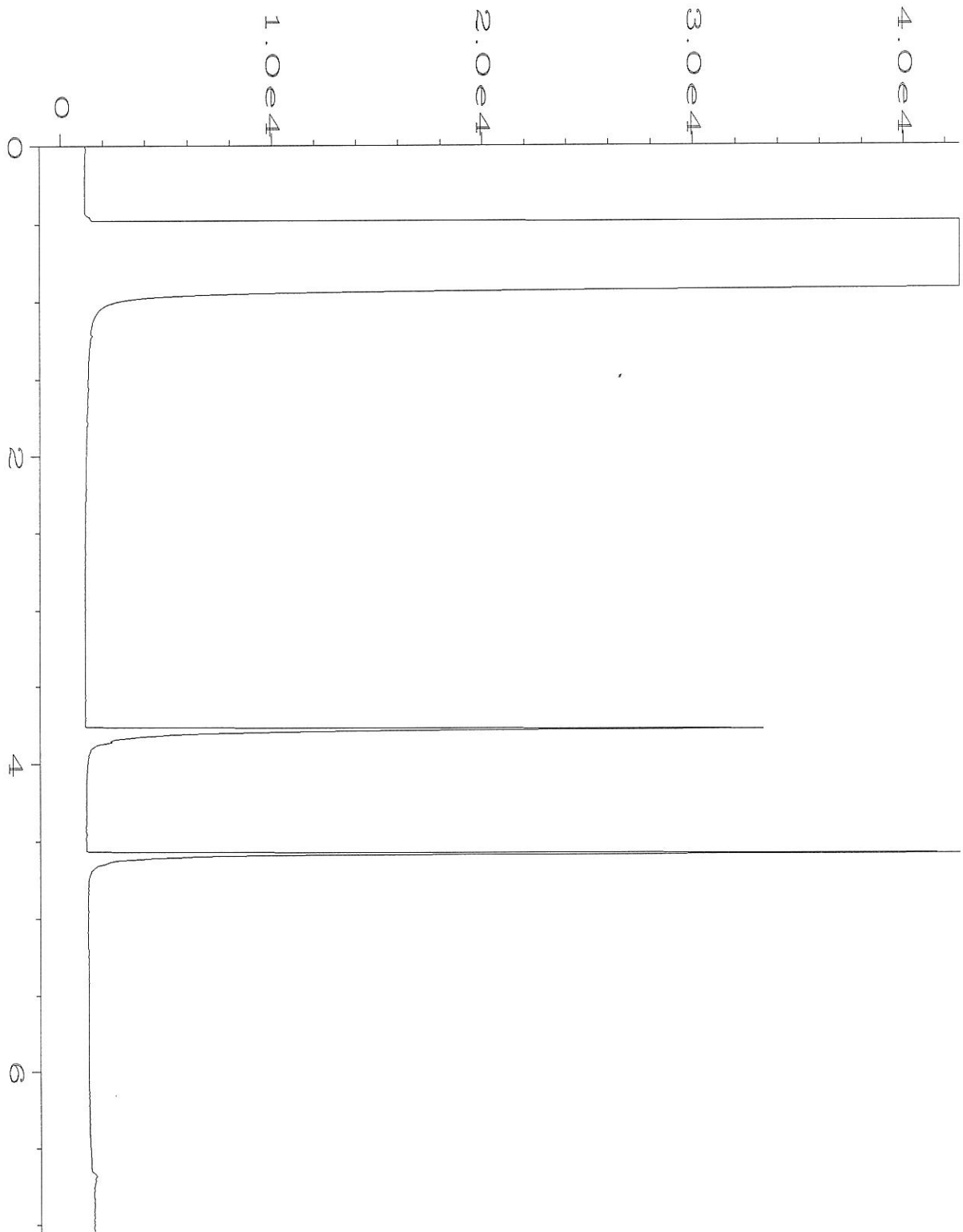
SIGNATURE		PRINT NAME		COMPANY		DATE		TIME	
Relinquished by: <u>[Signature]</u>		<u>Asilvery Druw</u>		<u>AsPost</u>		<u>10/26/22</u>		<u>16:04</u>	
Received by: <u>[Signature]</u>		<u>ANH PHAN</u>		<u>FSB</u>		<u>10/26/22</u>		<u>16:04</u>	
Relinquished by:									
Received by:				<u>Samples received at:</u>					

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

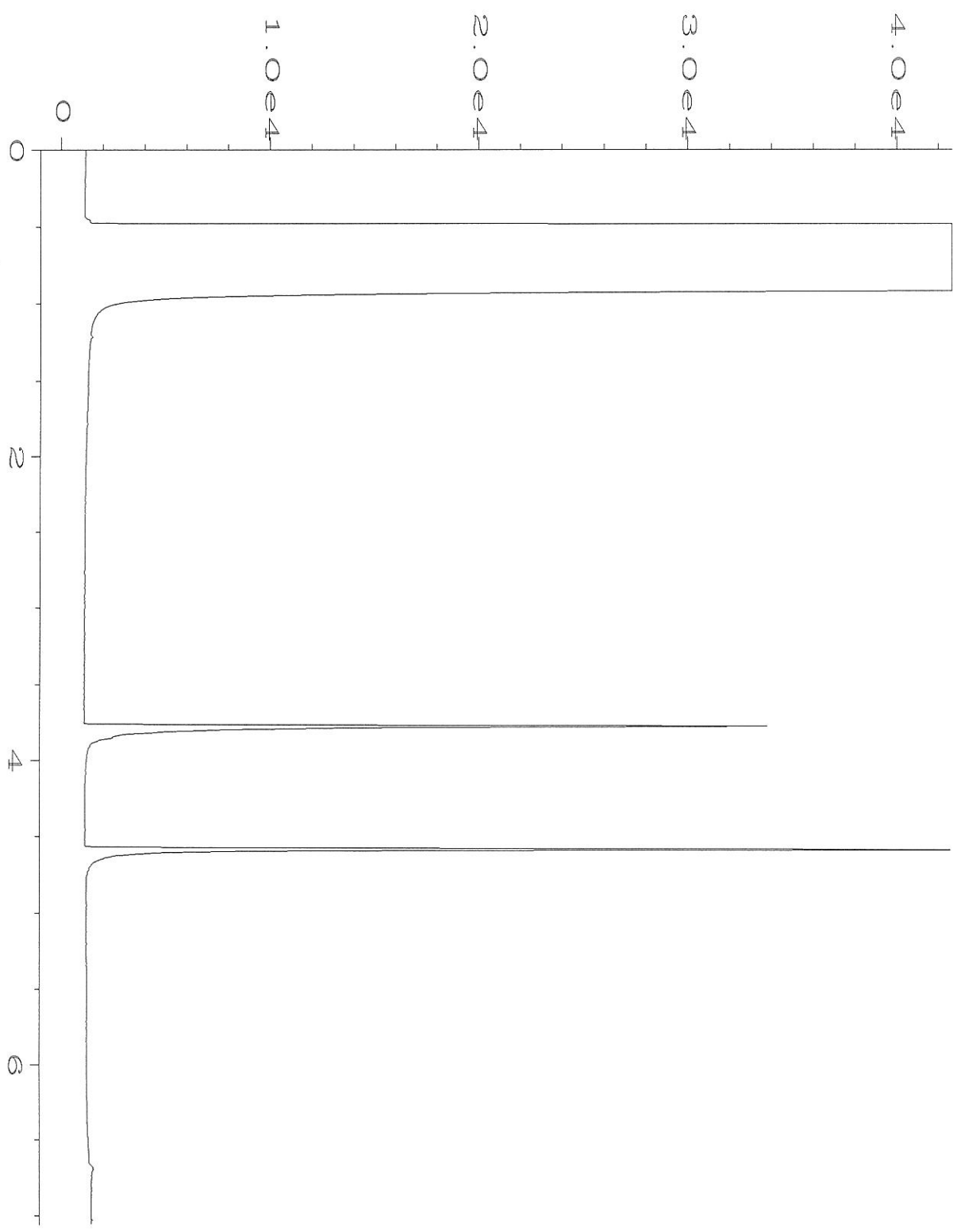




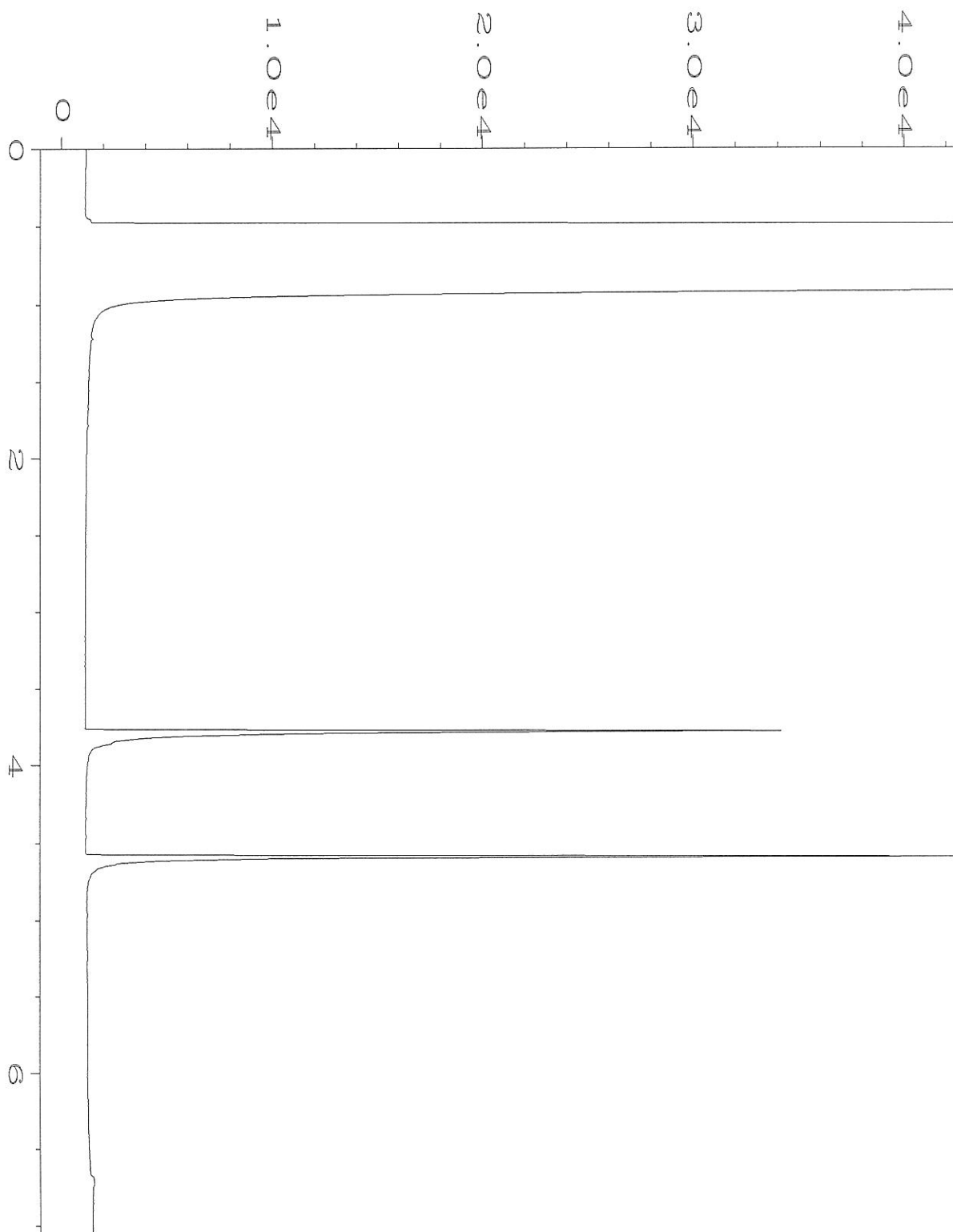
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Operator	: TL	Vial Number	: 49
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-01	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 05:21 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:00 AM		



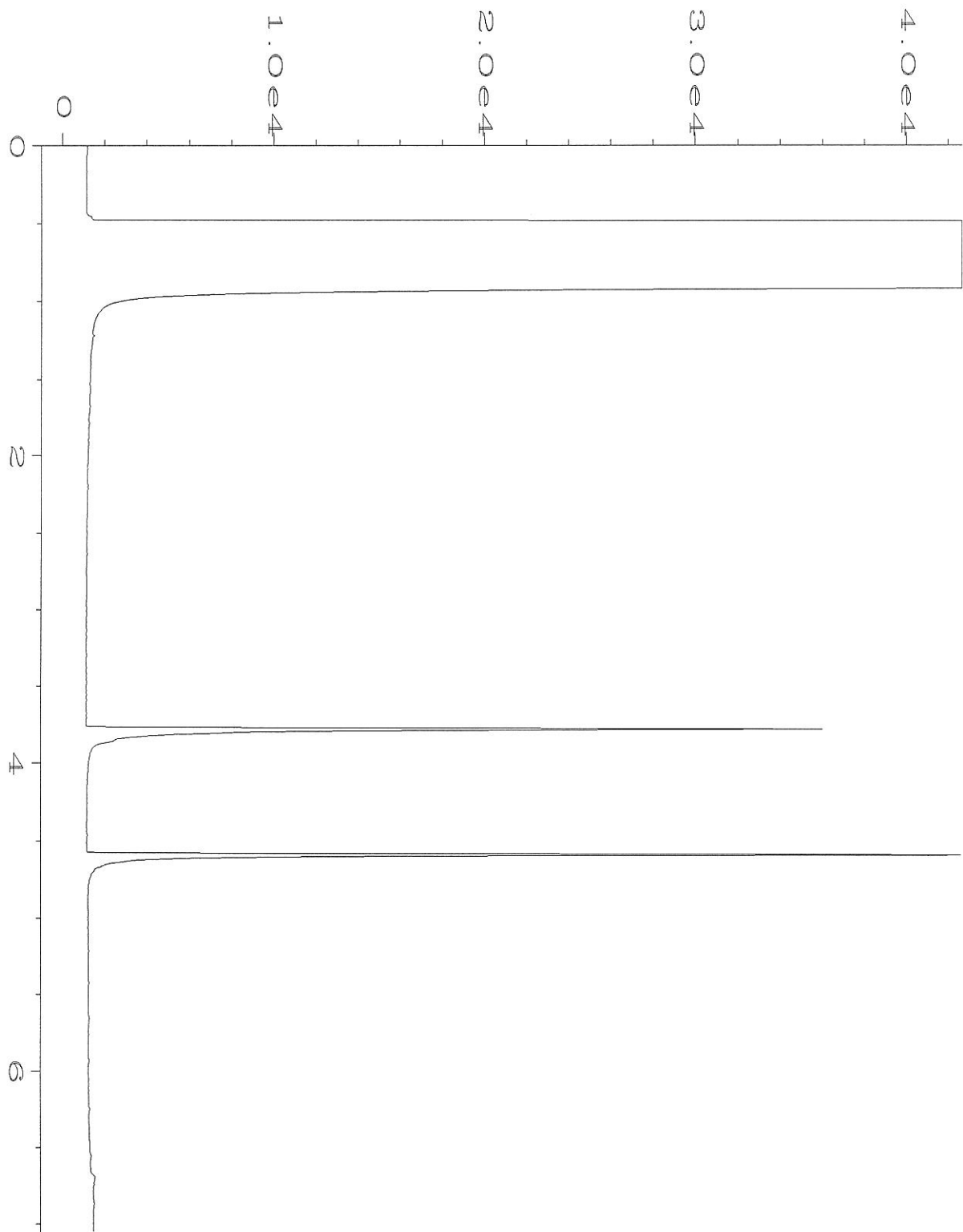
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Operator	: TL	Vial Number	: 50
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-02	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 05:32 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:00 AM		



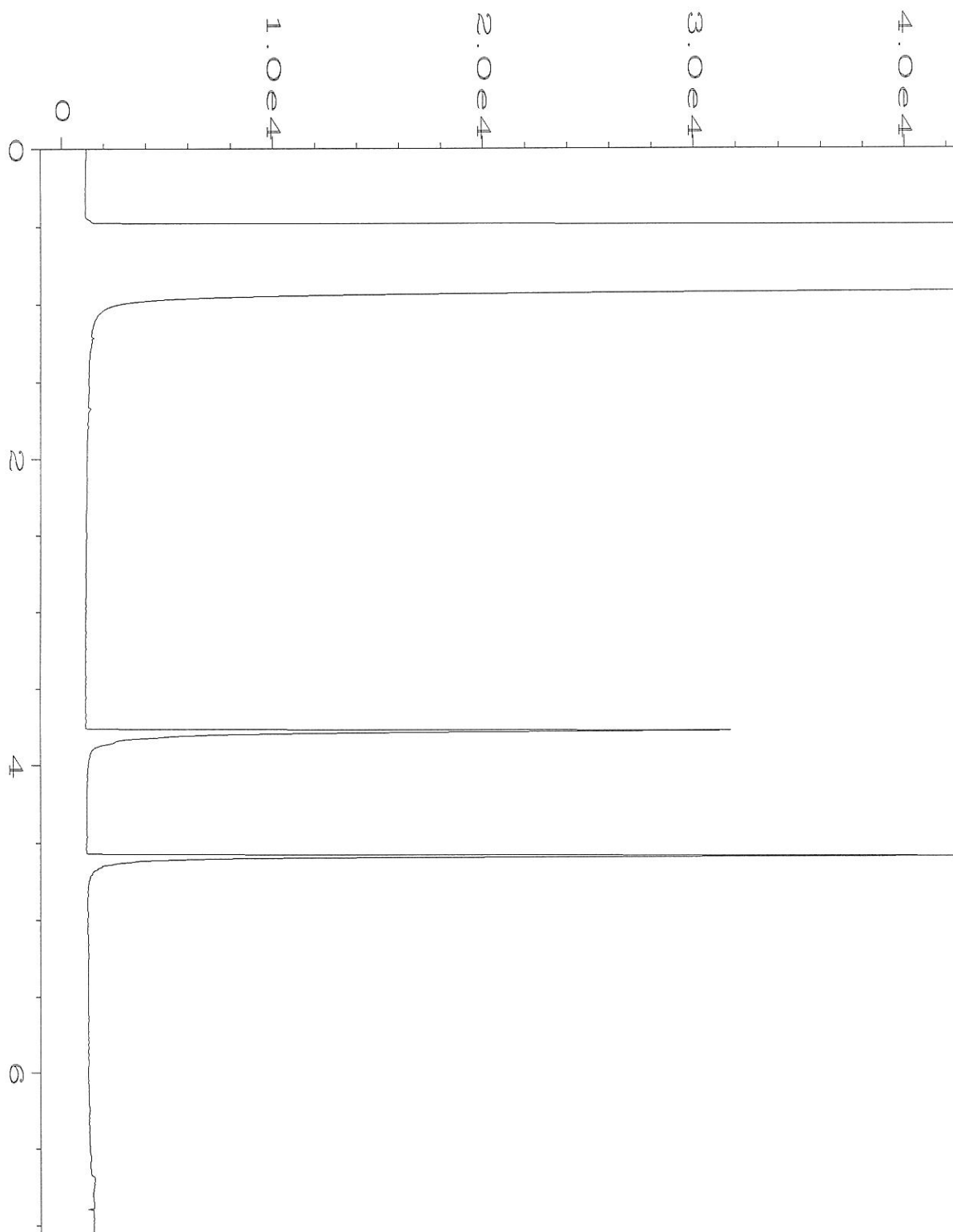
Data File Name	: C:\HPCHEM\4\DATA\10-27-22\051F0901.D	Page Number	: 1
Operator	: TL	Vial Number	: 51
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-03	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 05:44 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:00 AM		



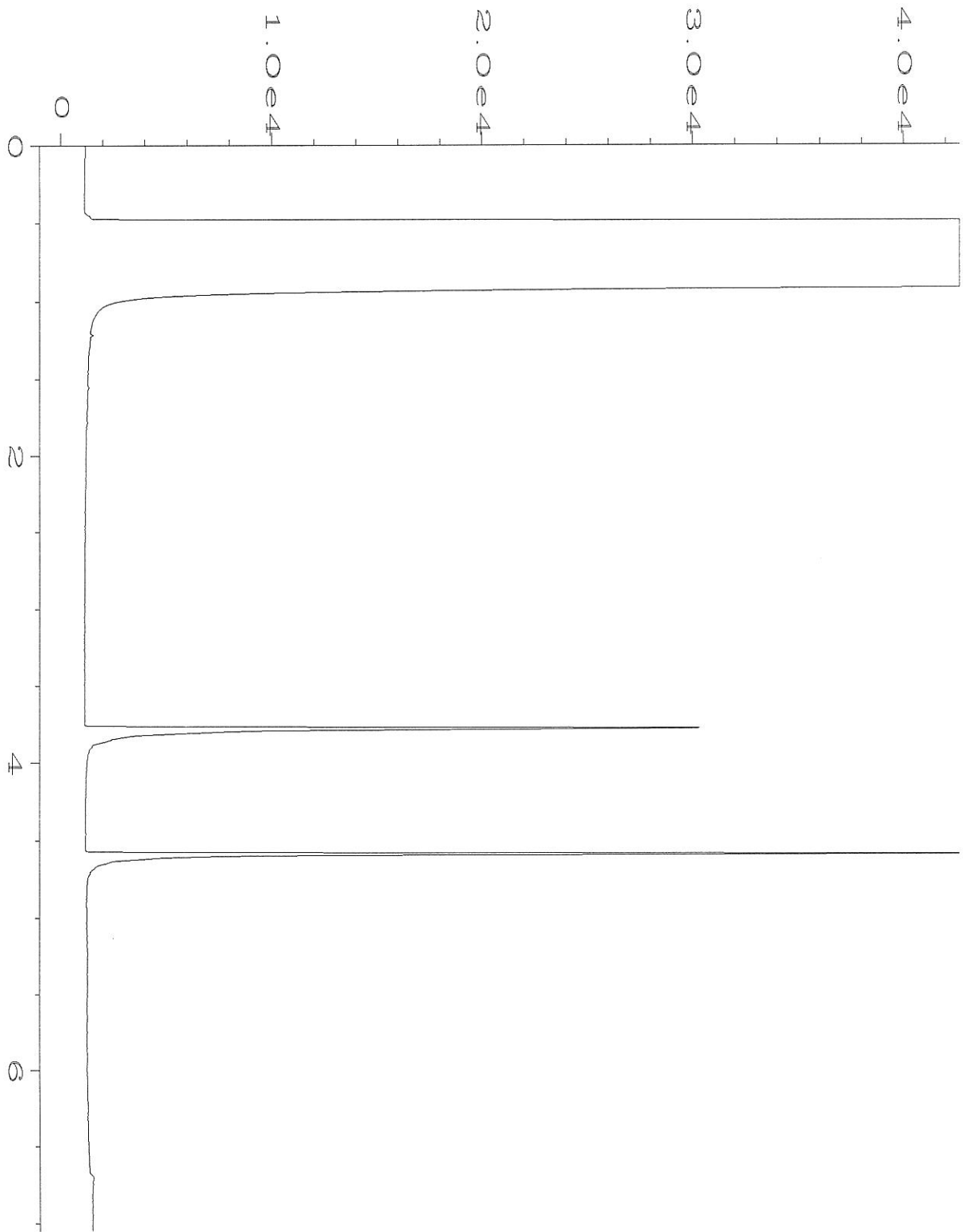
Data File Name	: C:\HPCHEM\4\DATA\10-27-22\052F0901.D	Page Number	: 1
Operator	: TL	Vial Number	: 52
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-04	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 05:55 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:01 AM		



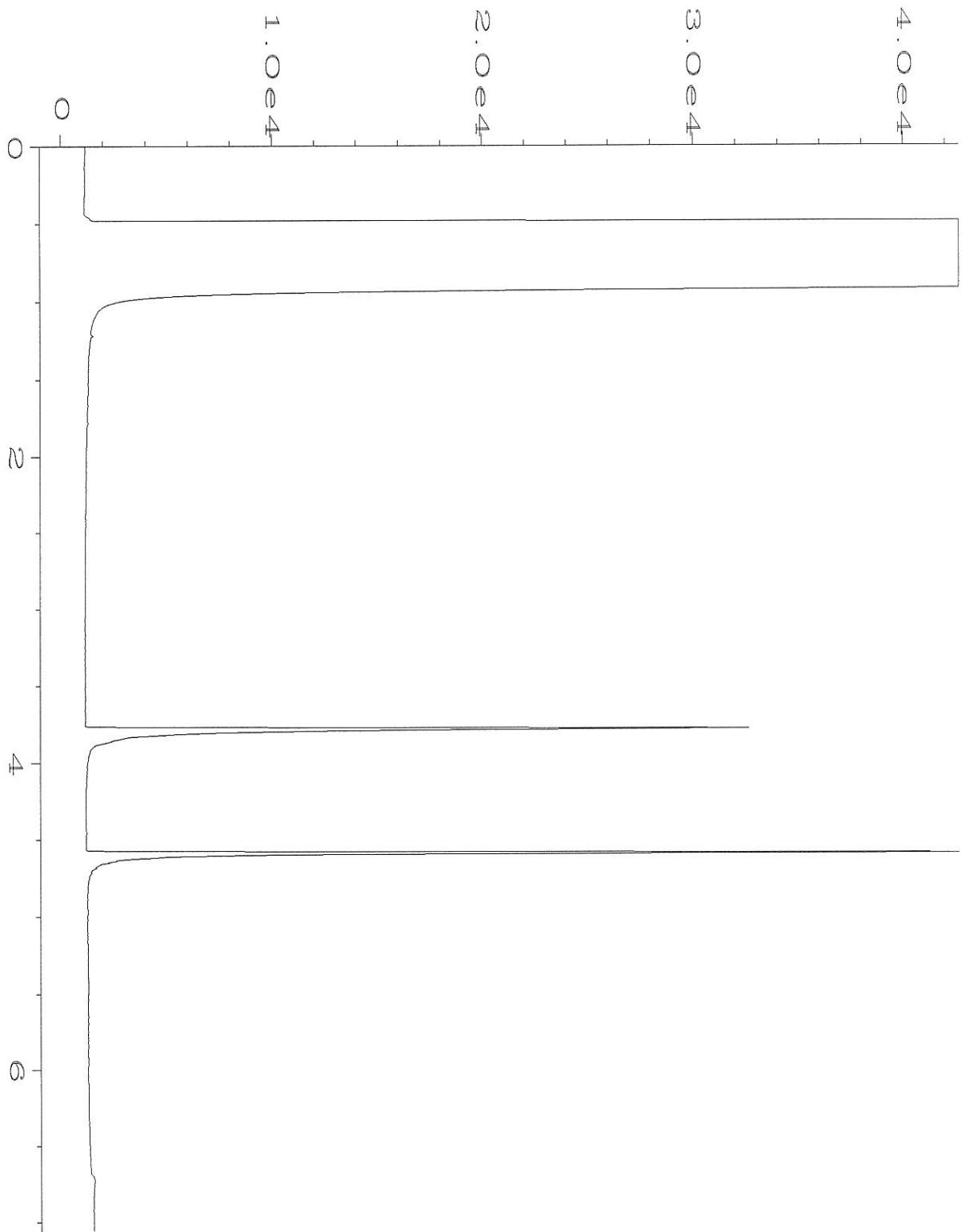
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Operator	: TL	Vial Number	: 53
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-05	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 06:06 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:01 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-27-22\054F0901.D	Page Number	: 1
Operator	: TL	Vial Number	: 54
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-06	Sequence Line	: 9
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 27 Oct 22 06:17 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:01 AM		

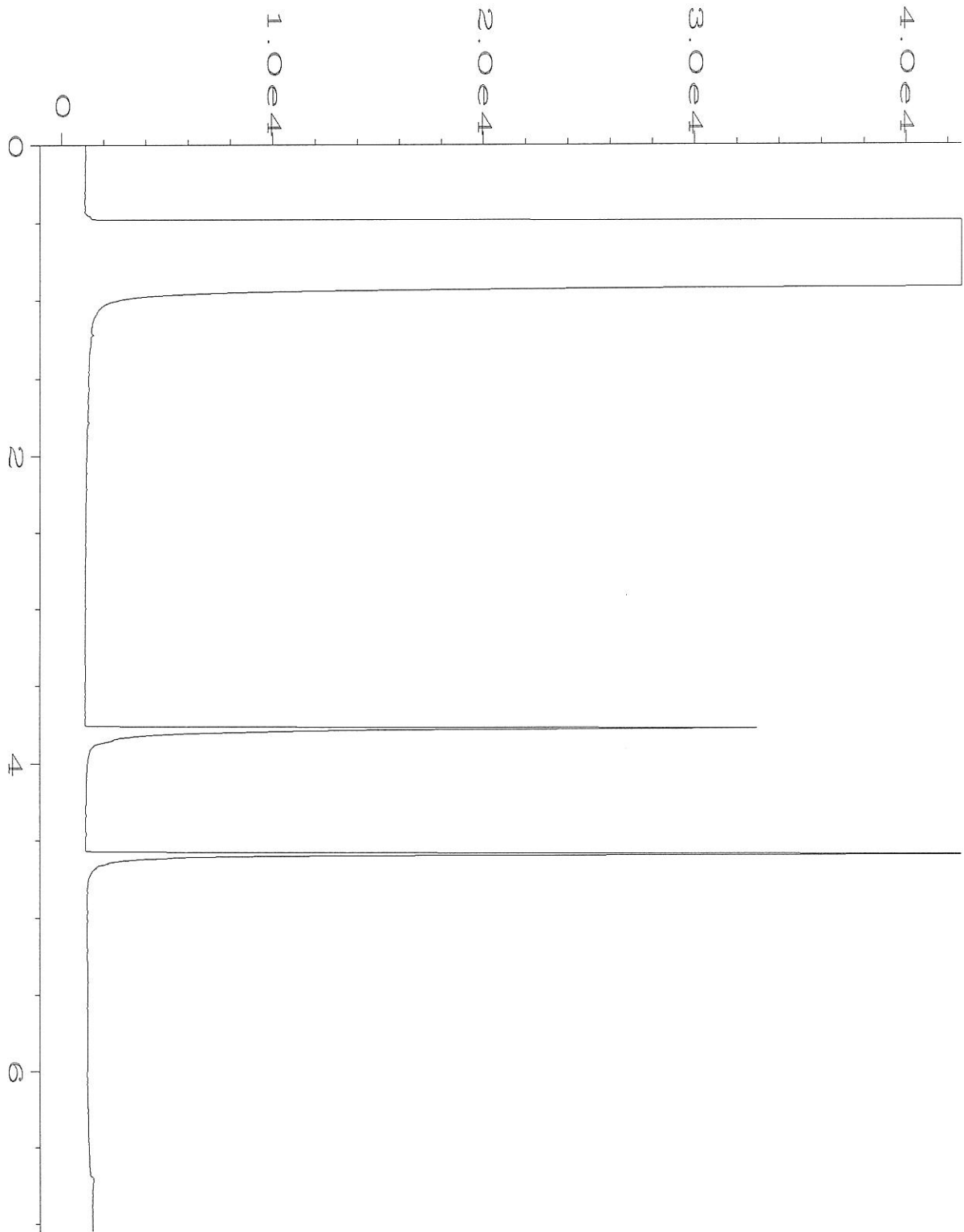


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Operator	: TL	Vial Number	: 55
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-07	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 06:29 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:01 AM		

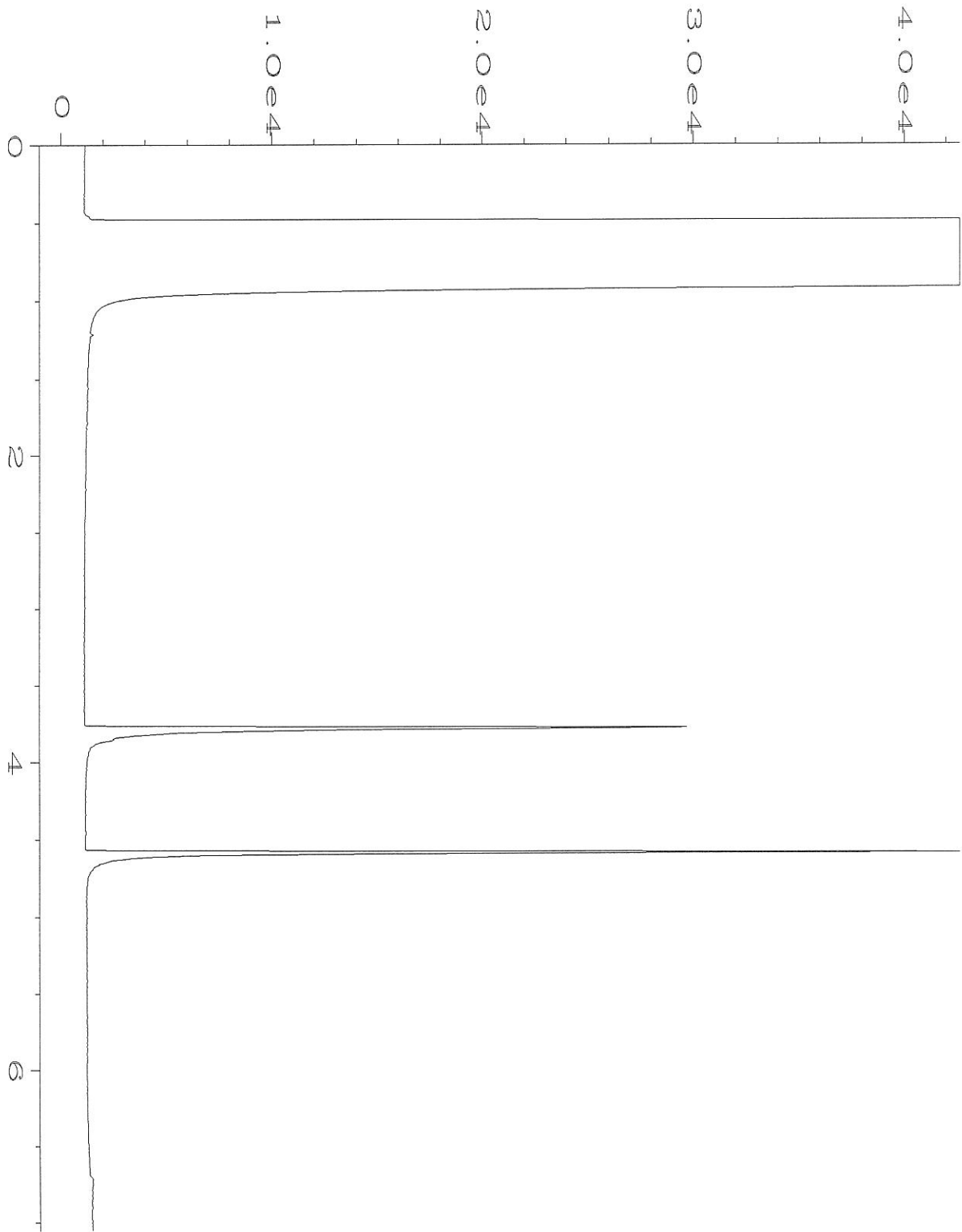


Data File Name	: C:\HPCHEM\4\DATA\10-27-22\056F0901.D	Page Number	: 1
Operator	: TL	Vial Number	: 56
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-08	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 06:40 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:01 AM		

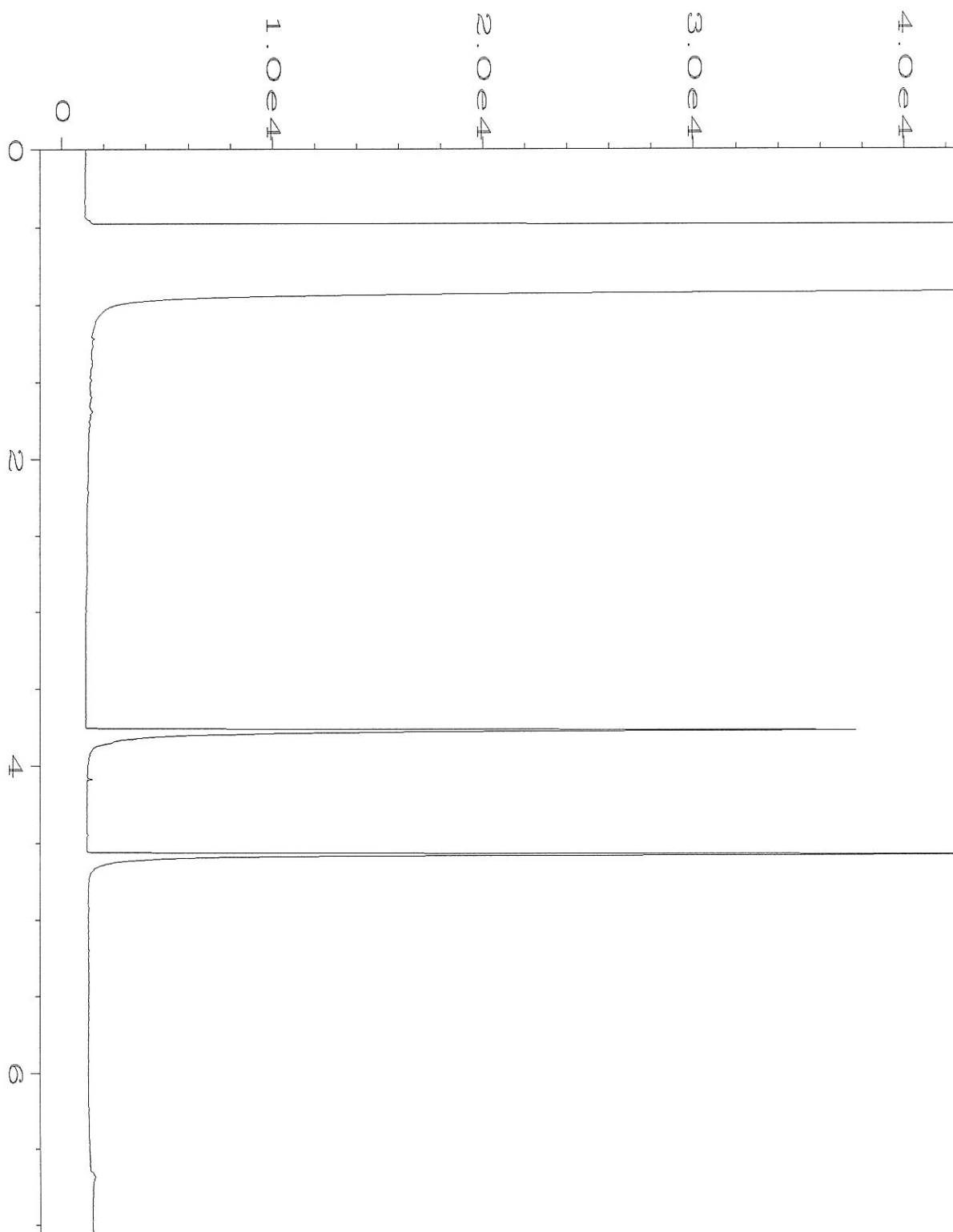




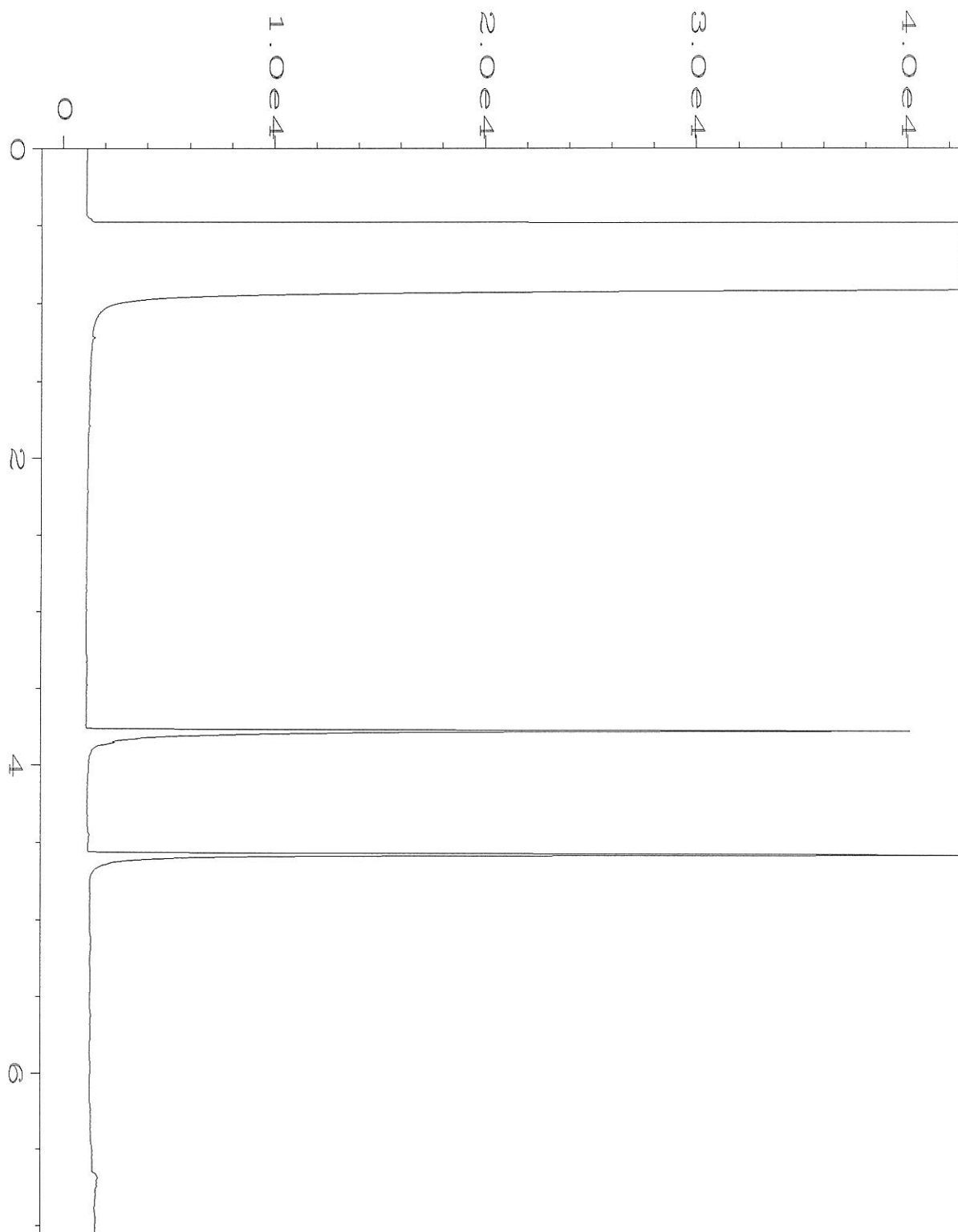
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Operator	: TL	Vial Number	: 57
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-09	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 06:51 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:02 AM		



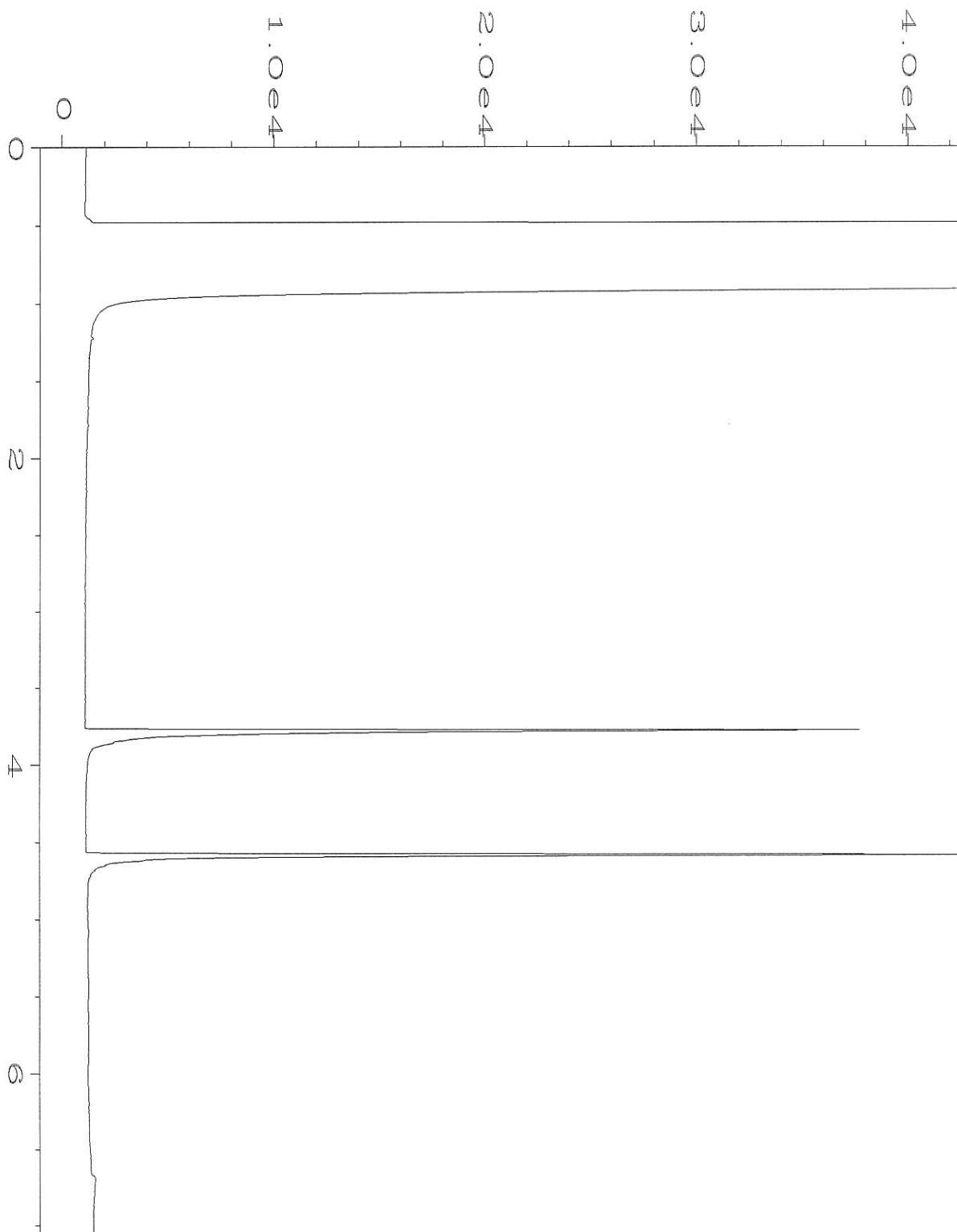
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Operator	: TL	Vial Number	: 58
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-10	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 07:02 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:02 AM		



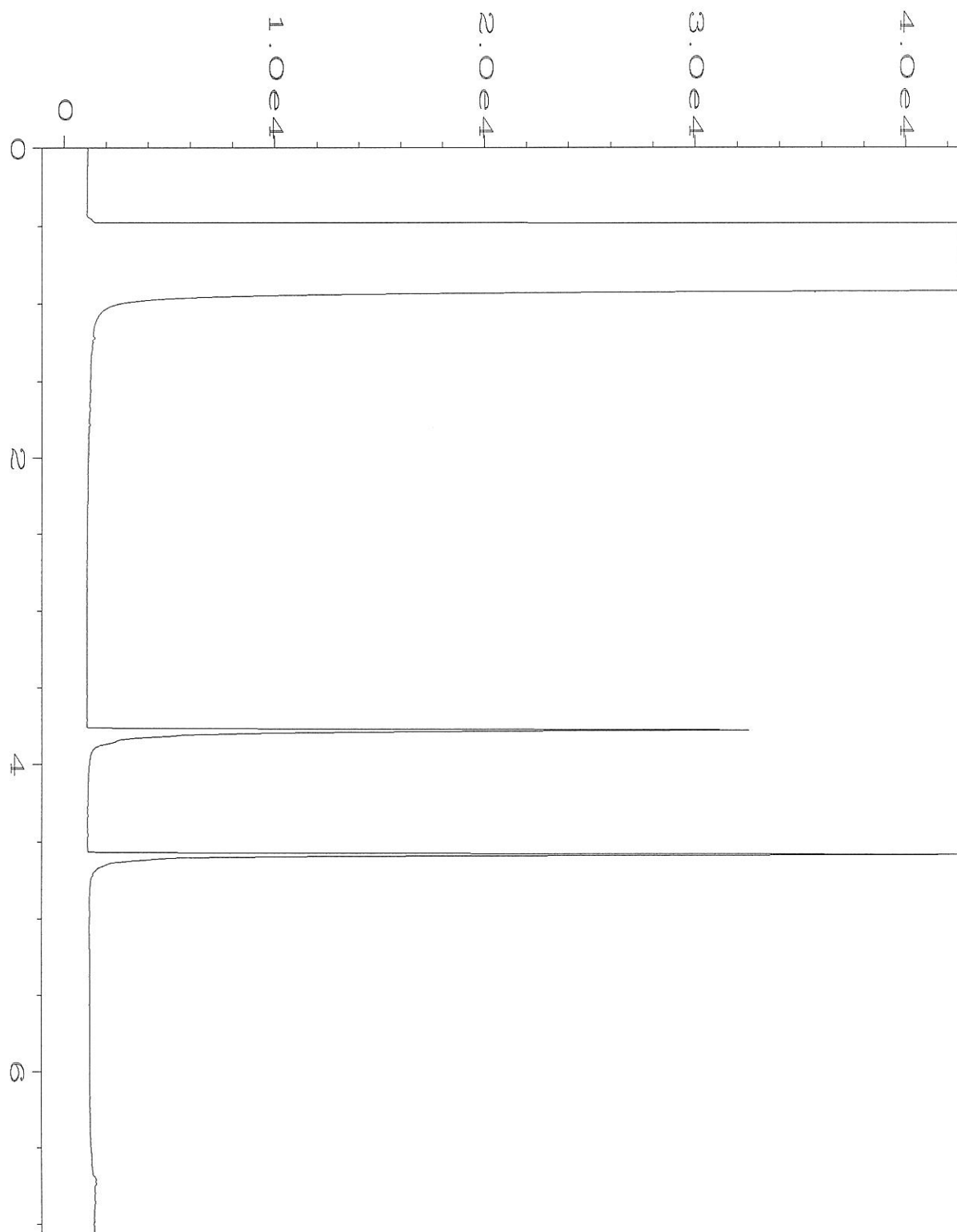
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Operator	: TL	Vial Number	: 59
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-11	Sequence Line	: 9
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 07:14 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:02 AM		



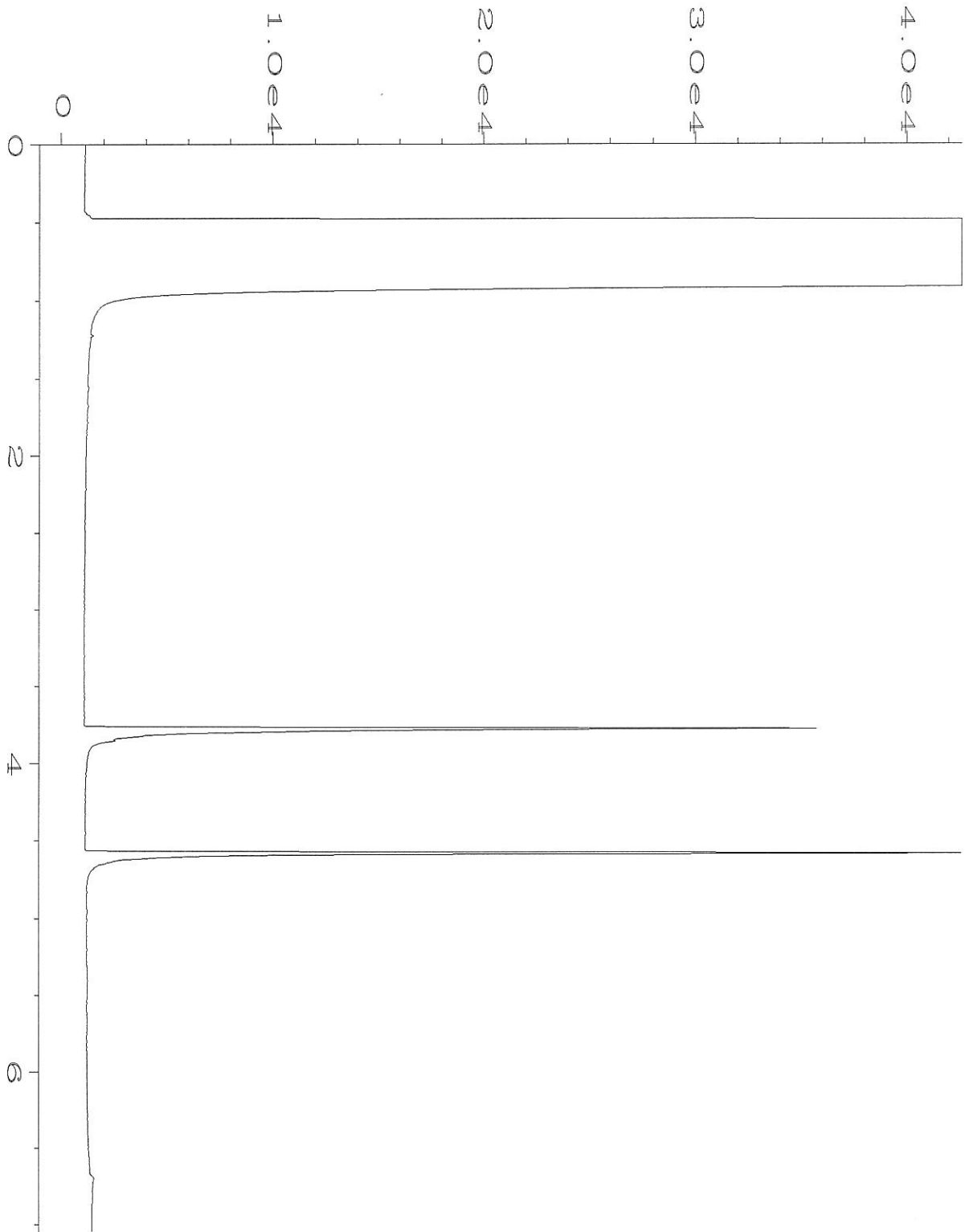
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Operator	: TL	Vial Number	: 60
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-12	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 07:48 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:02 AM		



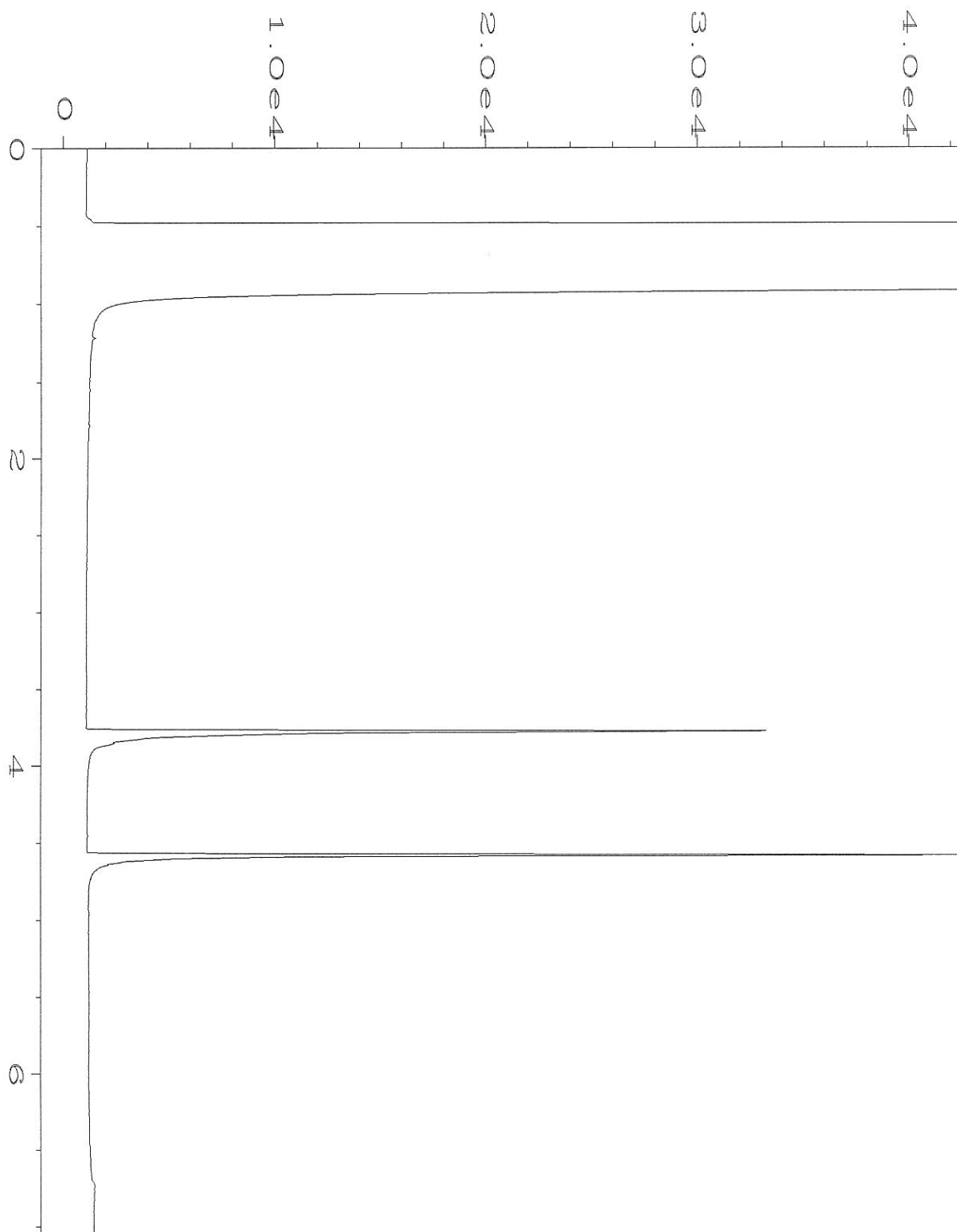
Data File Name	: C:\HPCHEM\4\DATA\10-27-22\061F1101.D	Page Number	: 1
Operator	: TL	Vial Number	: 61
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-13	Sequence Line	: 11
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 27 Oct 22 07:59 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:02 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-27-22\062F1101.D	Page Number	: 1
Operator	: TL	Vial Number	: 62
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-14	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 08:11 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:02 AM		

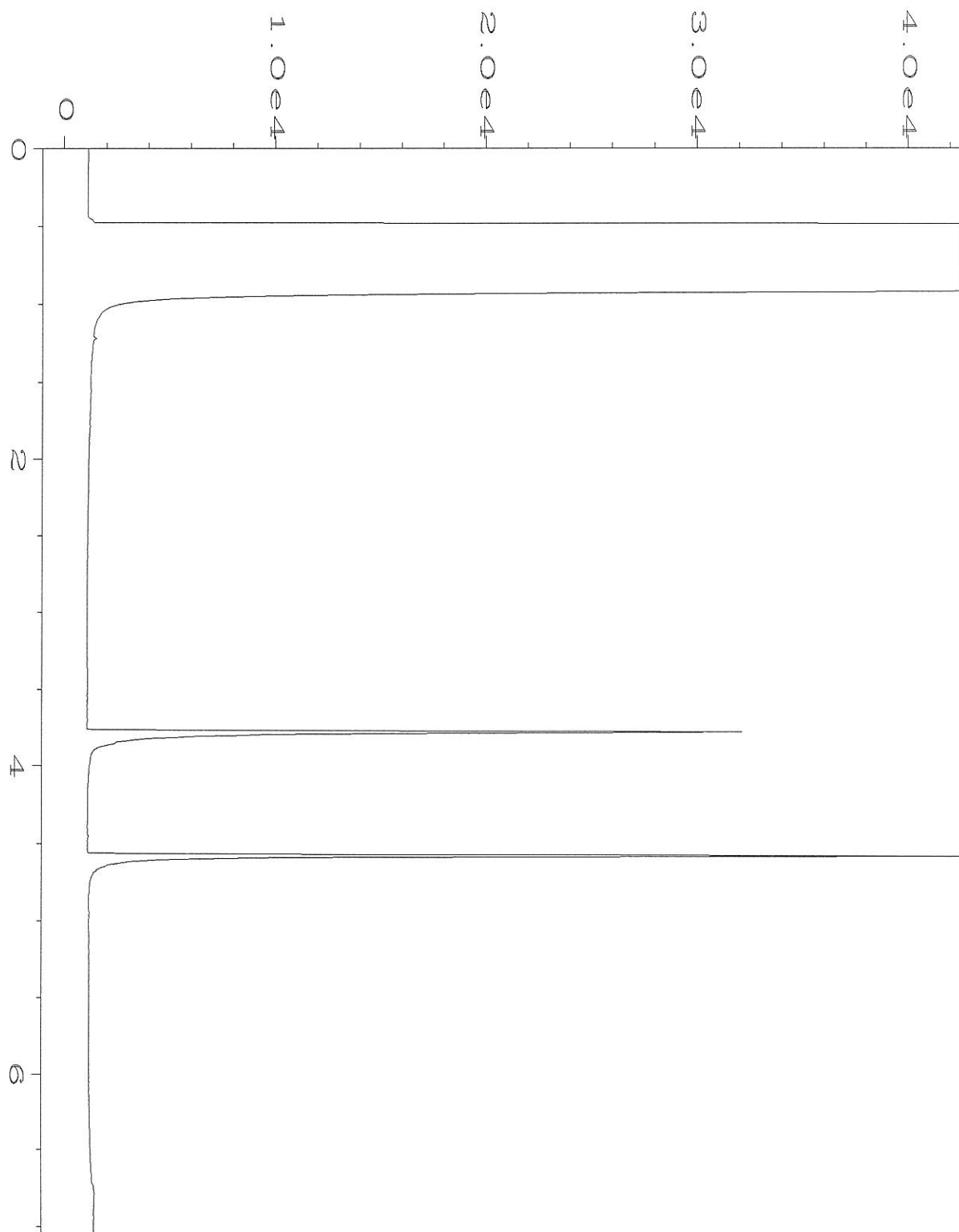


Data File Name	: C:\HPCHEM\4\DATA\10-27-22\063F1101.D	Page Number	: 1
Operator	: TL	Vial Number	: 63
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-15	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 08:22 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:03 AM		

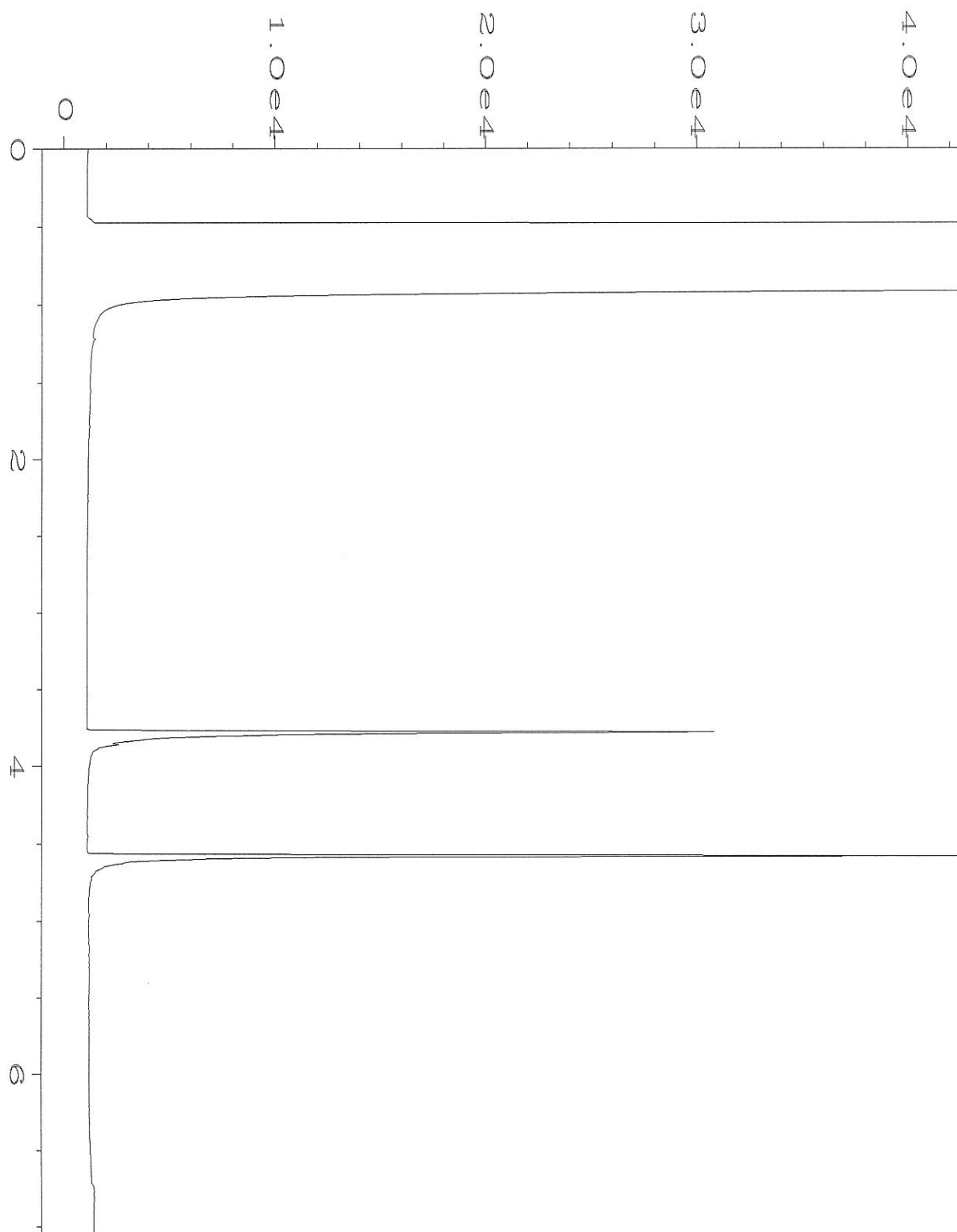


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Operator	: TL	Vial Number	: 64
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-16	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 08:33 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:03 AM		

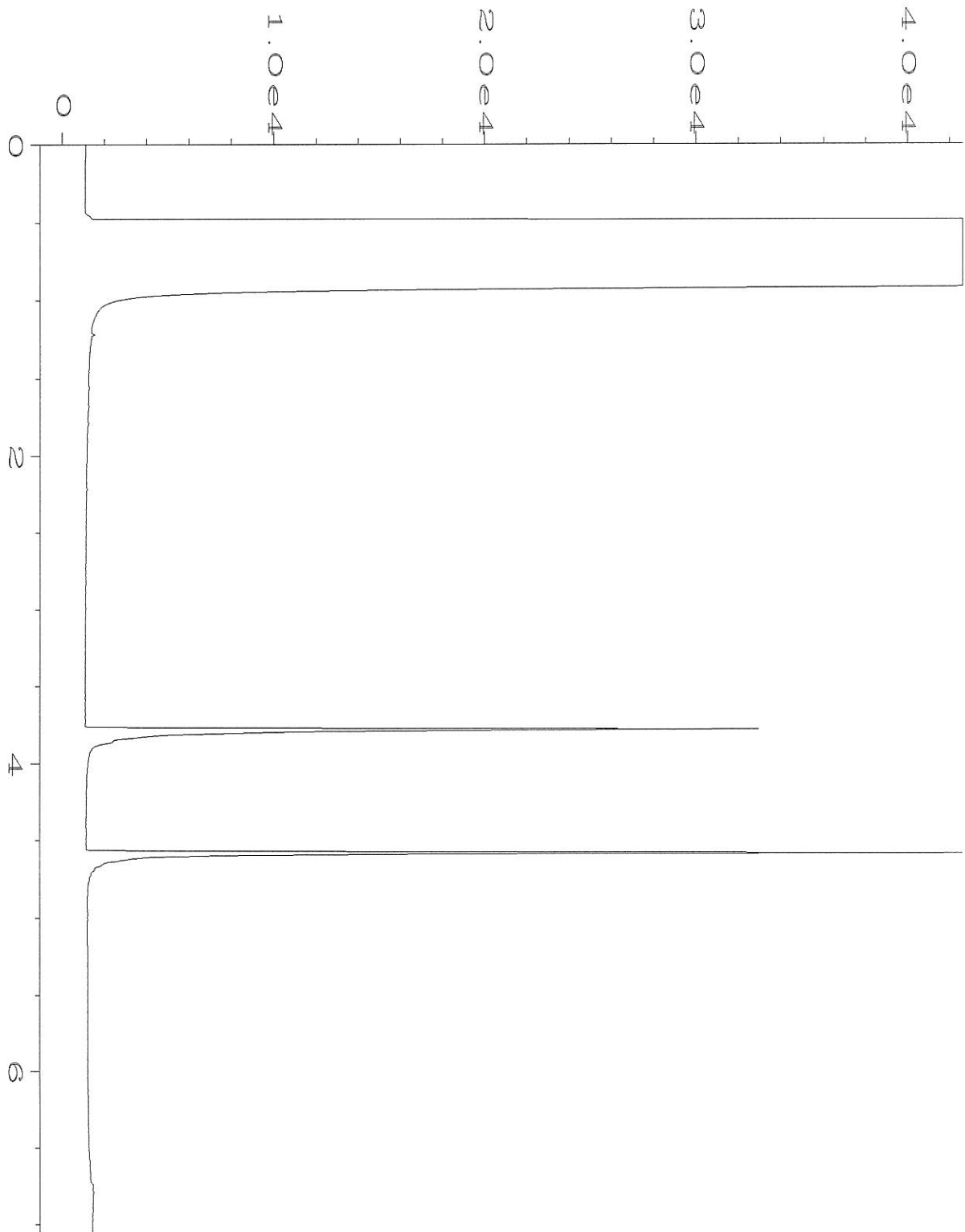




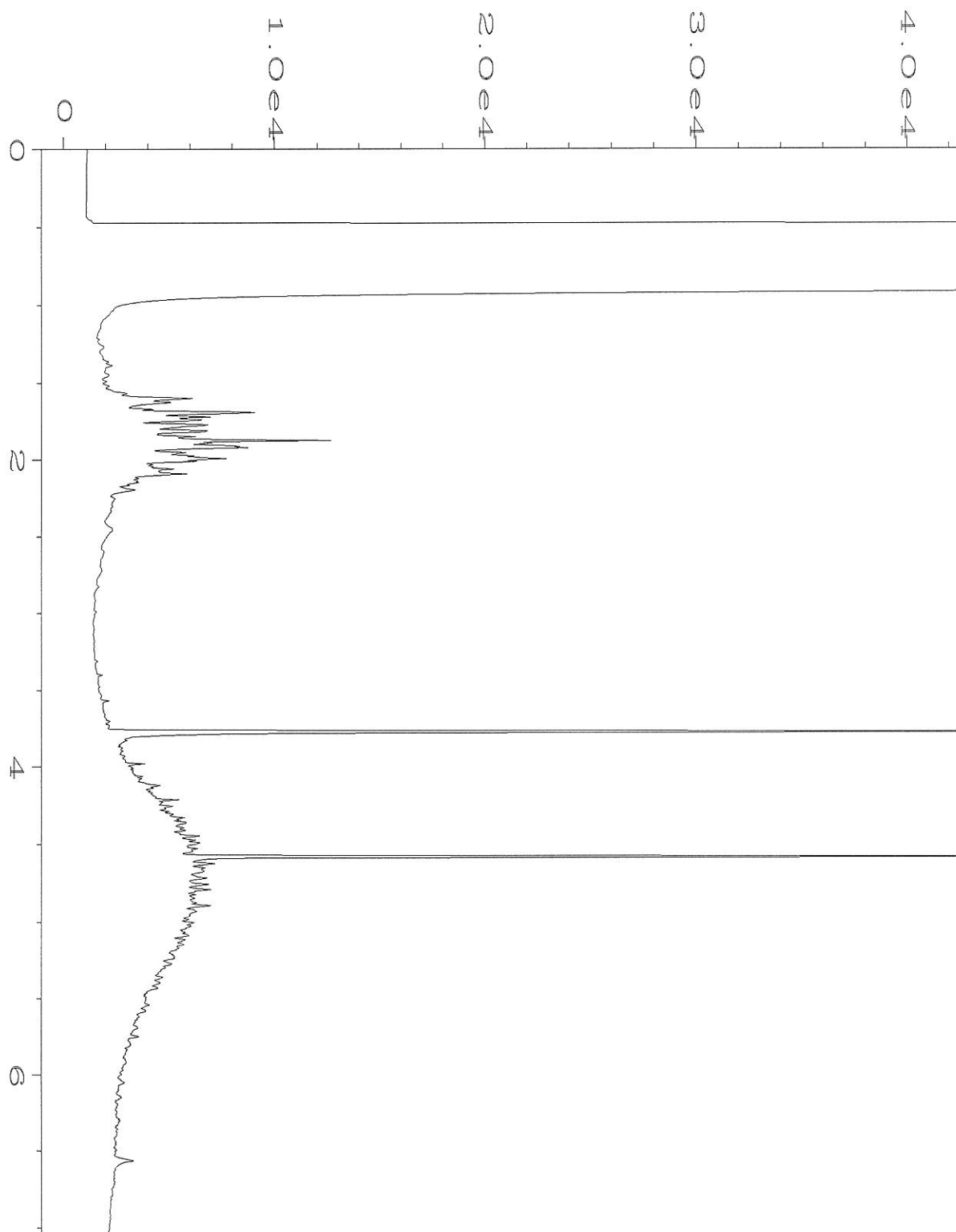
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Operator	: TL	Vial Number	: 65
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-17	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 08:45 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:03 AM		



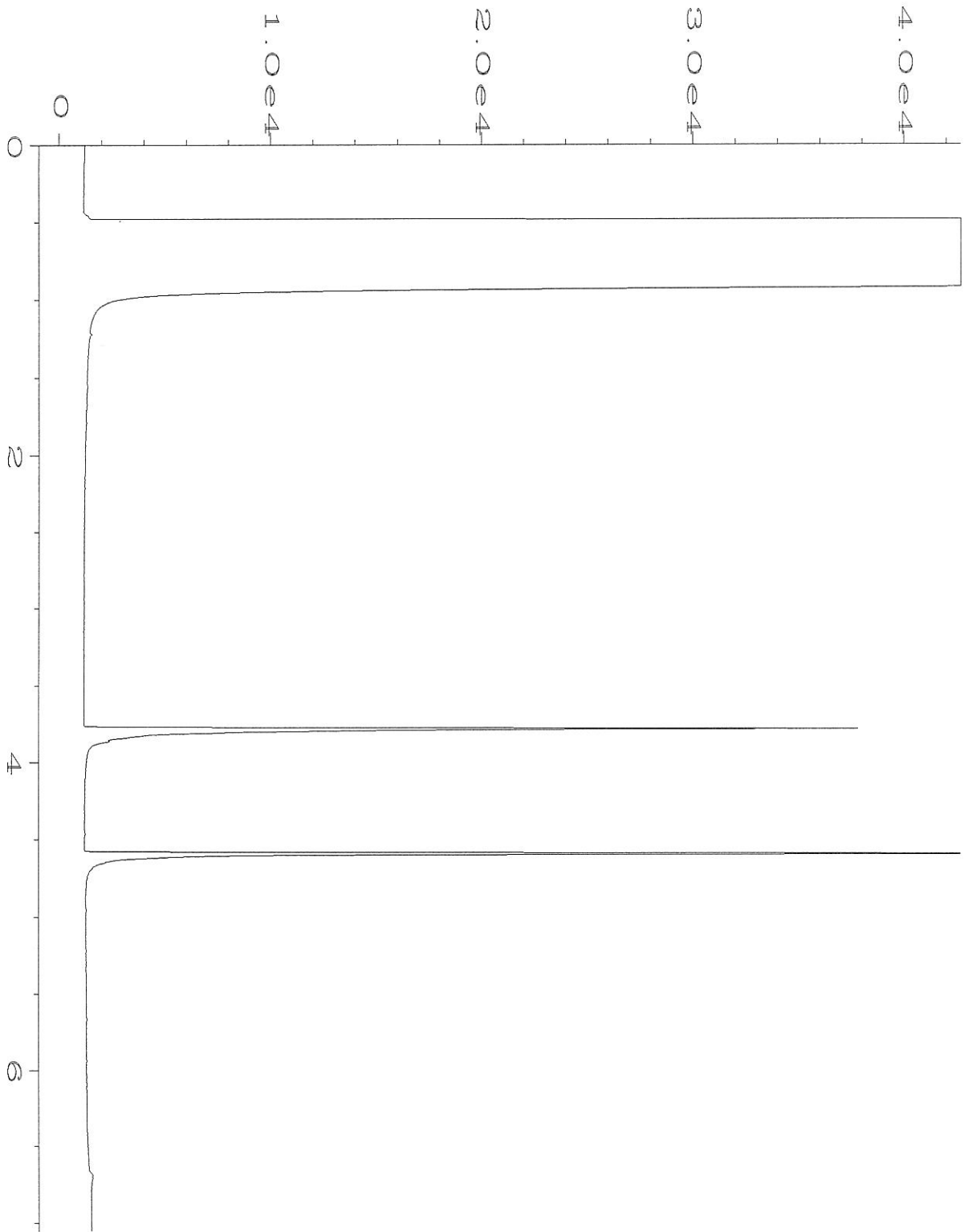
Data File Name	: C:\HPCHEM\4\DATA\10-27-22\066F1101.D	Page Number	: 1
Operator	: TL	Vial Number	: 66
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-18	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 08:56 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:03 AM		



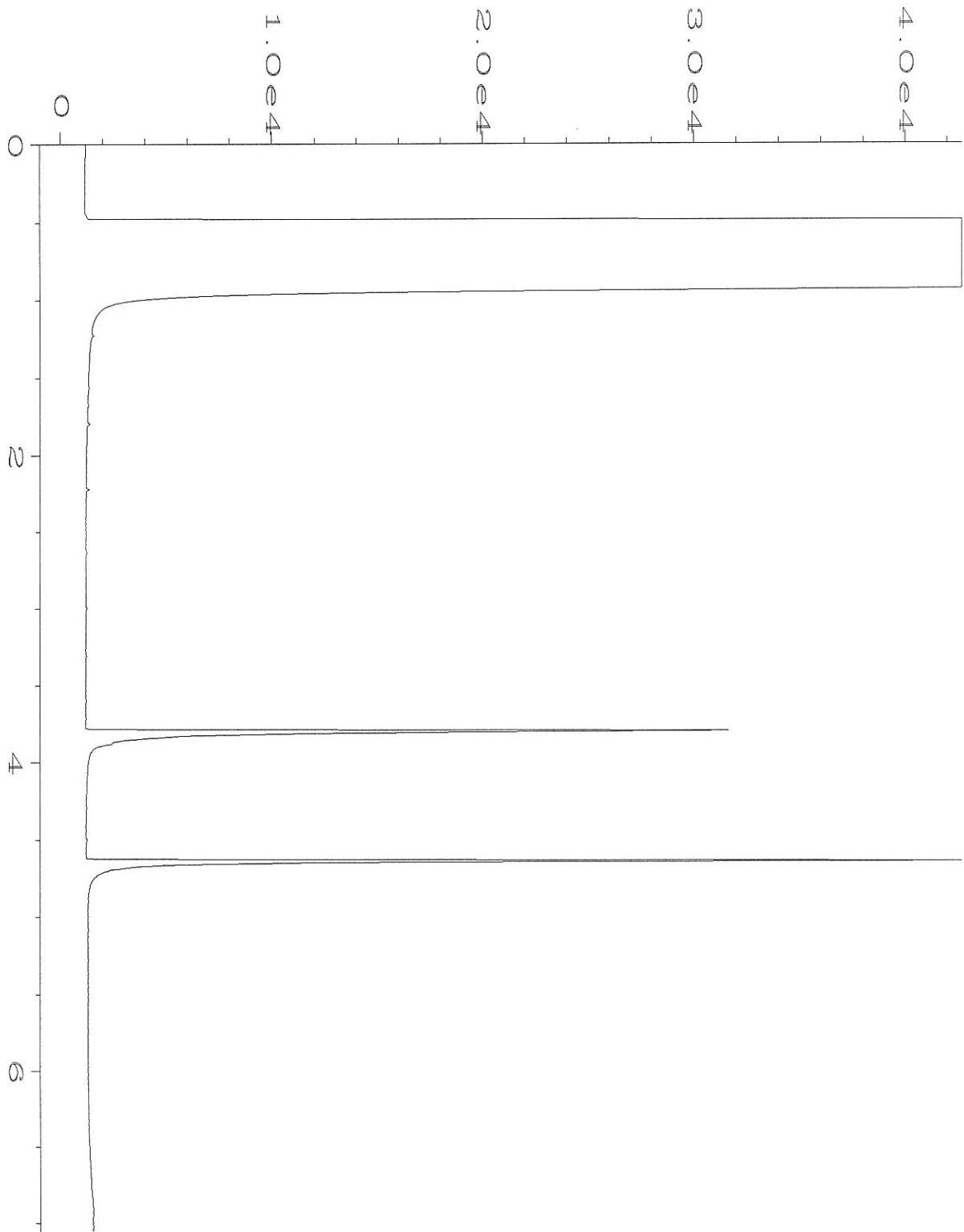
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Operator	: TL	Vial Number	: 67
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-19	Sequence Line	: 11
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 09:07 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:03 AM		



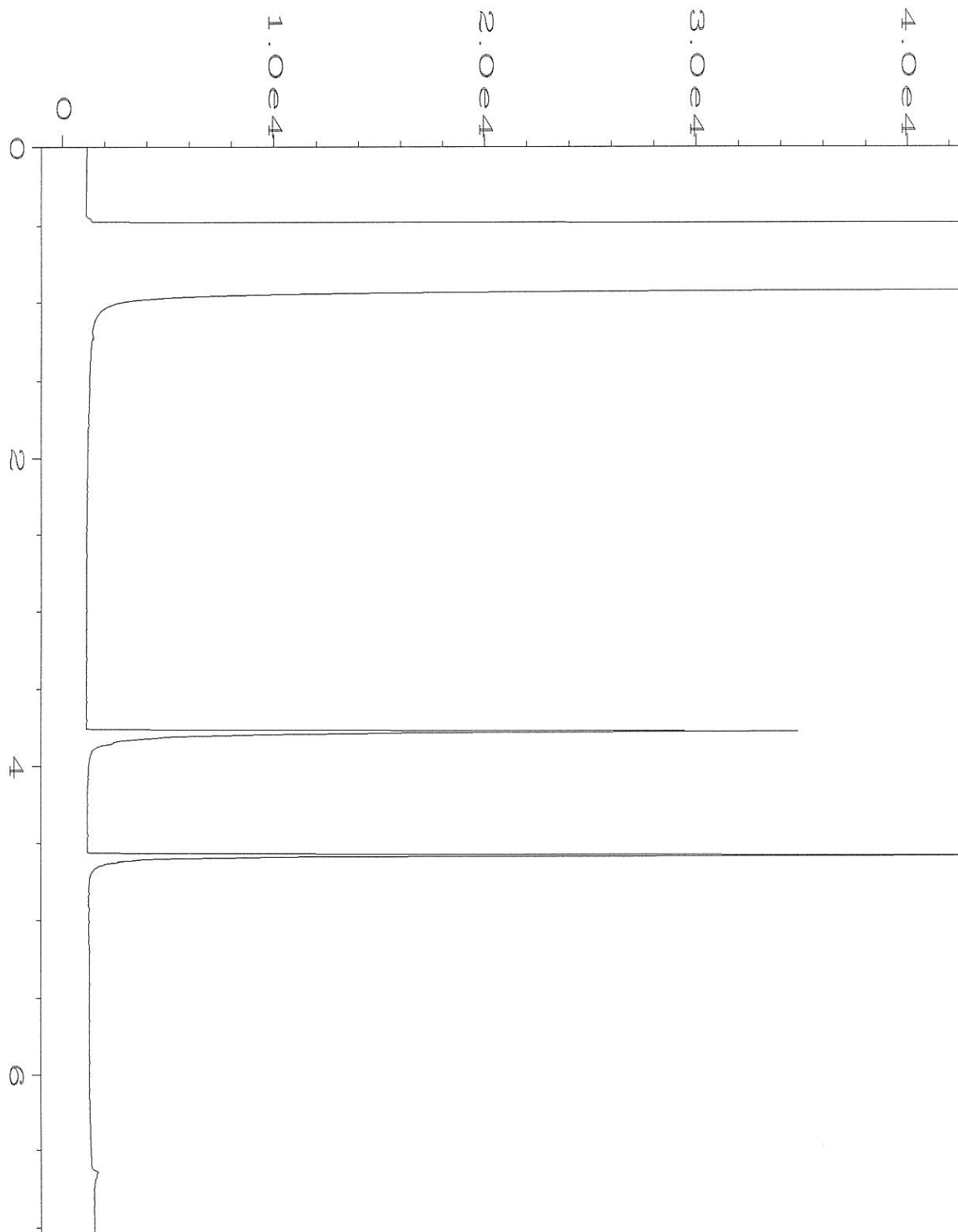
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Operator	: TL	Vial Number	: 68
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-20	Sequence Line	: 11
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 27 Oct 22 09:19 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:03 AM		



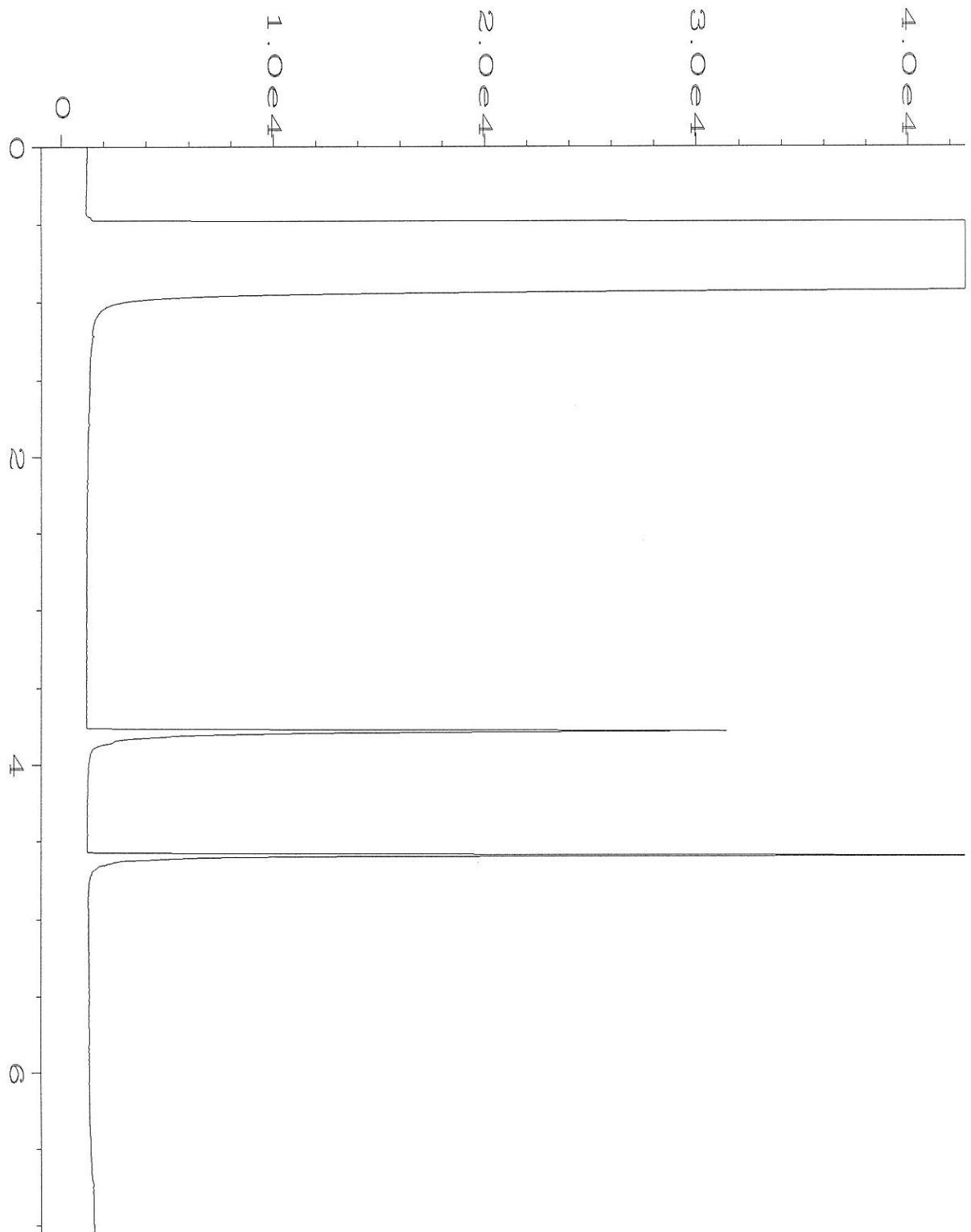
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Operator	: TL	Vial Number	: 17
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-21	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 11:13 AM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 09:59 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-27-22\018F0401.D	Page Number	: 1
Operator	: TL	Vial Number	: 18
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210402-22	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 12:14 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 09:59 AM		

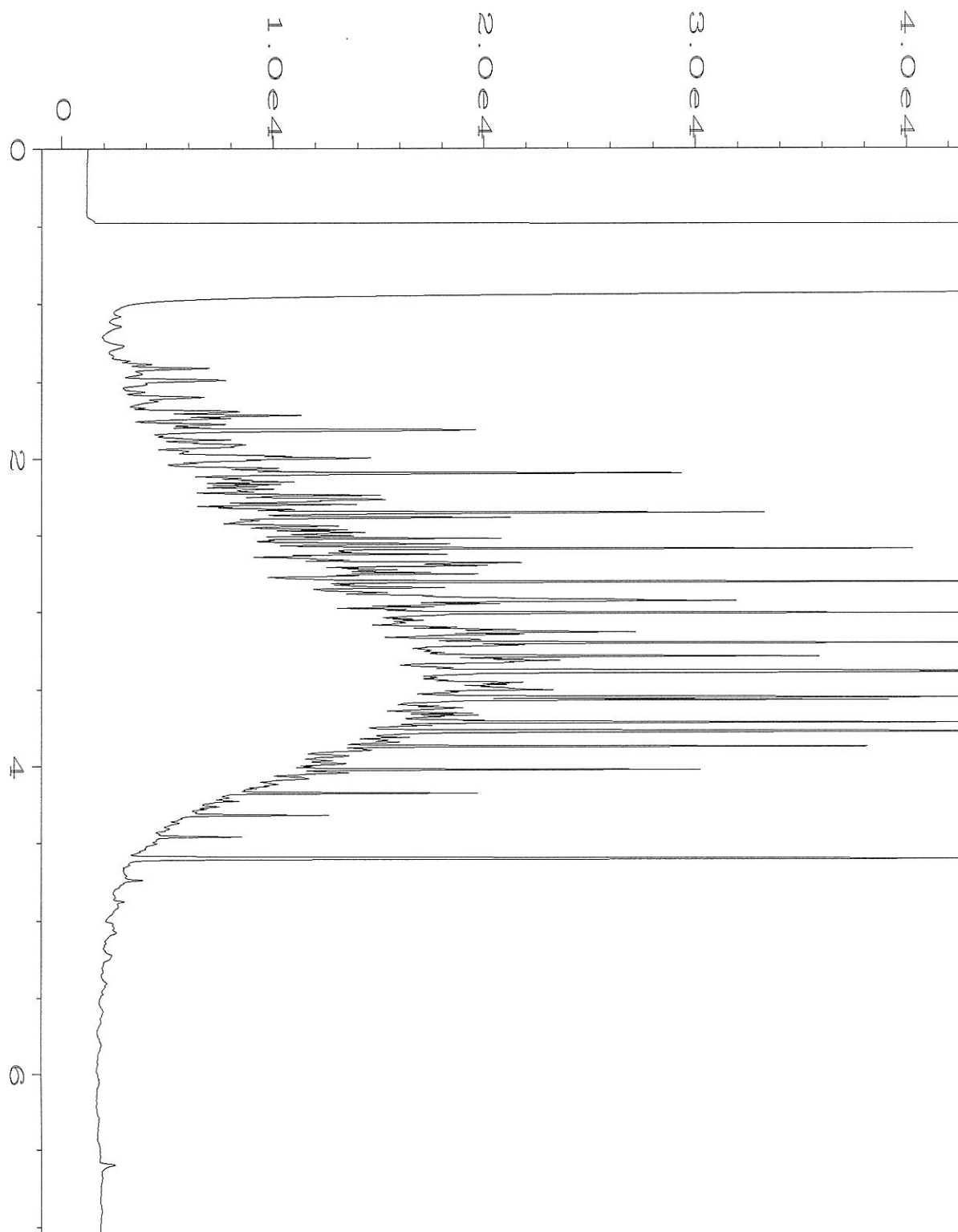


Data File Name	: C:\HPCHEM\4\DATA\10-27-22\045F0701.D	Page Number	: 1
Operator	: TL	Vial Number	: 45
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 02-2658 mb	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 04:14 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:10 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-27-22\013F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 13
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 02-2659 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 10:28 AM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:10 AM		





Data File Name	: C:\HPCHEM\4\DATA\10-27-22\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 66-186M	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 06:15 AM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:09 AM		

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.

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

October 31, 2022

Daniel Babcock, Project Manager  
Aspect Consulting, LLC  
710 2<sup>nd</sup> Ave S, Suite 550  
Seattle, WA 98104

Dear Mr Babcock:

Included are the results from the testing of material submitted on October 27, 2022 from the Texaco Strickland 180357, F&BI 210437 project. There are 17 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Adam Griffin  
ASP1031R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 27, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180357, F&BI 210437 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210437 -01	B-N14-W16-449
210437 -02	B-N14-W14-449
210437 -03	B-N12-W04-438
210437 -04	B-N14-W06-449
210437 -05	B-N14-W12-449
210437 -06	B-N12-W06-438
210437 -07	B-N12-W10-438
210437 -08	B-N14-W10-449
210437 -09	B-N10-W09-430

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22  
Date Received: 10/27/22  
Project: Texaco Strickland 180357, F&BI 210437  
Date Extracted: 10/27/22  
Date Analyzed: 10/28/22

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

Results Reported on a Dry Weight Basis  
Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 58-139)
B-N14-W16-449 210437-01	<5	95
B-N14-W14-449 210437-02	<5	90
B-N12-W04-438 210437-03	<5	89
B-N14-W06-449 210437-04	<5	90
B-N14-W12-449 210437-05	<5	89
B-N12-W06-438 210437-06	<5	91
B-N12-W10-438 210437-07	<5	89
B-N14-W10-449 210437-08	<5	89
B-N10-W09-430 210437-09	<5	88
Method Blank 02-2572 MB	<5	125

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22  
 Date Received: 10/27/22  
 Project: Texaco Strickland 180357, F&BI 210437  
 Date Extracted: 10/27/22  
 Date Analyzed: 10/27/22

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

Results Reported on a Dry Weight Basis  
 Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
B-N14-W16-449 210437-01	<50	<250	92
B-N14-W14-449 210437-02	<50	<250	111
B-N12-W04-438 210437-03	<50	<250	87
B-N14-W06-449 210437-04	<50	<250	87
B-N14-W12-449 210437-05	<50	<250	89
B-N12-W06-438 210437-06	<50	<250	89
B-N12-W10-438 210437-07	<50	<250	97
B-N14-W10-449 210437-08	<50	<250	119
B-N10-W09-430 210437-09	<50	<250	88
Method Blank 02-2659 MB	<50	<250	88

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N14-W16-449	Client:	Aspect Consulting, LLC
Date Received:	10/27/22	Project:	Texaco Strickland 180357, F&BI 210437
Date Extracted:	10/28/22	Lab ID:	210437-01
Date Analyzed:	10/28/22	Data File:	102806.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	101	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	0.10
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N14-W14-449	Client:	Aspect Consulting, LLC
Date Received:	10/27/22	Project:	Texaco Strickland 180357, F&BI 210437
Date Extracted:	10/28/22	Lab ID:	210437-02
Date Analyzed:	10/28/22	Data File:	102807.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	102	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N12-W04-438	Client:	Aspect Consulting, LLC
Date Received:	10/27/22	Project:	Texaco Strickland 180357, F&BI 210437
Date Extracted:	10/28/22	Lab ID:	210437-03
Date Analyzed:	10/28/22	Data File:	102808.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N14-W06-449	Client:	Aspect Consulting, LLC
Date Received:	10/27/22	Project:	Texaco Strickland 180357, F&BI 210437
Date Extracted:	10/28/22	Lab ID:	210437-04
Date Analyzed:	10/28/22	Data File:	102810.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	102	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N14-W12-449	Client:	Aspect Consulting, LLC
Date Received:	10/27/22	Project:	Texaco Strickland 180357, F&BI 210437
Date Extracted:	10/28/22	Lab ID:	210437-05
Date Analyzed:	10/28/22	Data File:	102811.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	90	109
Toluene-d8	102	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N12-W06-438	Client:	Aspect Consulting, LLC
Date Received:	10/27/22	Project:	Texaco Strickland 180357, F&BI 210437
Date Extracted:	10/28/22	Lab ID:	210437-06
Date Analyzed:	10/28/22	Data File:	102812.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	99	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N12-W10-438	Client:	Aspect Consulting, LLC
Date Received:	10/27/22	Project:	Texaco Strickland 180357, F&BI 210437
Date Extracted:	10/28/22	Lab ID:	210437-07
Date Analyzed:	10/28/22	Data File:	102813.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N14-W10-449	Client:	Aspect Consulting, LLC
Date Received:	10/27/22	Project:	Texaco Strickland 180357, F&BI 210437
Date Extracted:	10/28/22	Lab ID:	210437-08
Date Analyzed:	10/28/22	Data File:	102814.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	102	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	B-N10-W09-430	Client:	Aspect Consulting, LLC
Date Received:	10/27/22	Project:	Texaco Strickland 180357, F&BI 210437
Date Extracted:	10/28/22	Lab ID:	210437-09
Date Analyzed:	10/28/22	Data File:	102815.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	101	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180357, F&BI 210437
Date Extracted:	10/28/22	Lab ID:	02-2614 mb
Date Analyzed:	10/28/22	Data File:	102805.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22

Date Received: 10/27/22

Project: Texaco Strickland 180357, F&BI 210437

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

Laboratory Code: 210402-15 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	105	71-131



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22

Date Received: 10/27/22

Project: Texaco Strickland 180357, F&BI 210437

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

Laboratory Code: 210402-21 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	90	92	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	92	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/31/22

Date Received: 10/27/22

Project: Texaco Strickland 180357, F&BI 210437

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

Laboratory Code: 210437-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	<0.03	74	69	29-129	7
Toluene	mg/kg (ppm)	1	<0.05	82	75	35-130	9
Ethylbenzene	mg/kg (ppm)	1	<0.05	85	78	32-137	9
m,p-Xylene	mg/kg (ppm)	2	<0.1	85	80	34-136	6
o-Xylene	mg/kg (ppm)	1	0.098	75	72	33-134	4
Naphthalene	mg/kg (ppm)	1	<0.05	84	76	14-157	10

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	98	71-118
Toluene	mg/kg (ppm)	1	109	66-126
Ethylbenzene	mg/kg (ppm)	1	112	64-123
m,p-Xylene	mg/kg (ppm)	2	111	78-122
o-Xylene	mg/kg (ppm)	1	108	77-124
Naphthalene	mg/kg (ppm)	1	106	63-140

# 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.

**SAMPLE CHAIN OF CUSTODY**

10/27/22

CO3/VS-B2

210437

Report To David Edelstein Nelson & Son

Company Aspect Consulting

Address \_\_\_\_\_  
City, State, ZIP \_\_\_\_\_

Phone 617 254 9494 Email dadelstein@aspectconsulting.com

SAMPLERS (signature) <u>[Signature]</u>	
PROJECT NAME <u>Texas Strickland</u>	PO # <u>180357</u>
REMARKS	INVOICE TO

Page # 1 of 1

TURNAROUND TIME

Standard turnaround

RUSH 24-hr

Rush charges authorized by: [Signature]

SAMPLE DISPOSAL

Archive samples

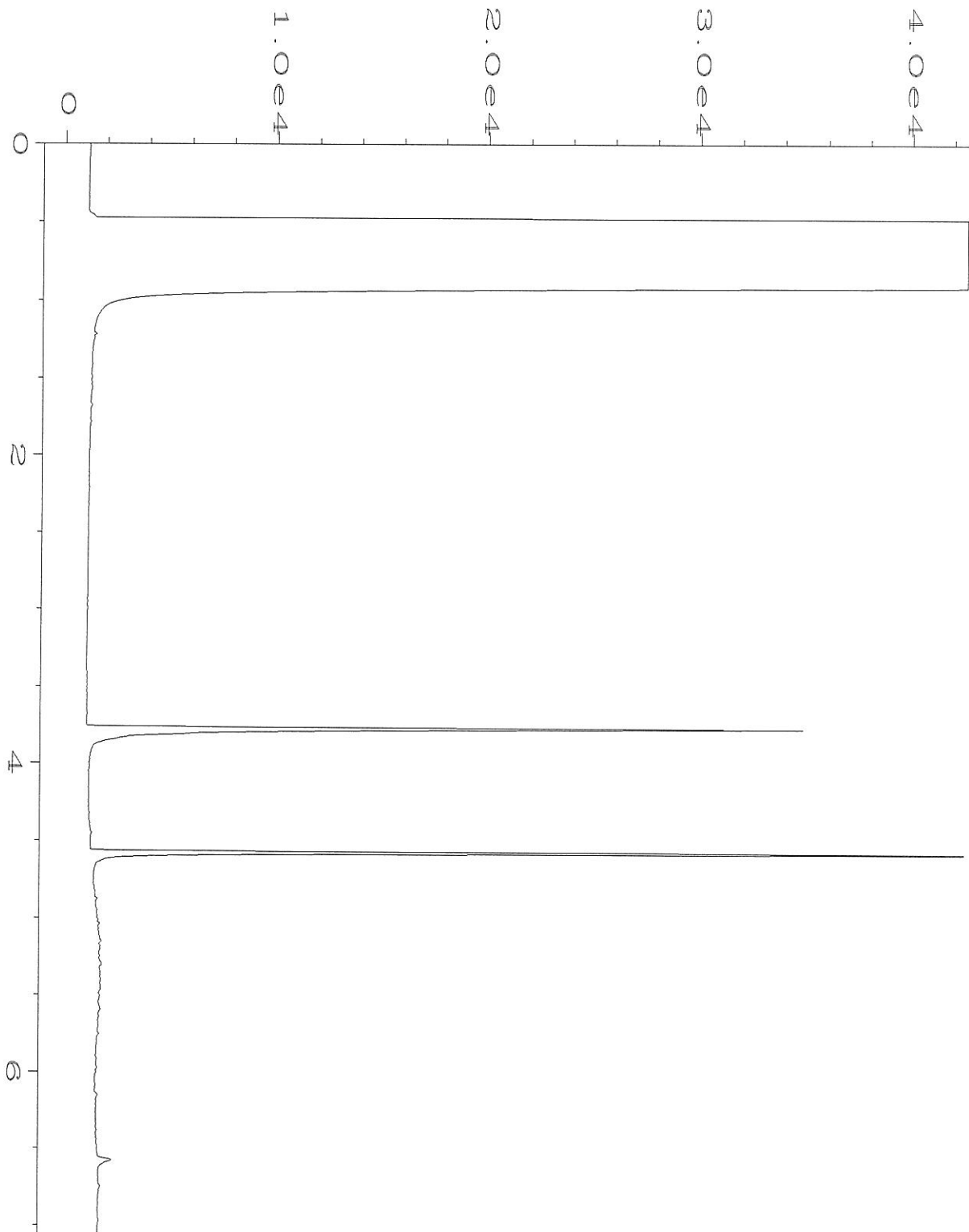
Other \_\_\_\_\_

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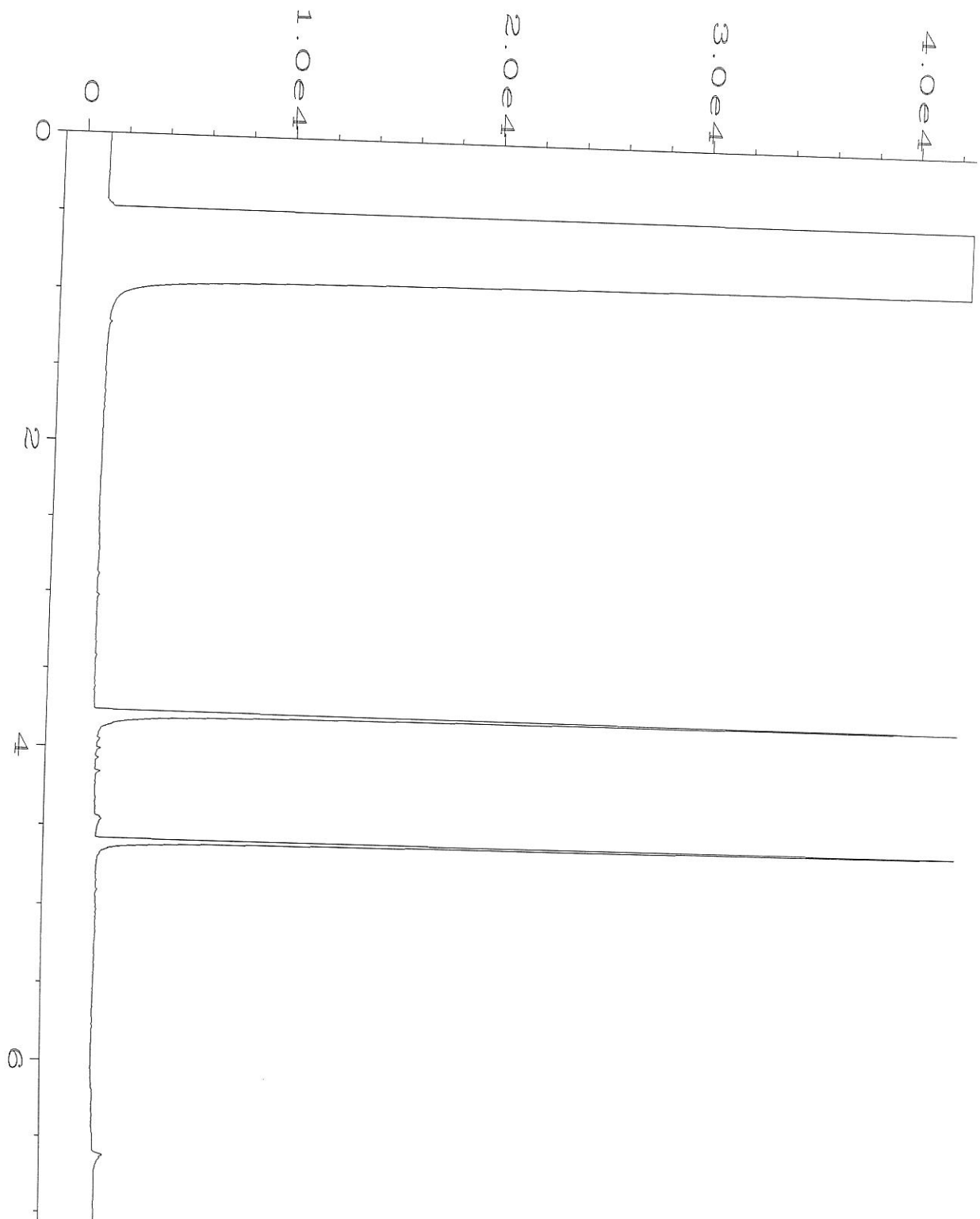
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B-N14-W16-449	01 A-E	10/27/22	0745	Soil	5	X	X						X	
B-N14-W14-449	02		0755			X	X							
B-N12-W24-438	03		0840											
B-N14-W06-449	04		0850											
B-N14-W12-449	05		1235											
B-N12-W06-438	06		0905											
B-N12-W10-438	07		1240											
B-N14-W10-449	08		1245											
B-N10-W09-430	09		1255											

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

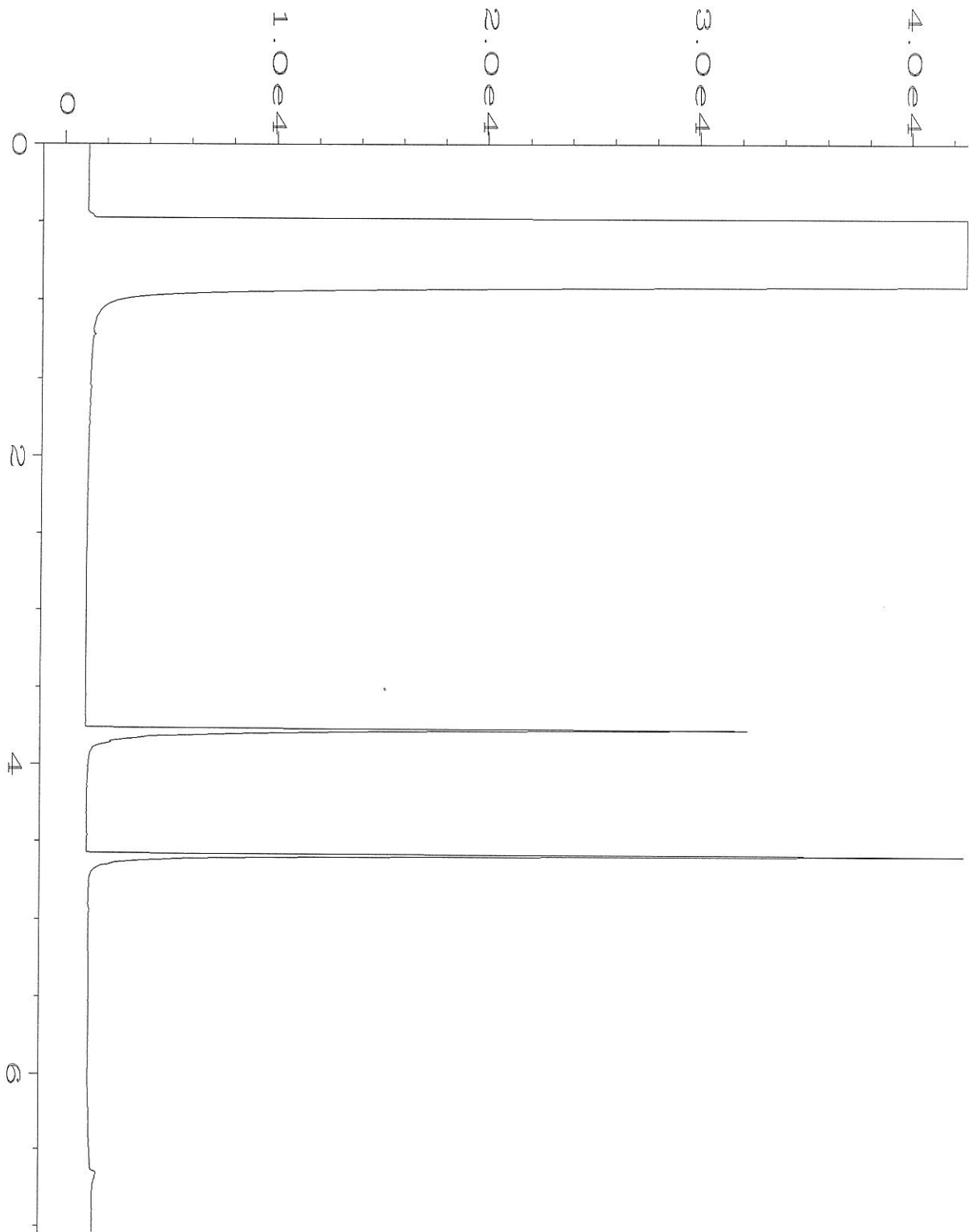
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Received by: <u>[Signature]</u>	<u>[Signature]</u>	<u>ANH PHAN</u>		<u>ESB</u>		10/27/22	14529
Reinquished by:							
Received by:				Samples received at			



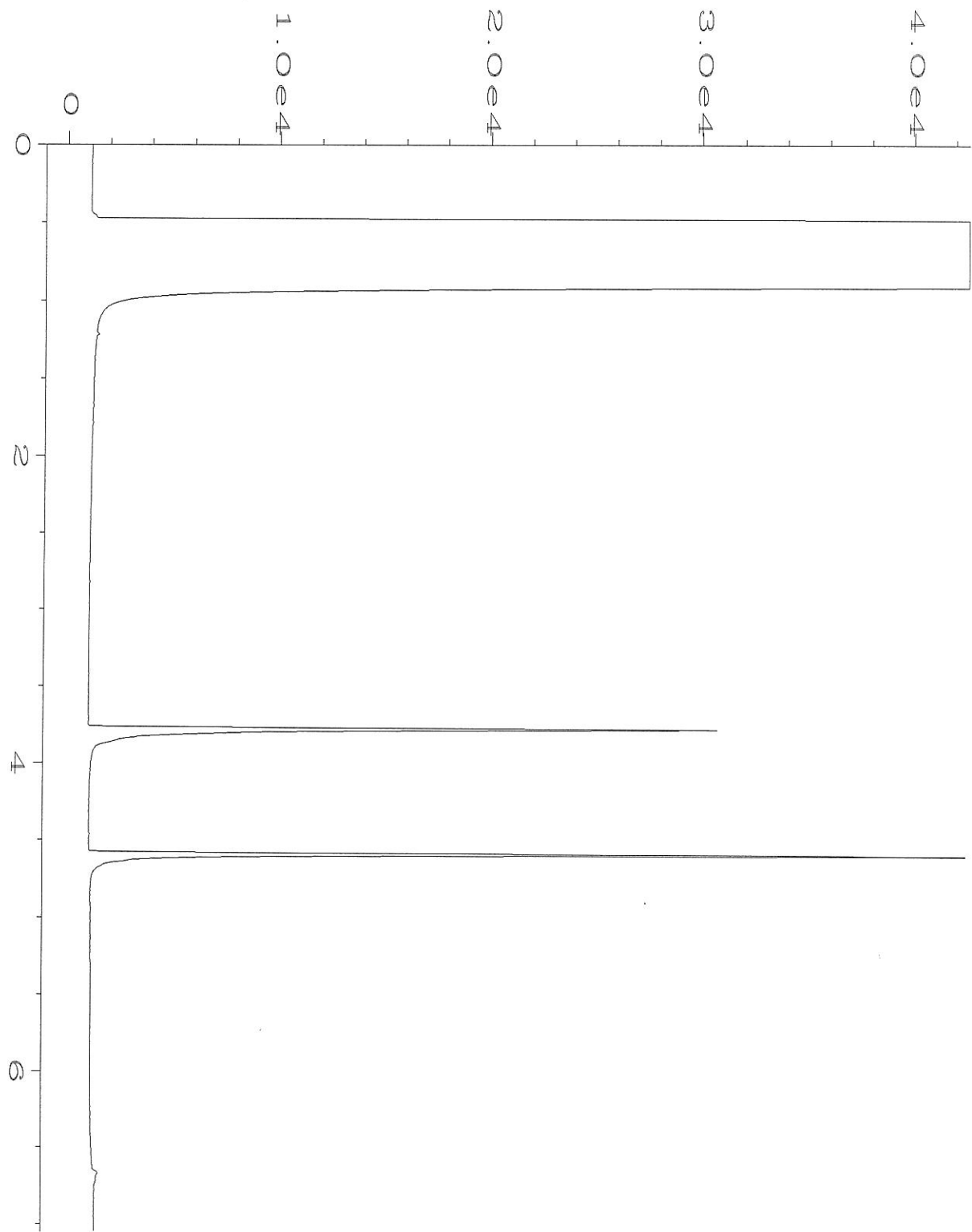
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Operator	: TL	Vial Number	: 69
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210437-01	Sequence Line	: 13
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 09:53 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:04 AM		



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Operator	: TL	Vial Number	: 70
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210437-02	Sequence Line	: 13
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Acquired on	: 27 Oct 22 10:04 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:04 AM		

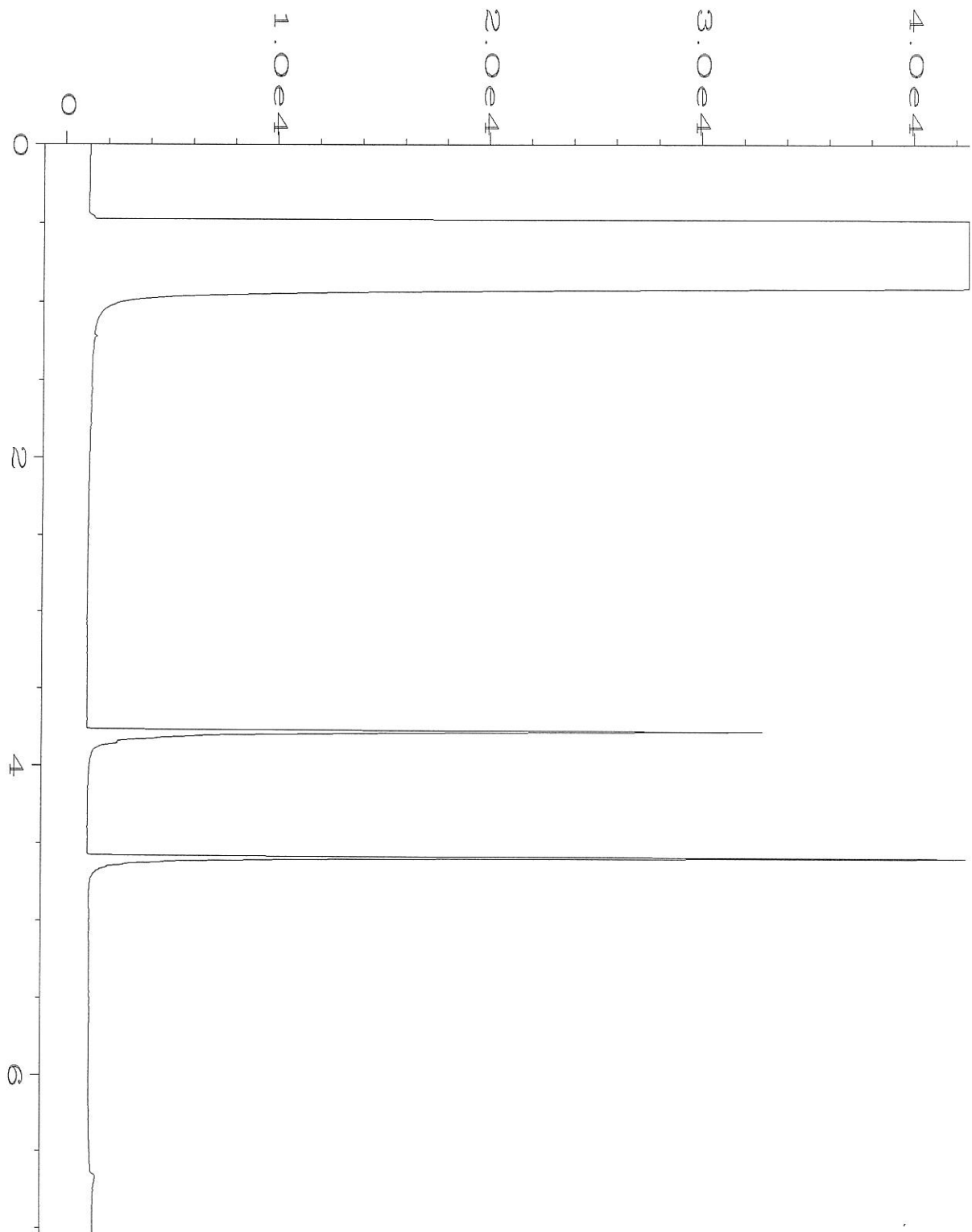


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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210437-03	Sequence Line	: 13
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Acquired on	: 27 Oct 22 10:16 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:04 AM		

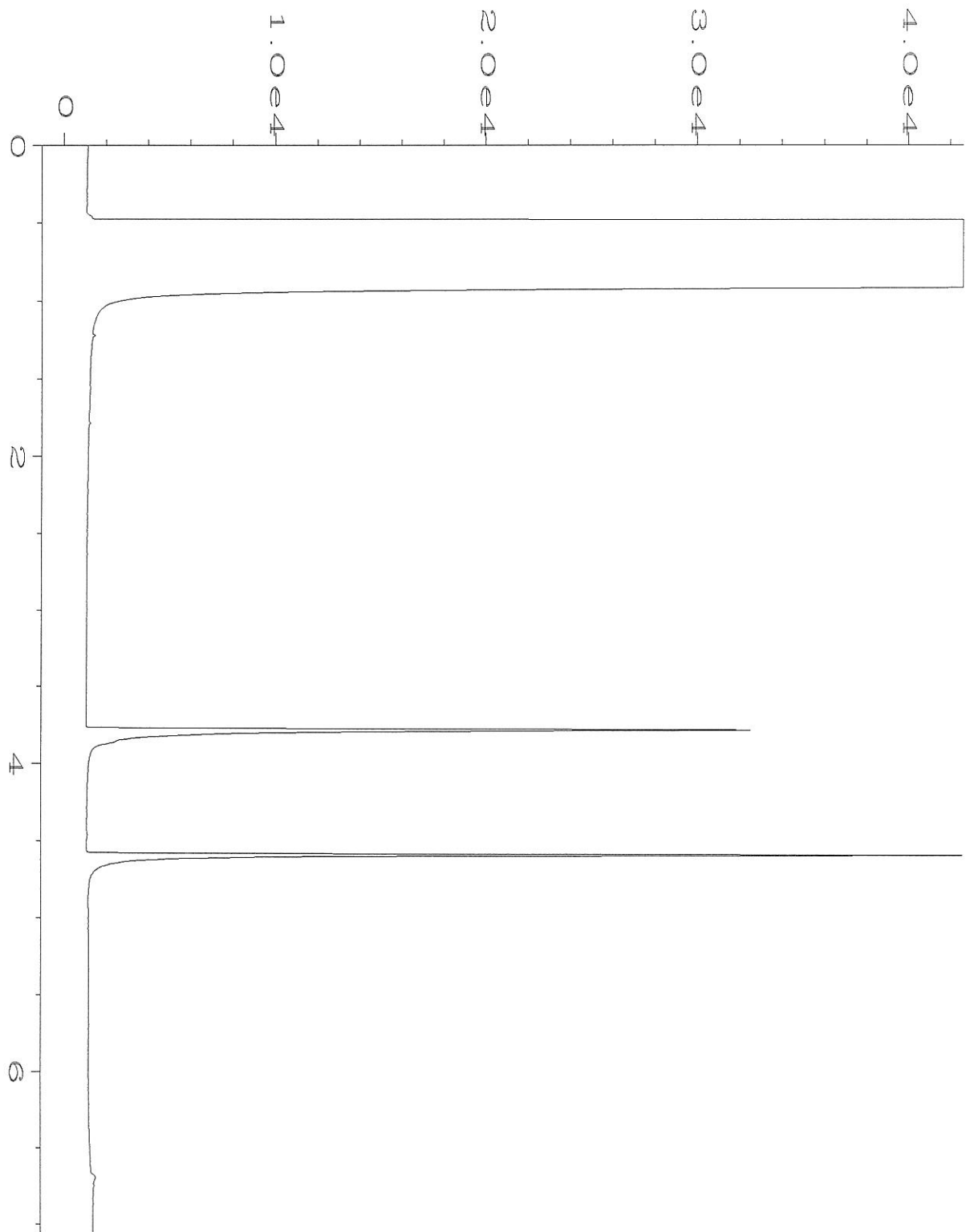


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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210437-04	Sequence Line	: 13
Run Time Bar Code:		Instrument Method:	DX.MTH
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Report Created on:	28 Oct 22 10:04 AM		

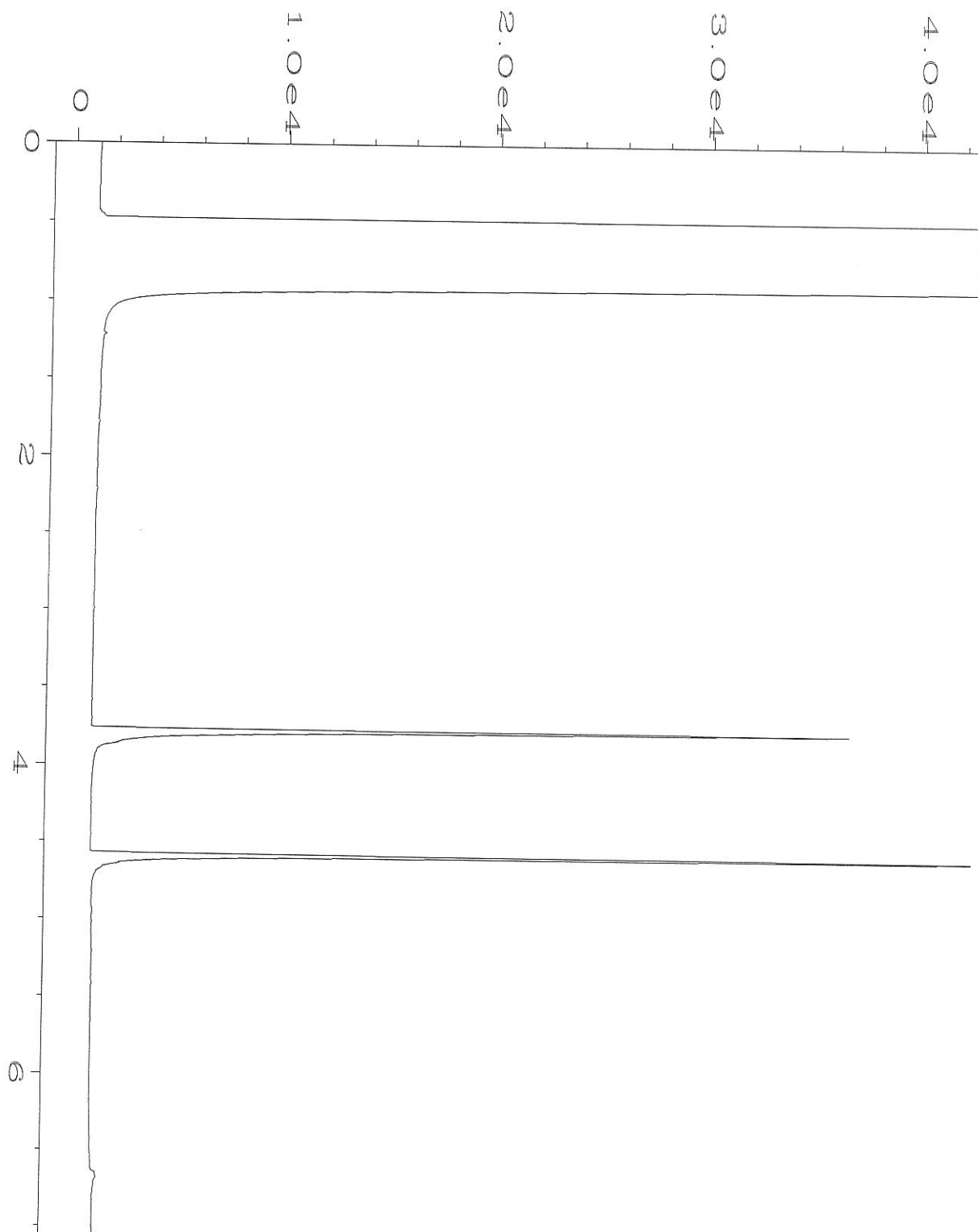




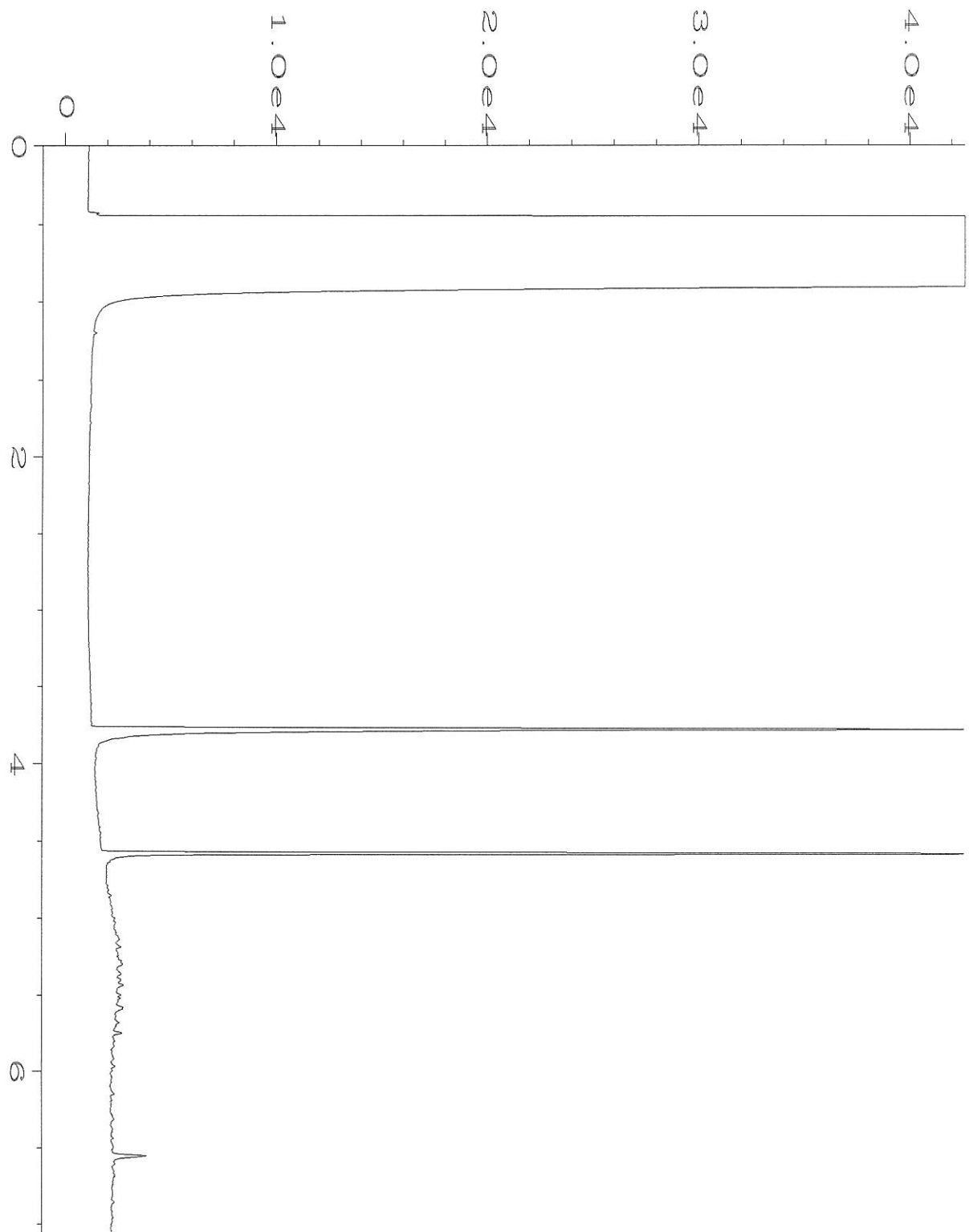
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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210437-05	Sequence Line	: 13
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 10:38 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:04 AM		



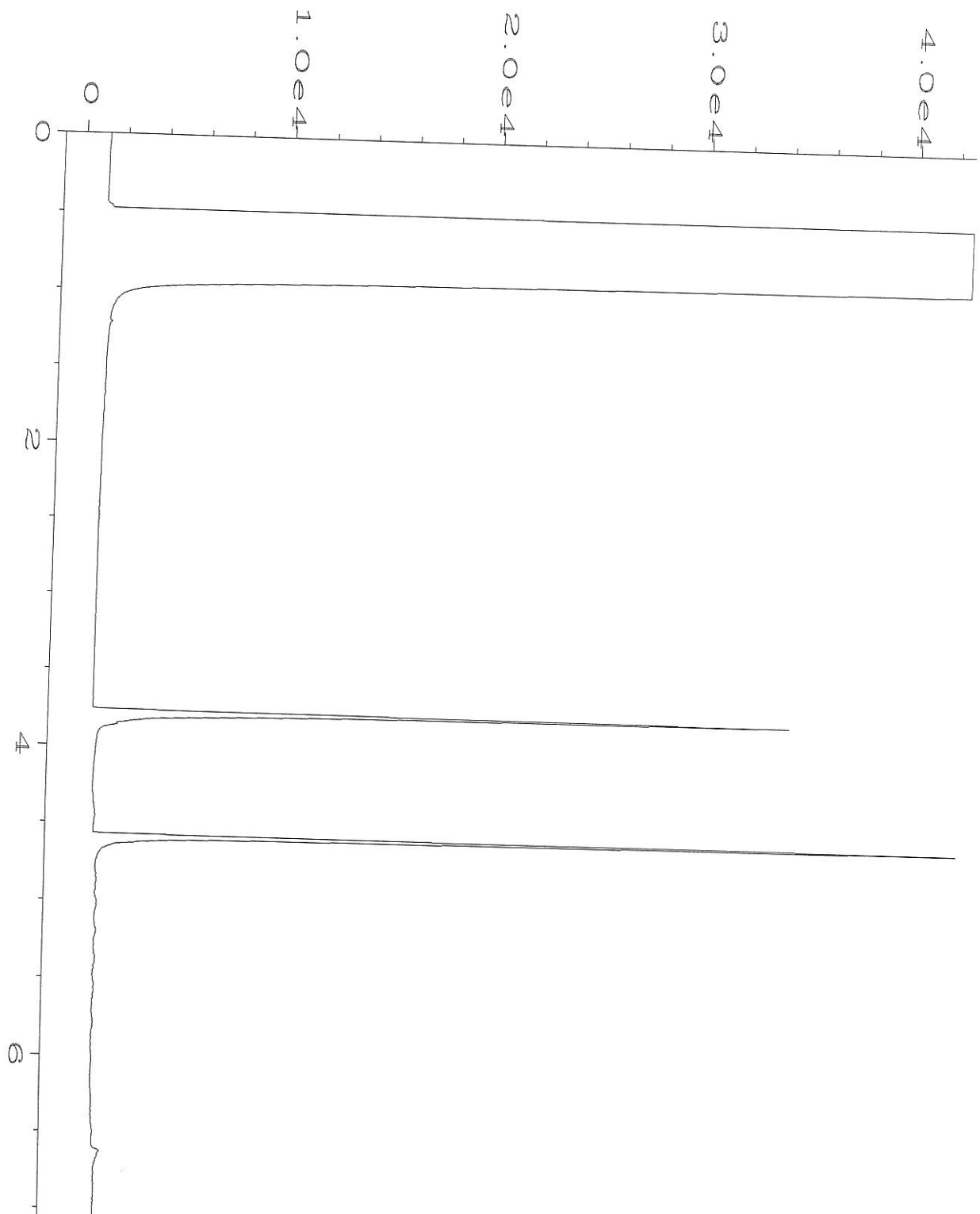
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Operator	: TL	Vial Number	: 74
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210437-06	Sequence Line	: 13
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 10:50 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:05 AM		



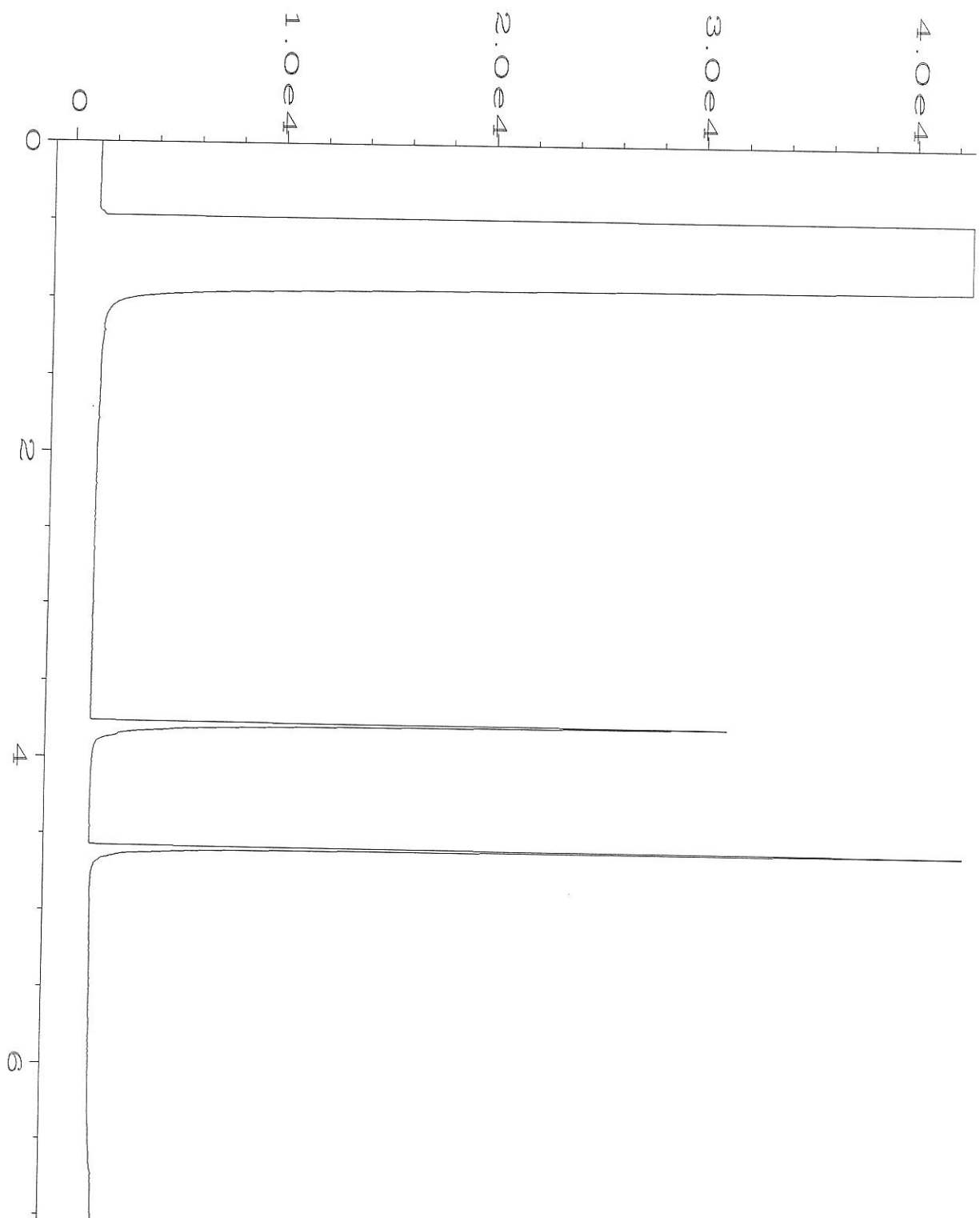
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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210437-07	Sequence Line	: 13
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 11:01 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:05 AM		



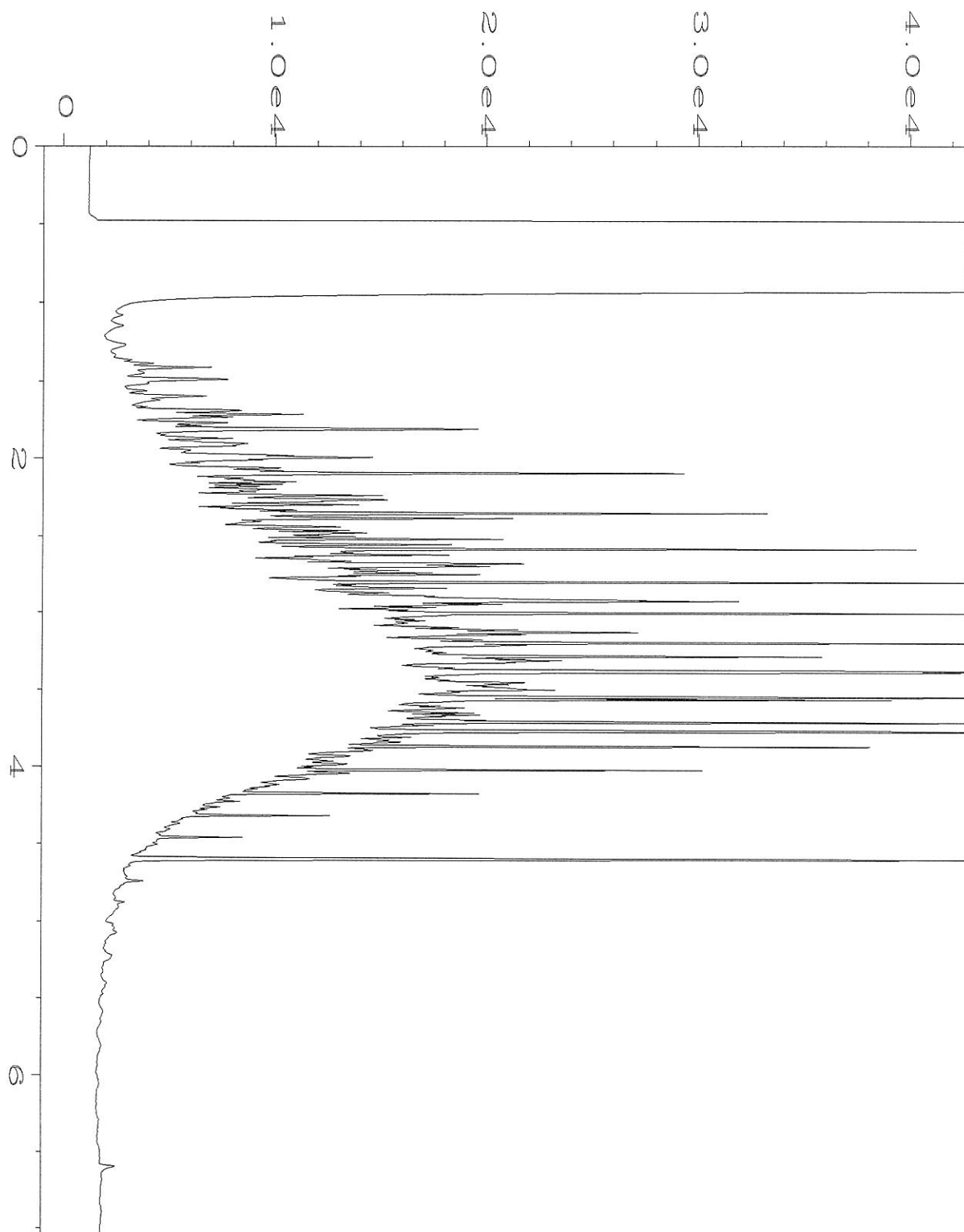
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Operator	: TL	Vial Number	: 76
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210437-08	Sequence Line	: 13
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 11:13 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:05 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-27-22\077F1301.D	Page Number	: 1
Operator	: TL	Vial Number	: 77
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210437-09	Sequence Line	: 13
Run Time Bar Code:		Instrument Method	: DX.MTH
Acquired on	: 27 Oct 22 11:24 PM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:05 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-27-22\013F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 13
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 02-2659 mb	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 10:28 AM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:10 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-27-22\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 66-186M	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 27 Oct 22 06:15 AM	Analysis Method	: DX.MTH
Report Created on:	28 Oct 22 10:09 AM		

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.

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

October 21, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
350 Madison Ave. N.  
Bainbridge Island, WA 98110-1810

Dear Mr Griffin:

Included are the results from the testing of material submitted on October 17, 2022 from the Texaco Strickland 180387, F&BI 210237 project. There are 13 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1021R.DOC



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 17, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 180387, F&BI 210237 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210237 -01	SW-N02-437
210237 -02	SW-N04-437
210237 -03	SW-N07-437
210237 -04	SW-N10-437
210237 -05	SW-N12-437

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/22  
Date Received: 10/17/22  
Project: Texaco Strickland 180387, F&BI 210237  
Date Extracted: 10/19/22  
Date Analyzed: 10/19/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
SW-N02-437 210237-01	<5	109
SW-N04-437 210237-02	<5	107
SW-N07-437 210237-03	<5	99
SW-N10-437 210237-04	<5	113
SW-N12-437 210237-05	<5	108
Method Blank 02-2513 MB	<5	108

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/22  
Date Received: 10/17/22  
Project: Texaco Strickland 180387, F&BI 210237  
Date Extracted: 10/18/22  
Date Analyzed: 10/18/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
SW-N02-437 210237-01	<50	<250	78
SW-N04-437 210237-02	<50	<250	78
SW-N07-437 210237-03	<50	<250	74
SW-N10-437 210237-04	<50	<250	72
SW-N12-437 210237-05	<50	<250	49
Method Blank 02-2532 MB2	<50	<250	54

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N02-437	Client:	Aspect Consulting, LLC
Date Received:	10/17/22	Project:	Texaco Strickland 180387
Date Extracted:	10/18/22	Lab ID:	210237-01
Date Analyzed:	10/18/22	Data File:	101810.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N04-437	Client:	Aspect Consulting, LLC
Date Received:	10/17/22	Project:	Texaco Strickland 180387
Date Extracted:	10/18/22	Lab ID:	210237-02
Date Analyzed:	10/18/22	Data File:	101811.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	90	109
Toluene-d8	96	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N07-437	Client:	Aspect Consulting, LLC
Date Received:	10/17/22	Project:	Texaco Strickland 180387
Date Extracted:	10/18/22	Lab ID:	210237-03
Date Analyzed:	10/18/22	Data File:	101812.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	98	90	109
Toluene-d8	96	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	0.057
Ethylbenzene	0.085
m,p-Xylene	0.23
o-Xylene	0.054
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N10-437	Client:	Aspect Consulting, LLC
Date Received:	10/17/22	Project:	Texaco Strickland 180387
Date Extracted:	10/18/22	Lab ID:	210237-04
Date Analyzed:	10/18/22	Data File:	101813.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	90	109
Toluene-d8	96	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N12-437	Client:	Aspect Consulting, LLC
Date Received:	10/17/22	Project:	Texaco Strickland 180387
Date Extracted:	10/18/22	Lab ID:	210237-05
Date Analyzed:	10/18/22	Data File:	101814.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	95	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 180387
Date Extracted:	10/18/22	Lab ID:	02-2482 mb
Date Analyzed:	10/18/22	Data File:	101805.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	95	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/22

Date Received: 10/17/22

Project: Texaco Strickland 180387, F&BI 210237

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

Laboratory Code: 210237-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	115	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/22

Date Received: 10/17/22

Project: Texaco Strickland 180387, F&BI 210237

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

Laboratory Code: 210228-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	86	88	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	90	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/21/22

Date Received: 10/17/22

Project: Texaco Strickland 180387, F&BI 210237

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

Laboratory Code: 210205-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	<0.03	69	75	29-129	8
Toluene	mg/kg (ppm)	1	<0.05	67	73	35-130	9
Ethylbenzene	mg/kg (ppm)	1	<0.05	62	69	32-137	11
m,p-Xylene	mg/kg (ppm)	2	<0.1	60	67	34-136	11
o-Xylene	mg/kg (ppm)	1	<0.05	61	69	33-134	12
Naphthalene	mg/kg (ppm)	1	<0.05	79	92	14-157	15

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	97	71-118
Toluene	mg/kg (ppm)	1	103	66-126
Ethylbenzene	mg/kg (ppm)	1	104	64-123
m,p-Xylene	mg/kg (ppm)	2	103	78-122
o-Xylene	mg/kg (ppm)	1	104	77-124
Naphthalene	mg/kg (ppm)	1	100	63-140

# 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.

810237

Report To Adam Griffin; Daniel Babcock

Company Aspect Consulting

Address 710 2nd Ave Ste 550

City, State, ZIP Seattle, WA

Phone \_\_\_\_\_ Email \_\_\_\_\_

SAMPLE CHAIN OF CUSTODY

10/17/22

Page # 1 of 1

SAMPLERS (signature) *Adam Griffin*

PROJECT NAME  
PERUO-SMCKEARD

PO #

180327

REMARKS

INVOICE TO

Project specific RLS? - Yes / No

ANALYSES REQUESTED

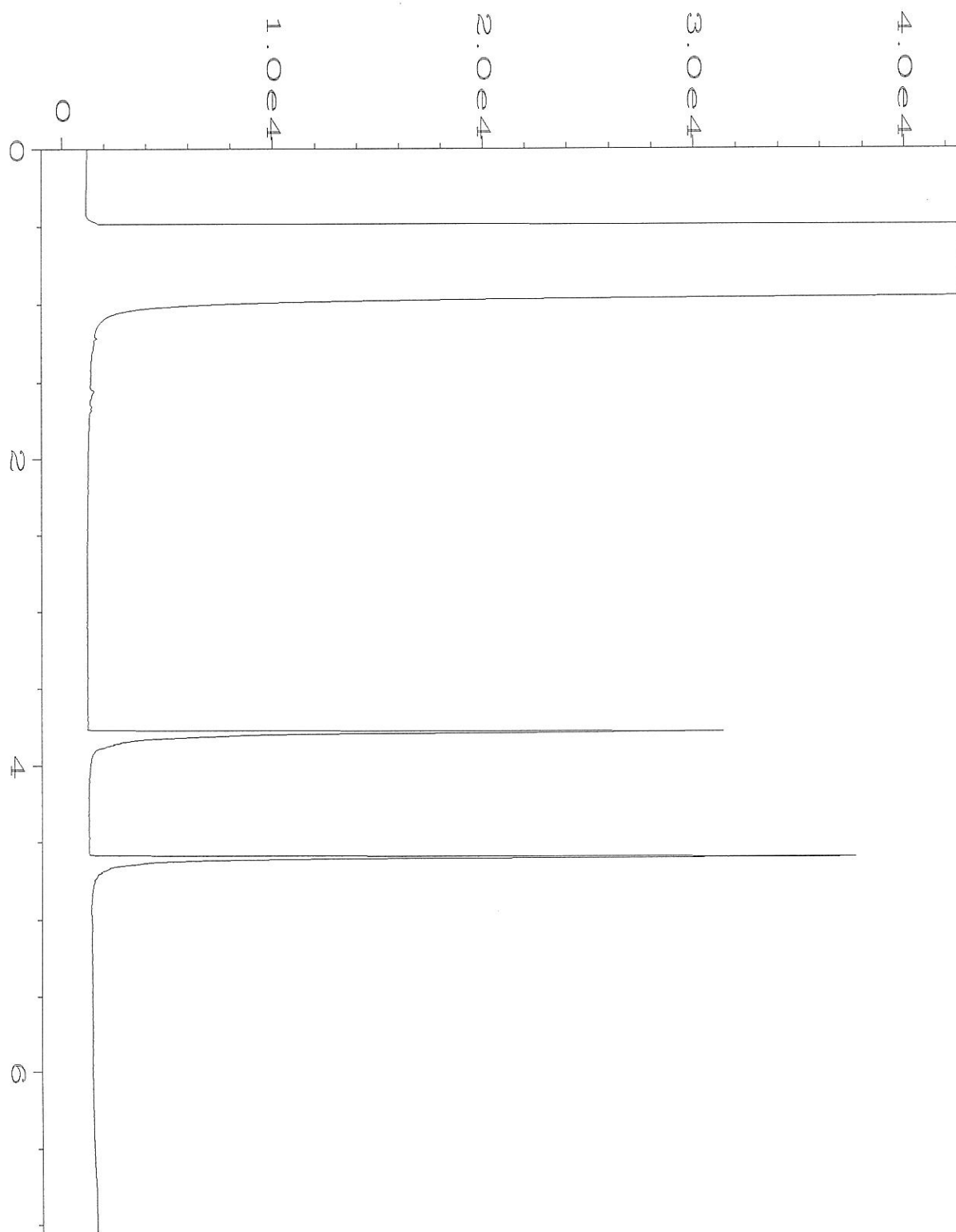
TURNAROUND TIME  
 Standard turnaround  
 RUSH  
 Rush charges authorized by: \_\_\_\_\_

SAMPLE DISPOSAL  
 Archive samples  
 Other \_\_\_\_\_  
 Default: Dispose after 30 days

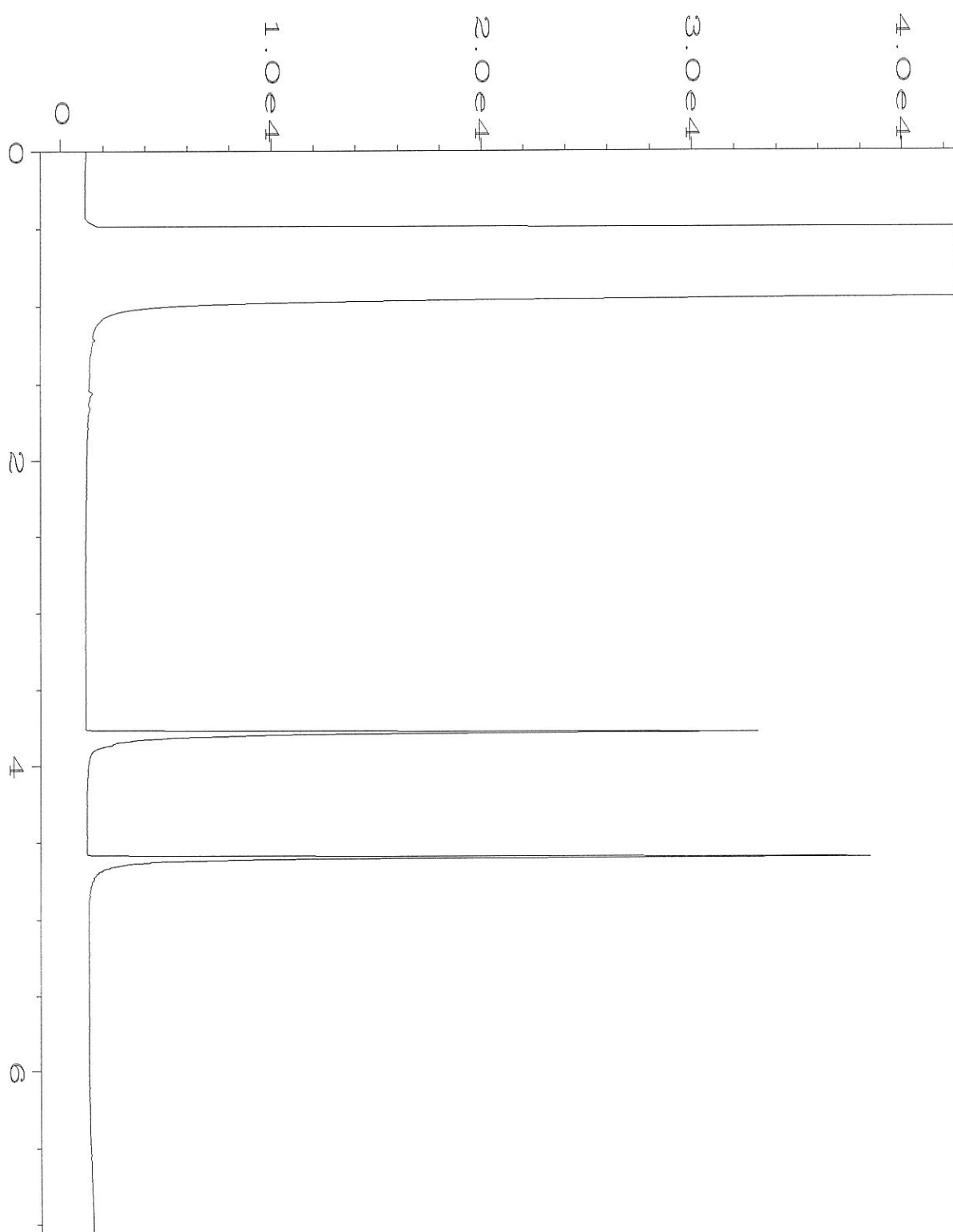
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8260	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
SW-N02-437	01AE	10/17/22	0810	S	5	X	X	X						
SW-N04-437	02		0815			X	X	X						
SW-N07-437	03		0915			X	X	X						
SW-N10-437	04		1005			X	X	X						
SW-N12-437	05		1215			X	X	X						

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

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by: <i>[Signature]</i>	AGNEVYBROVOW	Aspect Consulting	10/17/22	1543
Received by: <i>[Signature]</i>	AMH PHAN	FG B	10/17/22	15:43
Relinquished by:				
Received by:		Samples received at	400	

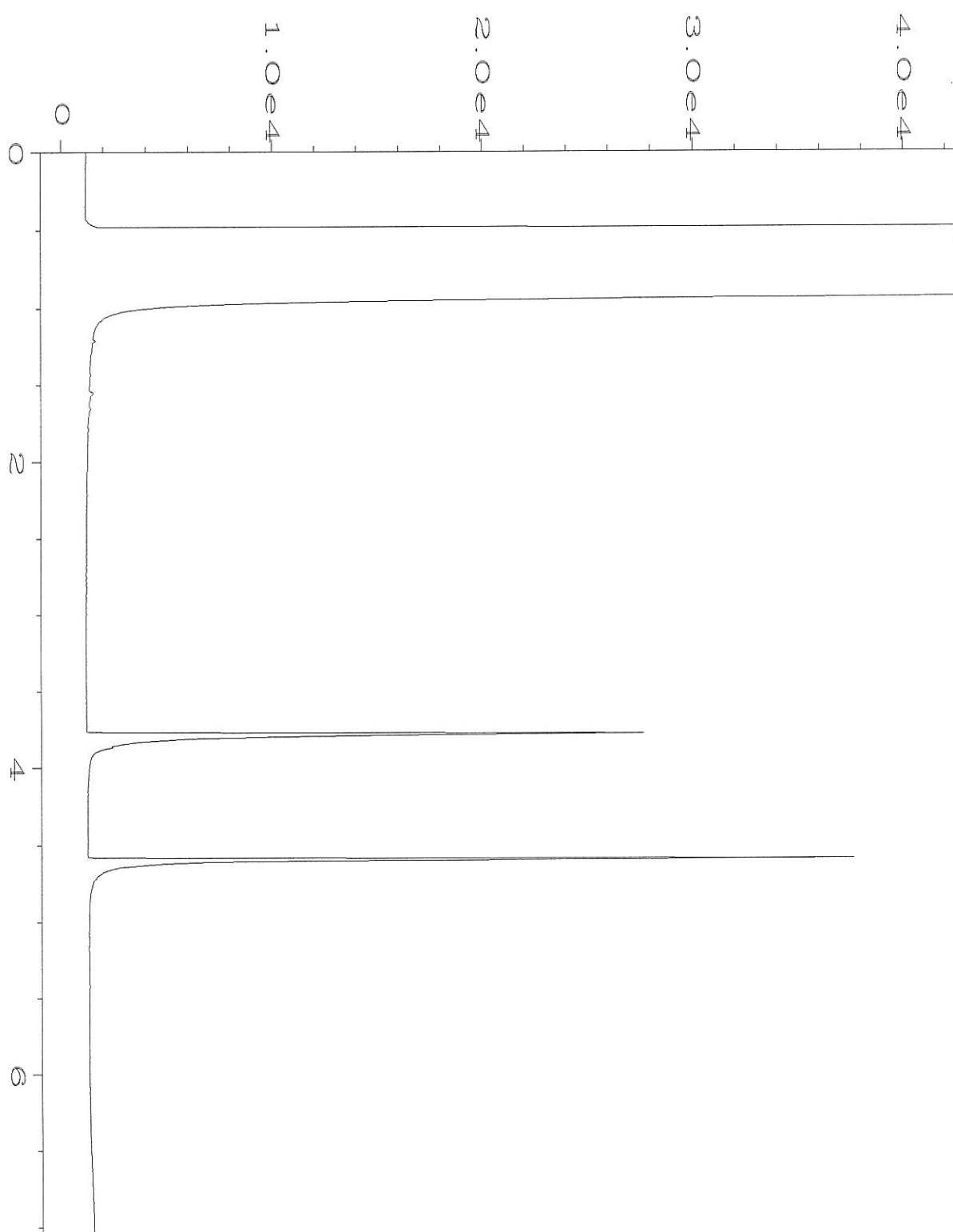


Data File Name	: C:\HPCHEM\4\DATA\10-18-22\007F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 7
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210237-01	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Oct 22 09:55 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	19 Oct 22 08:35 AM		

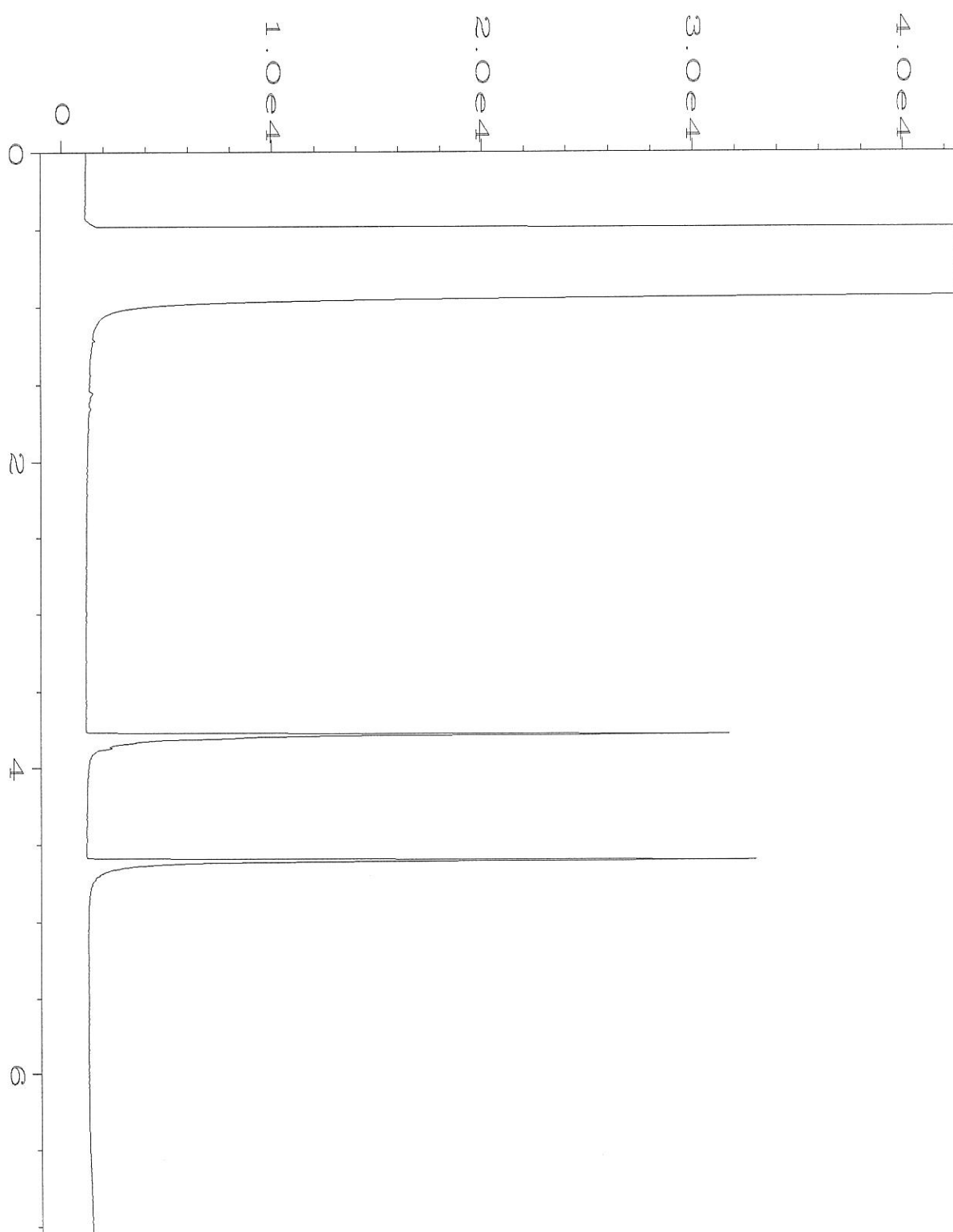


Data File Name	: C:\HPCHEM\4\DATA\10-18-22\008F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 8
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210237-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Oct 22 10:07 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	19 Oct 22 08:35 AM		

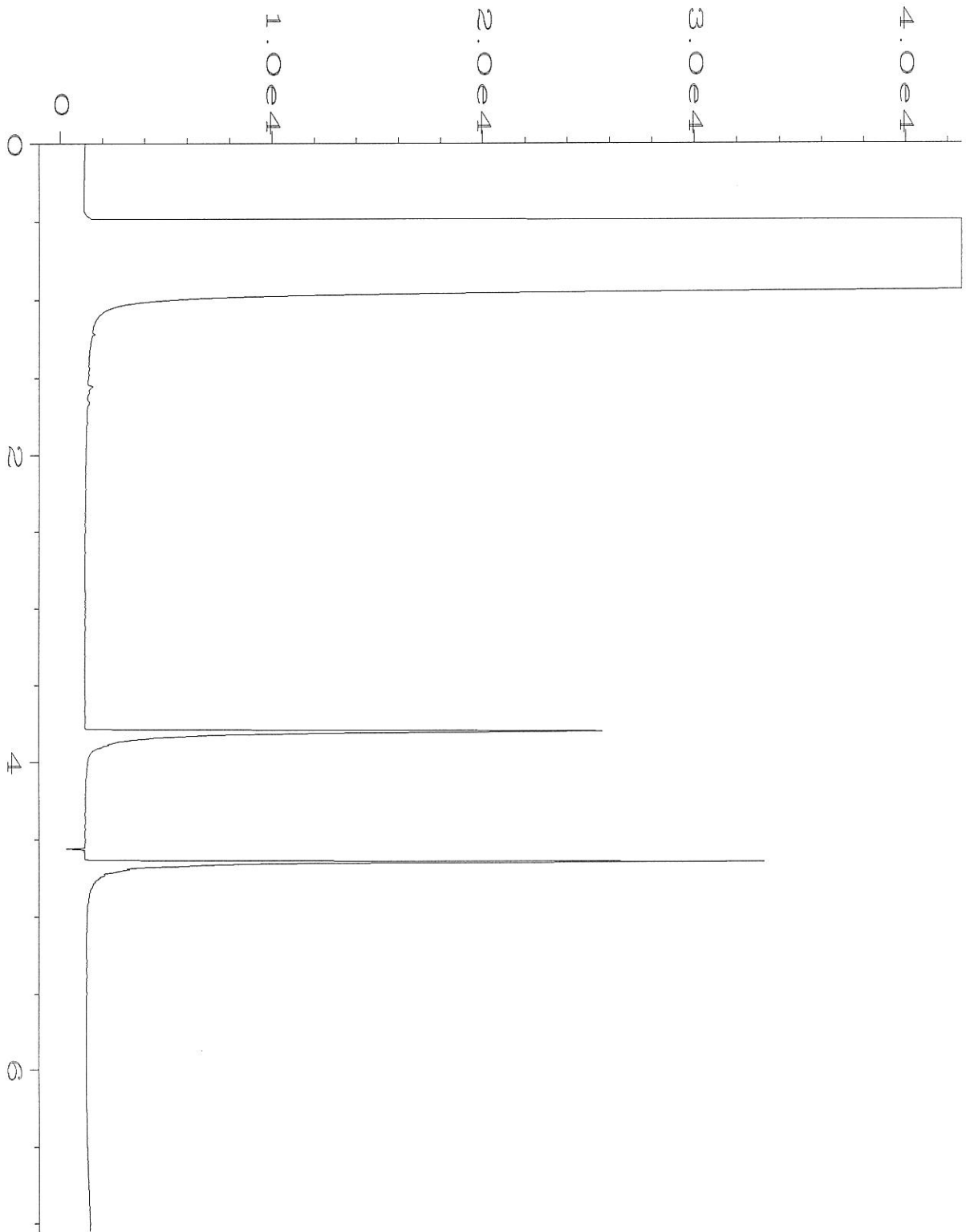




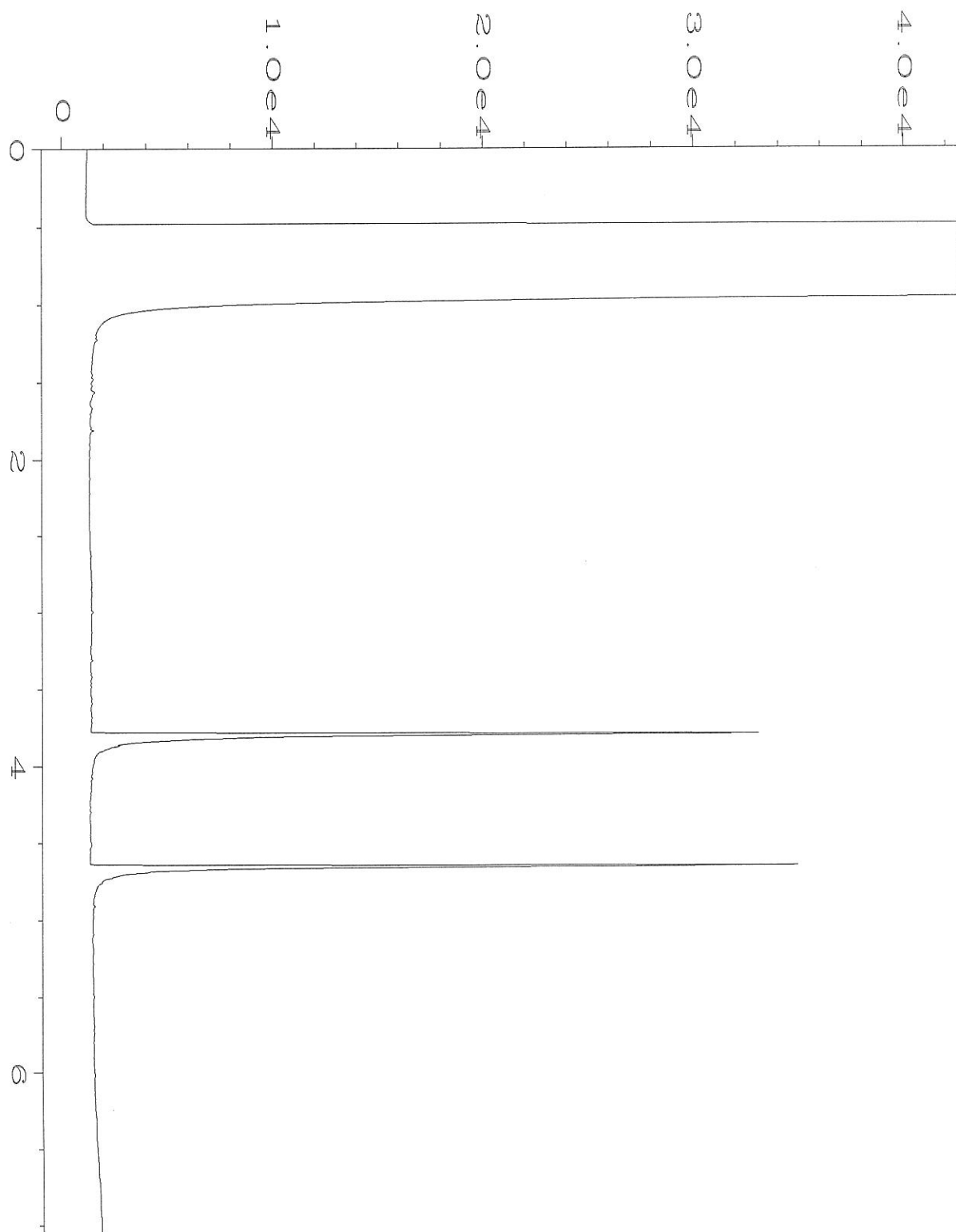
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Operator	: TL	Vial Number	: 9
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210237-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Oct 22 10:18 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	19 Oct 22 08:36 AM		



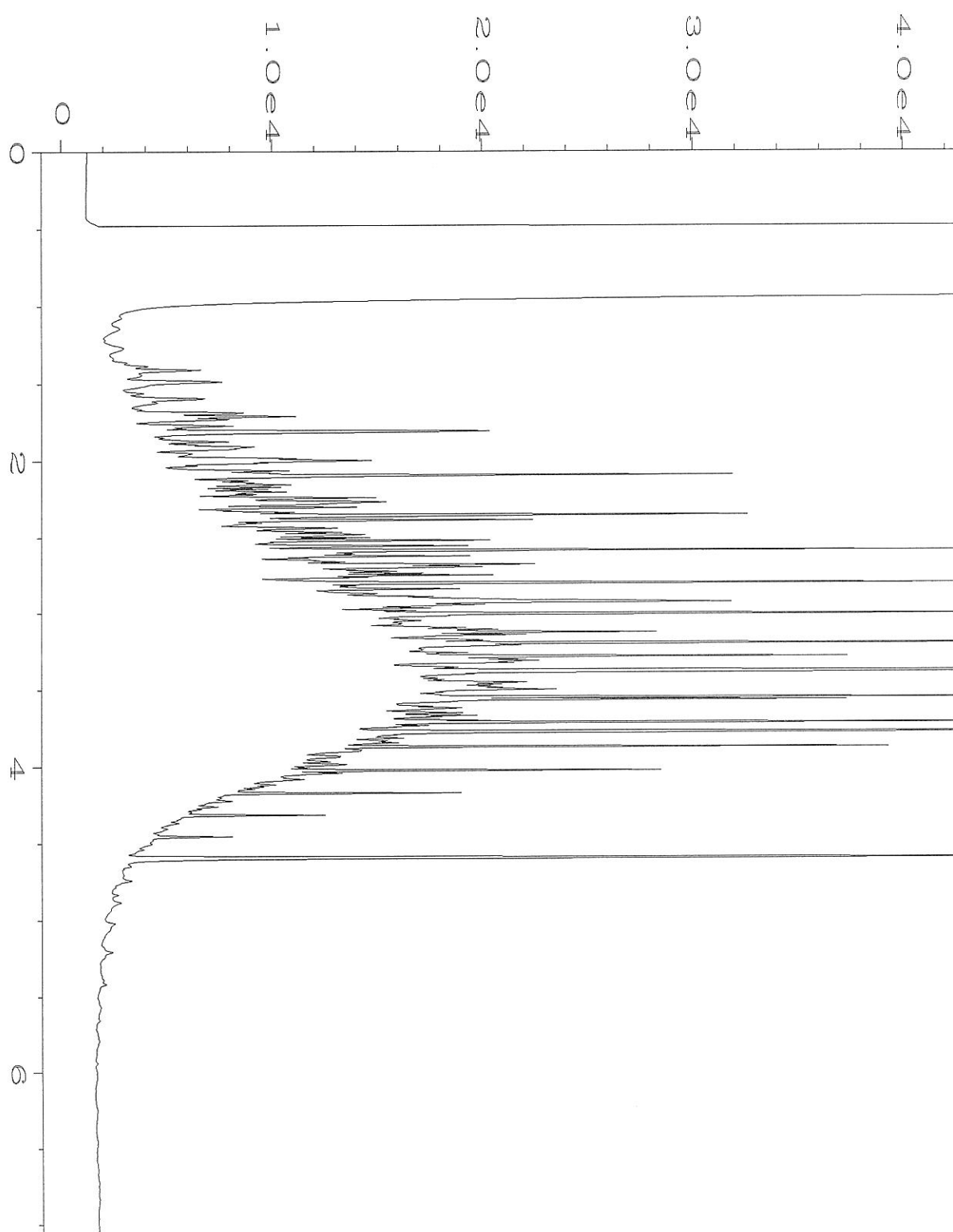
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Operator	: TL	Vial Number	: 10
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210237-04	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Oct 22 10:29 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	19 Oct 22 08:36 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-18-22\011F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 11
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210237-05	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Oct 22 10:41 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	19 Oct 22 08:36 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-18-22\006F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 6
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 02-2532 mb2	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Oct 22 09:46 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	19 Oct 22 08:36 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-18-22\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 66-186M	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 18 Oct 22 06:14 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	19 Oct 22 08:36 AM		

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.

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Seattle, WA 98119-2029  
(206) 285-8282  
fbi@isomedia.com  
www.friedmanandbruya.com

October 21, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
350 Madison Ave. N.  
Bainbridge Island, WA 98110-1810

Dear Mr Griffin:

Included are the amended results from the testing of material submitted on October 4, 2022 from the Texaco Strickland 220275, F&BI 210033 project. The sample IDs have been corrected.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1020R.DOC

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.

3012 16th Avenue West  
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www.friedmanandbruya.com

October 20, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
350 Madison Ave. N.  
Bainbridge Island, WA 98110-1810

Dear Mr Griffin:

Included are the additional results from the testing of material submitted on October 4, 2022 from the Texaco Strickland 220275, F&BI 210033 project. There are 10 pages included in this report.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1020R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 4, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 220275, F&BI 210033 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210033 -01	SW-N10-442
210033 -02	SW-N12-442
210033 -03	SW-N14-442
210033 -04	UST3-100422

All quality control requirements were acceptable.



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

Date Extracted: 10/13/22

Date Analyzed: 10/13/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
SW-N12-442 210033-02 1/10	370	ip
SW-N14-442 210033-03	<5	112
Method Blank 02-2356 MB	<5	94

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

Date Extracted: 10/13/22

Date Analyzed: 10/13/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
SW-N12-442 210033-02	74 x	<250	87
SW-N14-442 210033-03	<50	<250	93
Method Blank 02-2501 MB2	<50	<250	62

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N12-442	Client:	Aspect Consulting, LLC
Date Received:	10/04/22	Project:	Texaco Strickland 220275
Date Extracted:	10/13/22	Lab ID:	210033-02
Date Analyzed:	10/14/22	Data File:	101413.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	100	89	112
4-Bromofluorobenzene	107	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	0.48
m,p-Xylene	0.92
o-Xylene	0.064
Naphthalene	3.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N14-442	Client:	Aspect Consulting, LLC
Date Received:	10/04/22	Project:	Texaco Strickland 220275
Date Extracted:	10/13/22	Lab ID:	210033-03
Date Analyzed:	10/14/22	Data File:	101414.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	96	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 220275
Date Extracted:	10/13/22	Lab ID:	02-2478 mb
Date Analyzed:	10/13/22	Data File:	101305.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JCM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	105	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Gasoline	mg/kg (ppm)	20	100	105	61-153	5

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

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

Laboratory Code: 210164-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	92	94	73-135	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	88	74-139

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/20/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

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

Laboratory Code: 210182-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	<0.03	86	86	29-129	0
Toluene	mg/kg (ppm)	1	<0.05	96	95	35-130	1
Ethylbenzene	mg/kg (ppm)	1	<0.05	95	95	32-137	0
m,p-Xylene	mg/kg (ppm)	2	<0.1	94	95	34-136	1
o-Xylene	mg/kg (ppm)	1	<0.05	97	95	33-134	2
Naphthalene	mg/kg (ppm)	1	<0.05	95	94	14-157	1

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	91	71-118
Toluene	mg/kg (ppm)	1	103	66-126
Ethylbenzene	mg/kg (ppm)	1	103	64-123
m,p-Xylene	mg/kg (ppm)	2	102	78-122
o-Xylene	mg/kg (ppm)	1	100	77-124
Naphthalene	mg/kg (ppm)	1	101	63-140



# 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.

**SAMPLE CHAIN OF CUSTODY**

10-04-22

Page # E03/VW/1/AT2/B01/NSR of 2

210033

Report To Aspect Consulting

Company Adam Daniel

Address 710 2nd Ave Ste 550

City, State, ZIP Seattle, WA

Phone \_\_\_\_\_ Email \_\_\_\_\_

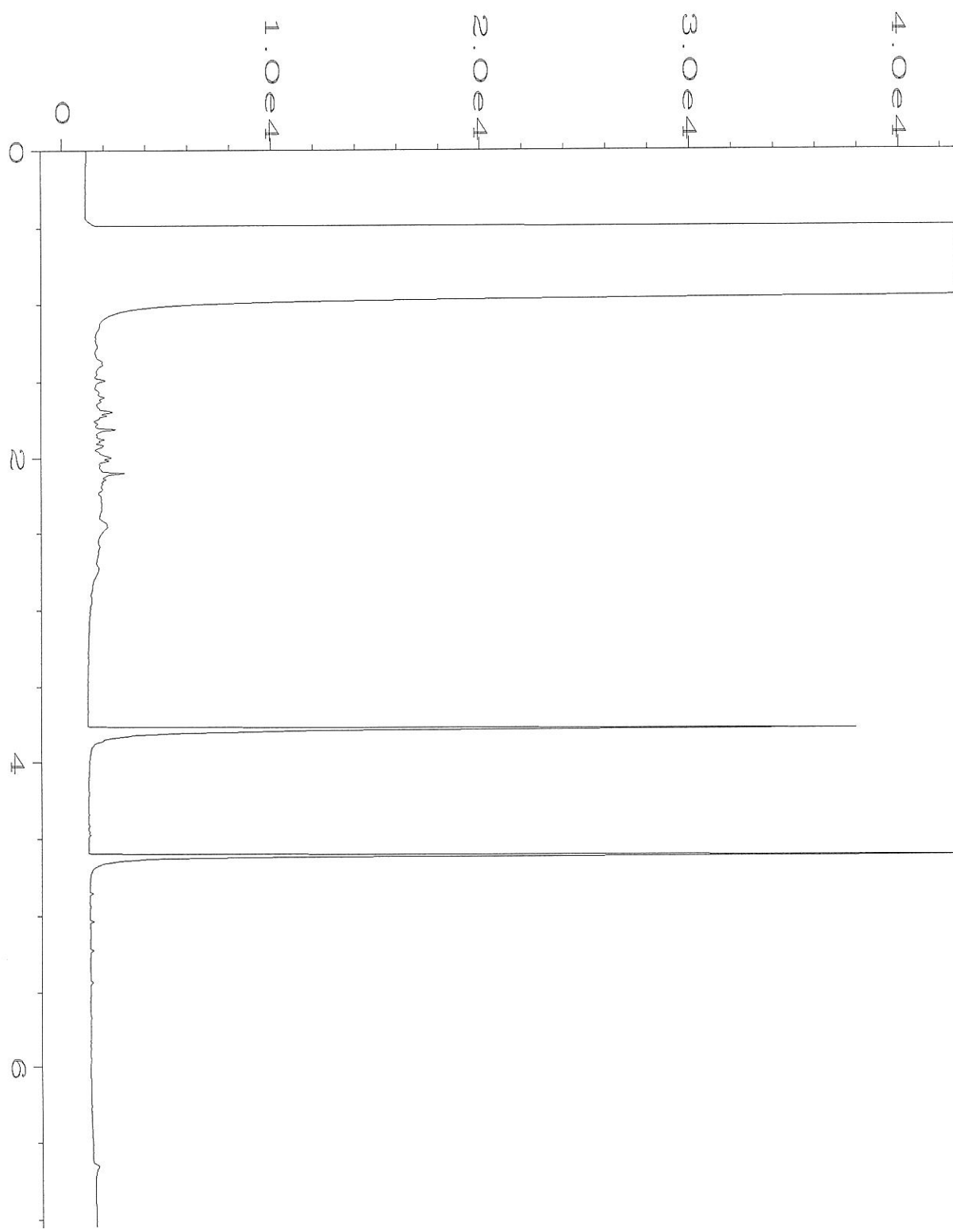
SAMPLES (signature) <u>Adam Daniel</u> PROJECT NAME <u>TERRA-C</u> REMARKS <u>Shrickland</u>		PO # <u>22075</u>
INVOICE TO		Project specific RI's? - Yes / No

Standard turnaround  
 RUSH see note 5-24-11R  
 Rush charges authorized by: \_\_\_\_\_  
 SAMPLE DISPOSAL  
 Archive samples  
 Other \_\_\_\_\_  
 Default: Dispose after 30 days

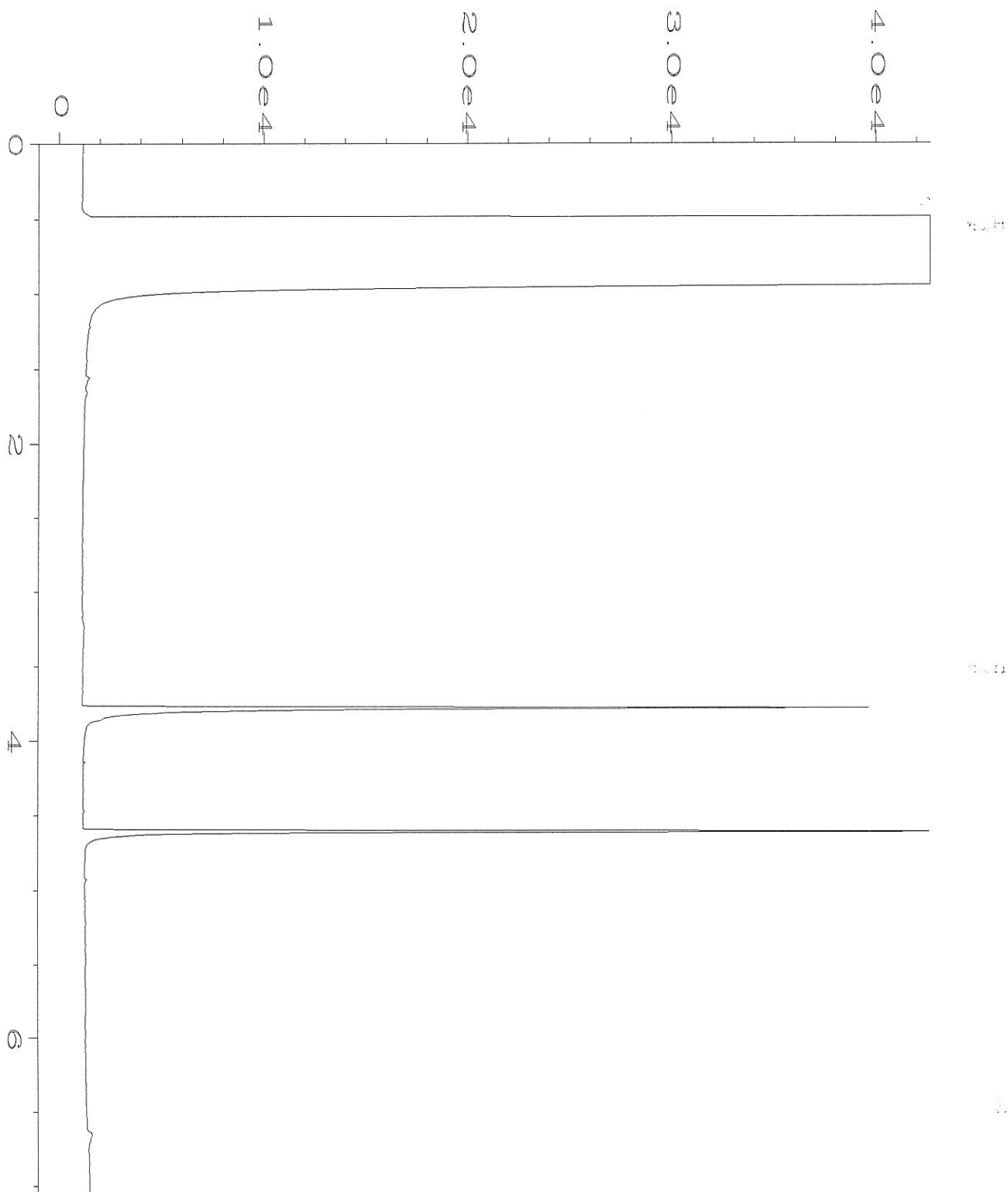
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED										Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCB EPA 8082	RCPA-g Metals				
SU-010-442	01AF	10/3/22	1315	3	5	X	X	X									Standard TTS
SU-012-442	02	↓	1320	↓	↓	✓	✓	✓									"
SU-014-442	03	↓	1325	↓	↓	✓	✓	✓									"
UST3-100422	01AF	10/4/22	1330	3	6	X	X	X									*RUSH TTS 1- per DB 10/12

SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Relinquished by: <u>[Signature]</u> Received by: <u>[Signature]</u>		Ashveg Pravas Eric Evans		Aspect Consulting ERB		10/4/22	10:02
Received by:		Samples received at				4	0C

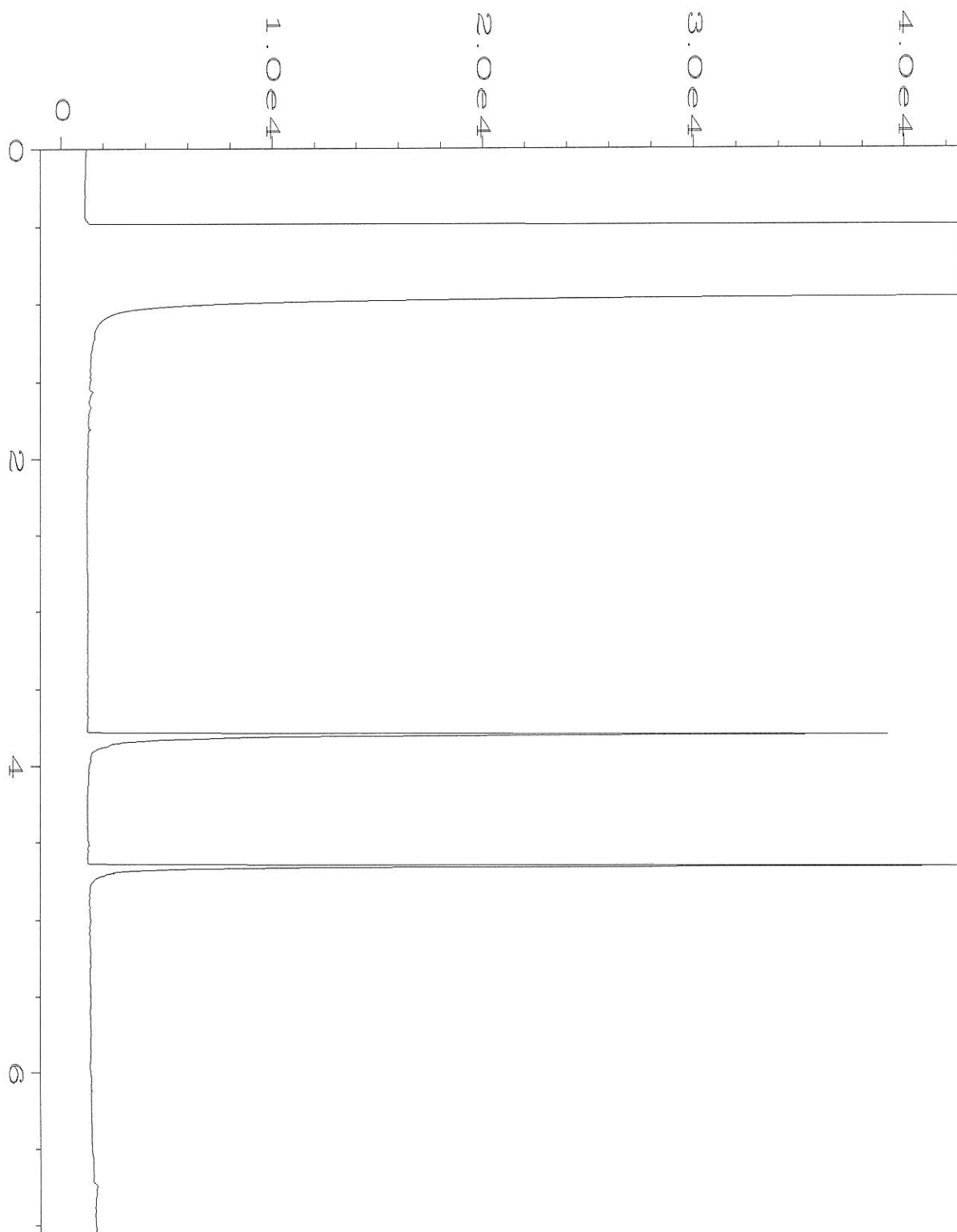
Friedman & Bruya, Inc.  
Ph: (206) 285-8282



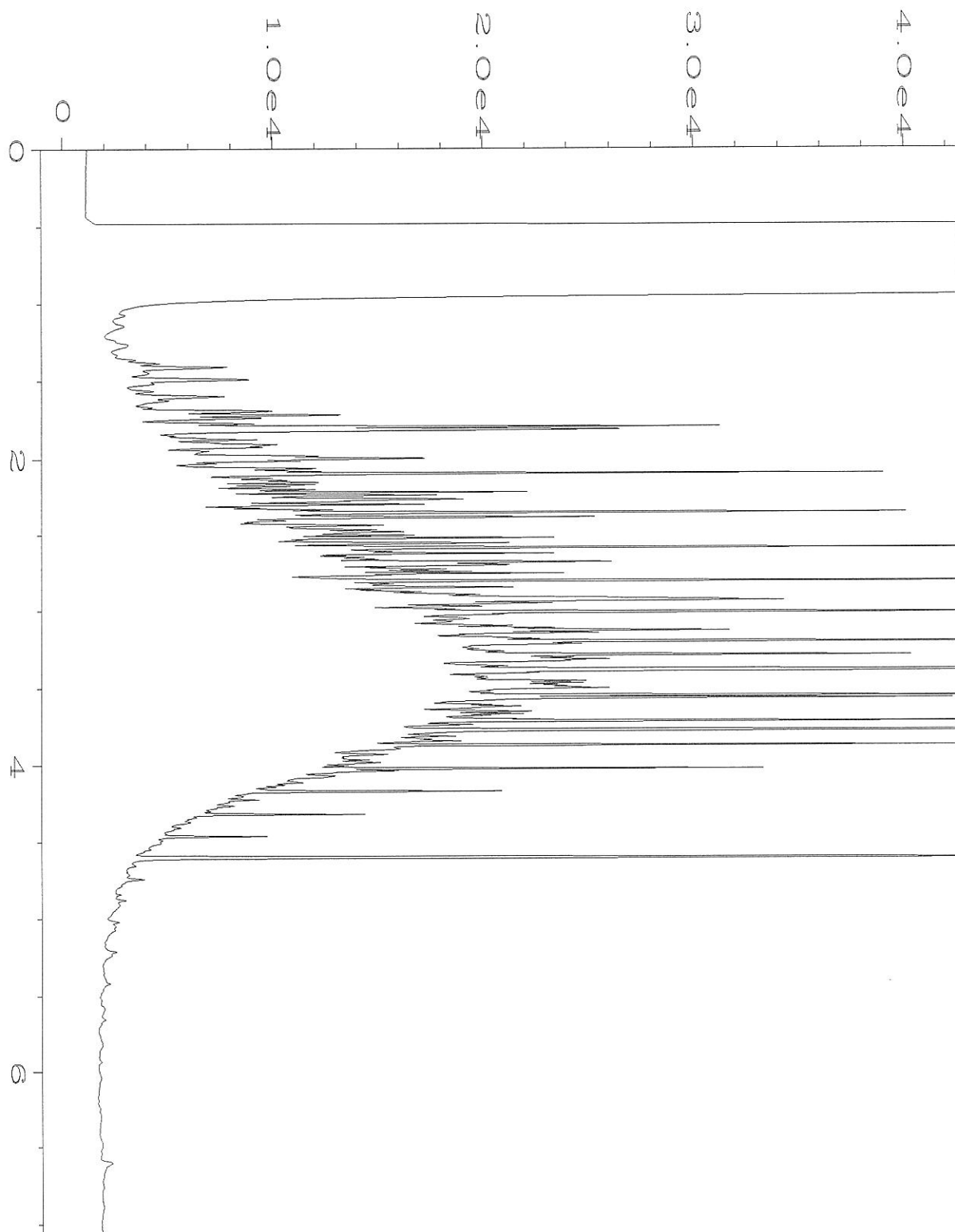
Data File Name	: C:\HPCHEM\4\DATA\10-13-22\007F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 7
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210033-02	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 13 Oct 22 08:51 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	14 Oct 22 08:15 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-13-22\008F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 8
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210033-03	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 13 Oct 22 09:02 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	14 Oct 22 08:15 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-13-22\006F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 6
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 02-2501 mb2	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 13 Oct 22 08:41 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	14 Oct 22 08:16 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-13-22\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 66-186F	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 13 Oct 22 06:50 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	14 Oct 22 08:16 AM		

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.

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

October 12, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
350 Madison Ave. N.  
Bainbridge Island, WA 98110-1810

Dear Mr Griffin:

Included is the amended report from the testing of material submitted on October 4, 2022 from the Texaco Strickland 220275, F&BI 210033 project. The sample IDs have been updated to match the Chain of Custody.

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

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1012R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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www.friedmanandbruya.com

October 12, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
350 Madison Ave. N.  
Bainbridge Island, WA 98110-1810

Dear Mr Griffin:

Included are the results from the testing of material submitted on October 4, 2022 from the Texaco Strickland 220275, F&BI 210033 project. There are 21 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1012R.DOC



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 4, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 220275, F&BI 210033 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210033 -01	SW-N10-442
210033 -02	SW-N12-442
210033 -03	SW-N14-442
210033 -04	UST3-100422

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

Date Extracted: 10/07/22

Date Analyzed: 10/07/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
SW-N10-442 210033-01 1/50	1,500	112
Method Blank 02-2347 MB	<5	108

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

Date Extracted: 10/05/22

Date Analyzed: 10/05/22

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

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 51-134)
UST3-100422 210033-04 1/20	3,000	91
Method Blank 02-2340 MB	<100	92

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

Date Extracted: 10/06/22

Date Analyzed: 10/06/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 56-165)
SW-N10-442 210033-01	<50	<250	126
Method Blank 02-2418 MB	<50	<250	130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22  
Date Received: 10/04/22  
Project: Texaco Strickland 220275, F&BI 210033  
Date Extracted: 10/05/22  
Date Analyzed: 10/05/22

**RESULTS FROM THE ANALYSIS OF WATER SAMPLES  
FOR TOTAL PETROLEUM HYDROCARBONS AS  
DIESEL AND MOTOR OIL  
USING METHOD NWTPH-D<sub>x</sub>**  
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 41-152)
UST3-100422 210033-04 1/10	91,000	6,000 x	ip
Method Blank 02-2401 MB2	<50	<250	118

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-N10-442	Client:	Aspect Consulting, LLC
Date Received:	10/04/22	Project:	Texaco Strickland 220275, F&BI 210033
Date Extracted:	10/06/22	Lab ID:	210033-01
Date Analyzed:	10/06/22	Data File:	100613.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	95	90	109
Toluene-d8	103	89	112
4-Bromofluorobenzene	105	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	0.95
Ethylbenzene	5.7
m,p-Xylene	29
o-Xylene	7.7
Naphthalene	5.3

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 220275, F&BI 210033
Date Extracted:	10/06/22	Lab ID:	02-2318 mb
Date Analyzed:	10/06/22	Data File:	100605.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	JM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	95	89	112
4-Bromofluorobenzene	100	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	UST3-100422	Client:	Aspect Consulting, LLC
Date Received:	10/04/22	Project:	Texaco Strickland 220275, F&BI 210033
Date Extracted:	10/05/22	Lab ID:	210033-04
Date Analyzed:	10/06/22	Data File:	100614.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	102	84	115
4-Bromofluorobenzene	100	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	1.1
Toluene	67
Ethylbenzene	10
m,p-Xylene	190
o-Xylene	120
Naphthalene	30



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D Dual Acquisition

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 220275, F&BI 210033
Date Extracted:	10/05/22	Lab ID:	02-2317 mb
Date Analyzed:	10/05/22	Data File:	100511.D
Matrix:	Water	Instrument:	GCMS11
Units:	ug/L (ppb)	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	97	78	126
Toluene-d8	100	84	115
4-Bromofluorobenzene	99	72	130

Compounds:	Concentration ug/L (ppb)
Benzene	<0.35
Toluene	<1
Ethylbenzene	<1
m,p-Xylene	<2
o-Xylene	<1
Naphthalene	<1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	UST3-100422	Client:	Aspect Consulting, LLC
Date Received:	10/04/22	Project:	Texaco Strickland 220275, F&BI 210033
Date Extracted:	10/05/22	Lab ID:	210033-04
Date Analyzed:	10/06/22	Data File:	100618.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	VM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	45	24	127

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 220275, F&BI 210033
Date Extracted:	10/05/22	Lab ID:	02-2414 mb2
Date Analyzed:	10/08/22	Data File:	100816.D
Matrix:	Water	Instrument:	GC7
Units:	ug/L (ppb)	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
TCMX	40	24	127

Compounds:	Concentration ug/L (ppb)
Aroclor 1221	<0.1
Aroclor 1232	<0.1
Aroclor 1016	<0.1
Aroclor 1242	<0.1
Aroclor 1248	<0.1
Aroclor 1254	<0.1
Aroclor 1260	<0.1
Aroclor 1262	<0.1
Aroclor 1268	<0.1

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

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

Laboratory Code: 210054-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	90	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

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

Laboratory Code: 209461-09 (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	101	69-134

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

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

Laboratory Code: 210033-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	50	101	103	63-146	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	104	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

**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	84	96	63-142	13

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

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

Laboratory Code: 209497-05 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	<0.03	74	74	29-129	0
Toluene	mg/kg (ppm)	1	<0.05	83	81	35-130	2
Ethylbenzene	mg/kg (ppm)	1	<0.05	85	81	32-137	5
m,p-Xylene	mg/kg (ppm)	2	<0.1	84	82	34-136	2
o-Xylene	mg/kg (ppm)	1	<0.05	84	81	33-134	4
Naphthalene	mg/kg (ppm)	1	<0.05	83	82	14-157	1



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	84	71-118
Toluene	mg/kg (ppm)	1	92	66-126
Ethylbenzene	mg/kg (ppm)	1	92	64-123
m,p-Xylene	mg/kg (ppm)	2	91	78-122
o-Xylene	mg/kg (ppm)	1	91	77-124
Naphthalene	mg/kg (ppm)	1	92	63-140

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

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

Laboratory Code: 209520-02 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Benzene	ug/L (ppb)	10	<0.35	96	50-150
Toluene	ug/L (ppb)	10	<1	93	50-150
Ethylbenzene	ug/L (ppb)	10	<1	93	50-150
m,p-Xylene	ug/L (ppb)	20	<2	91	50-150
o-Xylene	ug/L (ppb)	10	<1	94	50-150
Naphthalene	ug/L (ppb)	10	<1	77	50-150

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Benzene	ug/L (ppb)	10	95	91	70-130	4
Toluene	ug/L (ppb)	10	93	90	70-130	3
Ethylbenzene	ug/L (ppb)	10	94	93	70-130	1
m,p-Xylene	ug/L (ppb)	20	94	92	70-130	2
o-Xylene	ug/L (ppb)	10	94	95	70-130	1
Naphthalene	ug/L (ppb)	10	84	84	70-130	0

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/04/22

Project: Texaco Strickland 220275, F&BI 210033

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

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Percent Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Aroclor 1016	ug/L (ppb)	0.25	54	52	25-111	4
Aroclor 1260	ug/L (ppb)	0.25	67	68	23-123	1

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### **Data Qualifiers & Definitions**

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

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

ca - The calibration results for the analyte were outside of acceptance criteria. The value reported is an estimate.

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

cf - The sample was centrifuged prior to analysis.

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

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

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The 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.

210033

SAMPLE CHAIN OF CUSTODY

10-04-22

E03/VW1/AI2/B01/NSR  
Page # of

Report To: Aspect Consulting  
 Company: Aspahan Dorner  
Environ Parish  
 Address: 710 Red Ave Ste 550  
 City, State, ZIP: Seattle, WA  
 Phone: \_\_\_\_\_ Email: \_\_\_\_\_

SAMPLERS (signature) <u>Ashley Brown</u>	
PROJECT NAME <u>TexasCO- Shickland</u>	PO # <u>220275</u>
REMARKS	INVOICE TO
Project specific RIs? - Yes / No	

TURNAROUND TIME  
 Standard turnaround  
 RUSH see Note 5-24-18  
 Rush charges authorized by: \_\_\_\_\_

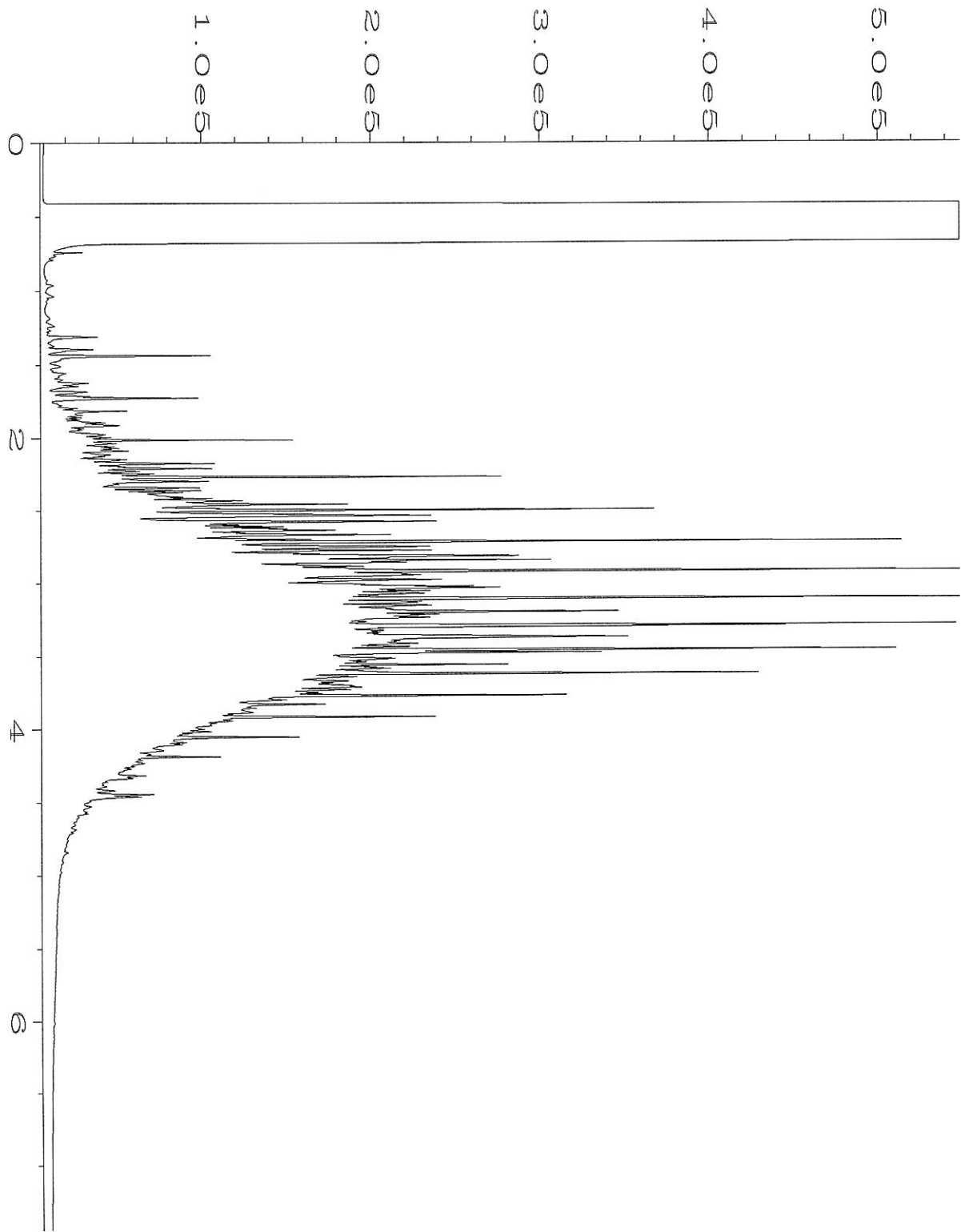
SAMPLE DISPOSAL  
 Archive samples  
 Other \_\_\_\_\_  
 Default: Dispose after 30 days

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	PCB EPA 8082		RCRA - 9 Metals
SW-D10-442	01AF	10/3/22	1315	S	5	X	X	X						Standard TST
SW-D12-442	02	↓	1320	↓	↓									"
SW-N14-442	03	↓	1325	↓	↓									"
USF3-100422	04AF	10/4/22	1330	W	6	X	X	X						*RUSH TST

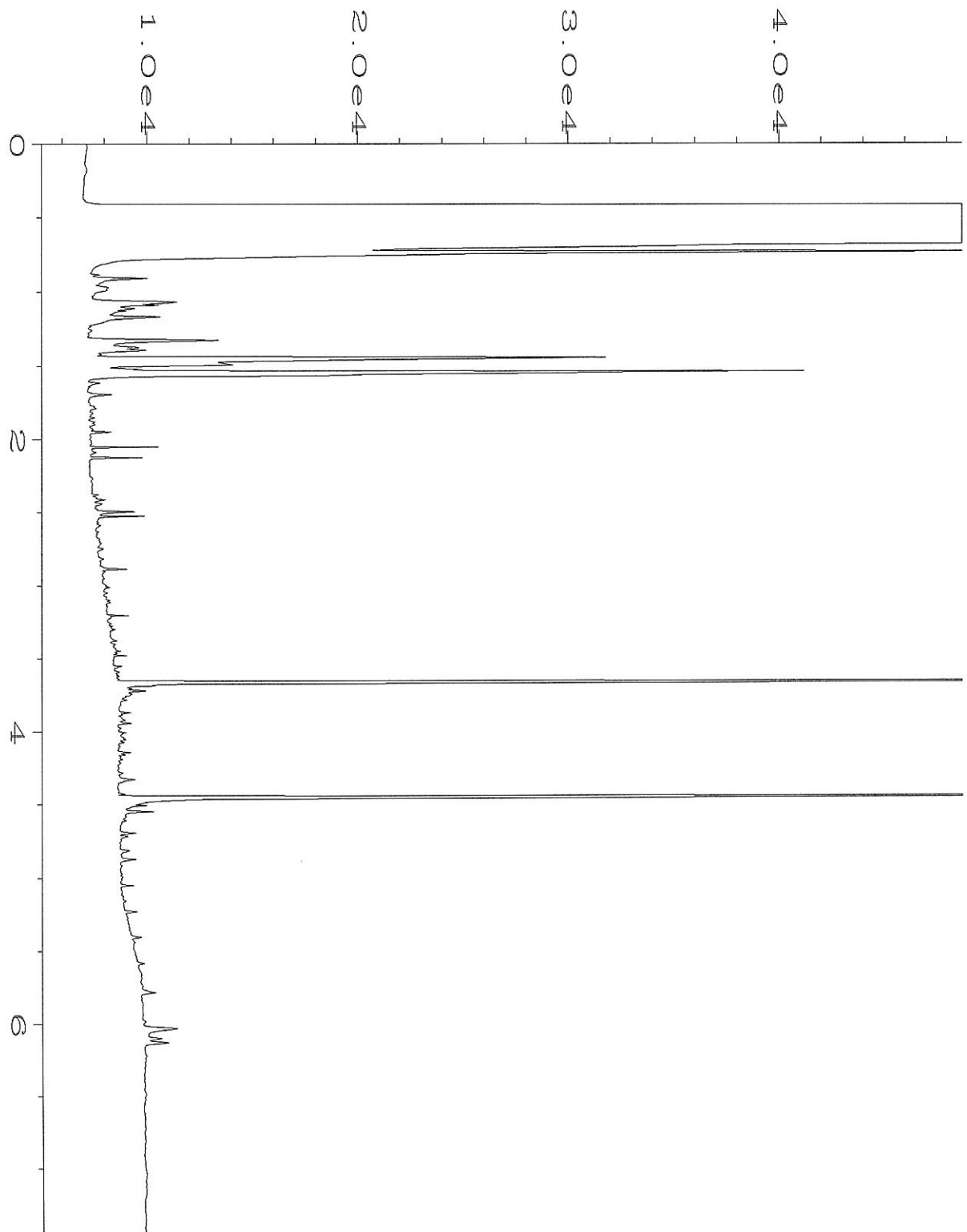
SIGNATURE		PRINT NAME		COMPANY		DATE	TIME
Requisitioned by: <u>[Signature]</u>		Ashley Brown		Aspect Consulting		10/4/22	1602
Received by: <u>[Signature]</u>		Eric Evans		ECB		10/4/22	1602
Relinquished by:							
Received by:							

Samples received at 4 o'clock

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

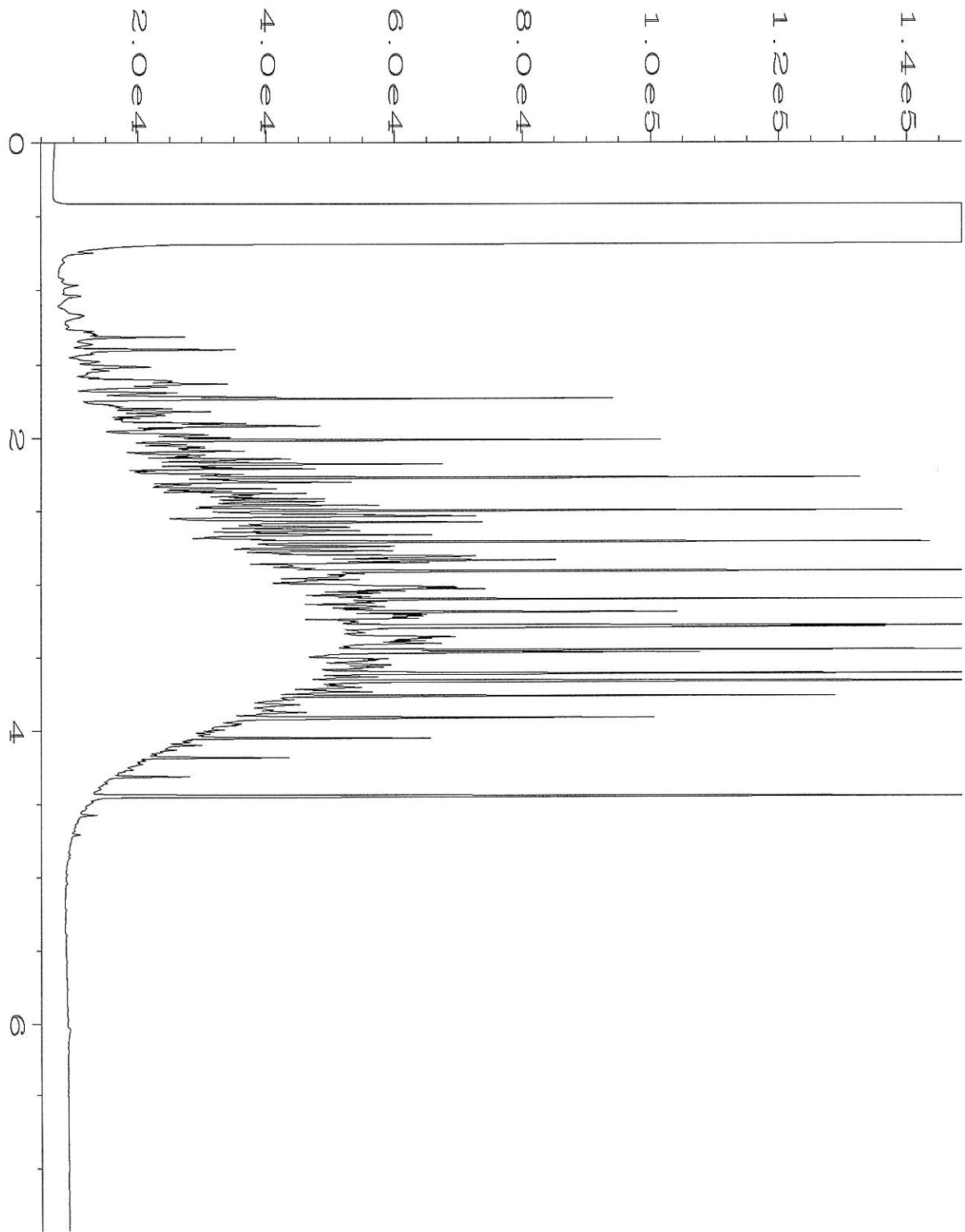


Data File Name	: C:\HPCHEM\1\DATA\10-05-22\018F0501.D	Page Number	: 1
Operator	: TL	Vial Number	: 18
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210033-04 1/10	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 05 Oct 22 01:56 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	06 Oct 22 11:13 AM		

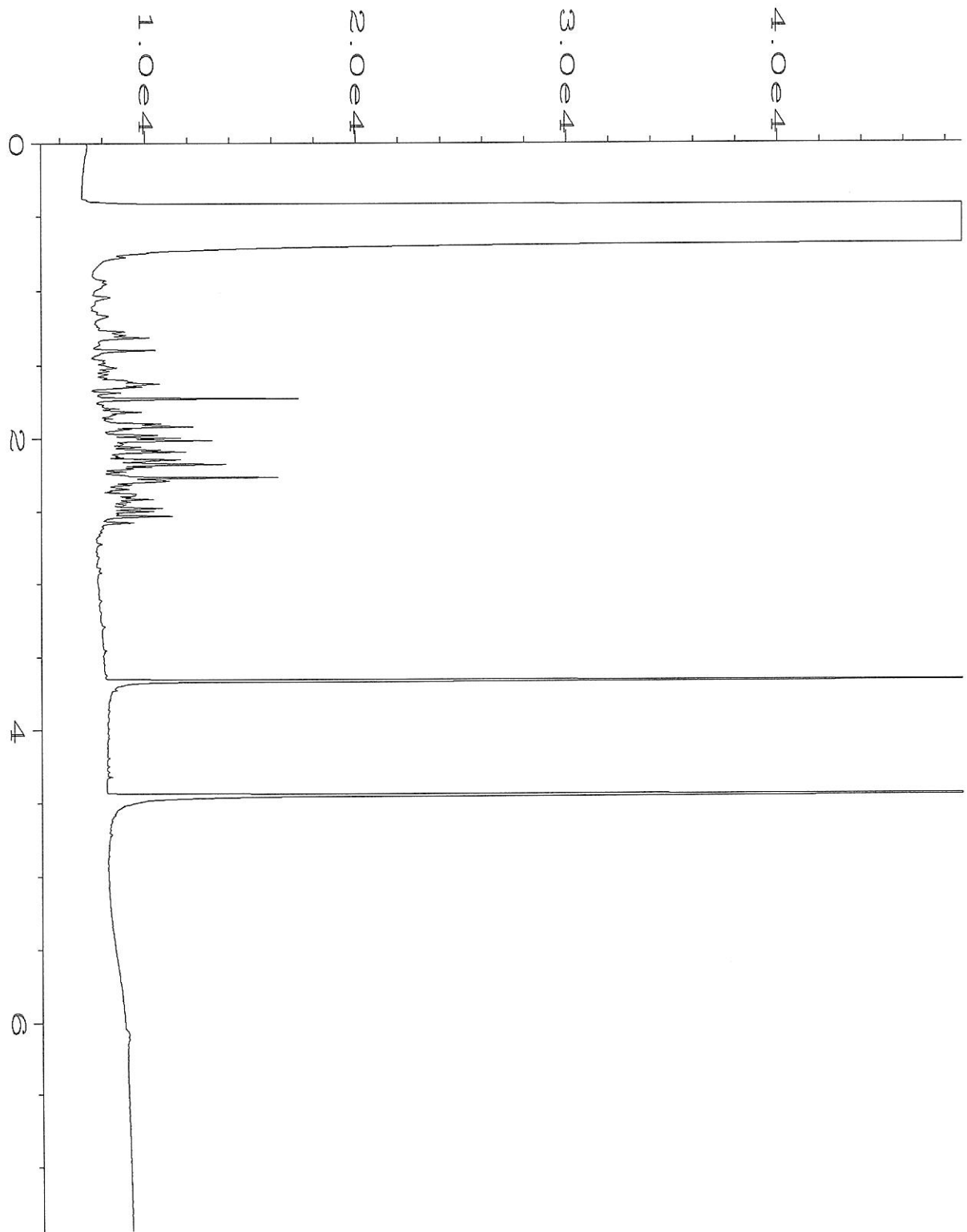


Data File Name	: C:\HPCHEM\1\DATA\10-05-22\016F0301.D	Page Number	: 1
Operator	: TL	Vial Number	: 16
Instrument	: GC1	Injection Number	: 1
Sample Name	: 02-2401 mb2	Sequence Line	: 3
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 05 Oct 22 12:49 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	06 Oct 22 11:37 AM		

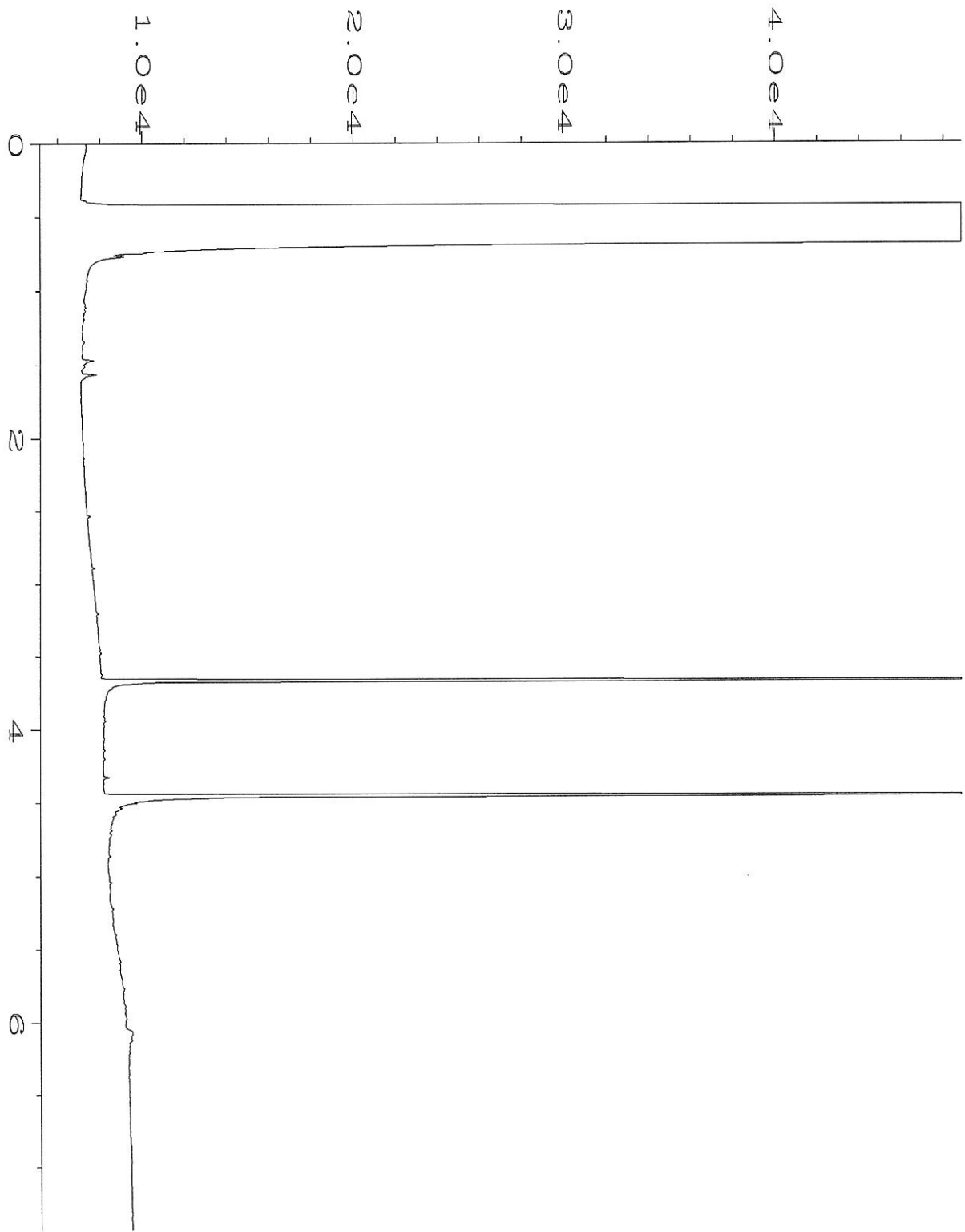




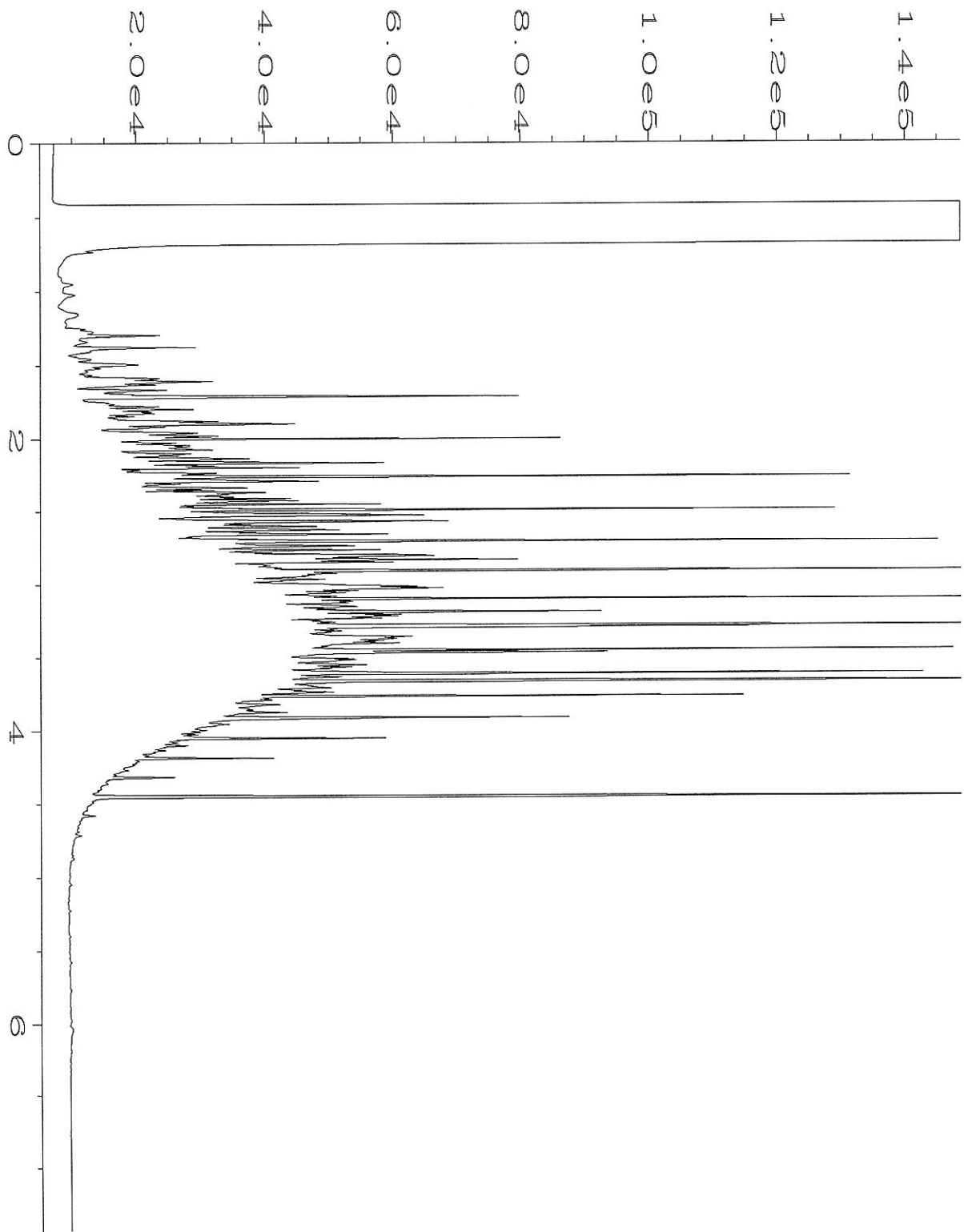
Data File Name	: C:\HPCHEM\1\DATA\10-05-22\003F1401.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 66-186F	Sequence Line	: 14
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 05 Oct 22 10:42 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	06 Oct 22 11:37 AM		



Data File Name	: C:\HPCHEM\1\DATA\10-06-22\010F0401.D	Page Number	: 1
Operator	: TL	Vial Number	: 10
Instrument	: GC1	Injection Number	: 1
Sample Name	: 210033-01	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 06 Oct 22 09:46 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	07 Oct 22 12:26 PM		



Data File Name	: C:\HPCHEM\1\DATA\10-06-22\006F0401.D	Page Number	: 1
Operator	: TL	Vial Number	: 6
Instrument	: GC1	Injection Number	: 1
Sample Name	: 02-2418 mb	Sequence Line	: 4
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 06 Oct 22 08:53 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	07 Oct 22 12:26 PM		



Data File Name	: C:\HPCHEM\1\DATA\10-06-22\003F0201.D	Page Number	: 1
Operator	: TL	Vial Number	: 3
Instrument	: GC1	Injection Number	: 1
Sample Name	: 500 Dx 66-186F	Sequence Line	: 2
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 06 Oct 22 07:29 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	07 Oct 22 01:24 PM		

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.

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

October 12, 2022

Adam Griffin, Project Manager  
Aspect Consulting, LLC  
350 Madison Ave. N.  
Bainbridge Island, WA 98110-1810

Dear Mr Griffin:

Included are the results from the testing of material submitted on October 5, 2022 from the Texaco Strickland 220275, F&BI 210054 project. There are 15 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 have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures

c: Aspect Data, Daniel Babcock  
ASP1012R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on October 5, 2022 by Friedman & Bruya, Inc. from the Aspect Consulting, LLC Texaco Strickland 220275, F&BI 210054 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Aspect Consulting, LLC</u>
210054 -01	SW-W16-439
210054 -02	SW-W13-439
210054 -03	SW-W11-439
210054 -04	SW-W08-439
210054 -05	SW-W06-439
210054 -06	SW-W03-439
210054 -07	SW-W01-439

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/05/22

Project: Texaco Strickland 220275, F&BI 210054

Date Extracted: 10/07/22

Date Analyzed: 10/07/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u> Laboratory ID	<u>Gasoline Range</u>	<u>Surrogate</u> <u>(% Recovery)</u> (Limit 50-150)
SW-W16-439 210054-01	<5	105
SW-W13-439 210054-02	<5	106
SW-W11-439 210054-03	<5	106
SW-W08-439 210054-04	<5	106
SW-W06-439 210054-05	<5	105
SW-W03-439 210054-06	<5	102
SW-W01-439 210054-07	<5	116
Method Blank 02-2347 MB	<5	108

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/05/22

Project: Texaco Strickland 220275, F&BI 210054

Date Extracted: 10/06/22

Date Analyzed: 10/06/22

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

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<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> <u>(% Recovery)</u> (Limit 48-168)
SW-W16-439 210054-01	<50	<250	91
SW-W13-439 210054-02	<50	<250	112
SW-W11-439 210054-03	<50	<250	102
SW-W08-439 210054-04	<50	<250	109
SW-W06-439 210054-05	<50	<250	106
SW-W03-439 210054-06	<50	<250	107
SW-W01-439 210054-07	<50	<250	90
Method Blank 02-2417 MB2	<50	<250	119



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W16-439	Client:	Aspect Consulting, LLC
Date Received:	10/05/22	Project:	Texaco Strickland 220275
Date Extracted:	10/07/22	Lab ID:	210054-01
Date Analyzed:	10/07/22	Data File:	100716.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	103	90	109
Toluene-d8	96	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W13-439	Client:	Aspect Consulting, LLC
Date Received:	10/05/22	Project:	Texaco Strickland 220275
Date Extracted:	10/07/22	Lab ID:	210054-02
Date Analyzed:	10/07/22	Data File:	100717.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	96	90	109
Toluene-d8	95	89	112
4-Bromofluorobenzene	104	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	0.15
Ethylbenzene	<0.05
m,p-Xylene	0.11
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W11-439	Client:	Aspect Consulting, LLC
Date Received:	10/05/22	Project:	Texaco Strickland 220275
Date Extracted:	10/07/22	Lab ID:	210054-03
Date Analyzed:	10/07/22	Data File:	100718.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	101	90	109
Toluene-d8	97	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W08-439	Client:	Aspect Consulting, LLC
Date Received:	10/05/22	Project:	Texaco Strickland 220275
Date Extracted:	10/07/22	Lab ID:	210054-04
Date Analyzed:	10/07/22	Data File:	100719.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	102	90	109
Toluene-d8	98	89	112
4-Bromofluorobenzene	105	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W06-439	Client:	Aspect Consulting, LLC
Date Received:	10/05/22	Project:	Texaco Strickland 220275
Date Extracted:	10/07/22	Lab ID:	210054-05
Date Analyzed:	10/07/22	Data File:	100720.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	96	89	112
4-Bromofluorobenzene	102	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W03-439	Client:	Aspect Consulting, LLC
Date Received:	10/05/22	Project:	Texaco Strickland 220275
Date Extracted:	10/07/22	Lab ID:	210054-06
Date Analyzed:	10/07/22	Data File:	100723.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	96	89	112
4-Bromofluorobenzene	101	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	SW-W01-439	Client:	Aspect Consulting, LLC
Date Received:	10/05/22	Project:	Texaco Strickland 220275
Date Extracted:	10/07/22	Lab ID:	210054-07
Date Analyzed:	10/07/22	Data File:	100724.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	100	90	109
Toluene-d8	96	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By EPA Method 8260D

Client Sample ID:	Method Blank	Client:	Aspect Consulting, LLC
Date Received:	Not Applicable	Project:	Texaco Strickland 220275
Date Extracted:	10/07/22	Lab ID:	02-2322 mb
Date Analyzed:	10/07/22	Data File:	100705.D
Matrix:	Soil	Instrument:	GCMS4
Units:	mg/kg (ppm) Dry Weight	Operator:	LM

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
1,2-Dichloroethane-d4	99	90	109
Toluene-d8	95	89	112
4-Bromofluorobenzene	103	84	115

Compounds:	Concentration mg/kg (ppm)
Benzene	<0.03
Toluene	<0.05
Ethylbenzene	<0.05
m,p-Xylene	<0.1
o-Xylene	<0.05
Naphthalene	<0.05



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/05/22

Project: Texaco Strickland 220275, F&BI 210054

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

Laboratory Code: 210054-01 (Duplicate)

Analyte	Reporting Units	Sample Result (Wet Wt)	Duplicate Result (Wet Wt)	RPD (Limit 20)
Gasoline	mg/kg (ppm)	<5	<5	nm

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Gasoline	mg/kg (ppm)	20	90	71-131

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/05/22

Project: Texaco Strickland 220275, F&BI 210054

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

Laboratory Code: 210046-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	96	102	63-146	6

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	102	79-144

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 10/12/22

Date Received: 10/05/22

Project: Texaco Strickland 220275, F&BI 210054

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

Laboratory Code: 210054-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet wt)	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Benzene	mg/kg (ppm)	1	<0.03	77	79	29-129	3
Toluene	mg/kg (ppm)	1	<0.05	85	88	35-130	3
Ethylbenzene	mg/kg (ppm)	1	<0.05	86	90	32-137	5
m,p-Xylene	mg/kg (ppm)	2	<0.1	85	89	34-136	5
o-Xylene	mg/kg (ppm)	1	<0.05	87	88	33-134	1
Naphthalene	mg/kg (ppm)	1	<0.05	87	87	14-157	0

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Benzene	mg/kg (ppm)	1	73	71-118
Toluene	mg/kg (ppm)	1	81	66-126
Ethylbenzene	mg/kg (ppm)	1	82	64-123
m,p-Xylene	mg/kg (ppm)	2	80	78-122
o-Xylene	mg/kg (ppm)	1	81	77-124
Naphthalene	mg/kg (ppm)	1	78	63-140

# 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.

210054

SAMPLE CHAIN OF CUSTODY

10/05/22

B02/WSA4

Page # 1 of 1

Report To: Atom Griffin; Daniel Peckace

Company: Aspect Consulting

Address: 710 2nd Ave Ste 550

City, State, ZIP: Seattle, WA

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

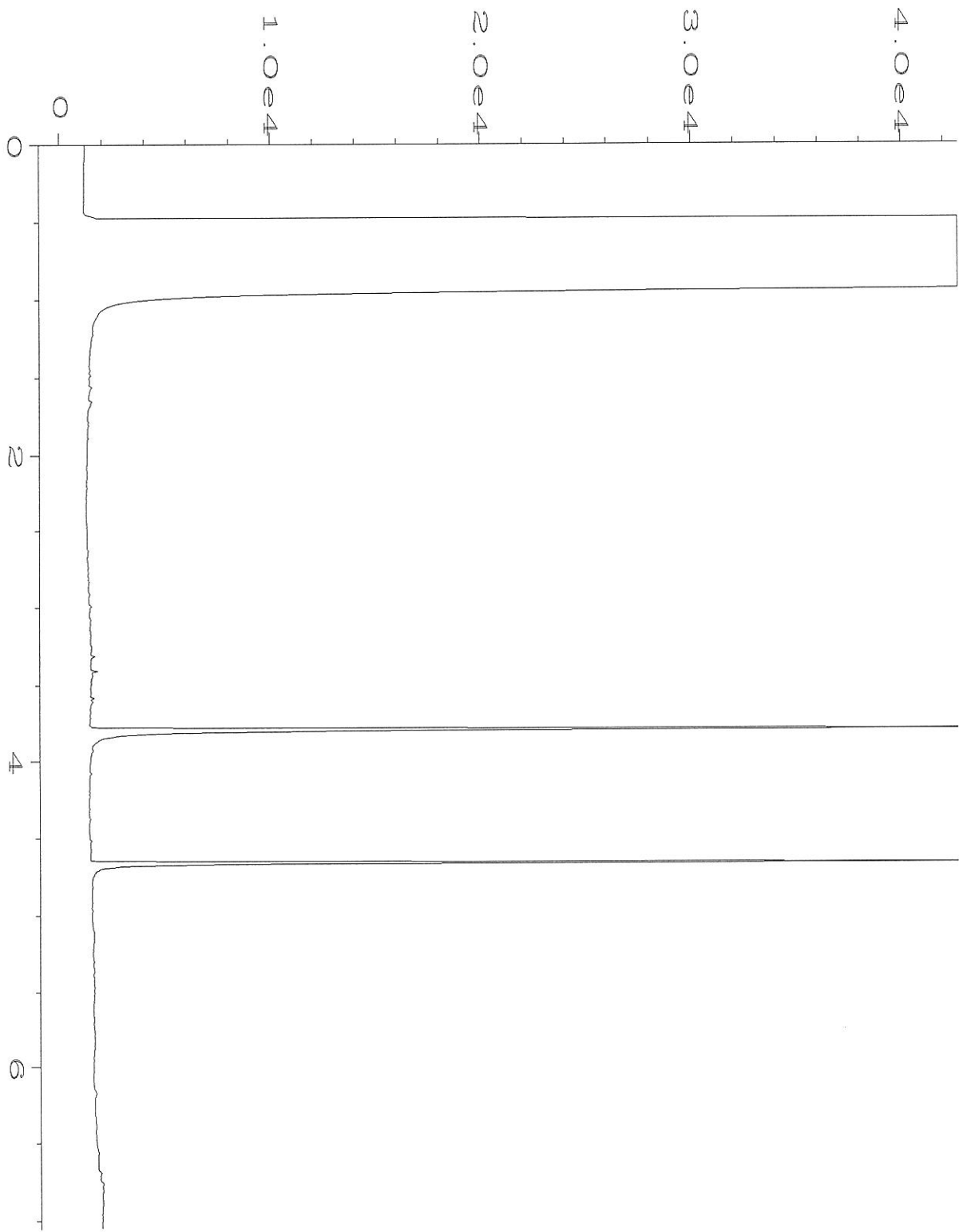
SAMPLERS (signature)		PO #	
<u>Aspelt</u>		226275	
PROJECT NAME	INVOICE TO		
<u>Steelco - Grickland</u>			
REMARKS	Project specific RIs? - Yes / No		

TURNAROUND TIME	Standard turnaround
	<input checked="" type="checkbox"/> RUSH
Rush charges authorized by: _____	
SAMPLE DISPOSAL	
<input type="checkbox"/> Archive samples	
<input type="checkbox"/> Other _____	
Default: Dispose after 30 days	

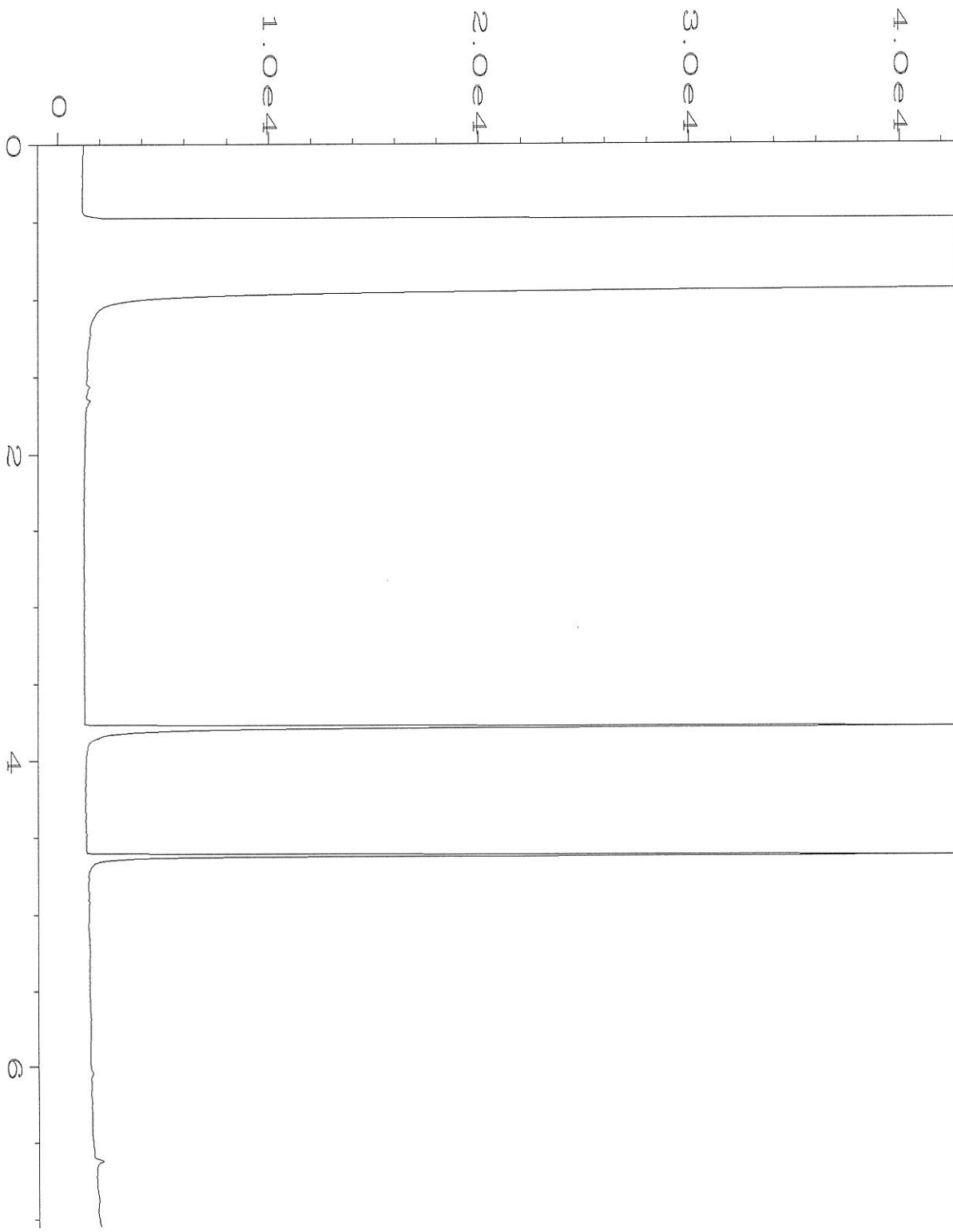
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	ANALYSES REQUESTED							Notes	
						NWTPH-Dx	NWTPH-Gx	BTEX EPA 8260	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082		
SW-W14-U39	01 A-E	10/5/22	0750	S	5	X	X	X						
SW-W13-U39	02		0755											
SW-W11-U39	03		0800											
SW-W08-U39	04		1115											
SW-W06-U39	05		1120											
SW-W03-U39	06		0820											
SW-W01-U39	07		0825											

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

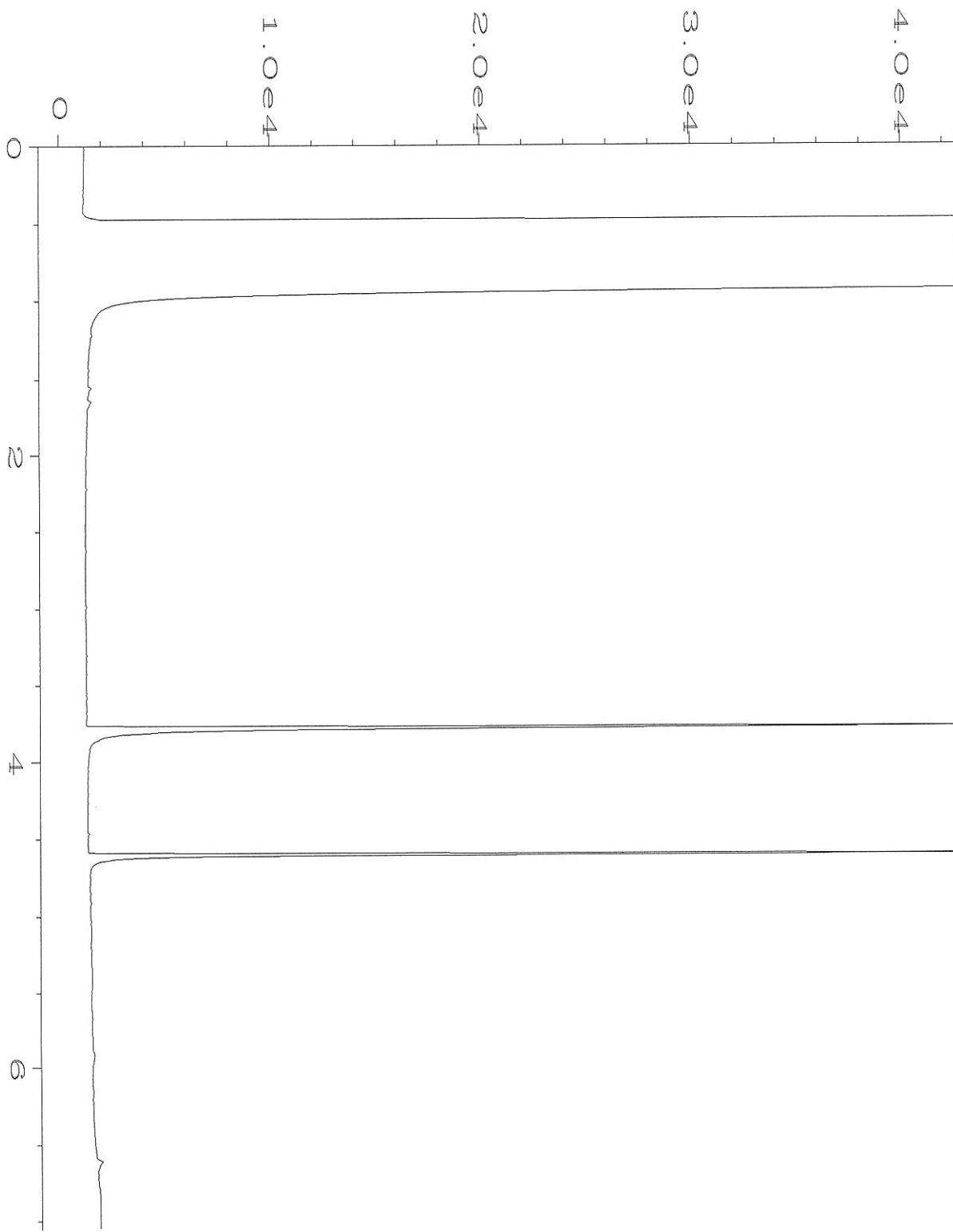
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Relinquished by:		PRINT NAME		COMPANY		DATE	TIME
<u>Aspelt</u>		<u>Aspelt</u>		<u>Aspect</u>		10/5/22	14:28
Received by:		PRINT NAME		COMPANY		DATE	TIME
<u>Aspelt</u>		<u>Aspelt</u>		<u>Aspect</u>		10/5/22	14:28
Relinquished by:		PRINT NAME		COMPANY		DATE	TIME
Received by:		PRINT NAME		COMPANY		DATE	TIME



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Operator	: TL	Vial Number	: 18
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210054-01	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 06 Oct 22 10:38 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	07 Oct 22 10:00 AM		

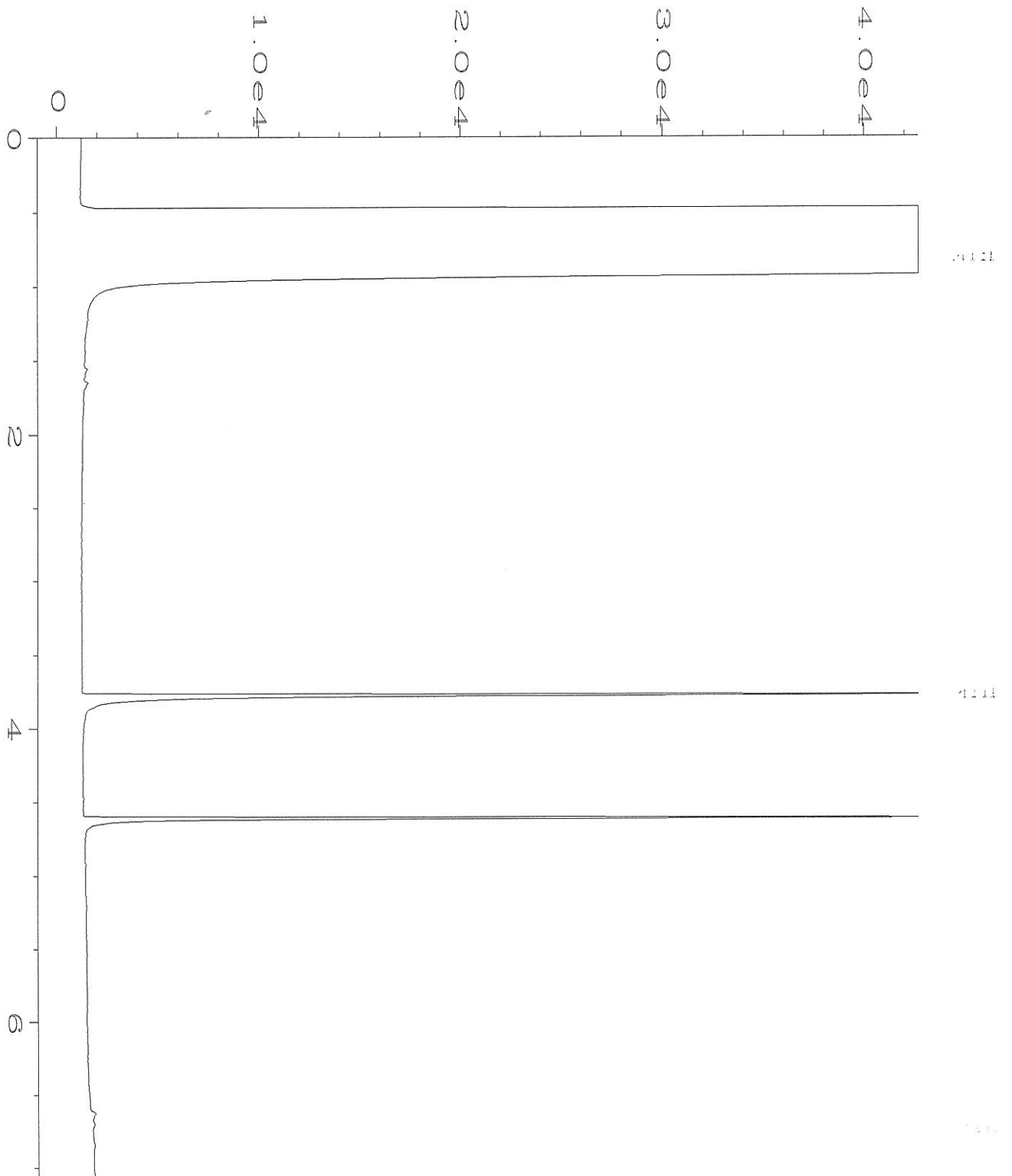


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Operator	: TL	Vial Number	: 19
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210054-02	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
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Report Created on:	07 Oct 22 10:00 AM		

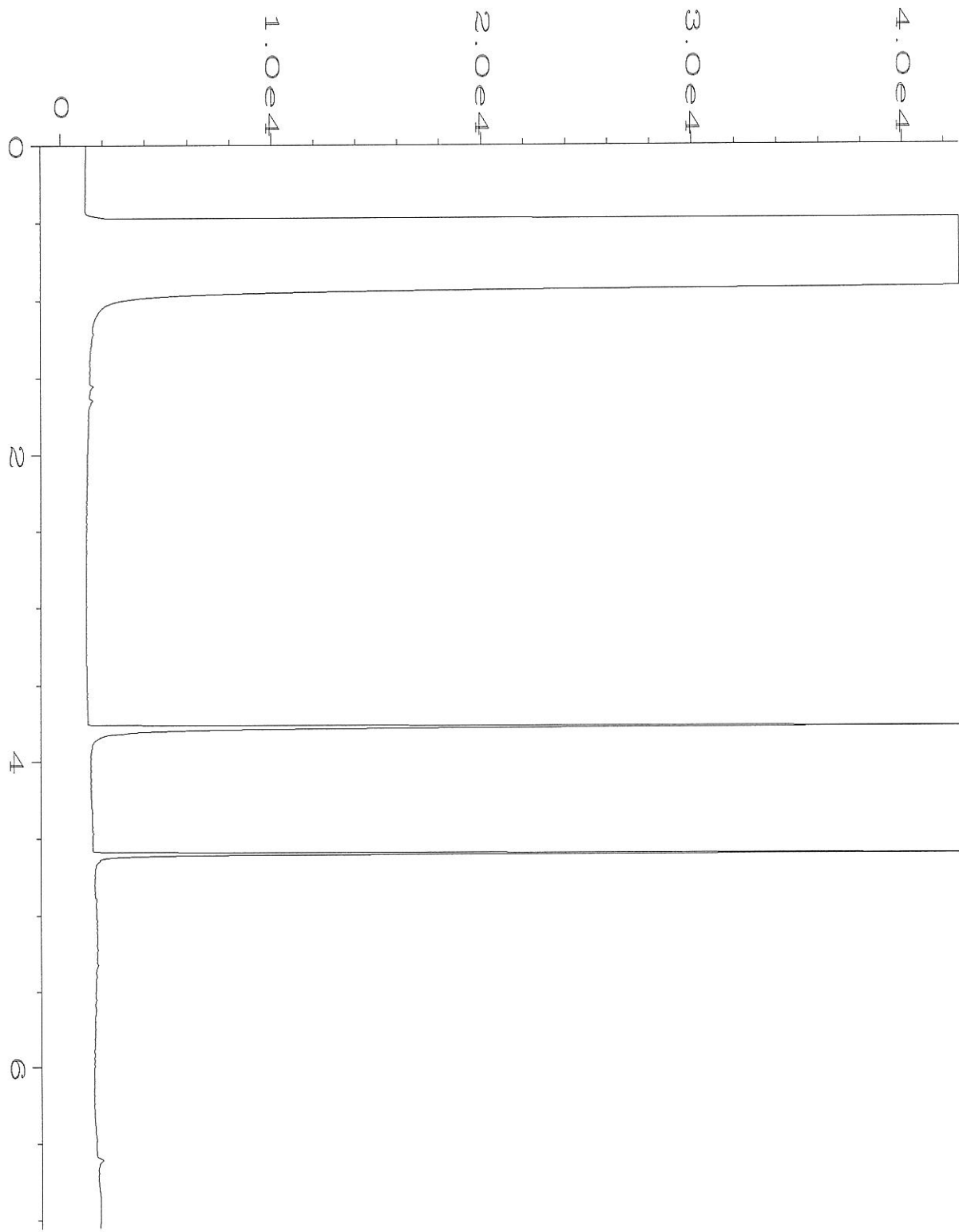


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Operator	: TL	Vial Number	: 20
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210054-03	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
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Report Created on:	07 Oct 22 10:00 AM		

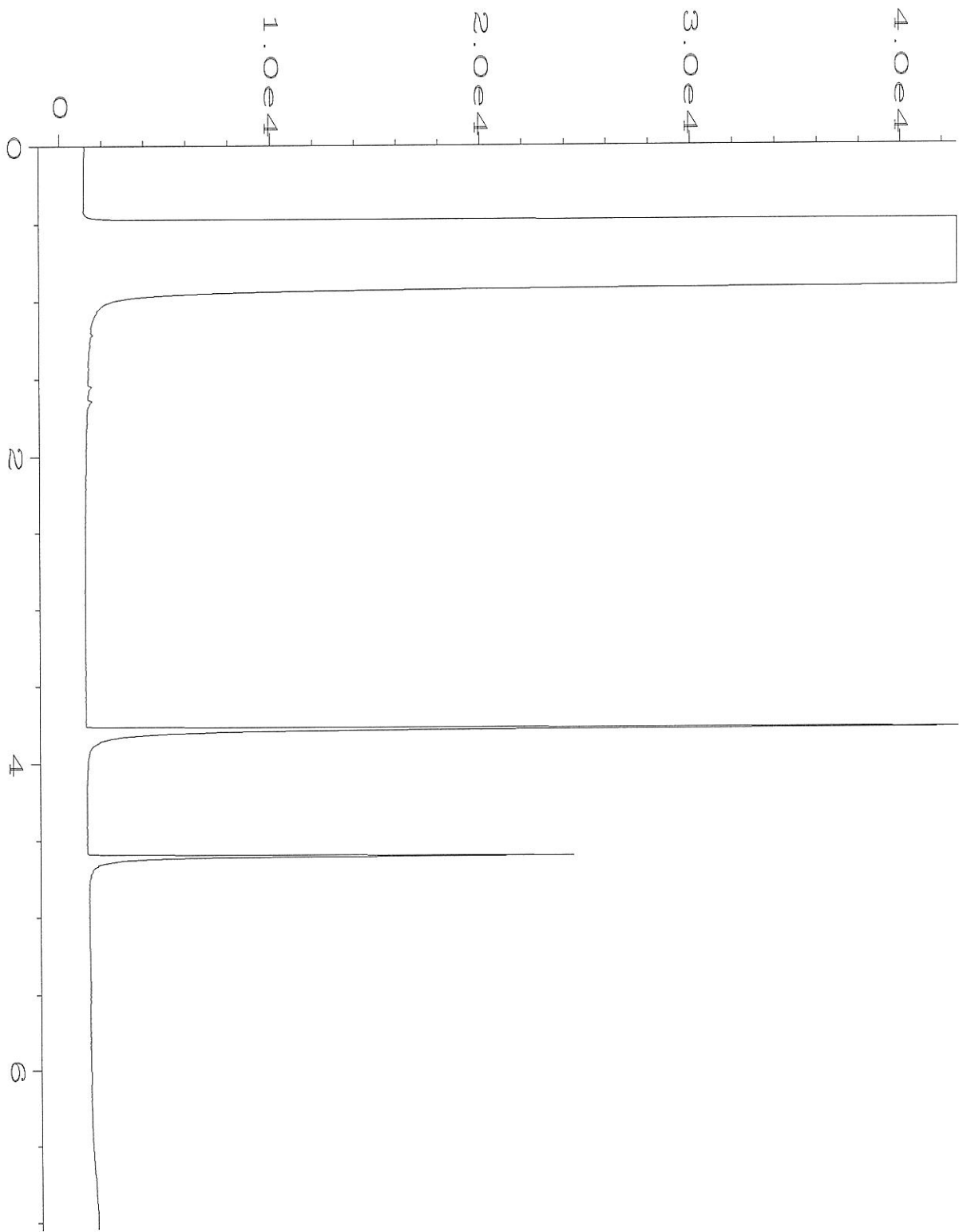




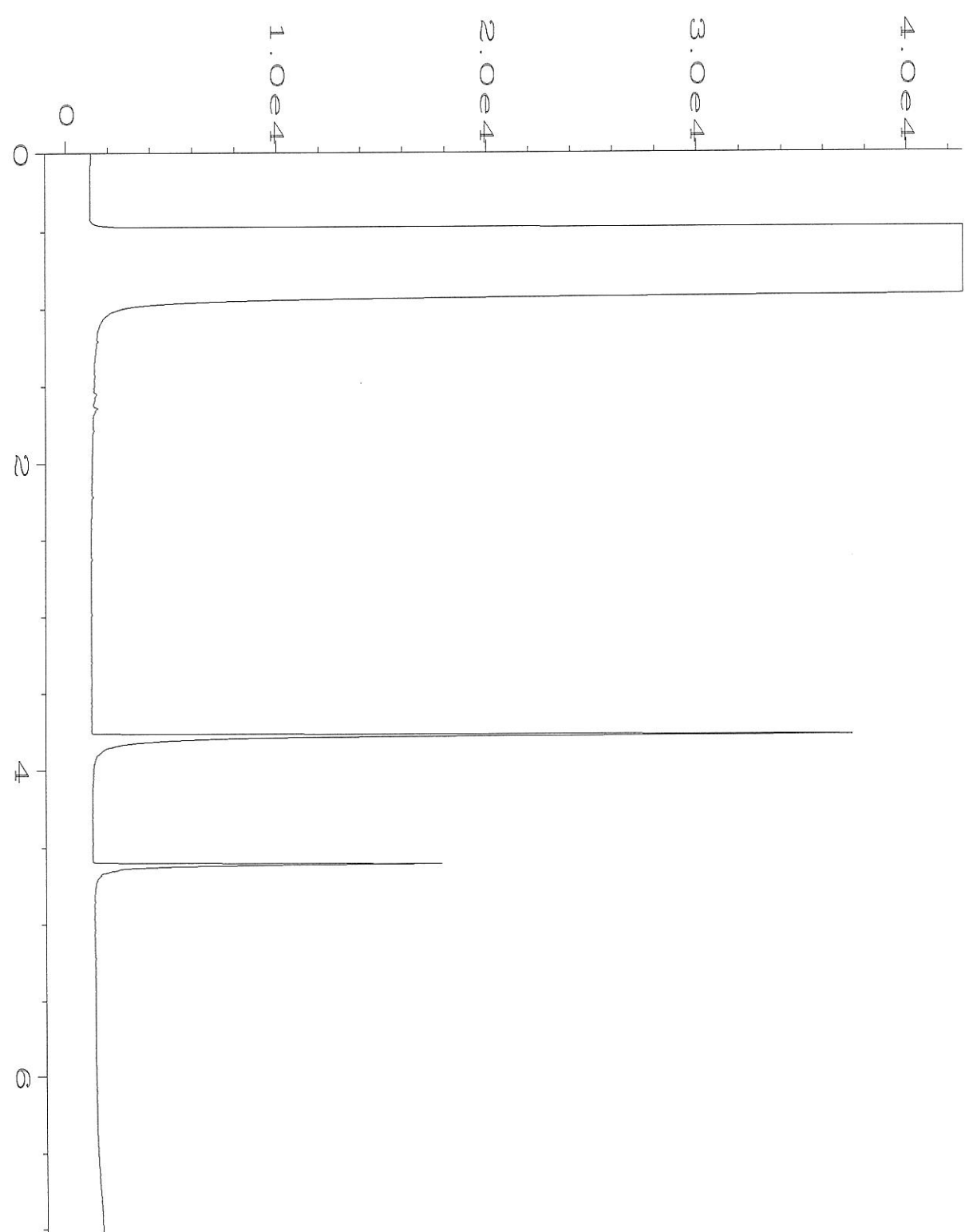
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Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210054-04	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 06 Oct 22 11:10 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	07 Oct 22 10:00 AM		



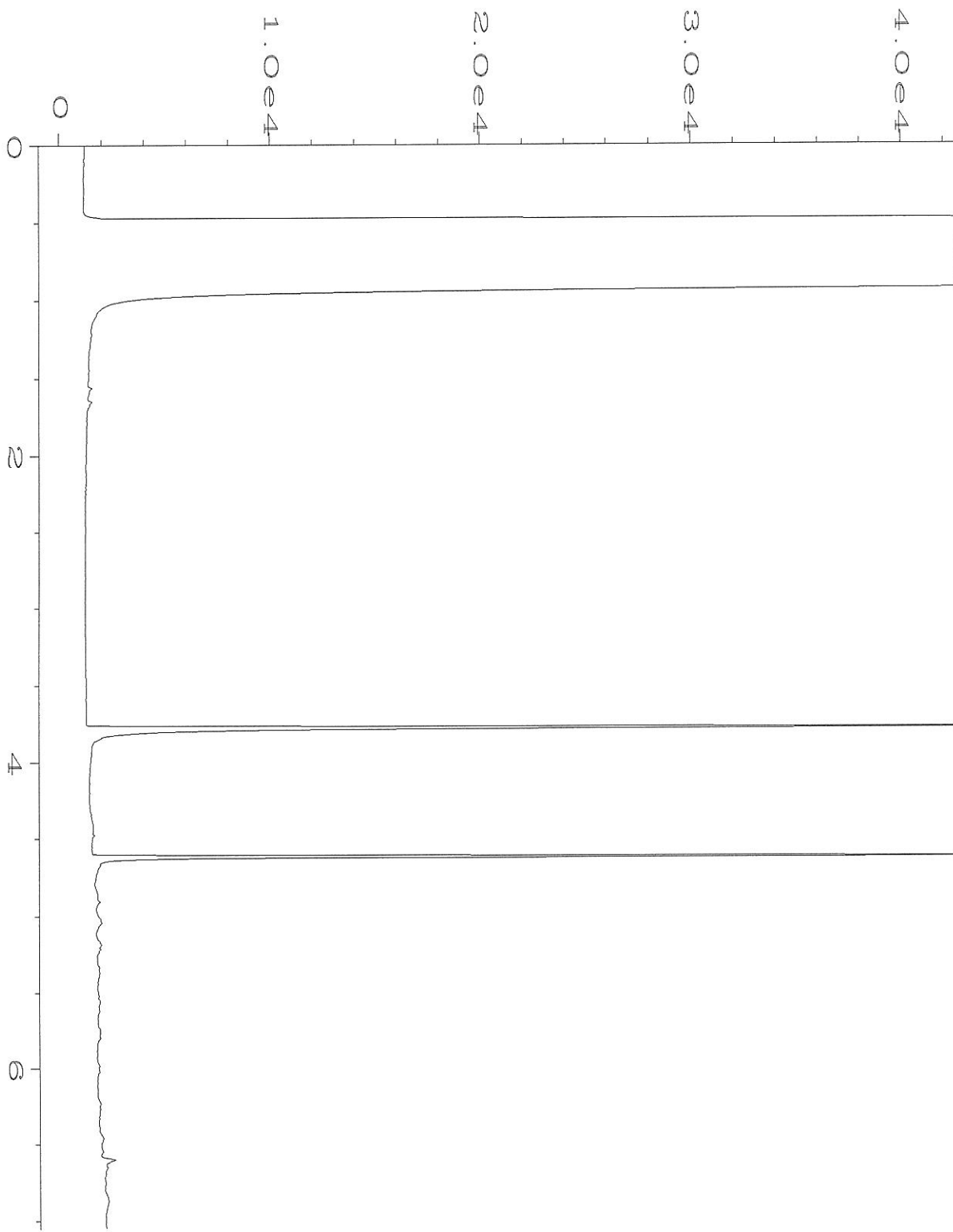
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Operator	: TL	Vial Number	: 22
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210054-05	Sequence Line	: 5
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Report Created on:	07 Oct 22 10:00 AM		



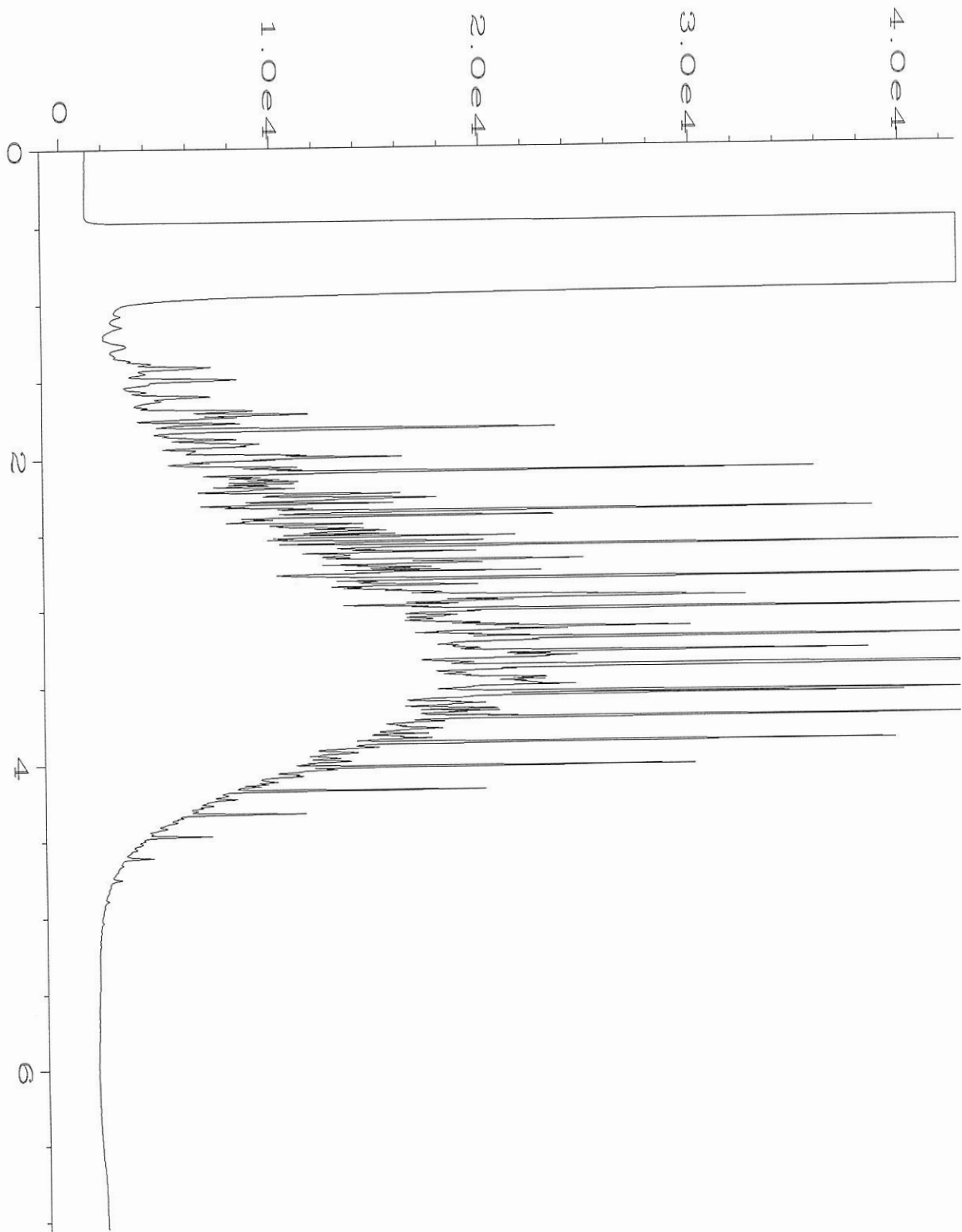
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Sample Name	: 210054-06	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 06 Oct 22 12:43 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	07 Oct 22 10:00 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-06-22\024F0701.D	Page Number	: 1
Operator	: TL	Vial Number	: 24
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 210054-07	Sequence Line	: 7
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 06 Oct 22 12:55 PM	Analysis Method	: DEFAULT.MTH
Report Created on:	07 Oct 22 10:01 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-06-22\016F0501.D	Page Number	: 1
Operator	: TL	Vial Number	: 16
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 02-2417 mb2	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 06 Oct 22 09:45 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	07 Oct 22 10:01 AM		



Data File Name	: C:\HPCHEM\4\DATA\10-06-22\010F0501.D	Page Number	: 1
Operator	: TL	Vial Number	: 10
Instrument	: GC#4	Injection Number	: 1
Sample Name	: 500 Dx 66-186	Sequence Line	: 5
Run Time Bar Code:		Instrument Method:	DX.MTH
Acquired on	: 06 Oct 22 08:26 AM	Analysis Method	: DEFAULT.MTH
Report Created on:	07 Oct 22 10:01 AM		

# **ATTACHMENT C**

## **Photo Log**



Photograph 1. Final excavation extends facing northwest



Photograph 2. Final excavation extends facing northeast





Photograph 3. Area between north shoring wall and the sidewalk right-of-way