



ANALYTICAL SUMMARY REPORT

December 15, 2021

AECOM - Honolulu
1001 Bishop Street, Suite 1600
Honolulu HI, 96813-3698

Work Order: B21111928 Quote ID: 5912

Project Name: CV18F0126/60571032.02.20.01

Energy Laboratories Inc Billings MT received the following 8 samples from AECOM - Honolulu on 11/22/2021 for analysis.

Lab ID	Client Sample ID	Collect Date	Received Date	Matrix	Test
B21111928-001	ERH1919 (RHMW01R)	11/17/21 16:15	11/22/2021	Ground Water	DRO-Liquid-Liquid Extraction SW3520C Diesel Range Organics SW8015C
B21111928-002	ERH1922 (RHMW02)	11/17/21 17:45	11/22/2021	Ground Water	Same As Above
B21111928-003	ERH1925 (RHMW03)	11/17/21 19:25	11/22/2021	Ground Water	Same As Above
B21111928-004	ERH1928 (RHMW05)	11/17/21 14:50	11/22/2021	Ground Water	Same As Above
B21111928-005	ERH1931 (RHMW2254-01)	11/17/21 14:05	11/22/2021	Ground Water	Same As Above
B21111928-006	ERH1934 (RHSF)	11/17/21 13:10	11/22/2021	Drinking Water	DRO-Liquid-Liquid Extraction SW3520C DRO-Liquid-Liquid Extraction SW3520C Diesel Range Organics SW8015C Diesel Range Organics SW8015C
B21111928-007	ERH1936 (RHSF)	11/17/21 13:10	11/22/2021	Drinking Water	Same As Above
B21111928-008	ERH1938 (Post-chlorination)	11/17/21 17:15	11/22/2021	Drinking Water	Same As Above

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the report package. Any issues encountered during sample receipt are documented in the Work Order Receipt Checklist.

The results as reported relate only to the item(s) submitted for testing. This report shall be used or copied only in its entirety. Energy Laboratories, Inc. is not responsible for the consequences arising from the use of a partial report.

If you have any questions regarding these test results, please contact your Project Manager.

Report Approved By:



CLIENT: AECOM - Honolulu
Project: CV18F0126/60571032.02.20.01
Work Order: B21111928

Report Date: 12/15/2021

CASE NARRATIVE

General Comments:

For any question please contact your Project Manager at (406) 252-6325 or billingspm@energylab.com.

All analyses have been performed in accordance with DOD QSM Version 5.3 unless otherwise noted below. The specific methodologies used in obtaining the enclosed analytical results are indicated on the Analytical Summary Report and the Laboratory Analytical Report. The samples were received at the appropriate temperature and in accordance with the chain of custody unless otherwise noted in the Work Order Receipt Checklist.

The tests listed below are accredited and meet the requirements of DoD QSM Version 5.3 as verified by ANSI-ASQ National Accreditation Board (ANAB) certificate number ADE-2588. Exceptions to this require client authorization and records documenting this approval are attached in the Sample Management Records. Accreditation may not be offered or required for all methods and analytes reported in this package. Refer to the certificate and scope of accreditation located at <https://www.energylab.com/whyus/certifications-quality-control/> or contact your project manager.

Project specific matrix quality control samples may not be reported if site specific samples were not submitted. Matrix quality control samples were performed on project samples where adequate volume was available. All quality control measures met criteria unless otherwise noted in the Analytical QC Exceptions report and in the Analysis Specific Comments below. Where available, sample management records are attached.

The Level IV Validation Package includes data reports for all analyses associated with the instrument calibration, quality control (QC) sample analysis, and sample analysis. All analytical data is within method specifications except as noted in the Analytical QC Exceptions report or the Analysis Specific Comments below. The analytical report identifies preparation batch and analytical run IDs associated with each result for a sample. Only the raw data associated with the parameters listed on this report should be validated.

Analysis Specific Comments:

An Analytical QC Exceptions Report has been attached, summarizing all qualified QC results. All quality control measures met criteria; therefore there were no analytical QC exceptions on this report.



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Chain of Custody & Analytical Request Record 202111-

DoD Samples

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coc# 07-NOI

Page 1 of 3

Account Information (Billing information)

Company/Name	AECOM	
Contact	Alethea Ramos / Margie Pascua	
Phone	808-529-7283 / 808-356-5373	
Mailing Address	1001 Bishop St., Suite 1600	
City, State Zip	Honolulu, Hawaii 96813	
Email	alethea.ramos@aecom.com / margie.pascua@aecom.com	
Receive Invoice	<input type="checkbox"/> Hard Copy <input checked="" type="checkbox"/> Email	Receive Report <input type="checkbox"/> Hard Copy <input checked="" type="checkbox"/> Email
Purchase Order	Quote	Bottle Order
N/A	N/A	N/A

Report Information (if different than Account Information)

Company/Name	AECOM	
Contact	see Account Information	
Phone		
Mailing Address		
City, State, Zip		
Email	USAPImaging@aecom.com	
Receive Report	<input type="checkbox"/> Hard Copy <input type="checkbox"/> Email	
Special Report/Formats	<input checked="" type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC <input type="checkbox"/> EDD/EDT (contact laboratory) <input type="checkbox"/> Other	

Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days, Level IV report in 10 working days.
4. Note: NOI log is separate from other COCs.
5. ERH1938 hold until further notice.

Project Information

Project Name	PWSID Permit, etc. CV18F0126/60571032.02.20.01		
Sampler Name	GM, CF, NL	Sampler Phone	808-987-3201
Sample Origin State	Hawaii	EPA/State Compliance	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
URANIUM MINING CLIENTS MUST indicate sample type			
<input type="checkbox"/> Unprocessed Ore			
<input type="checkbox"/> Processed Ore (Ground or Refined) **CALL BEFORE SENDING			
<input type="checkbox"/> 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)			

Matrix Codes

- A - Air
- W - Water
- S - Soils/ Solids
- V - Vegetation
- B - Bioassay
- O - Oil
- DW - Drinking Water

Analysis Requested

EPA 8015 TPH-DRO/RRO w/ SGC	EPA 8015 TPH-DRO/RRO	Extract and Hold	Analysis Requested																	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																		
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																			

All turnaround times are standard unless marked as RUSH

Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling - See Instructions Page

Sample Identification (Name, Location, Interval, etc.)	Collection		Number of Containers	Matrix (See Codes Above)	EPA 8015 TPH-DRO/RRO w/ SGC	EPA 8015 TPH-DRO/RRO	Extract and Hold	See Attached	RUSH TAT	ELI LAB ID <i>221111938</i>
	Date	Time								
1 ERH1919 (RHMW01R)	11/17/2021	12:15 pm	2	GW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
2 ERH1922(RHMW02)	11/17/2021	1:45 pm	2	GW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
3 ERH1925 (RHMW03)	11/17/2021	3:25 pm	2	GW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
4 ERH1928 (RHMW05)	11/17/2021	10:50 am	0	GW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
5 ERH1931 (RHMW2254-01)	11/17/2021	10:05 am	0	GW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
6 ERH1934 (RH5F)	11/17/2021	9:10 am	0	DW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
7 ERH1936 (RH5F)	11/17/2021	9 10 am	0	DW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
8 ERH1938 (Post-chlorination)	11/17/2021	1:15 pm	0	DW	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	
9 <i>in 11/18/21</i>										

ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were NOT used please attach your preservative information with this COC

Custody Record MUST be signed	Relinquished by (print) Tianzhen Nie	Date/Time 11/18/21 15:00	Signature <i>Tianzhen Nie</i>	Received by (print)	Date/Time	Signature
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print) <i>Jana Kottick</i>	Date/Time 11/20/21 12:20	Signature <i>Jana Kottick</i>
LABORATORY USE ONLY						
Shipped By	Cooler ID(s)	Custody Seals <input checked="" type="checkbox"/> N <input type="checkbox"/> C <input type="checkbox"/> B	Contact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	Receipt Temp 14 °C	Temp Blank <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	On Ice <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Payment Type CC Cash Check			Amount \$	Receipt Number (cash/check only)		

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.



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DoD Samples

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COC# 08-NOI

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Account Information (Billing information)

Company/Name	AECOM	
Contact	Alethea Ramos / Margie Pascua	
Phone	808-529-7283 / 808-356-5373	
Mailing Address	1001 Bishop St., Suite 1600	
City, State, Zip	Honolulu, Hawaii 96813	
Email	alethea.ramos@aecom.com / margie.pascua@aecom.com	
Receive Invoice	<input type="checkbox"/> Hard Copy <input checked="" type="checkbox"/> Email	Receive Report <input type="checkbox"/> Hard Copy <input checked="" type="checkbox"/> Email
Purchase Order	Quote	Bottle Order
N/A	N/A	N/A

Report Information (if different than Account Information)

Company/Name	AECOM	
Contact	see Account Information	
Phone		
Mailing Address		
City, State, Zip		
Email	USAPImaging@aecom.com	
Receive Report	<input type="checkbox"/> Hard Copy <input type="checkbox"/> Email	
Special Report/Formats	<input checked="" type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC <input type="checkbox"/> EDD/EDT (contact laboratory) <input type="checkbox"/> Other	

Comments

1. Project performed under DoD QSM.
2. TPH-DRO/RRO needs 3520 extraction.
3. Preliminary data (or Level 1) in 1-2-business days, Level IV report in 10 working days.
4. Note: NOI log is separate from other COCs.
5. ERH1938 hold until further notice.

Project Information

Project Name, PWSID, Permit, etc.	CV18F0126/60571032.02.20.01		
Sampler Name	KL, AM	Sampler Phone	808-636-3319
Sample Origin State	Hawaii	EPA/State Compliance	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
URANIUM MINING CLIENTS MUST indicate sample type			
<input type="checkbox"/> Unprocessed Ore			
<input type="checkbox"/> Processed Ore (Ground or Refined) **CALL BEFORE SENDING			
<input type="checkbox"/> 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)			

Matrix Codes

- A - Air
- W - Water
- S - Soils/ Solids
- V - Vegetation
- B - Bioassay
- O - Oil
- DW - Drinking Water

Analysis Requested

Sample ID	Date	Time	Number of Containers	Matrix (See Codes Above)	EPA 8015		Extract and Hold	See Attached	RUSH TAT
					TPH-DRO/RRO w/ SGC	TPH-DRO/RRO			
1	11/17/2021	12:15 pm	0	GW	✓	✓			X
2	11/17/2021	1:45 pm	0	GW	✓	✓			X
3	11/17/2021	3:25 pm	0	GW	✓	✓			X
4	11/17/2021	10:50 am	0	GW	✓	✓			X
5	11/17/2021	10:05 am	2	GW	✓	✓			X
6	11/17/2021	9:10 am	2	DW	✓	✓			X
7	11/17/2021	9:10 am	2	DW	✓	✓			X
8	11/17/2021	1:15 pm	0	DW	✓	✓	✓		X
9									

All turnaround times are standard unless marked as RUSH

Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling - See Instructions Page

Sample Identification (Name, Location, Interval, etc.)	Collection		Number of Containers	Matrix (See Codes Above)	EPA 8015 TPH-DRO/RRO w/ SGC	EPA 8015 TPH-DRO/RRO	Extract and Hold	See Attached	RUSH TAT	ELI LAB ID Laboratory Use Only
	Date	Time								
1 ERH1919 (RHMW01R)	11/17/2021	12:15 pm	0	GW	✓	✓			X	82111928
2 ERH1922 (RHMW02)	11/17/2021	1:45 pm	0	GW	✓	✓			X	
3 ERH1925 (RHMW03)	11/17/2021	3:25 pm	0	GW	✓	✓			X	
4 ERH1928 (RHMW05)	11/17/2021	10:50 am	0	GW	✓	✓			X	
5 ERH1931 (RHMW2254-01)	11/17/2021	10:05 am	2	GW	✓	✓			X	
6 ERH1934 (RH5F)	11/17/2021	9:10 am	2	DW	✓	✓			X	
7 ERH1936 (RH5F)	11/17/2021	9:10 am	2	DW	✓	✓			X	
8 ERH1938 (Post-chlorination)	11/17/2021	1:15 pm	0	DW	✓	✓	✓		X	
9										

ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were NOT used, please attach your preservative information with this COC

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Tianzhen Nie	11/18/21 15:00	<i>[Signature]</i>			
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				10/12/21	10/46	<i>[Signature]</i>
LABORATORY USE ONLY						
Shipped By	Cooler ID(s)	Custody Seals	Intact	Receipt Temp	Temp Blank	On Ice
		Y N C B	Y N	24 °C	Y N	Y N
Payment Type			Amount	Receipt Number (cash/check only)		
CC Cash Check			\$			

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DoD Samples

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COC# 09-NOI

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Account Information (Billing information)

Company/Name	AECOM	
Contact	Alethea Ramos / Margie Pascua	
Phone	808-529-7283 / 808-356-5373	
Mailing Address	1001 Bishop St., Suite 1600	
City, State, Zip	Honolulu, Hawaii 96813	
Email	alethea.ramos@aecom.com / margie.pascua@aecom.com	
Receive Invoice	<input type="checkbox"/> Hard Copy <input checked="" type="checkbox"/> Email	Receive Report <input type="checkbox"/> Hard Copy <input checked="" type="checkbox"/> Email
Purchase Order	Quote	Bottle Order
N/A	N/A	N/A

Report Information (if different than Account Information)

Company/Name	AECOM	
Contact	see Account Information	
Phone		
Mailing Address		
City, State, Zip		
Email	USAPImaging@aecom.com	
Receive Report	<input type="checkbox"/> Hard Copy <input type="checkbox"/> Email	
Special Report/Formats	<input checked="" type="checkbox"/> LEVEL IV <input type="checkbox"/> NELAC <input type="checkbox"/> EDD/EDT (contact laboratory) <input type="checkbox"/> Other	

Comments

1. Project performed under DoD QSM.
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3. Preliminary data (or Level 1) in 1-2-business days; Level IV report in 10 working days.
4. Note: NOI log is separate from other COCs.
5. ERH1938 hold until further notice.

Project Information

Project Name, PWSID, Permit, etc.	CV18F0126/60571032.02.20.01	
Sampler Name KL, AM, GM, NL, CF	Sampler Phone	808-636-3319
Sample Origin State	EPA/State Compliance	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Hawaii		
URANIUM MINING CLIENTS MUST indicate sample type		
<input type="checkbox"/> Unprocessed Ore		
<input type="checkbox"/> Processed Ore (Ground or Refined) **CALL BEFORE SENDING		
<input type="checkbox"/> 11(e)2 Byproduct Material (Can ONLY be Submitted to ELI Casper Location)		

Matrix Codes

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- V - Vegetation
- B - Bioassay
- O - Oil
- DW - Drinking Water

Analysis Requested

EPA 8015 TPH-DRO/RRO w/SGC	EPA 8015 TPH-DRO/ RRO	Extract and Hold	Analysis Requested																	
✓	✓																			
✓	✓																			
✓	✓																			
✓	✓																			
✓	✓																			
✓	✓																			
✓	✓	✓																		

All turnaround times are standard unless marked as RUSH

Energy Laboratories MUST be contacted prior to RUSH sample submittal for charges and scheduling - See Instructions Page

Sample Identification (Name, Location, Interval, etc.)	Collection		Number of Containers	Matrix (See Codes Above)	EPA 8015 TPH-DRO/RRO w/SGC	EPA 8015 TPH-DRO/ RRO	Extract and Hold	See Attached	RUSH TAT	ELI LAB ID (Laboratory Use Only)
	Date	Time								
1 ERH1919 (RHMW01R)	11/17/2021	12:15 pm	0	GW	✓	✓			X	B21111928
2 ERH1922 (RHMW02)	11/17/2021	1:45 pm	0	GW	✓	✓			X	
3 ERH1925 (RHMW03)	11/17/2021	3:25 pm	0	GW	✓	✓			X	
4 ERH1928 (RHMW05)	11/17/2021	10:50 am	2	GW	✓	✓			X	
5 ERH1931 (RHMW2254-01)	11/17/2021	10:05 am	0	GW	✓	✓			X	
6 ERH1934 (RH5F)	11/17/2021	9:10 am	0	DW	✓	✓			X	
7 ERH1936 (RH5F)	11/17/2021	9:10 am	0	DW	✓	✓			X	
8 ERH1938 (Post-chlorination)	11/17/2021	1:15 pm	2	DW	✓	✓	✓		X	
9 ERH1938 (Post-chlorination)										

ELI is REQUIRED to provide preservative traceability. If the preservatives supplied with the bottle order were NOT used, please attach your preservative information with this COC

Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature			
	Tianzhen Nie	11/18/21 15:00	<i>[Signature]</i>	Stacy Cottler	11/22/21 12:30	<i>[Signature]</i>			
LABORATORY USE ONLY									
Shipped By	Cooler ID(s)	Custody Seals	Intact	Receipt Temp	Temp Blank	On Ice	Payment Type	Amount	Receipt Number (cash/check only)
		(Y) N C B	(Y) N	1.0 °C	(Y) N	(Y) N	CC Cash Check	\$	

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All subcontracted data will be clearly notated on your analytical report.



Work Order Receipt Checklist

AECOM - Honolulu

B21111928

Login completed by: Tabitha Edwards
Reviewed by: BL2000\gmccartney
Reviewed Date: 11/24/2021

Date Received: 11/22/2021
Received by: srg
Carrier name: FedEx

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on all shipping container(s)/cooler(s)? Yes [checked] No [] Not Present []
Custody seals intact on all sample bottles? Yes [checked] No [] Not Present []
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? (Exclude analyses that are considered field parameters such as pH, DO, Res Cl, Sulfite, Ferrous Iron, etc.) Yes [checked] No []
Temp Blank received in all shipping container(s)/cooler(s)? Yes [] No [checked] Not Applicable []
Container/Temp Blank temperature: °C On Ice
Water - VOA vials have zero headspace? Yes [] No [] Not Applicable [checked]
Water - pH acceptable upon receipt? Yes [checked] No [] Not Applicable []

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

The temperature of the sample(s) for shipping container 1 was 2.4°C. The Temperature Blank temperature for shipping container 2 was 1.4°C and shipping container 3 was 1.0°C.

The collection time indicated on the Chain of Custody for all samples is in Hawaii-Aleutian Standard Time. The collection time has been converted (+4 Hours) to Mountain Standard Time.

Sample ERH1938 (Post-chlorination) was taken off hold on 11/30/21 per email from Alethea Ramos.

Re-extract and re-analyze samples ERH1934 (RHSF), ERH1936 (RHSF) and ERH1938 (Post-chlorination) on a rush 5 day TAT per conversation between Alethea Ramos and Shari Endy, Energy Laboratories Project Manager, on 12/01/21.

Qualifiers and Abbreviations

Qualifier	Qualifier Description
##	Limit of Quantitation (LOQ) for this analyte exceeds the Maximum Contaminant Level (MCL)
*	Result exceeds the Maximum Contaminant Level (MCL)
A	The analyte level was greater than four times the spike level - in accordance with the method, percent recovery is not calculated
B	Analyte detected in the method blank
C	Continuing calibration verification was outside of the quality control advisory limits
D	Limit of Quantitation (LOQ) increased due to sample matrix
E	Estimated value - result exceeds the instrument upper quantitation limit
H	Analysis performed past the method holding time
J	The reported result is an estimated value
L	Lowest Limit of Quantitation (LOQ) available for the analytical method used
N	Analyte concentration was not sufficiently high to calculate a Relative Percent Difference (RPD) for the serial dilution test
O	Diluted out
P	Poor method performance - method validations have shown no recoveries at low concentrations or method performance was erratic
Q	Values reported below the Limit of Quantitation (LOQ) are statistically invalid
R	Relative Percent Difference (RPD) exceeds advisory limit
S	Spike recovery outside of advisory limits
T	Analyte detected in the associated trip blank
U	Not detected at the Limit of Detection (LOD)
V	The RPD value for this duplicate represents the RER value and the RPD limit of 2 is the RER upper limit.

Qualifiers and Abbreviations

Abbreviation

Reporting	Explanation of Abbreviation
DF	Dilution Factor
DL	Detection Limit
LOD	Limit of Detection
LOQ	Limit of Quantitation
MCL	Maximum Contaminant Level
MDC	Minimum Detectable Concentration
ND	Not detected at the Limit of Quantitation (LOQ)
RBSL	Risk-Based Screening Levels
REC	Recovery
RER	Relative Error Ratio
RPD	Relative Percent Difference
SPK	Spike

Sample Types	Explanation of Abbreviation
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification Standard
DUP	Sample Duplicate
ICSA	Interference Check Sample A
ICSAB	Interference Check Sample AB
ICV	Initial Calibration Verification Standard
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LFB	Laboratory Fortified Blank
LRB	Laboratory Reagent Blank
MBLK	Method Blank
MS	Sample Matrix Spike
MSD	Sample Matrix Spike Duplicate
PDS	Post Digestion/Distillation Spike
QCS	Quality Control Sample
SD	Serial Dilution
SRM	Standard Reference Material



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Lab ID: B21111928-001

Collection Date: 11/17/2021 16:15

Date Received: 11/22/2021

Report Date: 12/15/2021

Client: AECOM - Honolulu
Client Sample ID: ERH1919 (RHMW01R)
Project: CV18F0126/60571032.02.20.01
Matrix: Ground Water

Analyses	Result	Units	DF	Qual	LOQ	LOD	DL	MCL	Method	Analysis Date / By	RunID : Run Order	BatchID
PETROLEUM HYDROCARBONS-SEMI-VOLATILE												
Diesel Range Organics (C10 to C24)	0.53	mg/L	1		0.30	0.15	0.039		SW8015C	11/27/2021 15:43/amn	GCFID-HP5-B_211124A : 21	161631
Diesel Range Organics (SGT-C10 to C24)	0.10	mg/L	1	J	0.30	0.12	0.039		SW8015C	11/30/2021 02:41/amn	GCFID-HP5-B_211129B : 16	161631
Oil Range Hydrocarbons (C24 to C40)	0.20	mg/L	1	J	0.30	0.15	0.088		SW8015C	11/27/2021 15:43/amn	GCFID-HP5-B_211124A : 21	161631
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	mg/L	1	U	0.30	0.15	0.088		SW8015C	11/30/2021 02:41/amn	GCFID-HP5-B_211129B : 16	161631
Total Extractable Hydrocarbons	0.81	mg/L	1		0.30	0.15	0.075		SW8015C	11/27/2021 15:43/amn	GCFID-HP5-B_211124A : 21	161631
Total Extractable Hydrocarbons (SGT)	0.11	mg/L	1	J	0.30	0.12	0.033		SW8015C	11/30/2021 02:41/amn	GCFID-HP5-B_211129B : 16	161631
Surr: o-Terphenyl	100.0	%REC	1		56-125				SW8015C	11/27/2021 15:43/amn	GCFID-HP5-B_211124A : 21	161631
Surr: o-Terphenyl (SGT)	86.0	%REC	1		56-125				SW8015C	11/30/2021 02:41/amn	GCFID-HP5-B_211129B : 16	161631
Surr: n-Triacontane	98.0	%REC	1		50-150				SW8015C	11/27/2021 15:43/amn	GCFID-HP5-B_211124A : 21	161631
Surr: n-Triacontane (SGT)	79.0	%REC	1		50-150				SW8015C	11/30/2021 02:41/amn	GCFID-HP5-B_211129B : 16	161631

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Client Sample ID: ERH1922 (RHMW02)
Project: CV18F0126/60571032.02.20.01
Matrix: Ground Water

Lab ID: B21111928-002
Collection Date: 11/17/2021 17:45
Date Received: 11/22/2021
Report Date: 12/15/2021

Analyses	Result	Units	DF	Qual	LOQ	LOD	DL	MCL	Method	Analysis Date / By	RunID : Run Order	BatchID
PETROLEUM HYDROCARBONS-SEMI-VOLATILE												
Diesel Range Organics (C10 to C24)	2.5	mg/L	1		0.30	0.15	0.038		SW8015C	11/27/2021 17:51/amn	GCFID-HP5-B_211124A : 22	161631
Diesel Range Organics (SGT-C10 to C24)	0.52	mg/L	1		0.30	0.12	0.038		SW8015C	11/30/2021 03:24/amn	GCFID-HP5-B_211129B : 17	161631
Oil Range Hydrocarbons (C24 to C40)	0.33	mg/L	1		0.30	0.15	0.086		SW8015C	11/27/2021 17:51/amn	GCFID-HP5-B_211124A : 22	161631
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	mg/L	1	U	0.30	0.15	0.086		SW8015C	11/30/2021 03:24/amn	GCFID-HP5-B_211129B : 17	161631
Total Extractable Hydrocarbons	3.0	mg/L	1		0.30	0.15	0.073		SW8015C	11/27/2021 17:51/amn	GCFID-HP5-B_211124A : 22	161631
Total Extractable Hydrocarbons (SGT)	0.54	mg/L	1		0.30	0.12	0.032		SW8015C	11/30/2021 03:24/amn	GCFID-HP5-B_211129B : 17	161631
Surr: o-Terphenyl	74.0	%REC	1		56-125				SW8015C	11/27/2021 17:51/amn	GCFID-HP5-B_211124A : 22	161631
Surr: o-Terphenyl (SGT)	67.0	%REC	1		56-125				SW8015C	11/30/2021 03:24/amn	GCFID-HP5-B_211129B : 17	161631
Surr: n-Triacontane	96.0	%REC	1		50-150				SW8015C	11/27/2021 17:51/amn	GCFID-HP5-B_211124A : 22	161631
Surr: n-Triacontane (SGT)	83.0	%REC	1		50-150				SW8015C	11/30/2021 03:24/amn	GCFID-HP5-B_211129B : 17	161631

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Lab ID: B21111928-003
Collection Date: 11/17/2021 19:25
Date Received: 11/22/2021
Report Date: 12/15/2021

Client: AECOM - Honolulu
Client Sample ID: ERH1925 (RHMW03)
Project: CV18F0126/60571032.02.20.01
Matrix: Ground Water

Analyses	Result	Units	DF	Qual	LOQ	LOD	DL	MCL	Method	Analysis Date / By	RunID : Run Order	BatchID
PETROLEUM HYDROCARBONS-SEMI-VOLATILE												
Diesel Range Organics (C10 to C24)	0.12	mg/L	1	J	0.30	0.15	0.039		SW8015C	11/29/2021 13:50/amn	GCFID-HP5-B_211129A : 4	161631
Diesel Range Organics (SGT-C10 to C24)	ND	mg/L	1	U	0.30	0.12	0.039		SW8015C	11/29/2021 23:50/amn	GCFID-HP5-B_211129B : 14	161631
Oil Range Hydrocarbons (C24 to C40)	0.35	mg/L	1		0.30	0.15	0.089		SW8015C	11/29/2021 13:50/amn	GCFID-HP5-B_211129A : 4	161631
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	mg/L	1	U	0.30	0.15	0.089		SW8015C	11/29/2021 23:50/amn	GCFID-HP5-B_211129B : 14	161631
Total Extractable Hydrocarbons	0.55	mg/L	1		0.30	0.15	0.076		SW8015C	11/29/2021 13:50/amn	GCFID-HP5-B_211129A : 4	161631
Total Extractable Hydrocarbons (SGT)	0.063	mg/L	1	J	0.30	0.12	0.033		SW8015C	11/29/2021 23:50/amn	GCFID-HP5-B_211129B : 14	161631
Surr: o-Terphenyl	74.0	%REC	1		56-125				SW8015C	11/29/2021 13:50/amn	GCFID-HP5-B_211129A : 4	161631
Surr: o-Terphenyl (SGT)	61.0	%REC	1		56-125				SW8015C	11/29/2021 23:50/amn	GCFID-HP5-B_211129B : 14	161631
Surr: n-Triacontane	104.0	%REC	1		50-150				SW8015C	11/29/2021 13:50/amn	GCFID-HP5-B_211129A : 4	161631
Surr: n-Triacontane (SGT)	79.0	%REC	1		50-150				SW8015C	11/29/2021 23:50/amn	GCFID-HP5-B_211129B : 14	161631

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Client Sample ID: ERH1928 (RHMW05)
Project: CV18F0126/60571032.02.20.01
Matrix: Ground Water

Lab ID: B21111928-004
Collection Date: 11/17/2021 14:50
Date Received: 11/22/2021
Report Date: 12/15/2021

Analyses	Result	Units	DF	Qual	LOQ	LOD	DL	MCL	Method	Analysis Date / By	RunID : Run Order	BatchID
PETROLEUM HYDROCARBONS-SEMI-VOLATILE												
Diesel Range Organics (C10 to C24)	0.081	mg/L	1	J	0.30	0.14	0.037		SW8015C	11/27/2021 12:11/amn	GCFID-HP5-B_211124A : 19	161631
Diesel Range Organics (SGT-C10 to C24)	ND	mg/L	1	U	0.30	0.12	0.037		SW8015C	11/30/2021 01:16/amn	GCFID-HP5-B_211129B : 15	161631
Oil Range Hydrocarbons (C24 to C40)	0.17	mg/L	1	J	0.30	0.14	0.085		SW8015C	11/27/2021 12:11/amn	GCFID-HP5-B_211124A : 19	161631
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	mg/L	1	U	0.30	0.14	0.085		SW8015C	11/30/2021 01:16/amn	GCFID-HP5-B_211129B : 15	161631
Total Extractable Hydrocarbons	0.35	mg/L	1		0.30	0.14	0.072		SW8015C	11/27/2021 12:11/amn	GCFID-HP5-B_211124A : 19	161631
Total Extractable Hydrocarbons (SGT)	ND	mg/L	1	U	0.30	0.12	0.032		SW8015C	11/30/2021 01:16/amn	GCFID-HP5-B_211129B : 15	161631
Surr: o-Terphenyl	98.0	%REC	1		56-125				SW8015C	11/27/2021 12:11/amn	GCFID-HP5-B_211124A : 19	161631
Surr: o-Terphenyl (SGT)	80.0	%REC	1		56-125				SW8015C	11/30/2021 01:16/amn	GCFID-HP5-B_211129B : 15	161631
Surr: n-Triacontane	99.0	%REC	1		50-150				SW8015C	11/27/2021 12:11/amn	GCFID-HP5-B_211124A : 19	161631
Surr: n-Triacontane (SGT)	77.0	%REC	1		50-150				SW8015C	11/30/2021 01:16/amn	GCFID-HP5-B_211129B : 15	161631

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Lab ID: B21111928-005
Collection Date: 11/17/2021 14:05
Date Received: 11/22/2021
Report Date: 12/15/2021

Client: AECOM - Honolulu
Client Sample ID: ERH1931 (RHMW2254-01)
Project: CV18F0126/60571032.02.20.01
Matrix: Ground Water

Analyses	Result	Units	DF	Qual	LOQ	LOD	DL	MCL	Method	Analysis Date / By	RunID : Run Order	BatchID
PETROLEUM HYDROCARBONS-SEMI-VOLATILE												
Diesel Range Organics (C10 to C24)	0.087	mg/L	1	J	0.30	0.14	0.037		SW8015C	11/24/2021 16:01/amn	GCFID-HP5-B_211124A : 1C	161631
Diesel Range Organics (SGT-C10 to C24)	ND	mg/L	1	U	0.30	0.12	0.037		SW8015C	11/29/2021 22:24/amn	GCFID-HP5-B_211129B : 12	161631
Oil Range Hydrocarbons (C24 to C40)	0.37	mg/L	1		0.30	0.14	0.085		SW8015C	11/24/2021 16:01/amn	GCFID-HP5-B_211124A : 1C	161631
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	mg/L	1	U	0.30	0.14	0.085		SW8015C	11/29/2021 22:24/amn	GCFID-HP5-B_211129B : 12	161631
Total Extractable Hydrocarbons	0.54	mg/L	1		0.30	0.14	0.072		SW8015C	11/24/2021 16:01/amn	GCFID-HP5-B_211124A : 1C	161631
Total Extractable Hydrocarbons (SGT)	ND	mg/L	1	U	0.30	0.12	0.032		SW8015C	11/29/2021 22:24/amn	GCFID-HP5-B_211129B : 12	161631
Surr: o-Terphenyl	97.0	%REC	1		56-125				SW8015C	11/24/2021 16:01/amn	GCFID-HP5-B_211124A : 1C	161631
Surr: o-Terphenyl (SGT)	87.0	%REC	1		56-125				SW8015C	11/29/2021 22:24/amn	GCFID-HP5-B_211129B : 12	161631
Surr: n-Triacontane	93.0	%REC	1		50-150				SW8015C	11/24/2021 16:01/amn	GCFID-HP5-B_211124A : 1C	161631
Surr: n-Triacontane (SGT)	82.0	%REC	1		50-150				SW8015C	11/29/2021 22:24/amn	GCFID-HP5-B_211129B : 12	161631

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Lab ID: B21111928-006

Collection Date: 11/17/2021 13:10

Date Received: 11/22/2021

Report Date: 12/15/2021

Client: AECOM - Honolulu
Client Sample ID: ERH1934 (RHSF)
Project: CV18F0126/60571032.02.20.01
Matrix: Drinking Water

Analyses	Result	Units	DF	Qual	LOQ	LOD	DL	MCL	Method	Analysis Date / By	RunID : Run Order	BatchID
PETROLEUM HYDROCARBONS-SEMI-VOLATILE												
Diesel Range Organics (C10 to C24)	ND	mg/L	1	U	0.30	0.15	0.039		SW8015C	12/3/2021 10:37/amn	GCFID-HP5-B_211202B : 8	161809
Diesel Range Organics (C10 to C24)	0.21	mg/L	1	J	0.30	0.14	0.037		SW8015C	11/24/2021 13:53/amn	GCFID-HP5-B_211124A : 7	161631
Diesel Range Organics (SGT-C10 to C24)	ND	mg/L	1	U	0.30	0.12	0.037		SW8015C	11/29/2021 23:07/amn	GCFID-HP5-B_211129B : 13	161631
Oil Range Hydrocarbons (C24 to C40)	ND	mg/L	1	U	0.30	0.15	0.088		SW8015C	12/3/2021 10:37/amn	GCFID-HP5-B_211202B : 8	161809
Oil Range Hydrocarbons (C24 to C40)	0.39	mg/L	1		0.30	0.14	0.085		SW8015C	11/24/2021 13:53/amn	GCFID-HP5-B_211124A : 7	161631
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	mg/L	1	U	0.30	0.14	0.085		SW8015C	11/29/2021 23:07/amn	GCFID-HP5-B_211129B : 13	161631
Total Extractable Hydrocarbons	ND	mg/L	1	U	0.30	0.15	0.075		SW8015C	12/3/2021 10:37/amn	GCFID-HP5-B_211202B : 8	161809
Total Extractable Hydrocarbons	0.67	mg/L	1		0.30	0.14	0.072		SW8015C	11/24/2021 13:53/amn	GCFID-HP5-B_211124A : 7	161631
Total Extractable Hydrocarbons (SGT)	ND	mg/L	1	U	0.30	0.12	0.032		SW8015C	11/29/2021 23:07/amn	GCFID-HP5-B_211129B : 13	161631
Surr: o-Terphenyl	108.0	%REC	1		50-150				SW8015C	12/3/2021 10:37/amn	GCFID-HP5-B_211202B : 8	161809
Surr: o-Terphenyl	96.0	%REC	1		56-125				SW8015C	11/24/2021 13:53/amn	GCFID-HP5-B_211124A : 7	161631
Surr: o-Terphenyl (SGT)	94.0	%REC	1		56-125				SW8015C	11/29/2021 23:07/amn	GCFID-HP5-B_211129B : 13	161631
Surr: n-Triacontane	100.0	%REC	1		50-150				SW8015C	12/3/2021 10:37/amn	GCFID-HP5-B_211202B : 8	161809
Surr: n-Triacontane	92.0	%REC	1		50-150				SW8015C	11/24/2021 13:53/amn	GCFID-HP5-B_211124A : 7	161631
Surr: n-Triacontane (SGT)	87.0	%REC	1		50-150				SW8015C	11/29/2021 23:07/amn	GCFID-HP5-B_211129B : 13	161631

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Lab ID: B21111928-007
Collection Date: 11/17/2021 13:10
Date Received: 11/22/2021
Report Date: 12/15/2021

Client: AECOM - Honolulu
Client Sample ID: ERH1936 (RHSF)
Project: CV18F0126/60571032.02.20.01
Matrix: Drinking Water

Analyses	Result	Units	DF	Qual	LOQ	LOD	DL	MCL	Method	Analysis Date / By	RunID : Run Order	BatchID
PETROLEUM HYDROCARBONS SEMI-VOLATILE												
Diesel Range Organics (C10 to C24)	ND	mg/L	1	U	0.30	0.15	0.039		SW8015C	12/3/2021 09:54/amn	GCFID-HP5-B_211202B : 7	161809
Diesel Range Organics (C10 to C24)	0.040	mg/L	1	J	0.30	0.14	0.037		SW8015C	11/24/2021 14:36/amn	GCFID-HP5-B_211124A : 8	161631
Diesel Range Organics (SGT-C10 to C24)	ND	mg/L	1	U	0.30	0.11	0.037		SW8015C	11/29/2021 18:07/amn	GCFID-HP5-B_211129B : 8	161631
Oil Range Hydrocarbons (C24 to C40)	ND	mg/L	1	U	0.30	0.15	0.088		SW8015C	12/3/2021 09:54/amn	GCFID-HP5-B_211202B : 7	161809
Oil Range Hydrocarbons (C24 to C40)	0.23	mg/L	1	J	0.30	0.14	0.084		SW8015C	11/24/2021 14:36/amn	GCFID-HP5-B_211124A : 8	161631
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	mg/L	1	U	0.30	0.14	0.084		SW8015C	11/29/2021 18:07/amn	GCFID-HP5-B_211129B : 8	161631
Total Extractable Hydrocarbons	ND	mg/L	1	U	0.30	0.15	0.075		SW8015C	12/3/2021 09:54/amn	GCFID-HP5-B_211202B : 7	161809
Total Extractable Hydrocarbons	0.33	mg/L	1		0.30	0.14	0.072		SW8015C	11/24/2021 14:36/amn	GCFID-HP5-B_211124A : 8	161631
Total Extractable Hydrocarbons (SGT)	ND	mg/L	1	U	0.30	0.11	0.031		SW8015C	11/29/2021 18:07/amn	GCFID-HP5-B_211129B : 8	161631
Surr: o-Terphenyl	106.0	%REC	1		50-150				SW8015C	12/3/2021 09:54/amn	GCFID-HP5-B_211202B : 7	161809
Surr: o-Terphenyl	97.0	%REC	1		56-125				SW8015C	11/24/2021 14:36/amn	GCFID-HP5-B_211124A : 8	161631
Surr: o-Terphenyl (SGT)	84.0	%REC	1		56-125				SW8015C	11/29/2021 18:07/amn	GCFID-HP5-B_211129B : 8	161631
Surr: n-Triacontane	100.0	%REC	1		50-150				SW8015C	12/3/2021 09:54/amn	GCFID-HP5-B_211202B : 7	161809
Surr: n-Triacontane	95.0	%REC	1		50-150				SW8015C	11/24/2021 14:36/amn	GCFID-HP5-B_211124A : 8	161631
Surr: n-Triacontane (SGT)	80.0	%REC	1		50-150				SW8015C	11/29/2021 18:07/amn	GCFID-HP5-B_211129B : 8	161631

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Lab ID: B21111928-008

Collection Date: 11/17/2021 17:15

Date Received: 11/22/2021

Report Date: 12/15/2021

Client: AECOM - Honolulu
Client Sample ID: ERH1938 (Post-chlorination)
Project: CV18F0126/60571032.02.20.01
Matrix: Drinking Water

Analyses	Result	Units	DF	Qual	LOQ	LOD	DL	MCL	Method	Analysis Date / By	RunID : Run Order	BatchID
PETROLEUM HYDROCARBONS-SEMI-VOLATILE												
Diesel Range Organics (C10 to C24)	0.064	mg/L	1	J	0.30	0.15	0.039		SW8015C	12/3/2021 12:03/amn	GCFID-HP5-B_211202B : 9	161809
Diesel Range Organics (C10 to C24)	0.26	mg/L	1	J	0.30	0.14	0.037		SW8015C	11/24/2021 15:18/amn	GCFID-HP5-B_211124A : 32	161631
Diesel Range Organics (SGT-C10 to C24)	ND	mg/L	1	U	0.30	0.12	0.037		SW8015C	11/30/2021 13:24/amn	GCFID-HP5-B_211129B : 25	161631
Diesel Range Organics (SGT-C10 to C24)	ND	mg/L	1	U	0.30	0.12	0.039		SW8015C	12/7/2021 18:18/amn	GCFID-HP5-B_211207A : 7	161809
Oil Range Hydrocarbons (C24 to C40)	ND	mg/L	1	U	0.30	0.15	0.088		SW8015C	12/3/2021 12:03/amn	GCFID-HP5-B_211202B : 9	161809
Oil Range Hydrocarbons (C24 to C40)	0.53	mg/L	1		0.30	0.14	0.085		SW8015C	11/24/2021 15:18/amn	GCFID-HP5-B_211124A : 32	161631
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	mg/L	1	U	0.30	0.14	0.085		SW8015C	11/30/2021 13:24/amn	GCFID-HP5-B_211129B : 25	161631
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	mg/L	1	U	0.30	0.15	0.088		SW8015C	12/7/2021 18:18/amn	GCFID-HP5-B_211207A : 7	161809
Total Extractable Hydrocarbons	0.13	mg/L	1	J	0.30	0.15	0.075		SW8015C	12/3/2021 12:03/amn	GCFID-HP5-B_211202B : 9	161809
Total Extractable Hydrocarbons	0.88	mg/L	1		0.30	0.14	0.072		SW8015C	11/24/2021 15:18/amn	GCFID-HP5-B_211124A : 32	161631
Total Extractable Hydrocarbons (SGT)	ND	mg/L	1	U	0.30	0.12	0.032		SW8015C	11/30/2021 13:24/amn	GCFID-HP5-B_211129B : 25	161631
Total Extractable Hydrocarbons (SGT)	ND	mg/L	1	U	0.30	0.12	0.033		SW8015C	12/7/2021 18:18/amn	GCFID-HP5-B_211207A : 7	161809
Surr: o-Terphenyl	107.0	%REC	1		56-125				SW8015C	12/3/2021 12:03/amn	GCFID-HP5-B_211202B : 9	161809
Surr: o-Terphenyl	101.0	%REC	1		56-125				SW8015C	11/24/2021 15:18/amn	GCFID-HP5-B_211124A : 32	161631
Surr: o-Terphenyl (SGT)	87.0	%REC	1		56-125				SW8015C	11/30/2021 13:24/amn	GCFID-HP5-B_211129B : 25	161631
Surr: o-Terphenyl (SGT)	99.0	%REC	1		56-125				SW8015C	12/7/2021 18:18/amn	GCFID-HP5-B_211207A : 7	161809
Surr: n-Triacontane	100.0	%REC	1		50-150				SW8015C	12/3/2021 12:03/amn	GCFID-HP5-B_211202B : 9	161809
Surr: n-Triacontane	95.0	%REC	1		50-150				SW8015C	11/24/2021 15:18/amn	GCFID-HP5-B_211124A : 32	161631
Surr: n-Triacontane (SGT)	77.0	%REC	1		50-150				SW8015C	11/30/2021 13:24/amn	GCFID-HP5-B_211129B : 25	161631
Surr: n-Triacontane (SGT)	89.0	%REC	1		50-150				SW8015C	12/7/2021 18:18/amn	GCFID-HP5-B_211207A : 7	161809

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211124A: 6 **SampType:** Method Blank **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/24/2021 13:10 **Prep Date:** 11/23/2021 12:58
Lab ID: MB-161631 **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	ND	0.15									
Oil Range Hydrocarbons (C24 to C40)	ND	0.15									
Total Extractable Hydrocarbons	ND	0.15									
Surr: o-Terphenyl	0.20	0.0020	0.20		101.0	56	125				
Surr: n-Triacontane	0.099	0.0020	0.10		99.0	50	150				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211129B: 6 **SampType:** Method Blank **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/29/2021 16:40 **Prep Date:** 11/23/2021 12:58
Lab ID: MB-161631 **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (SGT-C10 to C24)	ND	0.15									
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	0.15									
Total Extractable Hydrocarbons (SGT)	ND	0.15									
Surr: o-Terphenyl (SGT)	0.19	0.0020	0.20		96.0	56	125				
Surr: n-Triacontane (SGT)	0.090	0.0020	0.10		90.0	50	150				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211124A: 4 **SampType:** Laboratory Control Sample **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/24/2021 11:43 **Prep Date:** 11/23/2021 12:58
Lab ID: LCS-161631 **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	13	0.30	15		86.0	36	132				
Total Extractable Hydrocarbons	14	0.30	15		92.0	60	132				
Surr: o-Terphenyl	0.20	0.0020	0.20		102.0	56	125				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211124A: 5 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/24/2021 12:26 **Prep Date:** 11/23/2021 12:59
Lab ID: LCSD-161631 **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	13	0.30	15		88.0	36	132	13	2.2	20.0	
Total Extractable Hydrocarbons	14	0.30	15		94.0	60	132	14	2.3	20.0	
Surr: o-Terphenyl	0.20	0.0020	0.20		101.0	56	125	0.0			

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211124A: 28 **SampType:** Laboratory Control Sample **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/28/2021 01:41 **Prep Date:** 11/23/2021 12:59
Lab ID: LCS-161631-RRO **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	5.0	0.30	5.0		100.0	41	113				
Surr: n-Triacontane	0.098	0.0020	0.10		97.0	50	150				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211124A: 29 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/28/2021 03:07 **Prep Date:** 11/23/2021 12:59
Lab ID: LCSD-161631-RRO **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.8	0.30	5.0		95.0	41	113	5.0	4.8	20.0	
Surr: n-Triacontane	0.093	0.0020	0.10		93.0	50	150	0.0			

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211129B: 4 **SampType:** Laboratory Control Sample **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/29/2021 15:15 **Prep Date:** 11/23/2021 12:58
Lab ID: LCS-161631 **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (SGT-C10 to C24)	13	0.30	15		87.0	36	132				
Total Extractable Hydrocarbons (SGT)	14	0.30	15		92.0	60	132				
Surr: o-Terphenyl (SGT)	0.21	0.0020	0.20		104.0	56	125				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211129B: 5 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/29/2021 15:58 **Prep Date:** 11/23/2021 12:59
Lab ID: LCSD-161631 **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (SGT-C10 to C24)	13	0.30	15		87.0	36	132	13	0.5	20.0	
Total Extractable Hydrocarbons (SGT)	14	0.30	15		93.0	60	132	14	0.8	20.0	
Surr: o-Terphenyl (SGT)	0.20	0.0020	0.20		102.0	56	125	0.0			

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211129B: 23 **SampType:** Laboratory Control Sample **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/30/2021 09:50 **Prep Date:** 11/23/2021 12:59
Lab ID: LCS-161631-RRO **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH (SGT-Oil Range)	4.7	0.30	5.0		93.0	41	113				
Surr: n-Triacontane (SGT)	0.084	0.0020	0.10		84.0	50	150				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211129B: 24 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/30/2021 11:16 **Prep Date:** 11/23/2021 12:59
Lab ID: LCSD-161631-RRO **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH (SGT-Oil Range)	4.4	0.30	5.0		89.0	41	113	4.7	5.0	20.0	
Surr: n-Triacontane (SGT)	0.077	0.0020	0.10		77.0	50	150	0.0			

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211124A: 20 **SampType:** Sample Matrix Spike **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/27/2021 13:36 **Prep Date:** 11/23/2021 12:59
Lab ID: B21111928-003AMS **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	14	0.30	15	0.12	91.0	36	132				
Total Extractable Hydrocarbons	15	0.30	15	0.55	99.0	60	132				
Surr: o-Terphenyl	0.16	0.0020	0.20	0.0	83.0	56	125				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211124A: 23 **SampType:** Sample Matrix Spike **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/27/2021 19:16 **Prep Date:** 11/23/2021 12:59
Lab ID: B21111928-004AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	5.2	0.30	4.9	0.31	101.0	41	113				
Surr: n-Triacontane	0.091	0.0020	0.097	0.0	93.0	50	150				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211129B: 18 **SampType:** Sample Matrix Spike **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/30/2021 04:50 **Prep Date:** 11/23/2021 12:59
Lab ID: B21111928-003AMS **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (SGT-C10 to C24)	12	0.30	15	0.0	81.0	36	132				
Total Extractable Hydrocarbons (SGT)	13	0.30	15	0.063	87.0	60	132				
Surr: o-Terphenyl (SGT)	0.15	0.0020	0.20	0.0	77.0	56	125				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211129B: 19 **SampType:** Sample Matrix Spike **Batch ID:** 161631
Method: SW8015C **Analysis Date:** 11/30/2021 05:33 **Prep Date:** 11/23/2021 12:59
Lab ID: B21111928-004AMS-RRO **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH (SGT-Oil Range)	4.4	0.30	4.9	0.0	91.0	41	113				
Surr: n-Triacontane (SGT)	0.079	0.0020	0.097	0.0	82.0	50	150				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211202B: 6 **SampType:** Method Blank **Batch ID:** 161809
Method: SW8015C **Analysis Date:** 12/03/2021 09:11 **Prep Date:** 12/01/2021 16:29
Lab ID: MB-161809 **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	ND	0.15									
Oil Range Hydrocarbons (C24 to C40)	ND	0.15									
Total Extractable Hydrocarbons	ND	0.15									
Surr: o-Terphenyl	0.20	0.0020	0.20		102.0	56	125				
Surr: n-Triacontane	0.095	0.0020	0.10		95.0	50	150				

Associated Samples: **B21111928-006B, B21111928-007B, B21111928-008B**

Run ID: Run Order: GCFID-HP5-B_211207A: 6 **SampType:** Method Blank **Batch ID:** 161809
Method: SW8015C **Analysis Date:** 12/07/2021 17:34 **Prep Date:** 12/01/2021 16:29
Lab ID: MB-161809 **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (SGT-C10 to C24)	ND	0.15									
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	0.15									
Total Extractable Hydrocarbons (SGT)	ND	0.15									
Surr: o-Terphenyl (SGT)	0.19	0.0020	0.20		96.0	56	125				
Surr: n-Triacontane (SGT)	0.087	0.0020	0.10		87.0	50	150				

Associated Samples: **B21111928-006B, B21111928-007B, B21111928-008B**



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211202B: 4 **SampType:** Laboratory Control Sample **Batch ID:** 161809
Method: SW8015C **Analysis Date:** 12/03/2021 07:46 **Prep Date:** 12/01/2021 16:29
Lab ID: LCS-161809 **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	13	0.30	15		87.0	36	132				
Total Extractable Hydrocarbons	14	0.30	15		93.0	60	132				
Surr: o-Terphenyl	0.20	0.0020	0.20		99.0	56	125				

Associated Samples: **B21111928-006B, B21111928-007B, B21111928-008B**

Run ID: Run Order: GCFID-HP5-B_211202B: 5 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 161809
Method: SW8015C **Analysis Date:** 12/03/2021 08:29 **Prep Date:** 12/01/2021 16:29
Lab ID: LCSD-161809 **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	13	0.30	15		88.0	36	132	13	1.9	20.0	
Total Extractable Hydrocarbons	14	0.30	15		94.0	60	132	14	1.8	20.0	
Surr: o-Terphenyl	0.21	0.0020	0.20		103.0	56	125	0.0			

Associated Samples: **B21111928-006B, B21111928-007B, B21111928-008B**

Run ID: Run Order: GCFID-HP5-B_211202B: 10 **SampType:** Laboratory Control Sample **Batch ID:** 161809
Method: SW8015C **Analysis Date:** 12/03/2021 13:28 **Prep Date:** 12/01/2021 16:29
Lab ID: LCS-161809-RRO **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.5	0.30	5.0		90.0	41	113				
Surr: n-Triacontane	0.092	0.0020	0.10		92.0	50	150				

Associated Samples: **B21111928-006B, B21111928-007B, B21111928-008B**



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211202B: 11 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 161809
Method: SW8015C **Analysis Date:** 12/03/2021 14:53 **Prep Date:** 12/01/2021 16:29
Lab ID: LCSD-161809-RRO **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.6	0.30	5.0		91.0	41	113	4.5	1.6	20.0	
Surr: n-Triacontane	0.089	0.0020	0.10		89.0	50	150	0.0			

Associated Samples: **B21111928-006B, B21111928-007B, B21111928-008B**

Run ID: Run Order: GCFID-HP5-B_211207A: 4 **SampType:** Laboratory Control Sample **Batch ID:** 161809
Method: SW8015C **Analysis Date:** 12/07/2021 16:08 **Prep Date:** 12/01/2021 16:29
Lab ID: LCS-161809 **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (SGT-C10 to C24)	13	0.30	15		84.0	36	132				
Total Extractable Hydrocarbons (SGT)	13	0.30	15		90.0	60	132				
Surr: o-Terphenyl (SGT)	0.20	0.0020	0.20		99.0	56	125				

Associated Samples: **B21111928-006B, B21111928-007B, B21111928-008B**

Run ID: Run Order: GCFID-HP5-B_211207A: 5 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 161809
Method: SW8015C **Analysis Date:** 12/07/2021 16:51 **Prep Date:** 12/01/2021 16:29
Lab ID: LCSD-161809 **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (SGT-C10 to C24)	13	0.30	15		83.0	36	132	13	1.0	20.0	
Total Extractable Hydrocarbons (SGT)	13	0.30	15		89.0	60	132	13	1.0	20.0	
Surr: o-Terphenyl (SGT)	0.20	0.0020	0.20		100.0	56	125	0.0			

Associated Samples: **B21111928-006B, B21111928-007B, B21111928-008B**



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211207A: 8 **SampType:** Laboratory Control Sample **Batch ID:** 161809
Method: SW8015C **Analysis Date:** 12/07/2021 19:01 **Prep Date:** 12/01/2021 16:29
Lab ID: LCS-161809-RRO **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH (SGT-Oil Range)	4.4	0.30	5.0		87.0	41	113				
Surr: n-Triacontane (SGT)	0.086	0.0020	0.10		86.0	50	150				

Associated Samples: **B21111928-006B, B21111928-007B, B21111928-008B**

Run ID: Run Order: GCFID-HP5-B_211207A: 9 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 161809
Method: SW8015C **Analysis Date:** 12/07/2021 20:27 **Prep Date:** 12/01/2021 16:29
Lab ID: LCSD-161809-RRO **Units:** mg/L **Prep Method:** SW3520C

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH (SGT-Oil Range)	4.7	0.30	5.0		93.0	41	113	4.4	6.7	20.0	
Surr: n-Triacontane (SGT)	0.088	0.0020	0.10		88.0	50	150	0.0			

Associated Samples: **B21111928-006B, B21111928-007B, B21111928-008B**

Run ID: Run Order: GCFID-HP5-B_211124A: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370905
Method: SW8015C **Analysis Date:** 11/24/2021 09:35 **Prep Date:**
Lab ID: CCV_1124HP504r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.7	0.30	5.0		94.0	80	120				
Surr: n-Triacontane	0.20	0.0020	0.20		99.0	80	120				

Associated Samples: **B21111928-001A, B21111928-002A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A**



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211124A: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370905
Method: SW8015C **Analysis Date:** 11/24/2021 10:18 **Prep Date:**
Lab ID: CCV_1124HP505r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	15	0.30	15		97.0	80	120				
Total Extractable Hydrocarbons	15	0.30	15		101.0	80	120				
Surr: o-Terphenyl	0.23	0.0020	0.20		115.0	80	120				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211124A: 14 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370905
Method: SW8015C **Analysis Date:** 11/24/2021 19:35 **Prep Date:**
Lab ID: CCV_1124HP518r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.8	0.30	5.0		96.0	80	120				
Surr: n-Triacontane	0.20	0.0020	0.20		102.0	80	120				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211124A: 15 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370905
Method: SW8015C **Analysis Date:** 11/24/2021 20:17 **Prep Date:**
Lab ID: CCV_1124HP519r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	15	0.30	15		97.0	80	120				
Total Extractable Hydrocarbons	15	0.30	15		100.0	80	120				
Surr: o-Terphenyl	0.20	0.0020	0.20		99.0	80	120				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211124A: 17 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370905
Method: SW8015C **Analysis Date:** 11/27/2021 10:03 **Prep Date:**
Lab ID: CCV_1124HP528r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.8	0.30	5.0		96.0	80	120				
Surr: n-Triacontane	0.20	0.0020	0.20		100.0	80	120				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211124A: 18 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370905
Method: SW8015C **Analysis Date:** 11/27/2021 10:45 **Prep Date:**
Lab ID: CCV_1124HP529r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	14	0.30	15		96.0	80	120				
Total Extractable Hydrocarbons	15	0.30	15		99.0	80	120				
Surr: o-Terphenyl	0.20	0.0020	0.20		98.0	80	120				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211124A: 25 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370905
Method: SW8015C **Analysis Date:** 11/27/2021 21:24 **Prep Date:**
Lab ID: CCV_1124HP544r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	5.0	0.30	5.0		100.0	80	120				
Surr: n-Triacontane	0.21	0.0020	0.20		104.0	80	120				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211124A: 26 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370905
Method: SW8015C **Analysis Date:** 11/27/2021 22:07 **Prep Date:**
Lab ID: CCV_1124HP545r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	14	0.30	15		96.0	80	120				
Total Extractable Hydrocarbons	15	0.30	15		99.0	80	120				
Surr: o-Terphenyl	0.20	0.0020	0.20		98.0	80	120				

Associated Samples: **B21111928-001A, B21111928-002A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A**

Run ID: Run Order: GCFID-HP5-B_211129A: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370937
Method: SW8015C **Analysis Date:** 11/29/2021 11:43 **Prep Date:**
Lab ID: CCV_1129HP504r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.8	0.30	5.0		96.0	80	120				
Surr: n-Triacontane	0.20	0.0020	0.20		101.0	80	120				

Associated Samples: **B21111928-003A**

Run ID: Run Order: GCFID-HP5-B_211129A: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370937
Method: SW8015C **Analysis Date:** 11/29/2021 12:26 **Prep Date:**
Lab ID: CCV_1129HP505r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	15	0.30	15		97.0	80	120				
Total Extractable Hydrocarbons	15	0.30	15		101.0	80	120				
Surr: o-Terphenyl	0.20	0.0020	0.20		99.0	80	120				

Associated Samples: **B21111928-003A**



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211129A: 14 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370937
Method: SW8015C **Analysis Date:** 11/29/2021 20:16 **Prep Date:**
Lab ID: CCV_1129HP516r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.8	0.30	5.0		97.0	80	120				
Surr: n-Triacontane	0.20	0.0020	0.20		100.0	80	120				

Associated Samples: **B21111928-003A**

Run ID: Run Order: GCFID-HP5-B_211129A: 15 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370937
Method: SW8015C **Analysis Date:** 11/29/2021 20:58 **Prep Date:**
Lab ID: CCV_1129HP517r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	15	0.30	15		101.0	80	120				
Total Extractable Hydrocarbons	16	0.30	15		104.0	80	120				
Surr: o-Terphenyl	0.20	0.0020	0.20		102.0	80	120				

Associated Samples: **B21111928-003A**

Run ID: Run Order: GCFID-HP5-B_211129B: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370979
Method: SW8015C **Analysis Date:** 11/29/2021 11:43 **Prep Date:**
Lab ID: CCV_1129HP504r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.8	0.30	5.0		96.0	80	120				
Surr: n-Triacontane	0.20	0.0020	0.20		101.0	80	120				

Associated Samples: **B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A**



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211129B: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370979
Method: SW8015C **Analysis Date:** 11/29/2021 12:26 **Prep Date:**
Lab ID: CCV_1129HP505r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	15	0.30	15		97.0	80	120				
Total Extractable Hydrocarbons	15	0.30	15		101.0	80	120				
Surr: o-Terphenyl	0.20	0.0020	0.20		99.0	80	120				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211129B: 10 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370979
Method: SW8015C **Analysis Date:** 11/29/2021 20:16 **Prep Date:**
Lab ID: CCV_1129HP516r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.8	0.30	5.0		97.0	80	120				
Surr: n-Triacontane	0.20	0.0020	0.20		100.0	80	120				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211129B: 11 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370979
Method: SW8015C **Analysis Date:** 11/29/2021 20:58 **Prep Date:**
Lab ID: CCV_1129HP517r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	15	0.30	15		101.0	80	120				
Total Extractable Hydrocarbons	16	0.30	15		104.0	80	120				
Surr: o-Terphenyl	0.20	0.0020	0.20		102.0	80	120				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211129B: 21 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370979
Method: SW8015C **Analysis Date:** 11/30/2021 07:41 **Prep Date:**
Lab ID: CCV_1129HP532r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	5.0	0.30	5.0		100.0	80	120				
Surr: n-Triacontane	0.21	0.0020	0.20		106.0	80	120				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211129B: 22 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370979
Method: SW8015C **Analysis Date:** 11/30/2021 08:24 **Prep Date:**
Lab ID: CCV_1129HP533r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	15	0.30	15		101.0	80	120				
Total Extractable Hydrocarbons	16	0.30	15		105.0	80	120				
Surr: o-Terphenyl	0.21	0.0020	0.20		104.0	80	120				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211129B: 27 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370979
Method: SW8015C **Analysis Date:** 11/30/2021 19:07 **Prep Date:**
Lab ID: CCV_1129HP548r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.9	0.30	5.0		99.0	80	120				
Surr: n-Triacontane	0.21	0.0020	0.20		105.0	80	120				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211129B: 28 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R370979
Method: SW8015C **Analysis Date:** 11/30/2021 19:50 **Prep Date:**
Lab ID: CCV_1129HP549r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Total Extractable Hydrocarbons	16	0.30	15		104.0	80	120				
Surr: o-Terphenyl	0.21	0.0020	0.20		103.0	80	120				

Associated Samples: B21111928-001A, B21111928-002A, B21111928-003A, B21111928-004A, B21111928-005A, B21111928-006A, B21111928-007A, B21111928-008A

Run ID: Run Order: GCFID-HP5-B_211202B: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371382
Method: SW8015C **Analysis Date:** 12/03/2021 05:37 **Prep Date:**
Lab ID: CCV_1202HP532r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.8	0.30	5.0		96.0	80	120				
Surr: n-Triacontane	0.20	0.0020	0.20		102.0	80	120				

Associated Samples: B21111928-006B, B21111928-007B, B21111928-008B

Run ID: Run Order: GCFID-HP5-B_211202B: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371382
Method: SW8015C **Analysis Date:** 12/03/2021 06:20 **Prep Date:**
Lab ID: CCV_1202HP533r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	16	0.30	15		104.0	80	120				
Total Extractable Hydrocarbons	16	0.30	15		108.0	80	120				
Surr: o-Terphenyl	0.21	0.0020	0.20		106.0	80	120				

Associated Samples: B21111928-006B, B21111928-007B, B21111928-008B



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211202B: 13 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371382
Method: SW8015C **Analysis Date:** 12/03/2021 17:02 **Prep Date:**
Lab ID: CCV_1202HP548r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.6	0.30	5.0		92.0	80	120				
Surr: n-Triacontane	0.20	0.0020	0.20		100.0	80	120				

Associated Samples: **B21111928-006B, B21111928-007B, B21111928-008B**

Run ID: Run Order: GCFID-HP5-B_211202B: 14 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371382
Method: SW8015C **Analysis Date:** 12/03/2021 17:45 **Prep Date:**
Lab ID: CCV_1202HP549r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Diesel Range Organics (C10 to C24)	15	0.30	15		97.0	80	120				
Total Extractable Hydrocarbons	15	0.30	15		101.0	80	120				
Surr: o-Terphenyl	0.20	0.0020	0.20		100.0	80	120				

Associated Samples: **B21111928-006B, B21111928-007B, B21111928-008B**

Run ID: Run Order: GCFID-HP5-B_211207A: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371405
Method: SW8015C **Analysis Date:** 12/07/2021 13:59 **Prep Date:**
Lab ID: CCV_1207HP505r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.7	0.30	5.0		94.0	80	120				
Surr: n-Triacontane	0.20	0.0020	0.20		102.0	80	120				

Associated Samples: **B21111928-008B**



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Run ID: Run Order: GCFID-HP5-B_211207A: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371405
Method: SW8015C **Analysis Date:** 12/07/2021 14:42 **Prep Date:**
Lab ID: CCV_1207HP506r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Total Extractable Hydrocarbons	16	0.30	15		104.0	80	120				
Surr: o-Terphenyl	0.21	0.0020	0.20		103.0	80	120				

Associated Samples: **B21111928-008B**

Run ID: Run Order: GCFID-HP5-B_211207A: 11 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371405
Method: SW8015C **Analysis Date:** 12/07/2021 22:37 **Prep Date:**
Lab ID: CCV_1207HP517r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	4.9	0.30	5.0		97.0	80	120				
Surr: n-Triacontane	0.21	0.0020	0.20		105.0	80	120				

Associated Samples: **B21111928-008B**

Run ID: Run Order: GCFID-HP5-B_211207A: 12 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371405
Method: SW8015C **Analysis Date:** 12/07/2021 23:20 **Prep Date:**
Lab ID: CCV_1207HP518r **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
Total Extractable Hydrocarbons	16	0.30	15		104.0	80	120				
Surr: o-Terphenyl	0.21	0.0020	0.20		103.0	80	120				

Associated Samples: **B21111928-008B**



Analytical QC Exceptions Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21111928
Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

All quality control measures met criteria; there were no Analytical QC Exceptions.



Preparation and Analysis Dates Report

Work Order: B21111928

Client: AECOM - Honolulu

Project Name: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Lab ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Method	Prep Date	Prep Batch	Analysis Method	Analysis Date
001A	ERH1919 (RHMW01R)	11/17/2021 16:15	Ground Water	Diesel Range Organics		SW3520C	11/23/2021 13:00	161631	SW8015C	11/27/2021 15:43
						SW3520C	11/23/2021 13:00	161631	SW8015C	11/30/2021 02:41
002A	ERH1922 (RHMW02)	11/17/2021 17:45	Ground Water	Diesel Range Organics		SW3520C	11/23/2021 13:00	161631	SW8015C	11/27/2021 17:51
						SW3520C	11/23/2021 13:00	161631	SW8015C	11/30/2021 03:24
003A	ERH1925 (RHMW03)	11/17/2021 19:25	Ground Water	Diesel Range Organics		SW3520C	11/23/2021 12:59	161631	SW8015C	11/29/2021 13:50
						SW3520C	11/23/2021 12:59	161631	SW8015C	11/29/2021 23:50
004A	ERH1928 (RHMW05)	11/17/2021 14:50	Ground Water	Diesel Range Organics		SW3520C	11/23/2021 12:59	161631	SW8015C	11/27/2021 12:11
						SW3520C	11/23/2021 12:59	161631	SW8015C	11/30/2021 01:16
005A	ERH1931 (RHMW2254-01)	11/17/2021 14:05	Ground Water	Diesel Range Organics		SW3520C	11/23/2021 13:00	161631	SW8015C	11/24/2021 16:01
						SW3520C	11/23/2021 13:00	161631	SW8015C	11/29/2021 22:24
006A	ERH1934 (RHSF)	11/17/2021 13:10	Drinking Water	Diesel Range Organics		SW3520C	11/23/2021 13:00	161631	SW8015C	11/24/2021 13:53
						SW3520C	11/23/2021 13:00	161631	SW8015C	11/29/2021 23:07
006B	ERH1934 (RHSF)	11/17/2021 13:10	Drinking Water	Diesel Range Organics		SW3520C	12/01/2021 16:29	161809	SW8015C	12/03/2021 10:37
007A	ERH1936 (RHSF)	11/17/2021 13:10	Drinking Water	Diesel Range Organics		SW3520C	11/23/2021 13:00	161631	SW8015C	11/24/2021 14:36
						SW3520C	11/23/2021 13:00	161631	SW8015C	11/29/2021 18:07
007B	ERH1936 (RHSF)	11/17/2021 13:10	Drinking Water	Diesel Range Organics		SW3520C	12/01/2021 16:29	161809	SW8015C	12/03/2021 09:54
008A	ERH1938 (Post-chlorination)	11/17/2021 17:15	Drinking Water	Diesel Range Organics		SW3520C	11/23/2021 13:00	161631	SW8015C	11/24/2021 15:18
						SW3520C	11/23/2021 13:00	161631	SW8015C	11/30/2021 13:24
008B	ERH1938 (Post-chlorination)	11/17/2021 17:15	Drinking Water	Diesel Range Organics		SW3520C	12/01/2021 16:29	161809	SW8015C	12/03/2021 12:03
						SW3520C	12/01/2021 16:29	161809	SW8015C	12/07/2021 18:18



Chemical Abstracts Service (CAS) Registry Numbers

Prepared by Billings, MT Branch

Client: AECOM - Honolulu

Workorder: B21111928

Project: CV18F0126/60571032.02.20.01

Report Date: 12/15/2021

Analyses**CAS No**

PETROLEUM HYDROCARBONS-SEMI-VOLATILE

Diesel Range Organics (C10 to C24)

Diesel Range Organics (SGT-C10 to C24)

Oil Range Hydrocarbons (C24 to C40)

Oil Range Hydrocarbons (SGT-C24 to C40)

Total Extractable Hydrocarbons

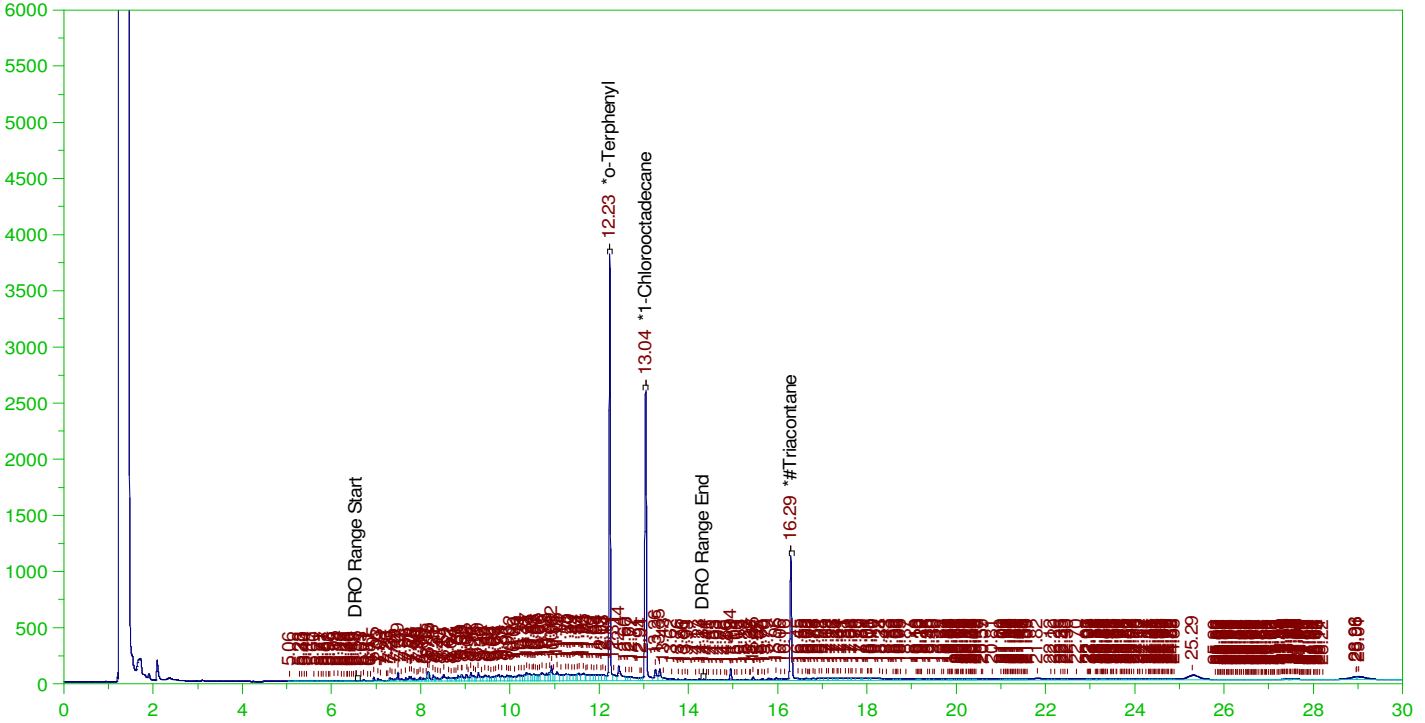
Total Extractable Hydrocarbons (SGT)

ERH1919 (RHMW01R)

Batch ID: 161631

G:\org\HP5\DAT\HP5112421_b\1124HP5.0036.RAW

B21111928-001A ; 1124HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-001A ; 1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112421_b\1124HP5.0036.RAW
Date & Time Acquired: 11/27/2021 3:43:09 PM
Method File: G:\Org\HP5\Methods\DR_8015-112436-C24T-ID-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.233	.2	.211	105.66	-
*1-Chlorooctadecane	13.037	.2	.163	81.74	-
*#Triacontane	16.292	.2	.105	52.62	-

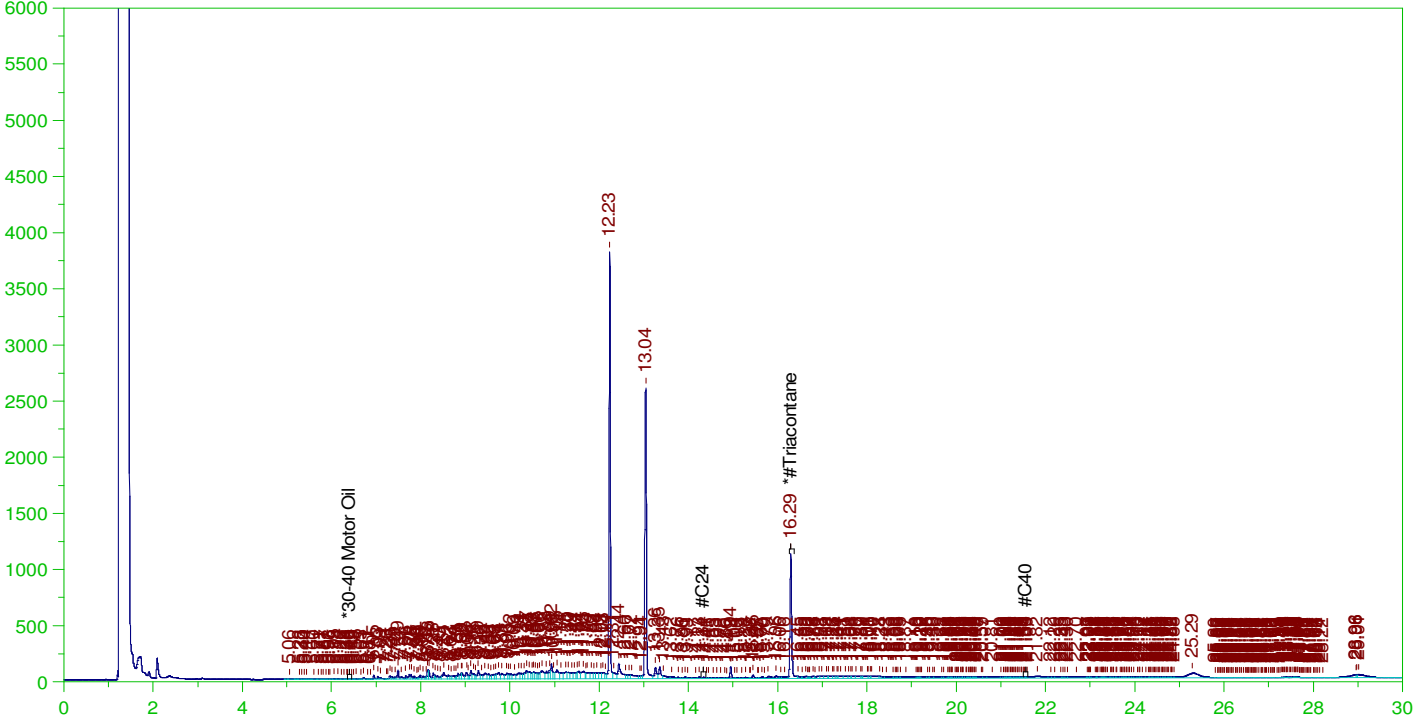
DRO Area: 1.661384E+07 DRO Amount: 0.529893
TEH Area: 2.544253E+07 TEH Amount: 0.8114815

ERH1919 (RHMW01R)

Batch ID: 161631

G:\org\HP5\DAT\HP5112421_b\1124HP5.0036.RAW

B21111928-001A ;1124HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-001A ;1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112421_b\1124HP5.0036.RAW
Date & Time Acquired: 11/27/2021 3:43:09 PM
Method File: G:\Org\HP5\Methods\DR_OROS-112436-AFa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.292	.5	.105	21.05

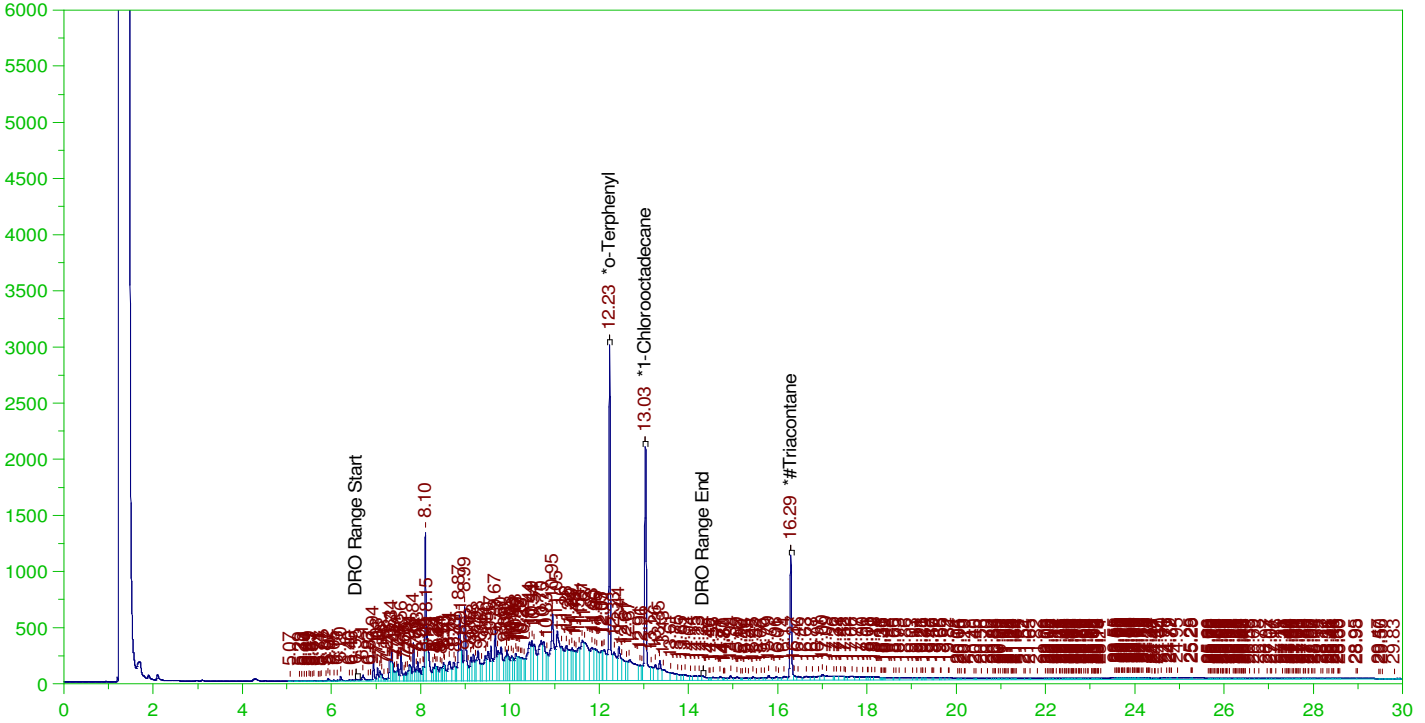
RRO Area:5721159 RRO AMOUNT: 0.2004441

ERH1922 (RHMW02)

G:\org\HP5\DAT\HP5112421_b\1124HP5.0039.RAW

Batch ID: 161631

B21111928-002A ; 1124HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-002A ; 1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112421_b\1124HP5.0039.RAW
Date & Time Acquired: 11/27/2021 5:51:05 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24T-ID-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102Id-24-Tri.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.229	.196	.195	99.21	-
*1-Chlorooctadecane	13.033	.196	.151	76.91	-
*#Triacontane	16.29	.196	.102	51.83	-

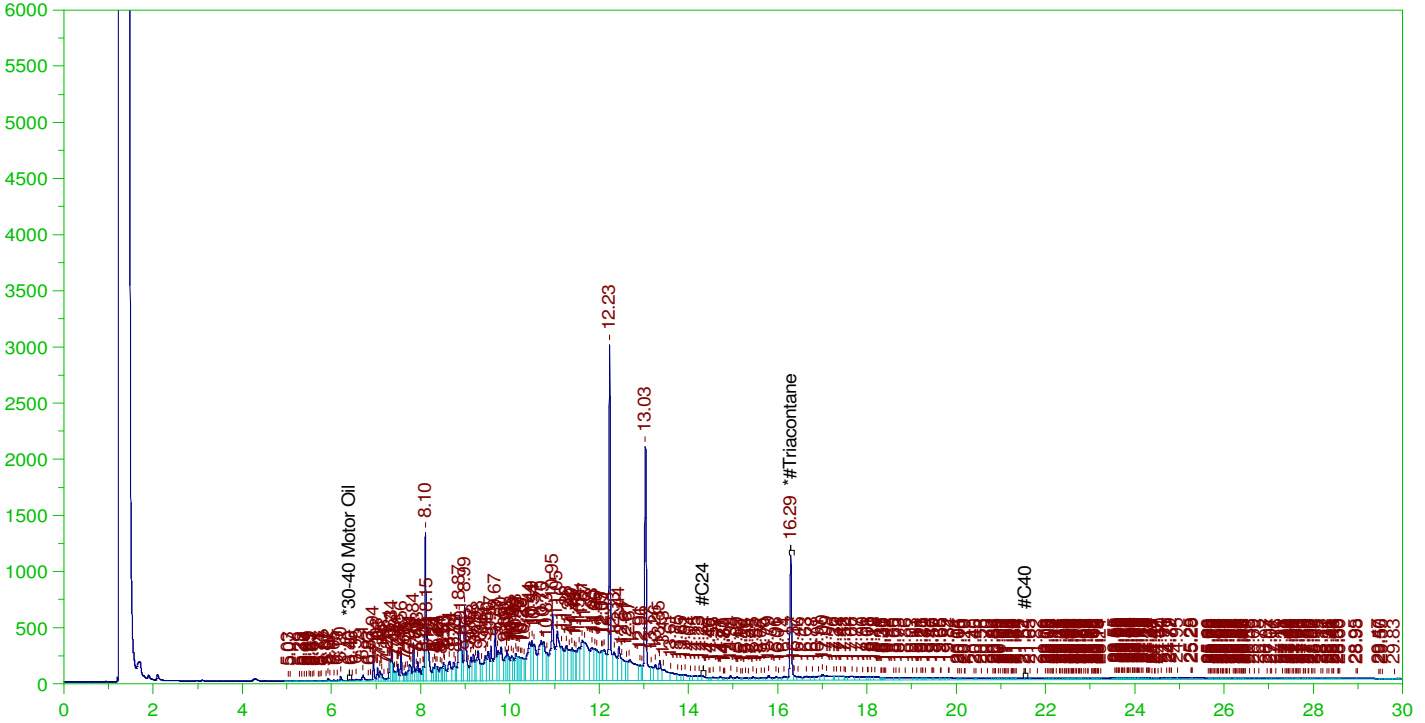
DRO Area: 8.128242E+07 DRO Amount: 2.541644
TEH Area: 9.537626E+07 TEH Amount: 2.982348

ERH1922 (RHMW02)

Batch ID: 161631

G:\org\HP5\DAT\HP5112421_b\1124HP5.0039.RAW

B21111928-002A ;1124HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-002A ;1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112421_b\1124HP5.0039.RAW
Date & Time Acquired: 11/27/2021 5:51:05 PM
Method File: G:\Org\HP5\Methods\D3_OROS-AFa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.29	.49	.102	20.73	-

RRO Area:9682354

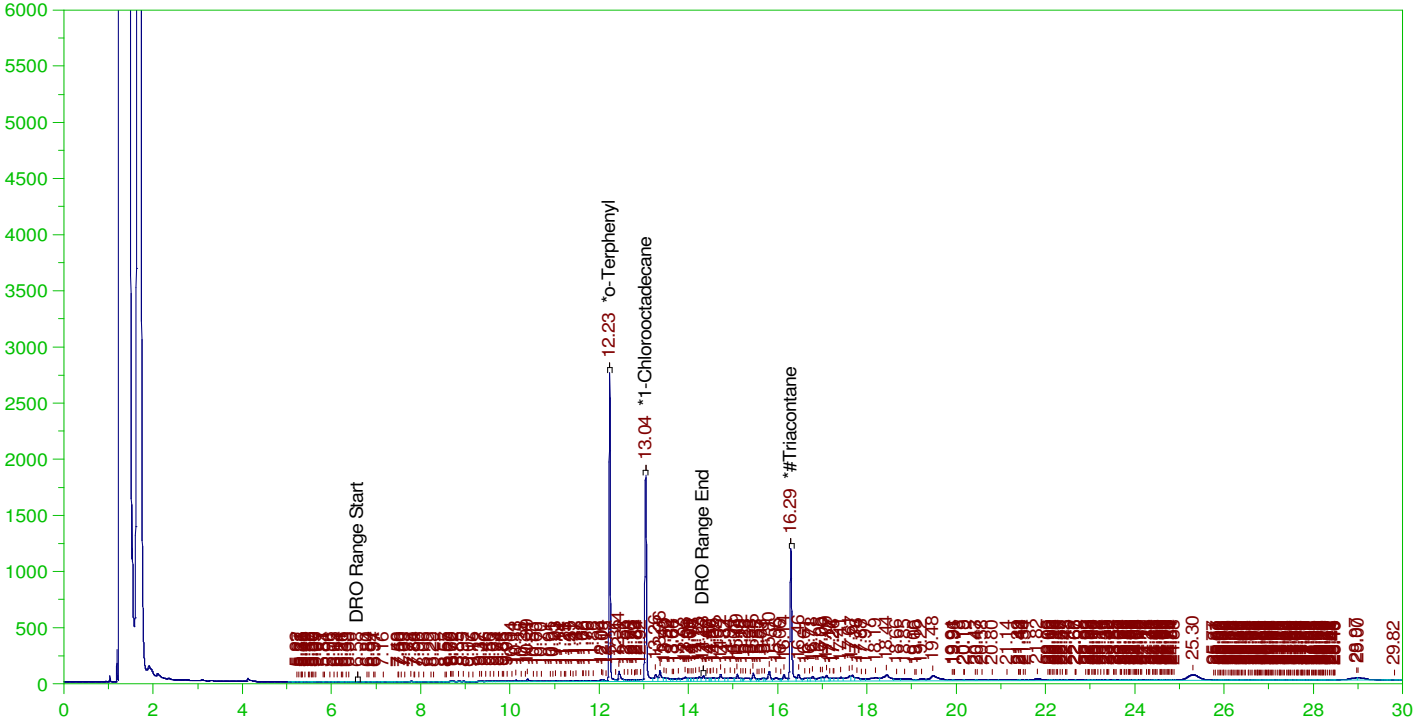
RRO AMOUNT: 0.3325754

ERH1925 (RHMW03)

Batch ID: 161631

G:\org\HP5\DAT\HP5112921_b\1129HP5.0007.RAW

B21111928-003A ; 1129HP5 , \$HC-8015-DRO-W, RR



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-003A ; 1129HP5 , \$HC-8015-DRO-W, RR
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0007.RAW
 Date & Time Acquired: 11/29/2021 1:50:52 PM
 Method File: G:\Org\HP5\Methods\DR_8015-112907-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.231	.202	.153	75.56	-
*1-Chlorooctadecane	13.038	.202	.124	61.28	-
*#Triacontane	16.293	.202	.114	56.22	-

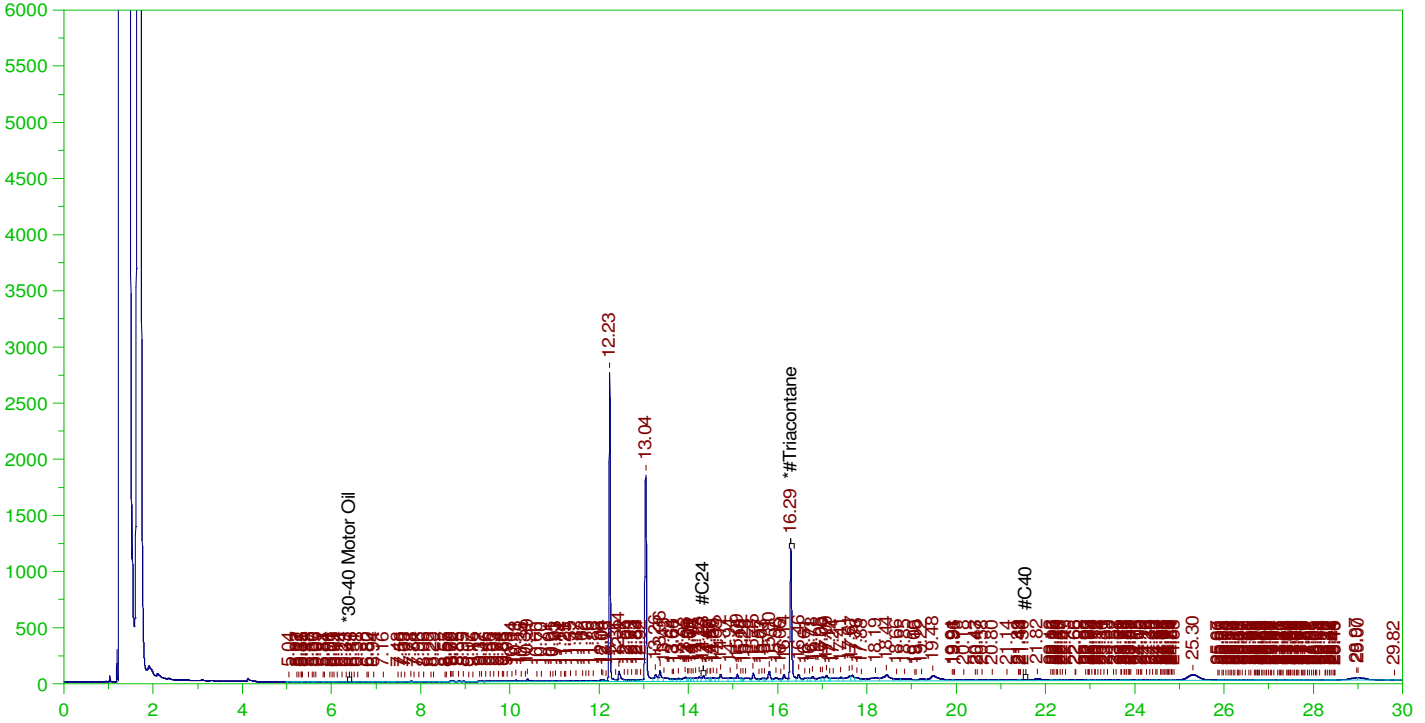
DRO Area: 3795541 DRO Amount: 0.1222804
 TEH Area: 1.707813E+07 TEH Amount: 0.5502037

ERH1925 (RHMW03)

Batch ID: 161631

G:\org\HP5\DAT\HP5112921_b\1129HP5.0007.RAW

B21111928-003A ; 1129HP5 , \$HC-8015-DRO-W, RR



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-003A ; 1129HP5 , \$HC-8015-DRO-W, RR
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0007.RAW
 Date & Time Acquired: 11/29/2021 1:50:52 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-112907-AFa-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.293	.505	.114	22.49

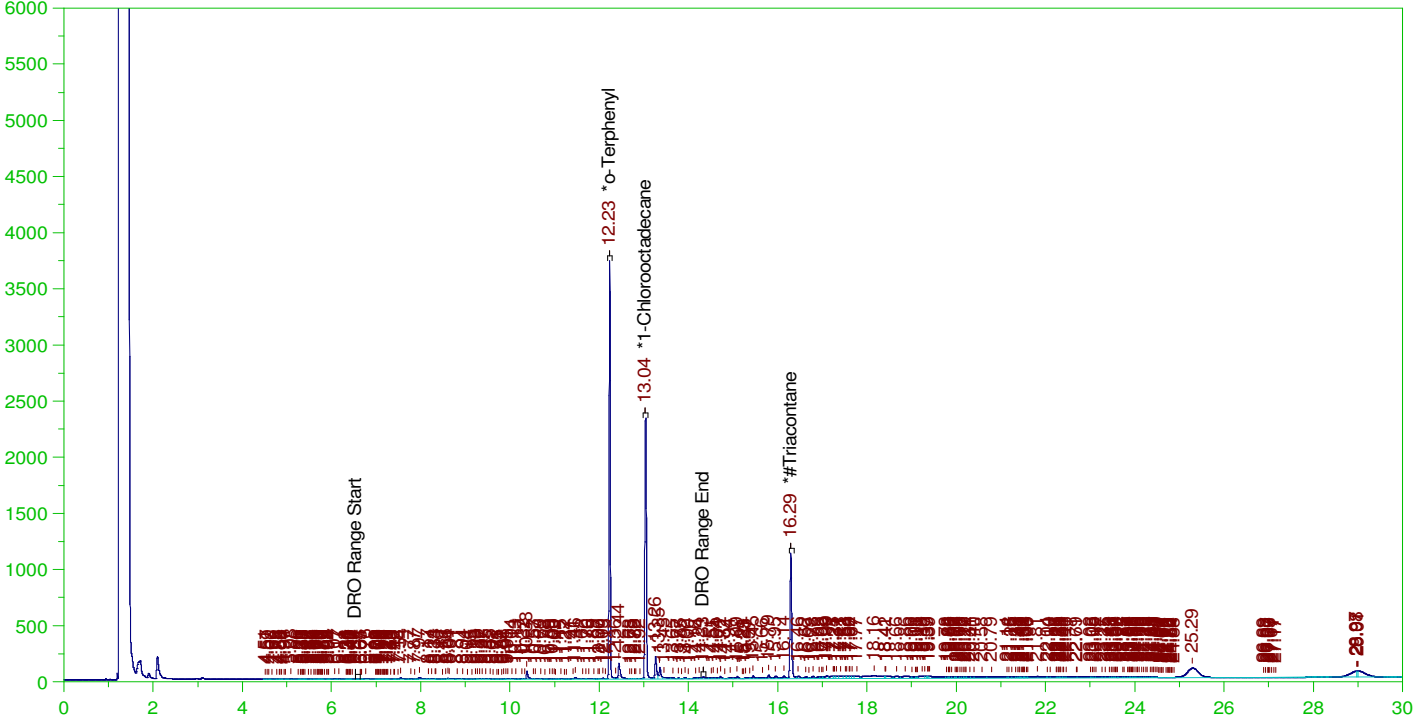
RRO Area: 1.00161E+07 RRO AMOUNT: 0.3544646

ERH1928 (RHMW05)

Batch ID: 161631

G:\org\HP5\DAT\HP5112421_b\1124HP5.0031.RAW

B21111928-004A ; 1124HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-004A ; 1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112421_b\1124HP5.0031.RAW
Date & Time Acquired: 11/27/2021 12:11:12 PM
Method File: G:\Org\HP5\Methods\DR_8015-112431-C24T-ID-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.231	.192	.19	98.93	-
*1-Chlorooctadecane	13.037	.192	.138	71.69	-
*#Triacontane	16.292	.192	.099	51.43	-

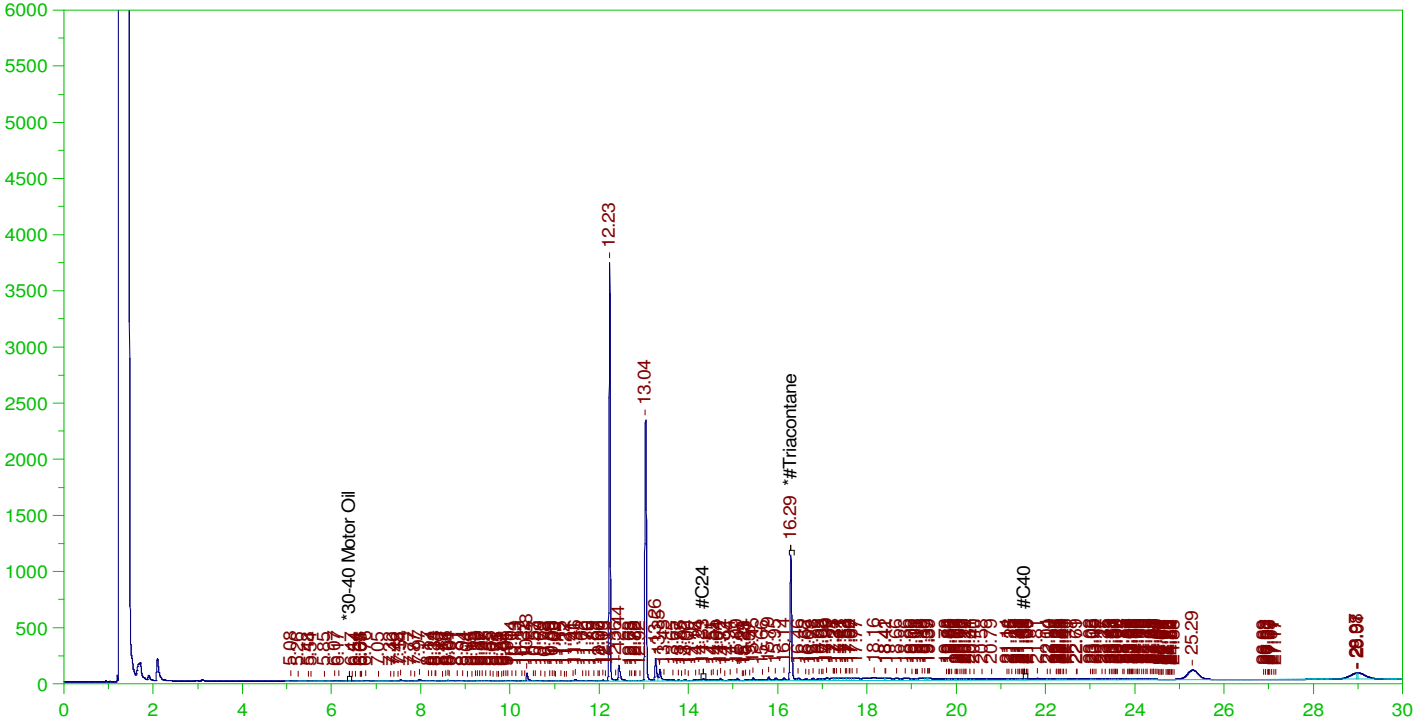
DRO Area: 2639578 DRO Amount: 8.095048E-02
TEH Area: 1.145509E+07 TEH Amount: 0.3513041

ERH1928 (RHMW05)

G:\org\HP5\DAT\HP5112421_b\1124HP5.0031.RAW

Batch ID: 161631

B21111928-004A ;1124HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-004A ;1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112421_b\1124HP5.0031.RAW
Date & Time Acquired: 11/27/2021 12:11:12 PM
Method File: G:\Org\HP5\Methods\DR_OROS-112431-AFa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.292	.481	.099	20.57	-

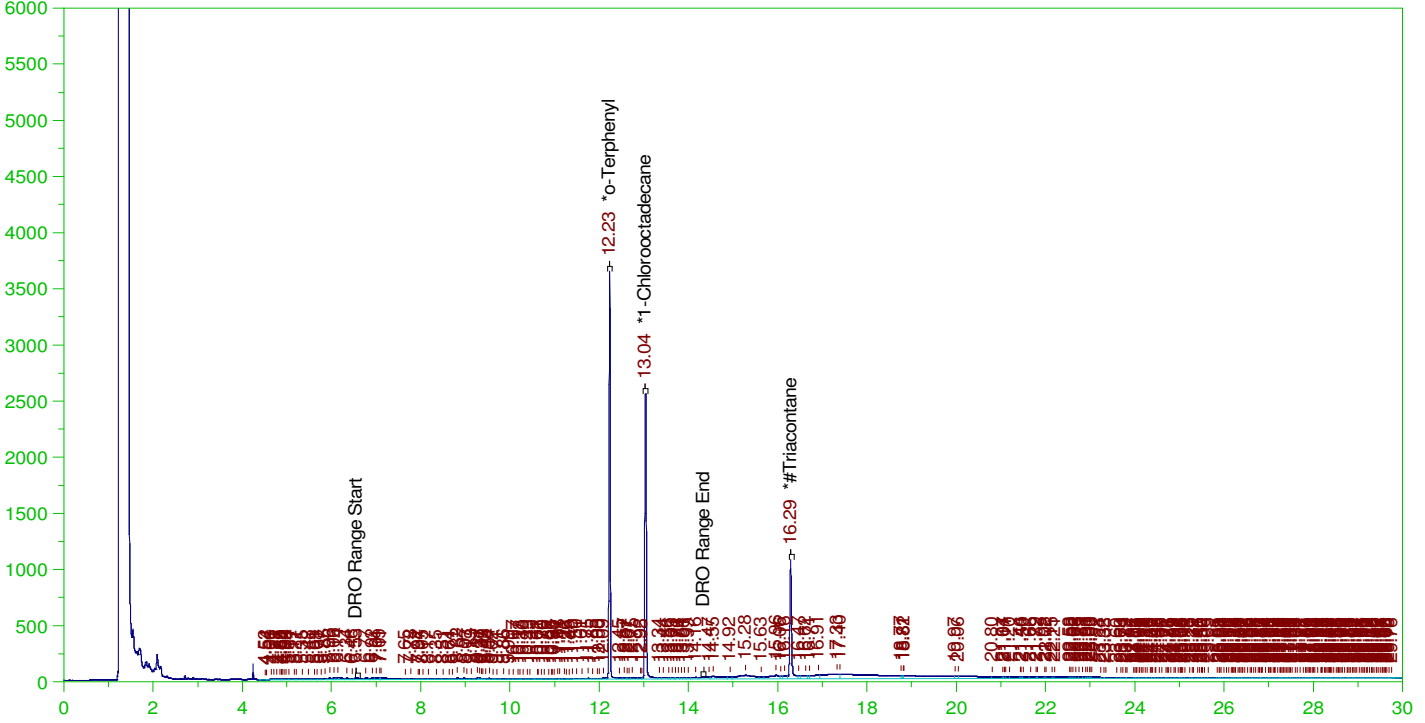
RRO Area:4974547 RRO AMOUNT: 0.1675829

ERH1931 (RHMW2254-01)

Batch ID: 161631

G:\org\HP5\DAT\HP5112421_b\1124HP5.0013.RAW

B21111928-005A ; 1124HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-005A ; 1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112421_b\1124HP5.0013.RAW
Date & Time Acquired: 11/24/2021 4:01:08 PM
Method File: G:\Org\HP5\Methods\D3_8015-112413-C24T-ID-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102Id-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.231	.192	.189	98.52	-
*1-Chlorooctadecane	13.036	.192	.153	79.51	-
*#Triacontane	16.288	.192	.103	53.56	-

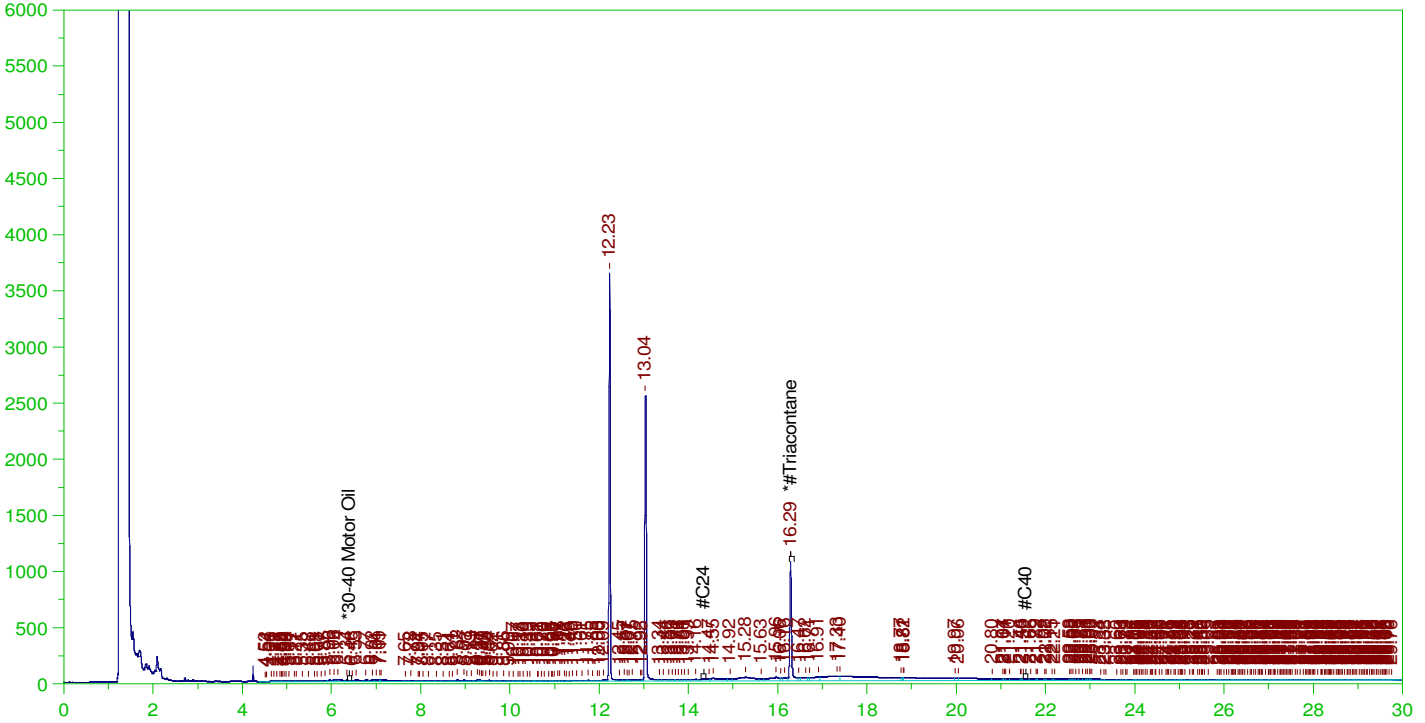
DRO Area: 2851446 DRO Amount: 8.744805E-02
TEH Area: 1.765288E+07 TEH Amount: 0.541378

ERH1931 (RHMW2254-01)

Batch ID: 161631

G:\org\HP5\DAT\HP5112421_b\1124HP5.0013.RAW

B21111928-005A ;1124HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-005A ;1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112421_b\1124HP5.0013.RAW
Date & Time Acquired: 11/24/2021 4:01:08 PM
Method File: G:\Org\HP5\Methods\D3_OROS-112413-AFa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.288	.481	.103	21.42

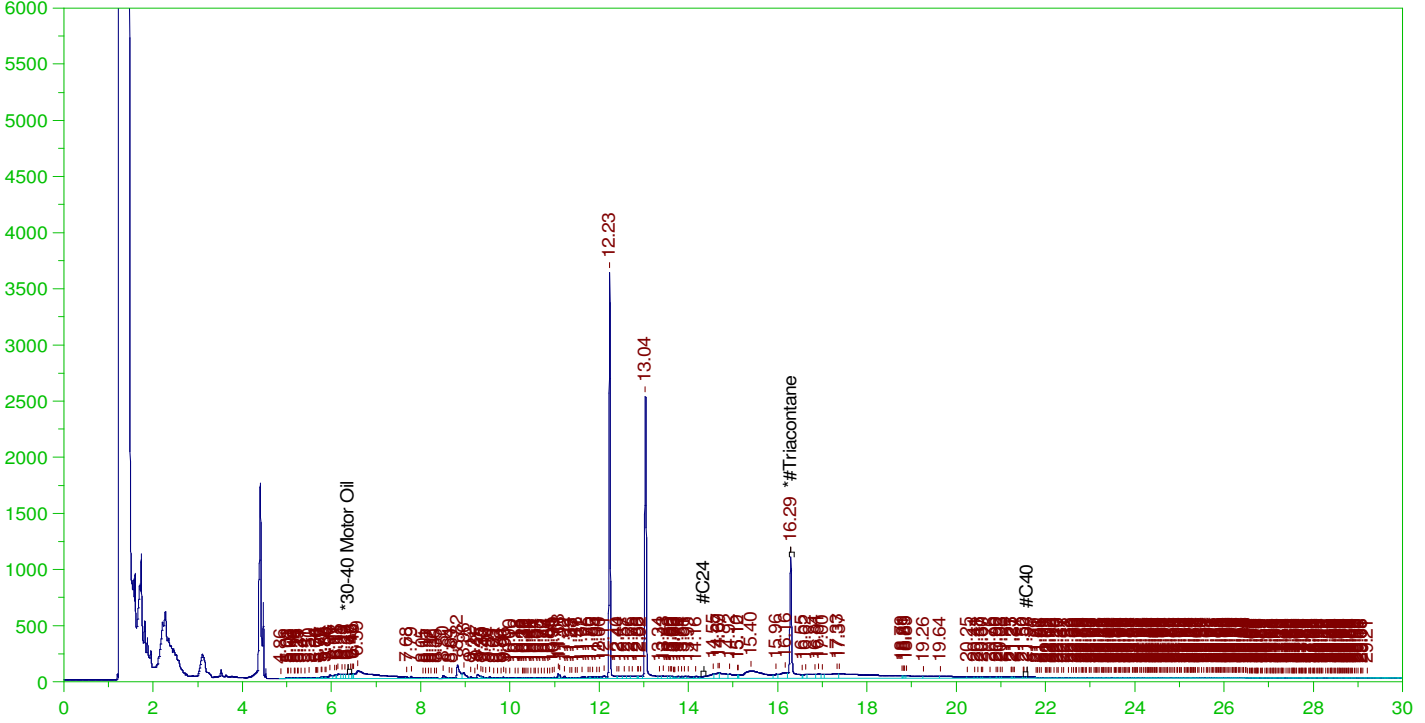
RRO Area:1.09154E+07 RRO AMOUNT: 0.3677188

ERH1934 (RHSF)

G:\org\HP5\DAT\HP5112421_b\1124HP5.0010.RAW

Batch ID: 161631

B21111928-006A ;1124HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-006A ;1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112421_b\1124HP5.0010.RAW
Date & Time Acquired: 11/24/2021 1:53:32 PM
Method File: G:\Org\HP5\Methods\D3_OROS-112410-AFa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.289	.481	.112	23.39

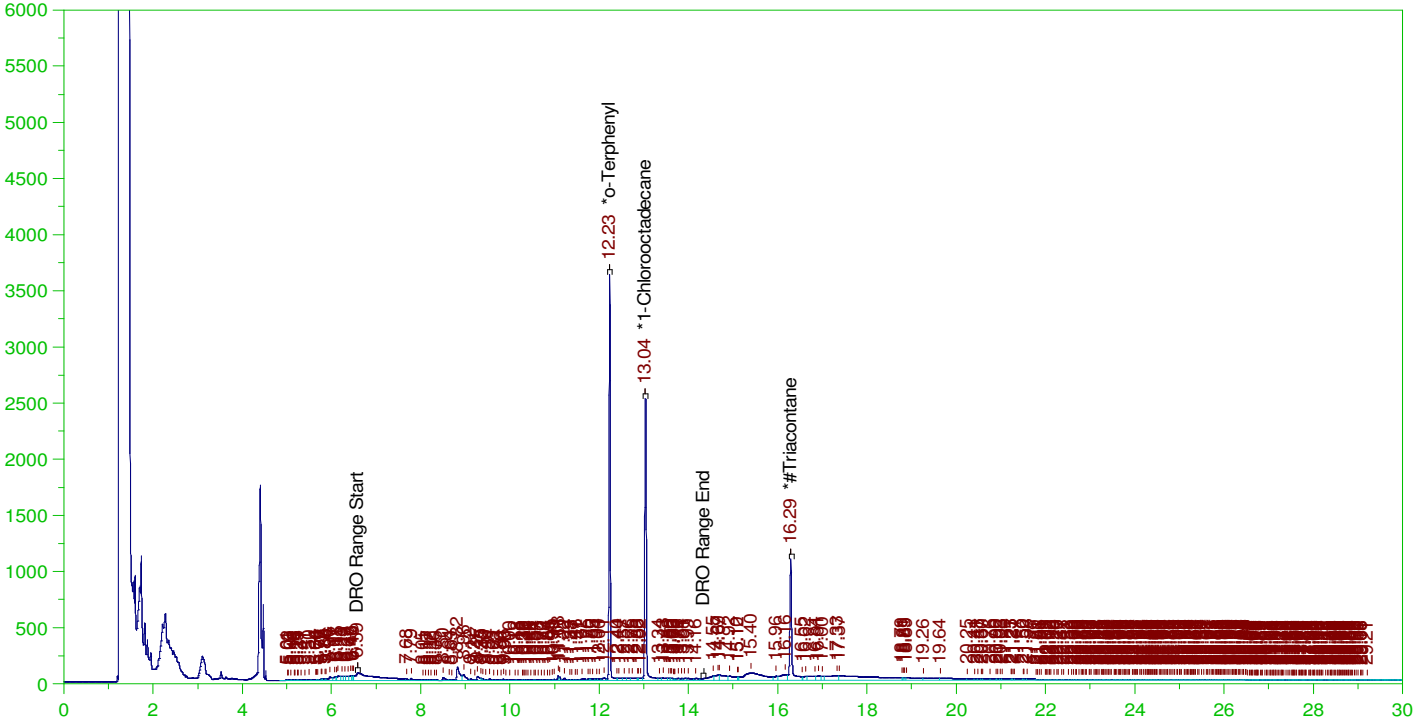
RRO Area:1.154595E+07 RRO AMOUNT: 0.3889607

ERH1934 (RHSF)

Batch ID: 161631

G:\org\HP5\DAT\HP5112421_b\1124HP5.0010.RAW

B21111928-006A ; 1124HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-006A ; 1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112421_b\1124HP5.0010.RAW
Date & Time Acquired: 11/24/2021 1:53:32 PM
Method File: G:\Org\HP5\Methods\DR_8015-112410-C24T-ID-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.231	.192	.191	99.49	-
*1-Chlorooctadecane	13.035	.192	.156	81.3	-
*#Triacontane	16.289	.192	.112	58.47	-

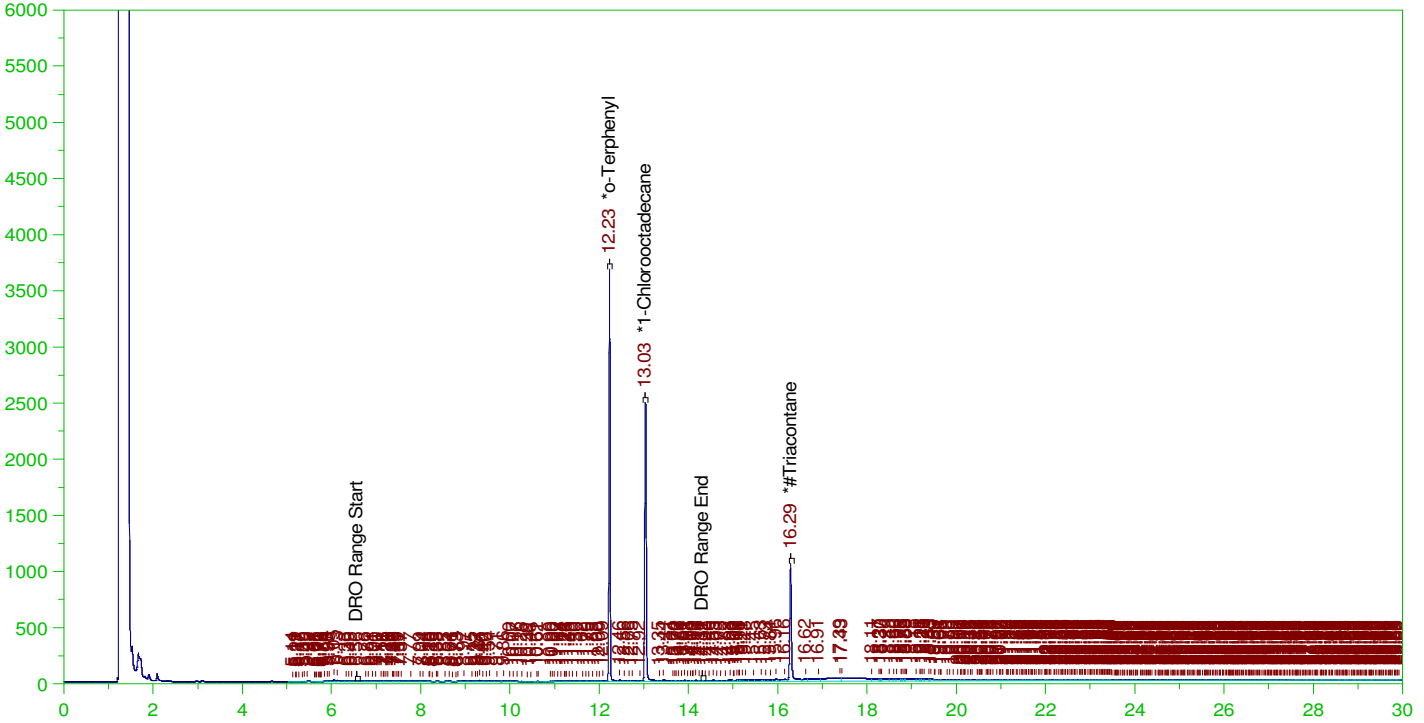
DRO Area: 6967379 DRO Amount: 0.2136753
TEH Area: 2.195478E+07 TEH Amount: 0.6733084

ERH1936 (RHSF)

Batch ID: 161631

G:\org\HP5\DAT\HP5112421_b\1124HP5.0011.RAW

B21111928-007A ; 1124HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-007A ; 1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112421_b\1124HP5.0011.RAW
Date & Time Acquired: 11/24/2021 2:36:02 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24T-ID-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102Id-24-Tri.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.228	.191	.187	97.66	-
*1-Chlorooctadecane	13.034	.191	.149	77.87	-
*#Triacontane	16.286	.191	.102	53.21	-

DRO Area: 1294249 DRO Amount: 3.950207E-02

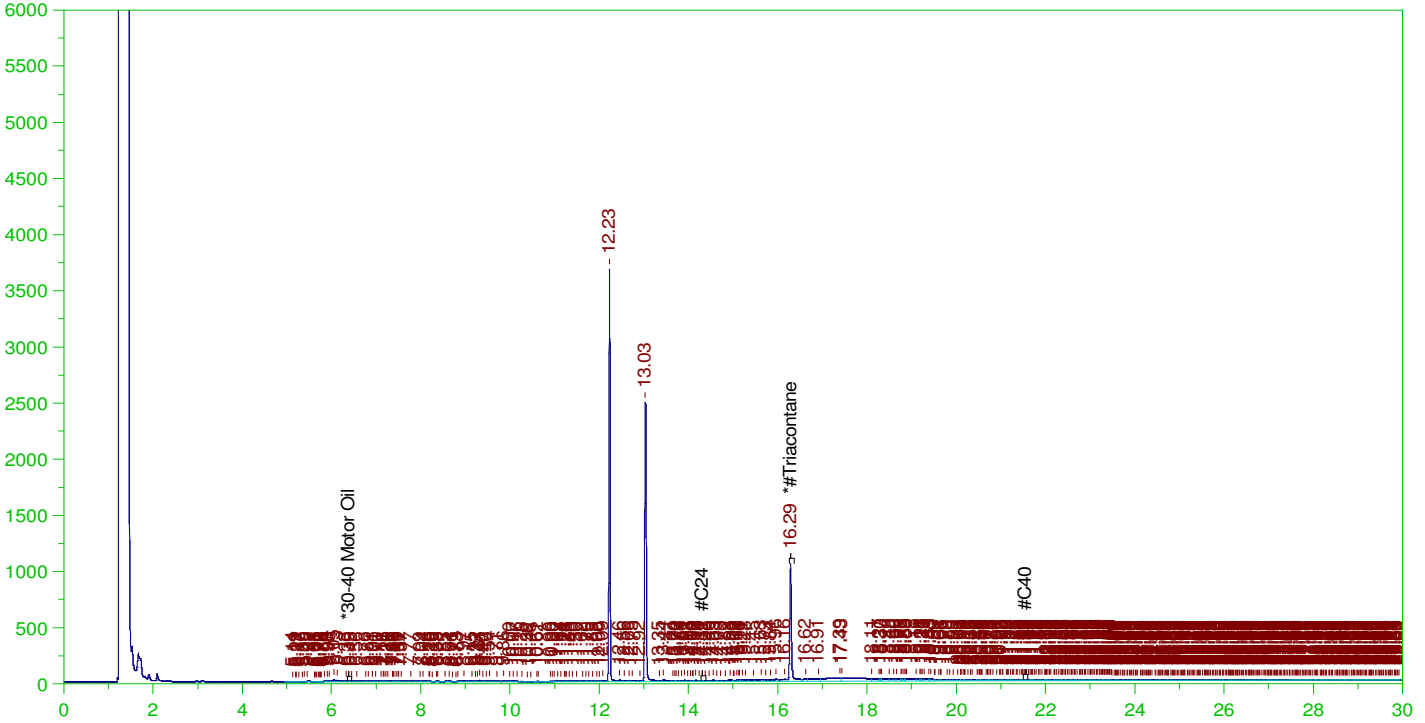
TEH Area: 1.091131E+07 TEH Amount: 0.3330267

ERH1936 (RHSF)

G:\org\HP5\DAT\HP5112421_b\1124HP5.0011.RAW

Batch ID: 161631

B21111928-007A ;1124HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-007A ;1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112421_b\1124HP5.0011.RAW
Date & Time Acquired: 11/24/2021 2:36:02 PM
Method File: G:\Org\HP5\Methods\D3_OROS-AFa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.286	.478	.102	21.28

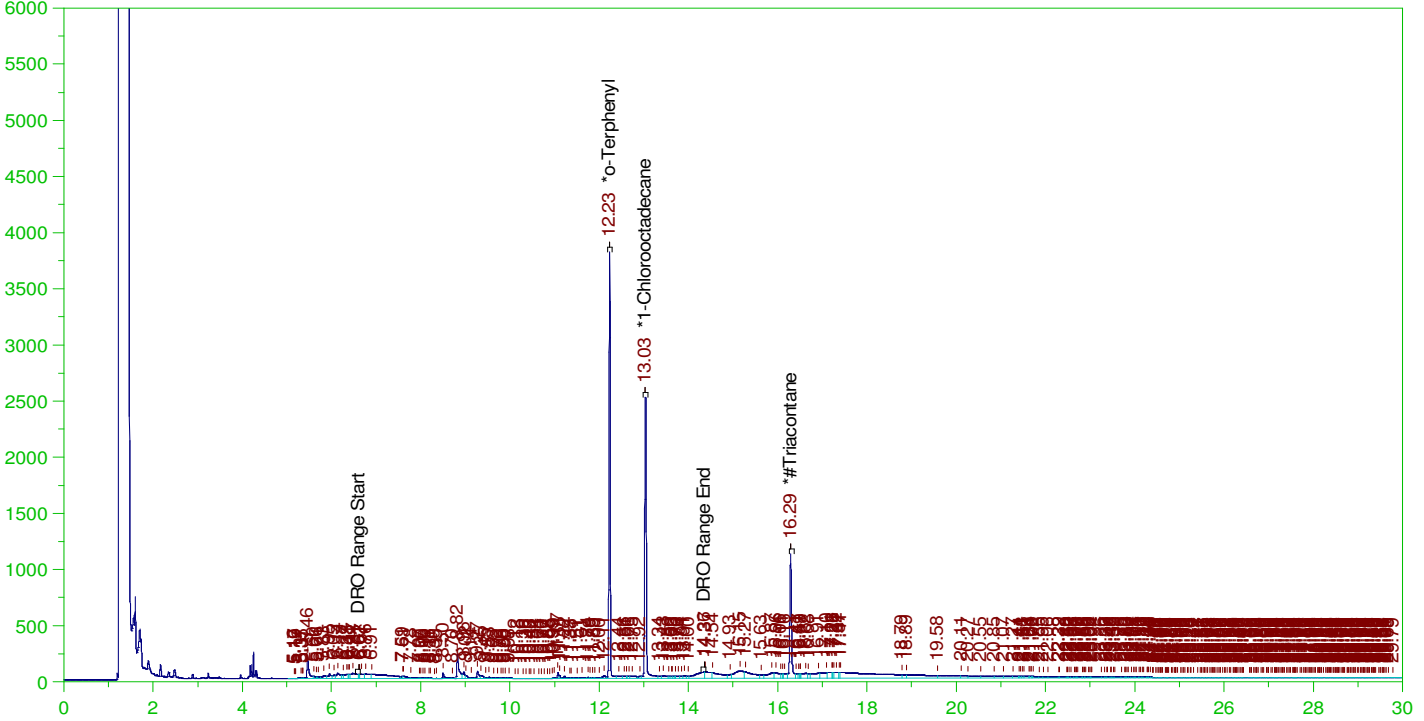
RRO Area:6799957 RRO AMOUNT: 0.2279813

ERH1938 (Post-chlorination)

Batch ID: 161631

G:\Org\HP5\DAT\HP5112421_b\1124HP5.0012.RAW

B21111928-008A ; 1124HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-008A ; 1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\Org\HP5\DAT\HP5112421_b\1124HP5.0012.RAW
Date & Time Acquired: 11/24/2021 3:18:27 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24T-ID-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102Id-24-Tri.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.23	.192	.201	104.43	-
*1-Chlorooctadecane	13.035	.192	.159	82.56	-
*#Triacontane	16.288	.192	.105	54.72	-

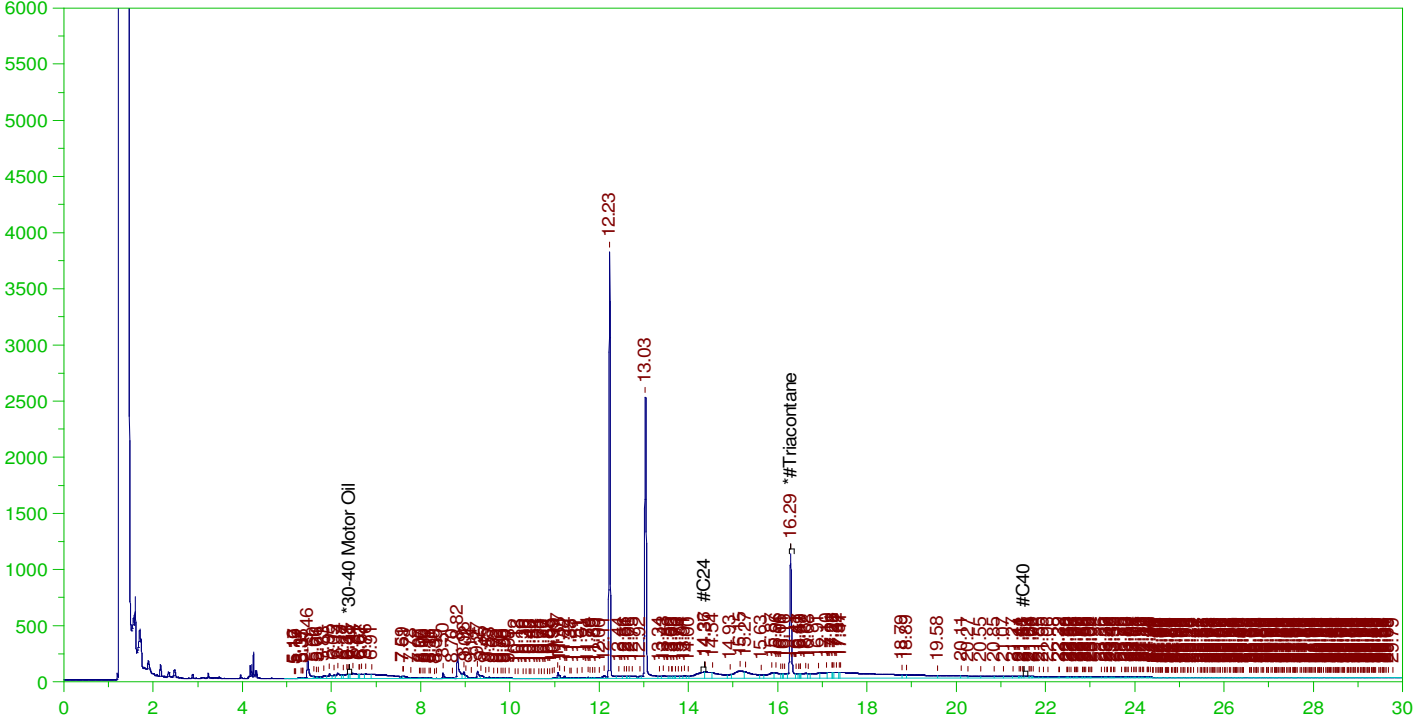
DRO Area: 8533294 DRO Amount: 0.2616987
TEH Area: 2.876697E+07 TEH Amount: 0.8822244

ERH1938 (Post-chlorination)

Batch ID: 161631

G:\org\HP5\DAT\HP5112421_b\1124HP5.0012.RAW

B21111928-008A ;1124HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-008A ;1124HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112421_b\1124HP5.0012.RAW
Date & Time Acquired: 11/24/2021 3:18:27 PM
Method File: G:\Org\HP5\Methods\D3_OROS-AFa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.288	.481	.105	21.89

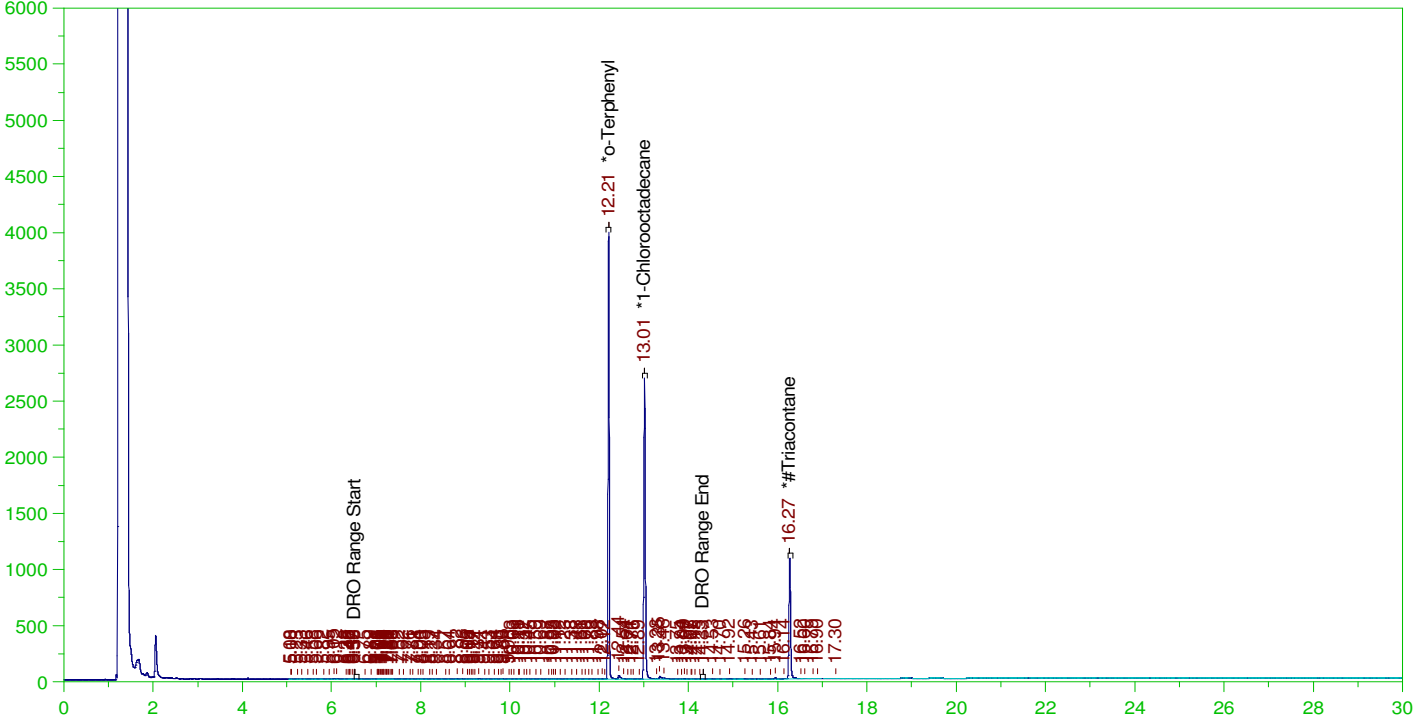
RRO Area:1.584759E+07 RRO AMOUNT: 0.5338747

ERH1934 (RHSF)

Batch ID: 161809

G:\org\HP5\DAT\HP5120221_b\1202HP5.0039.RAW

B21111928-006B ;1202HP5 , \$HC-8015-DRO-W, RX



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-006B ;1202HP5 , \$HC-8015-DRO-W, RX
 Raw File: G:\org\HP5\DAT\HP5120221_b\1202HP5.0039.RAW
 Date & Time Acquired: 12/3/2021 10:37:23 AM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-IE-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IE-24-Tri.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.51 to 14.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.208	.2	.216	107.91	-
*1-Chlorooctadecane	13.014	.2	.169	84.64	-
*#Triacontane	16.267	.2	.101	50.55	-

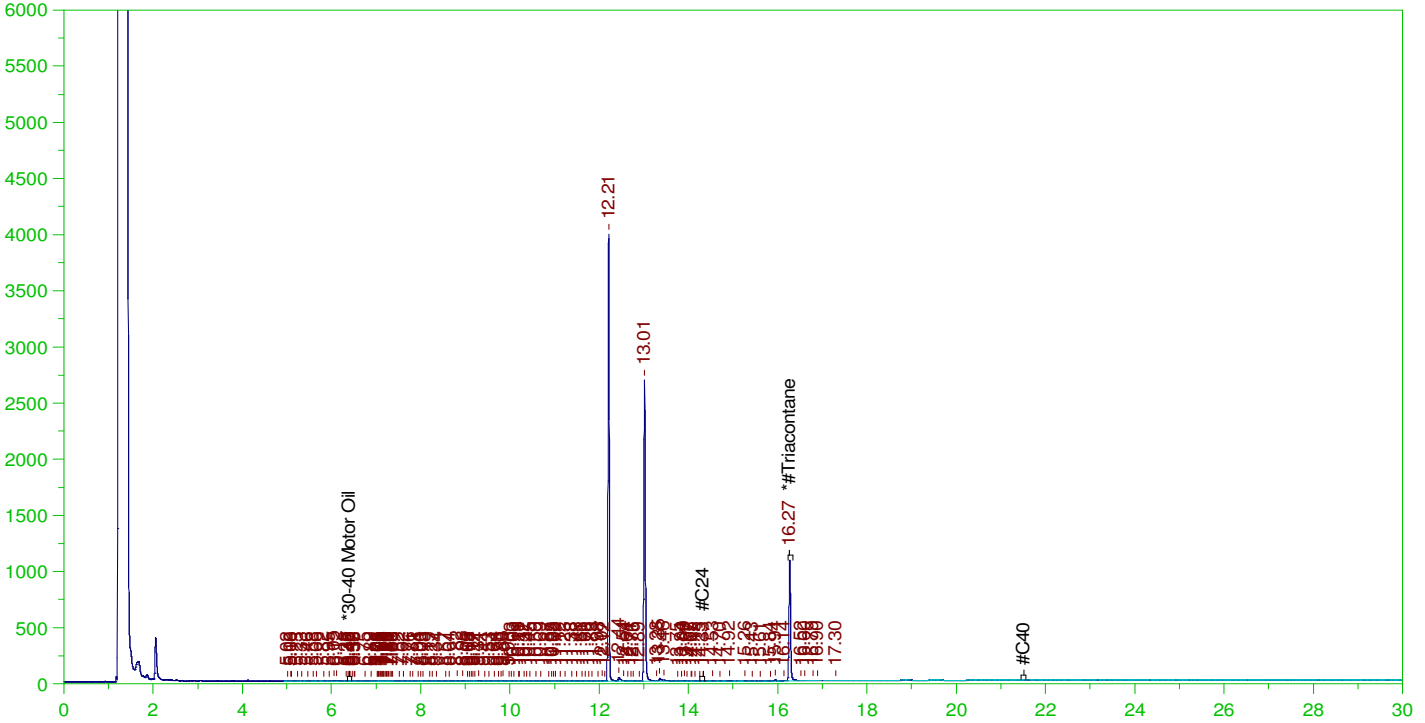
DRO Area:975291.4 DRO Amount: 3.110661E-02
 TEH Area:1219755 TEH Amount: 0.0389037

ERH1934 (RHSF)

G:\org\HP5\DAT\HP5120221_b\1202HP5.0039.RAW

Batch ID: 161809

B21111928-006B ;1202HP5 , \$HC-8015-DRO-W, RX



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-006B ;1202HP5 , \$HC-8015-DRO-W, RX
 Raw File: G:\org\HP5\DAT\HP5120221_b\1202HP5.0039.RAW
 Date & Time Acquired: 12/3/2021 10:37:23 AM
 Method File: G:\Org\HP5\Methods\DR_OROS-AG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AG-SAMP.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.26 to 21.56

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.267	.5	.101	20.22	-

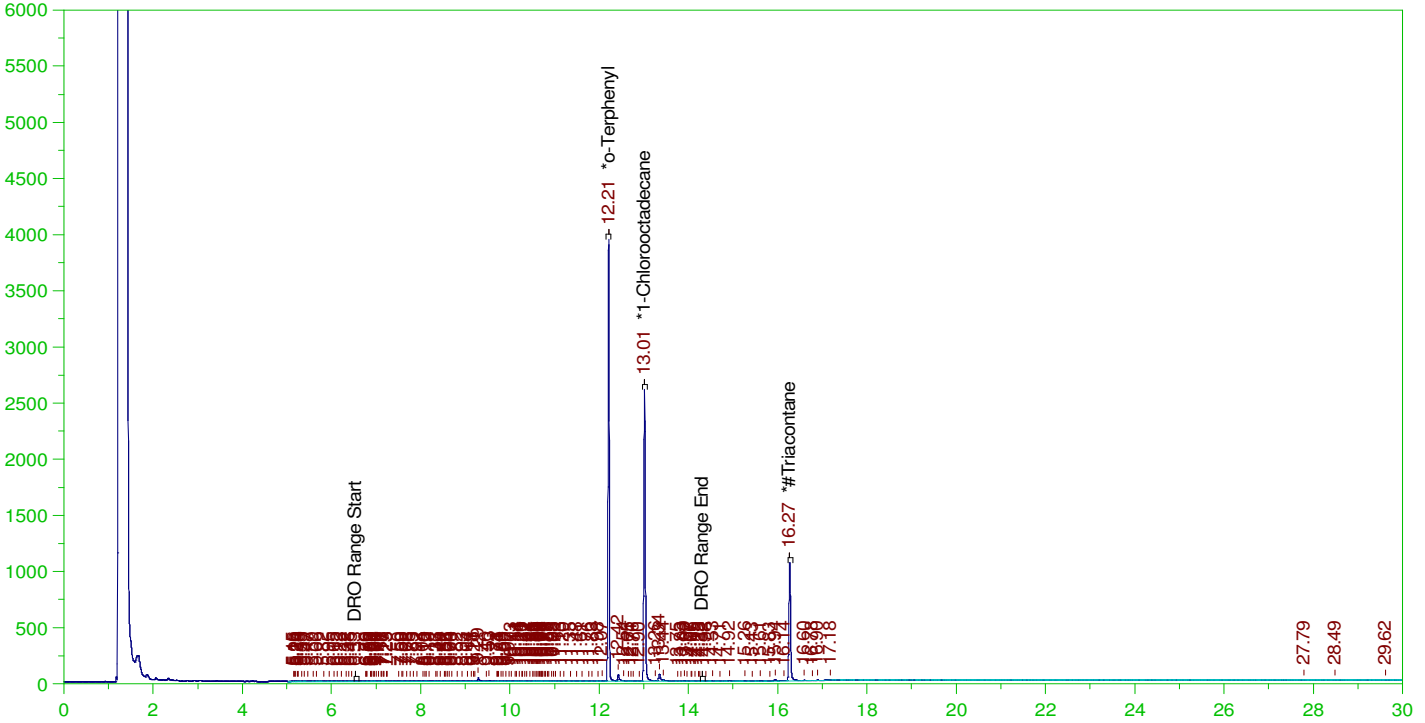
RRO Area:130520.6 RRO AMOUNT: 4.572865E-03

ERH1936 (RHSF)

Batch ID: 161809

G:\org\HP5\DAT\HP5120221_b\1202HP5.0038.RAW

B21111928-007B ;1202HP5 , \$HC-8015-DRO-W, RX



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-007B ;1202HP5 , \$HC-8015-DRO-W, RX
 Raw File: G:\org\HP5\DAT\HP5120221_b\1202HP5.0038.RAW
 Date & Time Acquired: 12/3/2021 9:54:34 AM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-IE-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IE-24-Tri.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.51 to 14.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.208	.2	.213	106.49	-
*1-Chlorooctadecane	13.014	.2	.165	82.41	-
*#Triacontane	16.267	.2	.101	50.3	-

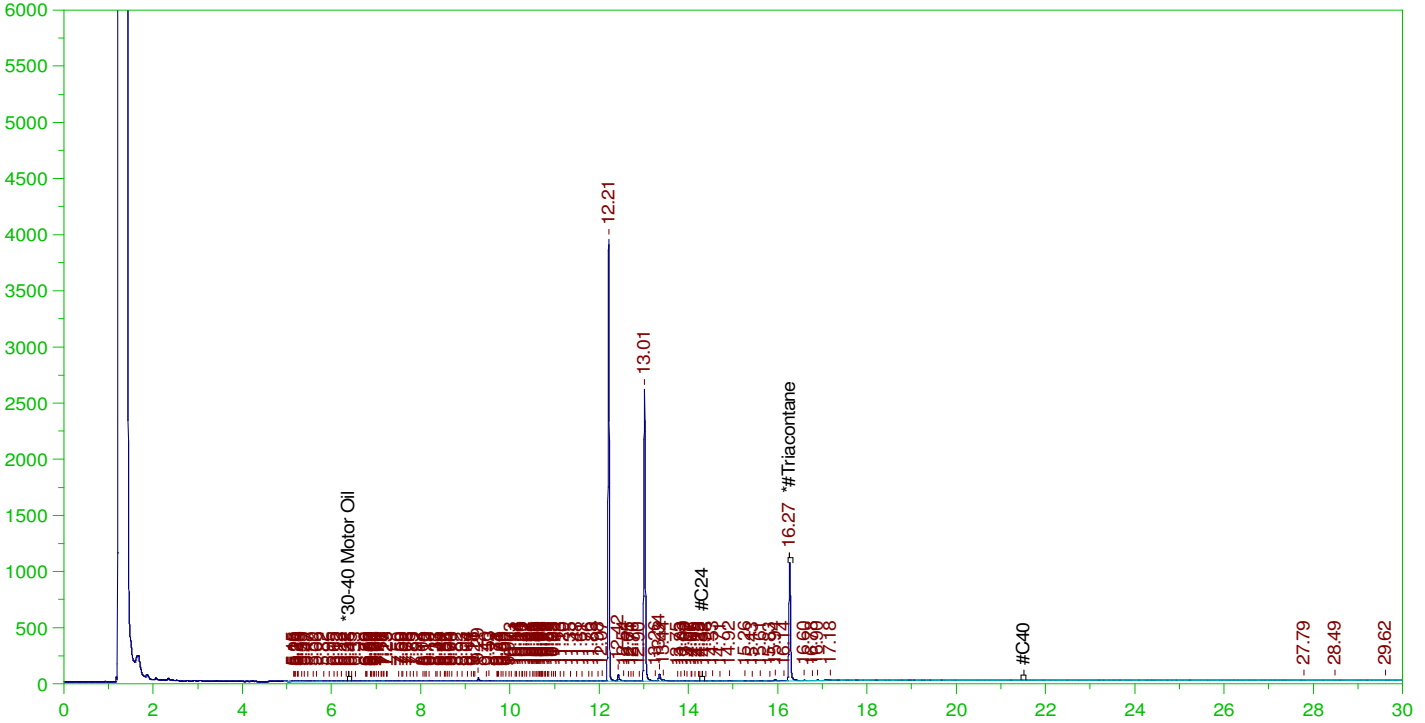
DRO Area:1169859 DRO Amount: 3.731229E-02
 TEH Area:1398145 TEH Amount: 4.459337E-02

ERH1936 (RHSF)

Batch ID: 161809

G:\org\HP5\DAT\HP5120221_b\1202HP5.0038.RAW

B21111928-007B ;1202HP5 , \$HC-8015-DRO-W, RX



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-007B ;1202HP5 , \$HC-8015-DRO-W, RX
 Raw File: G:\org\HP5\DAT\HP5120221_b\1202HP5.0038.RAW
 Date & Time Acquired: 12/3/2021 9:54:34 AM
 Method File: G:\Org\HP5\Methods\DR_OROS-AG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AG-SAMP.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.26 to 21.56

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.267	.5	.101	20.12

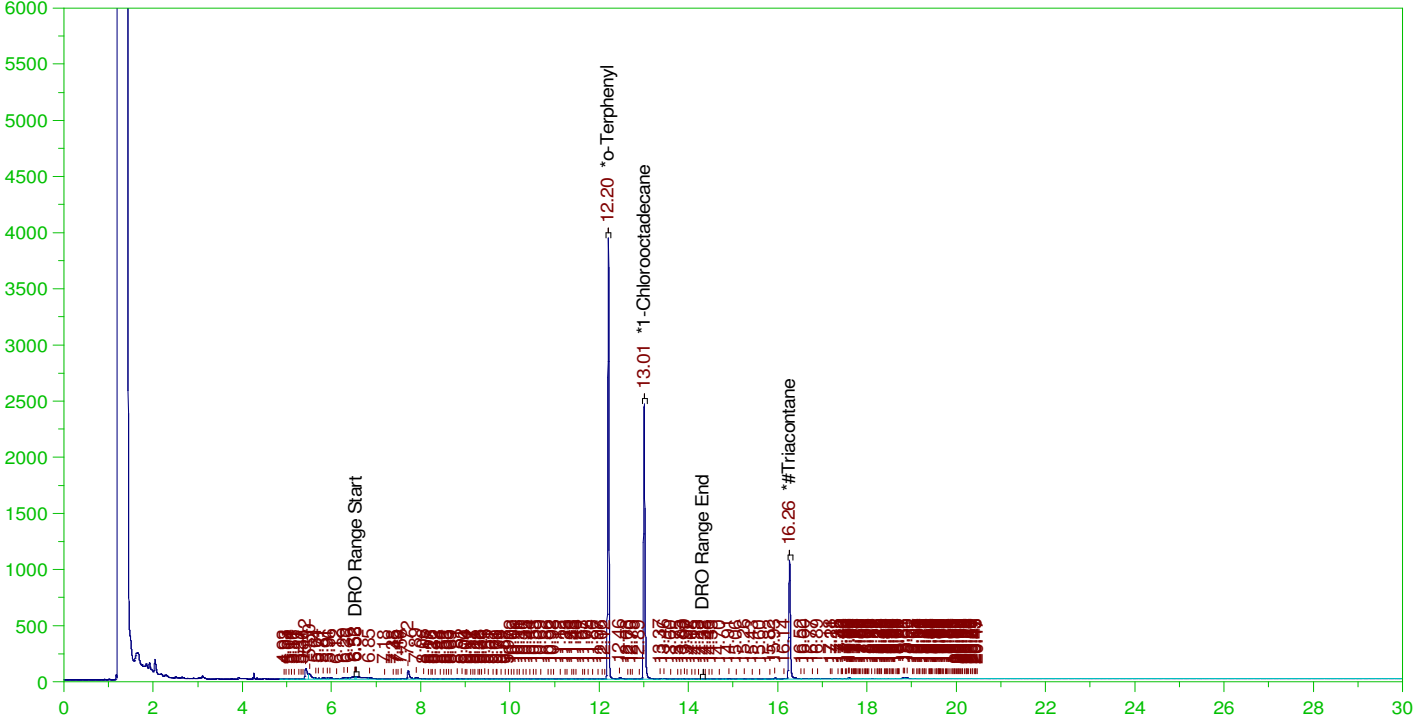
RRO Area:128326.7 RRO AMOUNT: 0.004496

ERH1938 (Post-chlorination)

Batch ID: 161809

G:\org\HP5\DAT\HP5120221_b\1202HP5.0041.RAW

B21111928-008B ;1202HP5 , \$HC-8015-DRO-W, RX



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-008B ;1202HP5 , \$HC-8015-DRO-W, RX
 Raw File: G:\org\HP5\DAT\HP5120221_b\1202HP5.0041.RAW
 Date & Time Acquired: 12/3/2021 12:03:09 PM
 Method File: G:\Org\HP5\Methods\DR_8015-120241-IE-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IE-24-Tri.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.51 to 14.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.201	.2	.214	106.89	-
*1-Chlorooctadecane	13.007	.2	.157	78.64	-
*#Triacontane	16.261	.2	.102	51.17	-

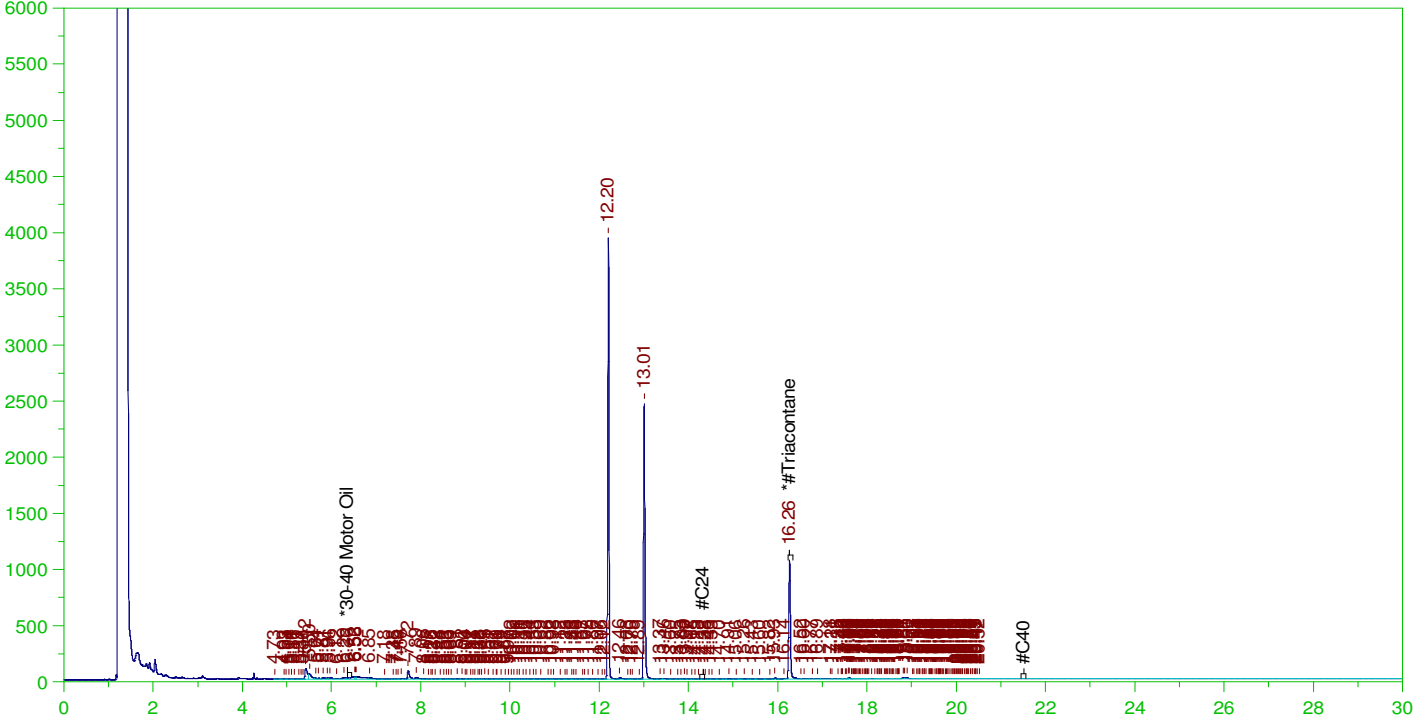
DRO Area:1997141 DRO Amount: 6.369817E-02
 TEH Area:4075630 TEH Amount: 0.1299909

ERH1938 (Post-chlorination)

Batch ID: 161809

G:\org\HP5\DAT\HP5120221_b\1202HP5.0041.RAW

B21111928-008B ;1202HP5 , \$HC-8015-DRO-W, RX



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-008B ;1202HP5 , \$HC-8015-DRO-W, RX
 Raw File: G:\org\HP5\DAT\HP5120221_b\1202HP5.0041.RAW
 Date & Time Acquired: 12/3/2021 12:03:09 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-120241-AG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AG-SAMP.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.26 to 21.56

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.261	.5	.102	20.47	-

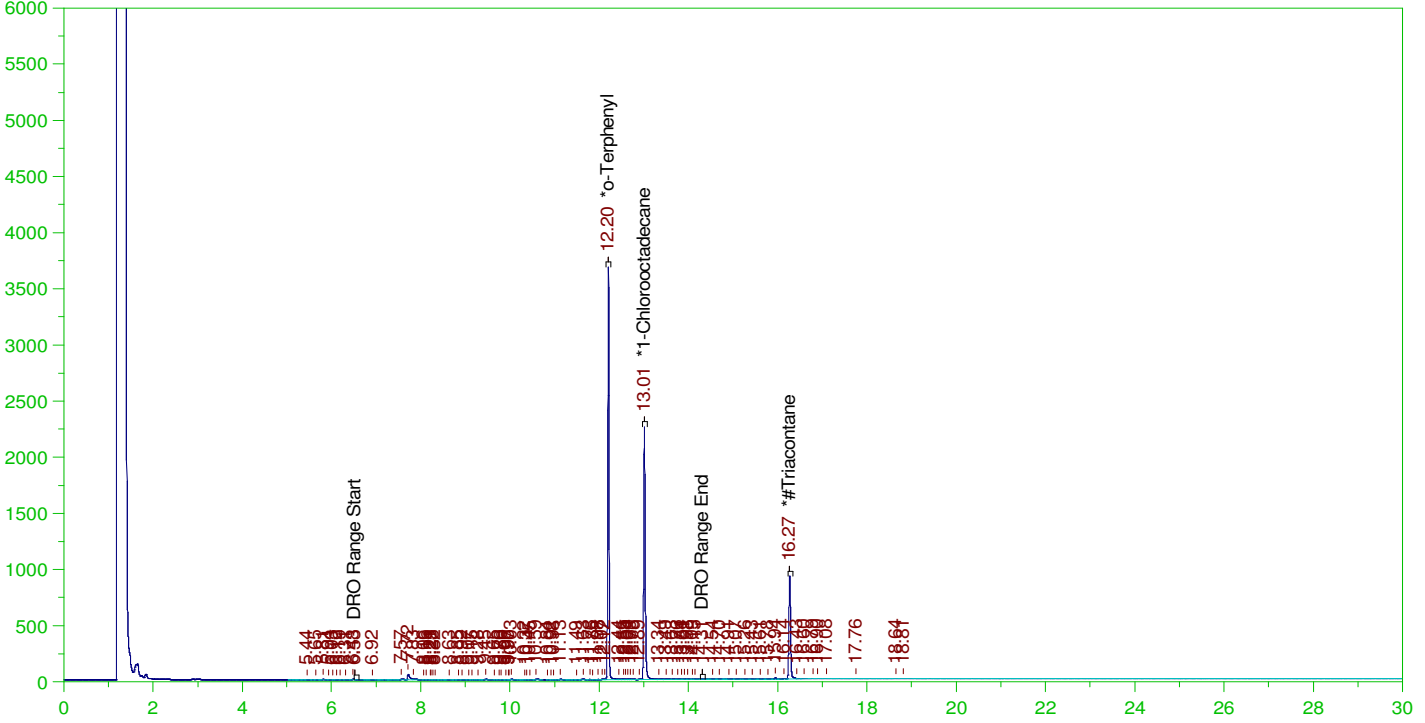
RRO Area:953953.1 RRO AMOUNT: 3.342231E-02

ERH1938 (Post-chlorination)

G:\org\HP5\DAT\HP5120721_b\1207HP5.0011.RAW

Batch ID: 161809

B21111928-008B ;1207HP5, \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-008B ;1207HP5, \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5120721_b\1207HP5.0011.RAW
 Date & Time Acquired: 12/7/2021 6:18:00 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-IE-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IE-24-Tri.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.51 to 14.37

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.202	.2	.199	99.51	-
*1-Chlorooctadecane	13.012	.2	.146	72.9	-
*#Triacontane	16.266	.2	.089	44.64	-

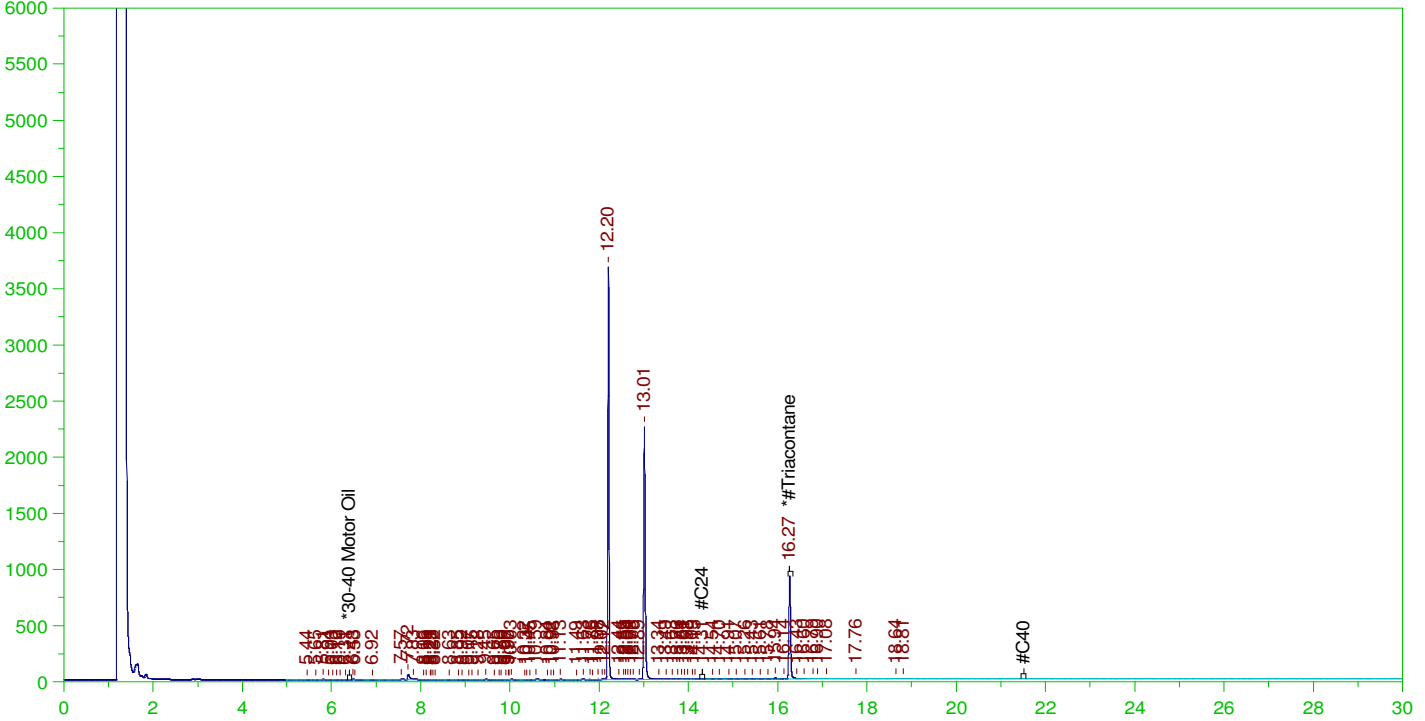
DRO Area:452554.9 DRO Amount: 1.443409E-02
 TEH Area:646749.1 TEH Amount: 2.062786E-02

ERH1938 (Post-chlorination)

G:\org\HP5\DAT\HP5120721_b\1207HP5.0011.RAW

Batch ID: 161809

B21111928-008B ;1207HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-008B ;1207HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5120721_b\1207HP5.0011.RAW
 Date & Time Acquired: 12/7/2021 6:18:00 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AG-SAMP.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.26 to 21.56

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.266	.5	.089	17.86

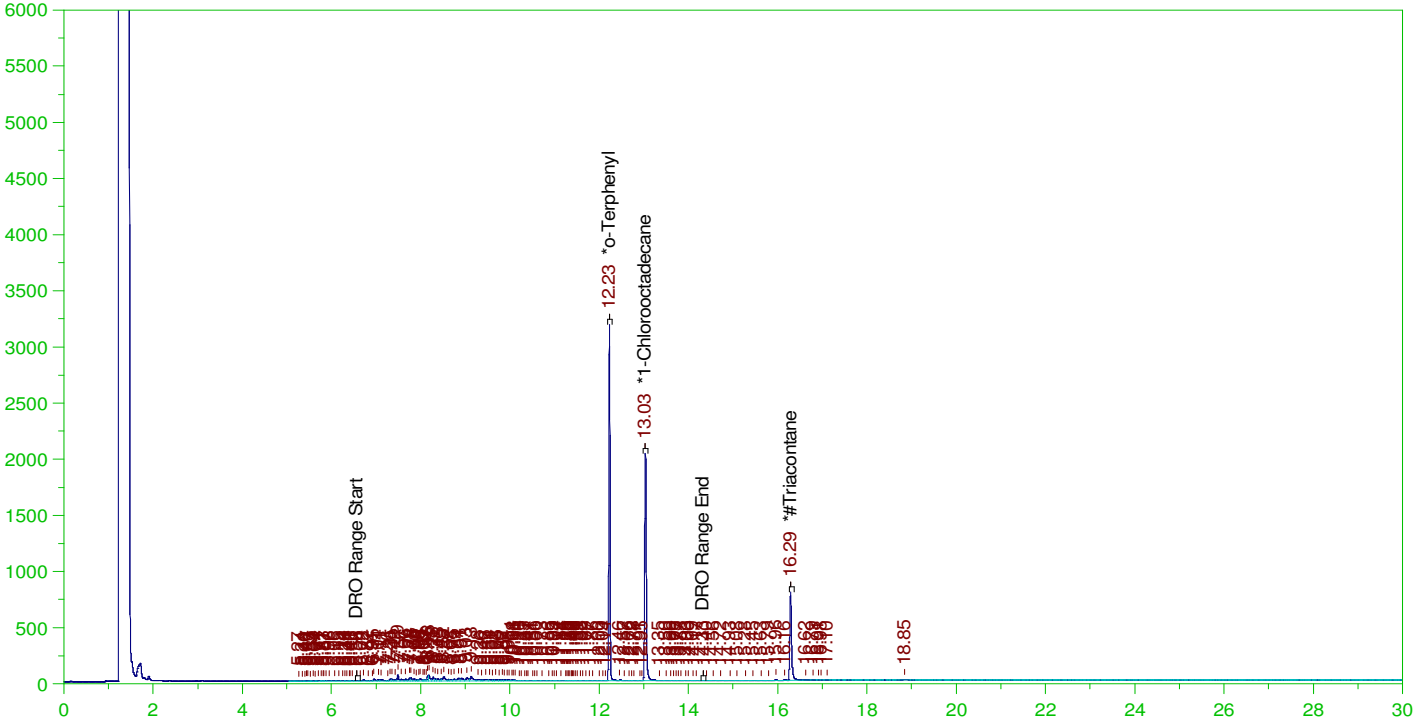
RRO Area:151382.8 RRO AMOUNT: 5.303783E-03

ERH1919 (RHMW01R)

Batch ID: 161631

G:\Org\HP5\DAT\HP5112921_b\1129HP5.0025.RAW

B21111928-001A ; 1129HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-001A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\Org\HP5\DAT\HP5112921_b\1129HP5.0025.RAW
 Date & Time Acquired: 11/30/2021 2:41:47 AM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.225	.2	.172	85.9	-
*1-Chlorooctadecane	13.033	.2	.133	66.7	-
*#Triacontane	16.286	.2	.08	40.16	-

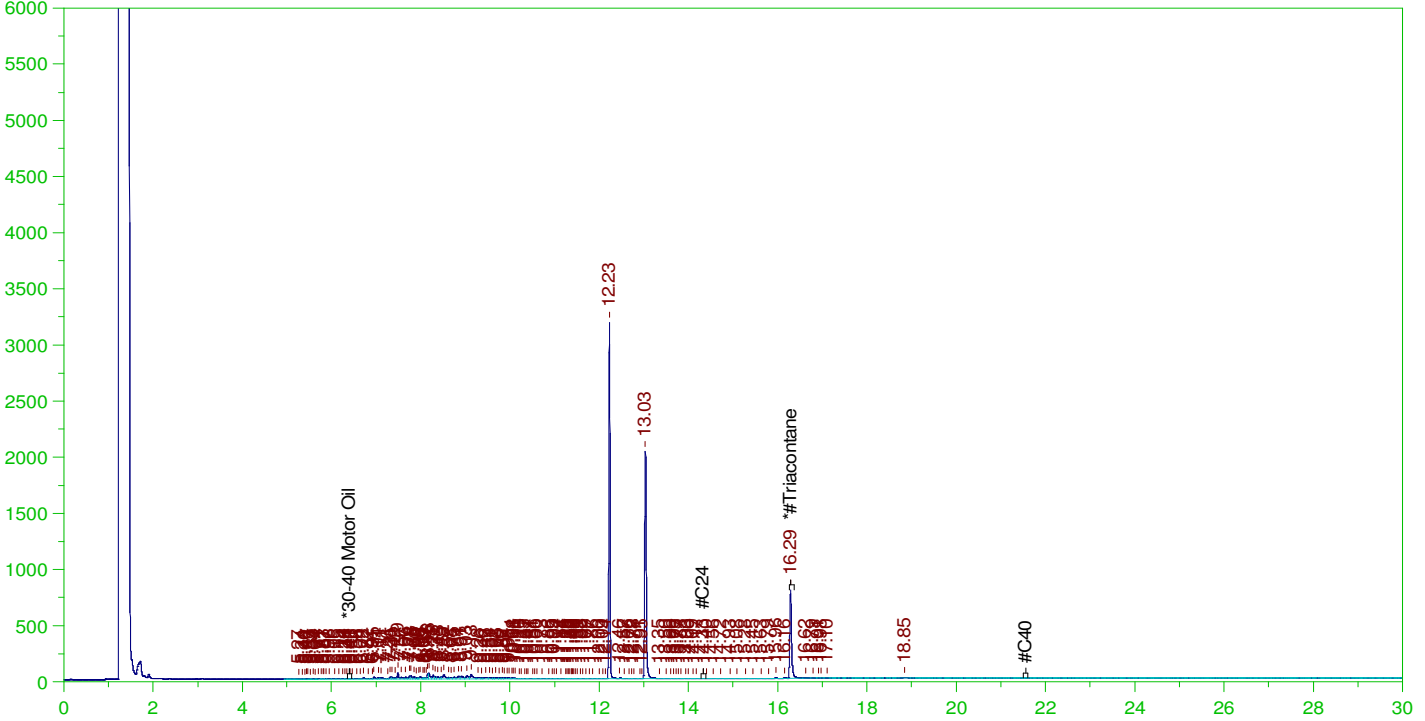
DRO Area: 3276523 DRO Amount: 0.1045036
 TEH Area: 3529331 TEH Amount: 0.1125669

ERH1919 (RHMW01R)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0025.RAW

Batch ID: 161631

B21111928-001A ; 1129HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-001A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0025.RAW
 Date & Time Acquired: 11/30/2021 2:41:47 AM
 Method File: G:\Org\HP5\Methods\DR_OROS-AFa-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.286	.5	.08	16.06	-

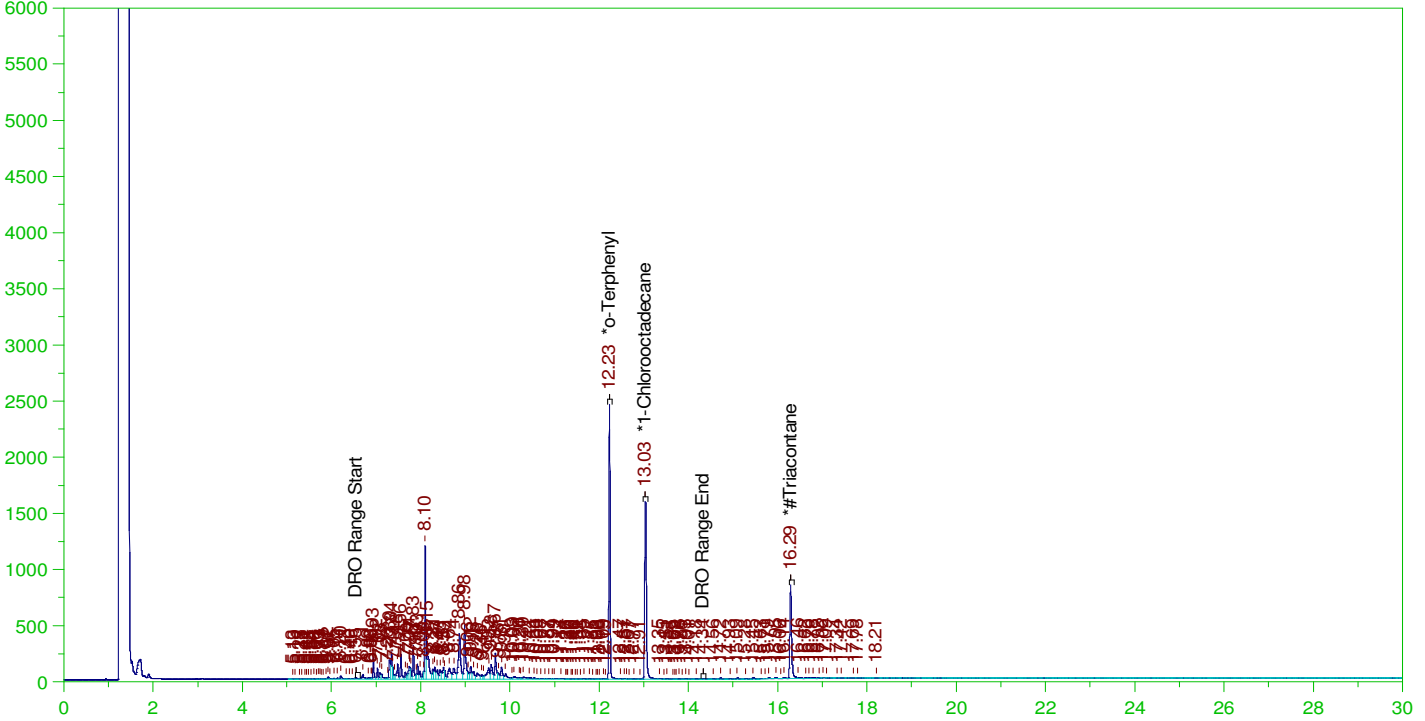
RRO Area:154501.1 RRO AMOUNT: 5.413036E-03

ERH1922 (RHMW02)

Batch ID: 161631

G:\Org\HP5\DAT\HP5112921_b\1129HP5.0026.RAW

B21111928-002A ; 1129HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-002A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\Org\HP5\DAT\HP5112921_b\1129HP5.0026.RAW
 Date & Time Acquired: 11/30/2021 3:24:44 AM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.227	.196	.132	67.27	-
*1-Chlorooctadecane	13.034	.196	.106	54.06	-
*#Triacontane	16.287	.196	.081	41.52	-

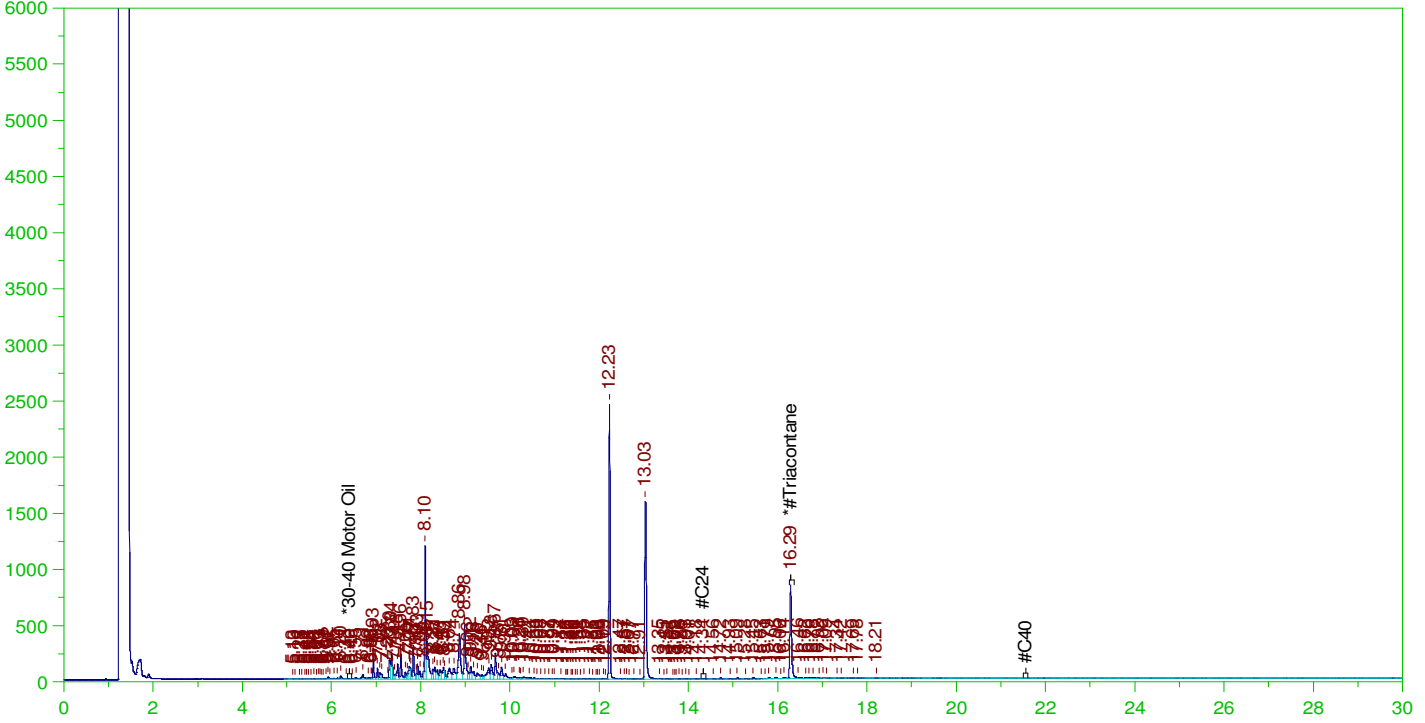
DRO Area: 1.658836E+07 DRO Amount: 0.5187062
 TEH Area: 1.721205E+07 TEH Amount: 0.5382087

ERH1922 (RHMW02)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0026.RAW

Batch ID: 161631

B21111928-002A ; 1129HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-002A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0026.RAW
 Date & Time Acquired: 11/30/2021 3:24:44 AM
 Method File: G:\Org\HP5\Methods\DR_OROS-AFa-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
 Sample Weight: 1020 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.287	.49	.081	16.61	-

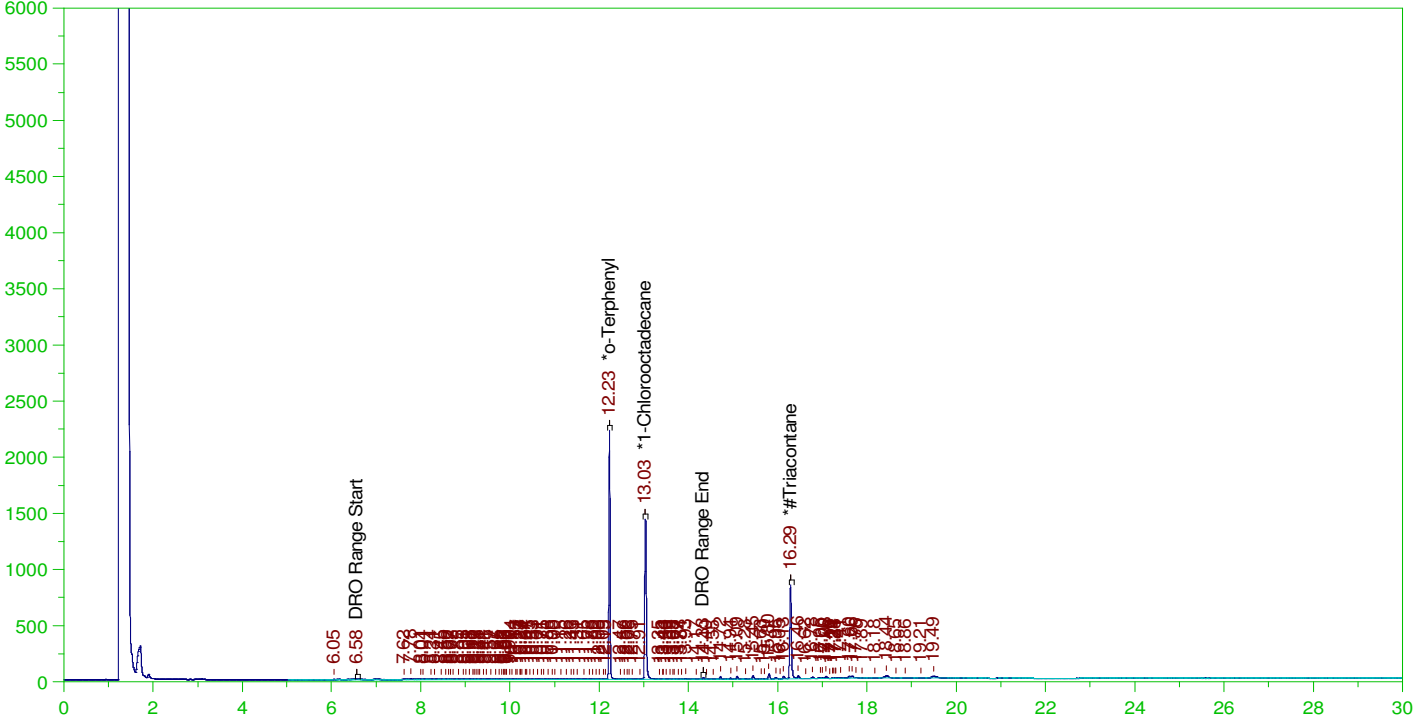
RRO Area: 330094.9 RRO AMOUNT: 0.0113383

ERH1925 (RHMW03)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0021.RAW

Batch ID: 161631

B2111928-003A ; 1129HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B2111928-003A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0021.RAW
 Date & Time Acquired: 11/29/2021 11:50:30 PM
 Method File: G:\Org\HP5\Methods\DR_8015-112921-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.226	.202	.123	60.81	-
*1-Chlorooctadecane	13.034	.202	.096	47.55	-
*#Triacontane	16.285	.202	.08	39.82	-

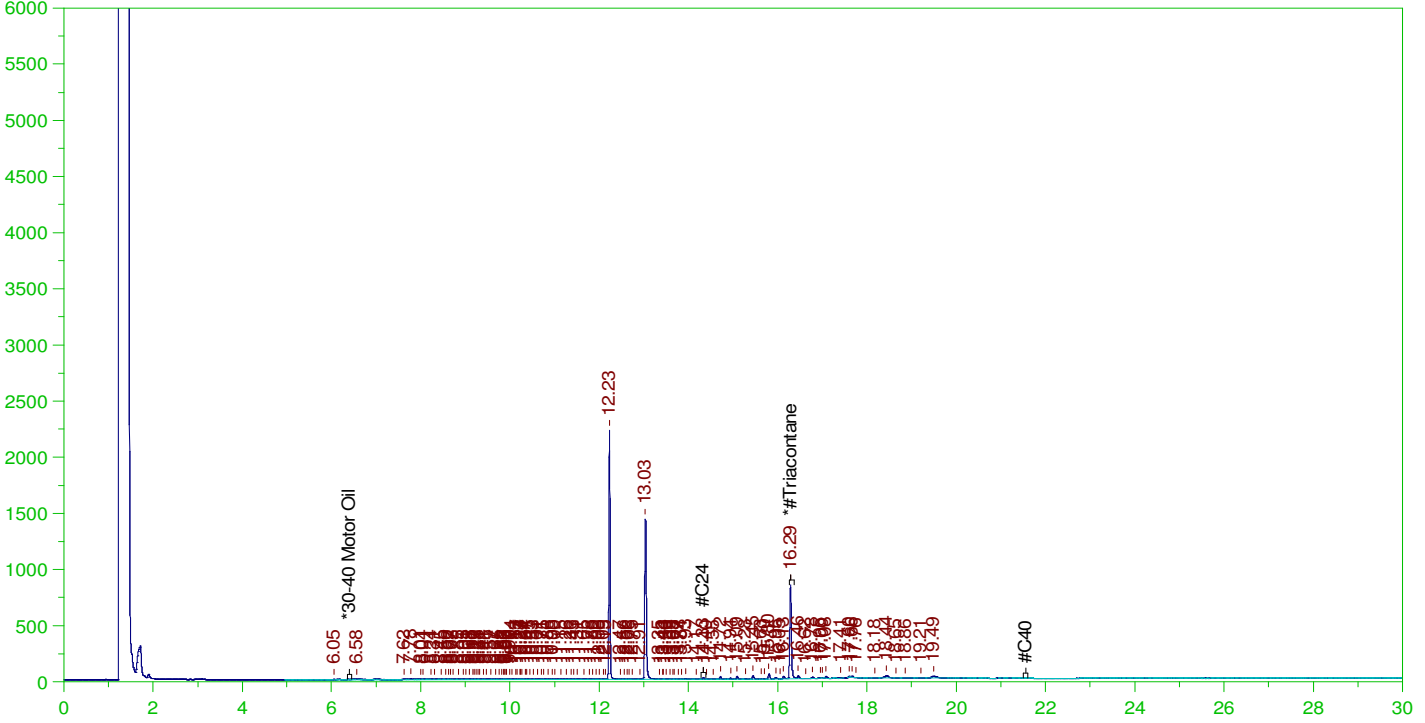
DRO Area: 441079.6 DRO Amount: 1.421019E-02
 TEH Area: 1957016 TEH Amount: 6.304887E-02

ERH1925 (RHMW03)

Batch ID: 161631

G:\org\HP5\DAT\HP5112921_b\1129HP5.0021.RAW

B2111928-003A ; 1129HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B2111928-003A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0021.RAW
 Date & Time Acquired: 11/29/2021 11:50:30 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AFa-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
 Sample Weight: 990 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.285	.505	.08	15.89	-

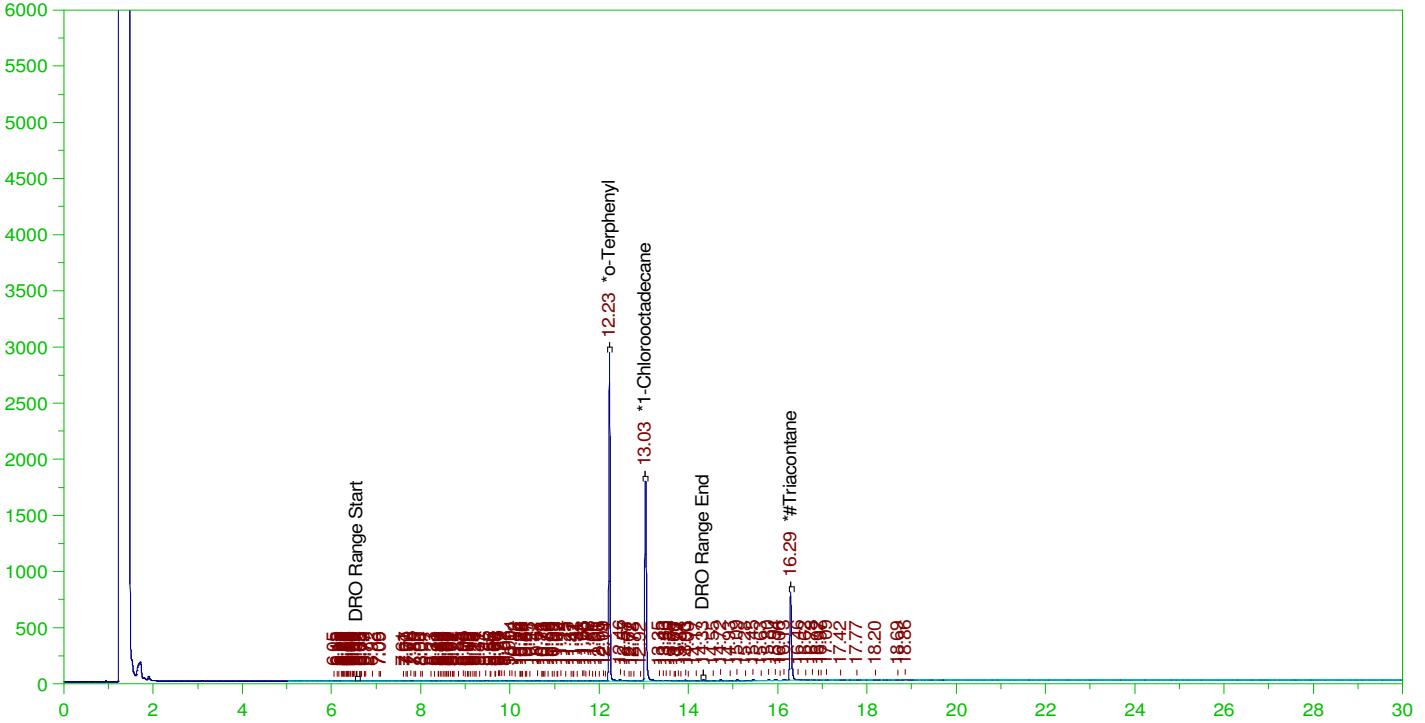
RRO Area:1279695 RRO AMOUNT: 4.528772E-02

ERH1928 (RHMW05)

Batch ID: 161631

G:\org\HP5\DAT\HP5112921_b\1129HP5.0023.RAW

B21111928-004A ; 1129HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-004A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0023.RAW
 Date & Time Acquired: 11/30/2021 1:16:07 AM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.226	.192	.155	80.84	-
*1-Chlorooctadecane	13.034	.192	.114	59.17	-
*#Triacontane	16.286	.192	.075	38.9	-

DRO Area: 510614.7 DRO Amount: 1.565951E-02
 TEH Area: 955661.8 TEH Amount: 0.0293082

ERH1928 (RHMW05)

G:\Org\HP5\DAT\HP5112921_b\1129HP5.0023.RAW

Batch ID: 161631

B21111928-004A ; 1129HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-004A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\Org\HP5\DAT\HP5112921_b\1129HP5.0023.RAW
 Date & Time Acquired: 11/30/2021 1:16:07 AM
 Method File: G:\Org\HP5\Methods\DR_OROS-AFa-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.286	.481	.075	15.56

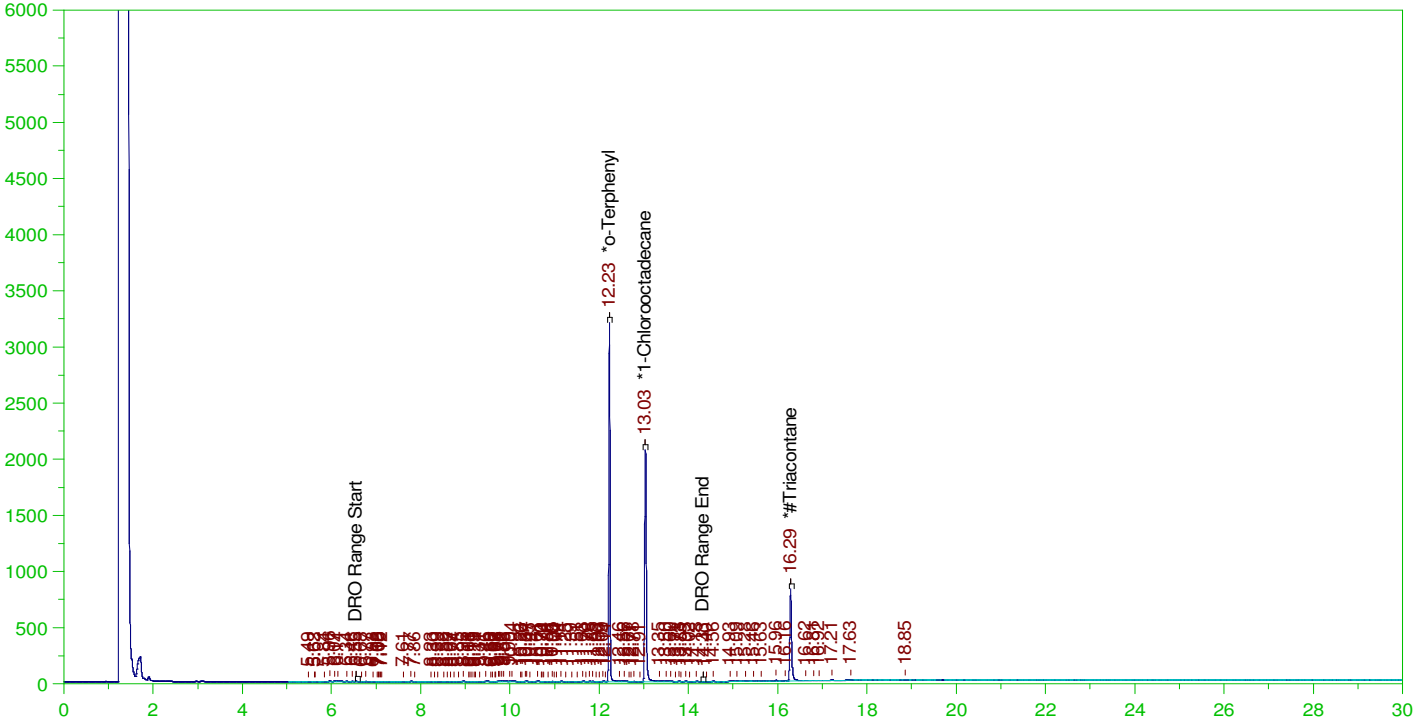
RRO Area:435676.5 RRO AMOUNT: 0.0146771

ERH1931 (RHMW2254-01)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0019.RAW

Batch ID: 161631

B21111928-005A ; 1129HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-005A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0019.RAW
 Date & Time Acquired: 11/29/2021 10:24:36 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.225	.192	.168	87.32	-
*1-Chlorooctadecane	13.033	.192	.133	69.06	-
*#Triacontane	16.287	.192	.08	41.39	-

DRO Area: 418374.7
 TEH Area: 642242.9

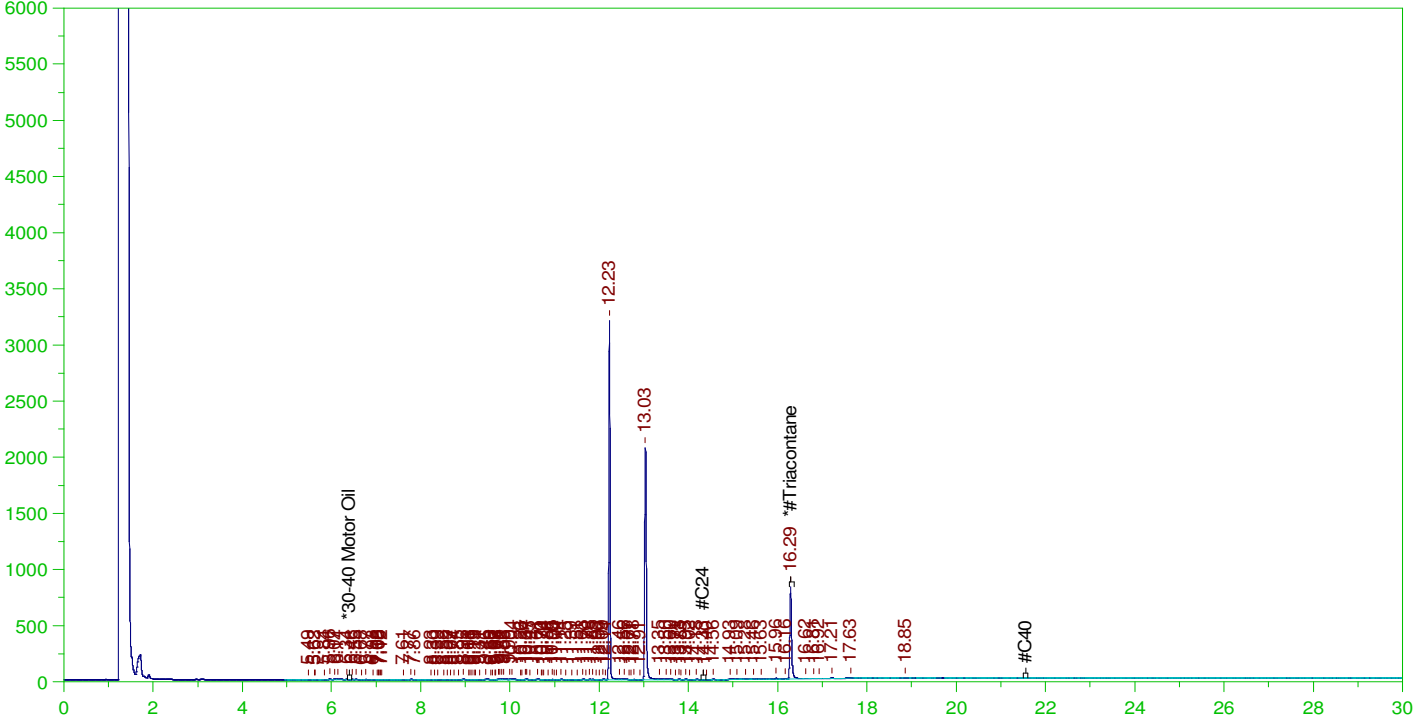
DRO Amount: 0.0128307
 TEH Amount: 1.969628E-02

ERH1931 (RHMW2254-01)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0019.RAW

Batch ID: 161631

B21111928-005A ; 1129HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-005A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0019.RAW
 Date & Time Acquired: 11/29/2021 10:24:36 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AFa-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*#Triacontane	16.287	.481	.08	16.56	-

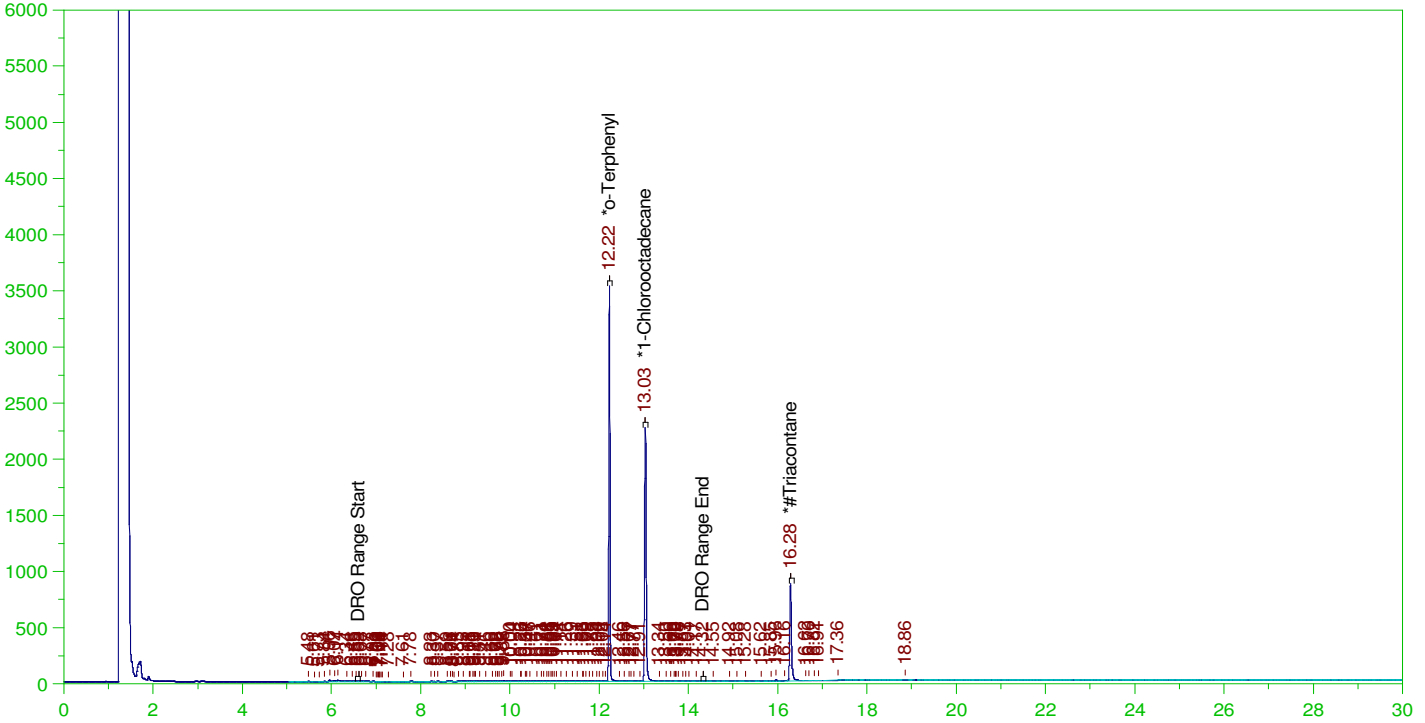
RRO Area: 104471.8 RRO AMOUNT: 3.519452E-03

ERH1934 (RHSF)

Batch ID: 161631

G:\org\HP5\DAT\HP5112921_b\1129HP5.0020.RAW

B21111928-006A ; 1129HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-006A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0020.RAW
 Date & Time Acquired: 11/29/2021 11:07:29 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.225	.192	.182	94.58	-
*1-Chlorooctadecane	13.031	.192	.144	74.76	-
*#Triacontane	16.284	.192	.085	44.14	-

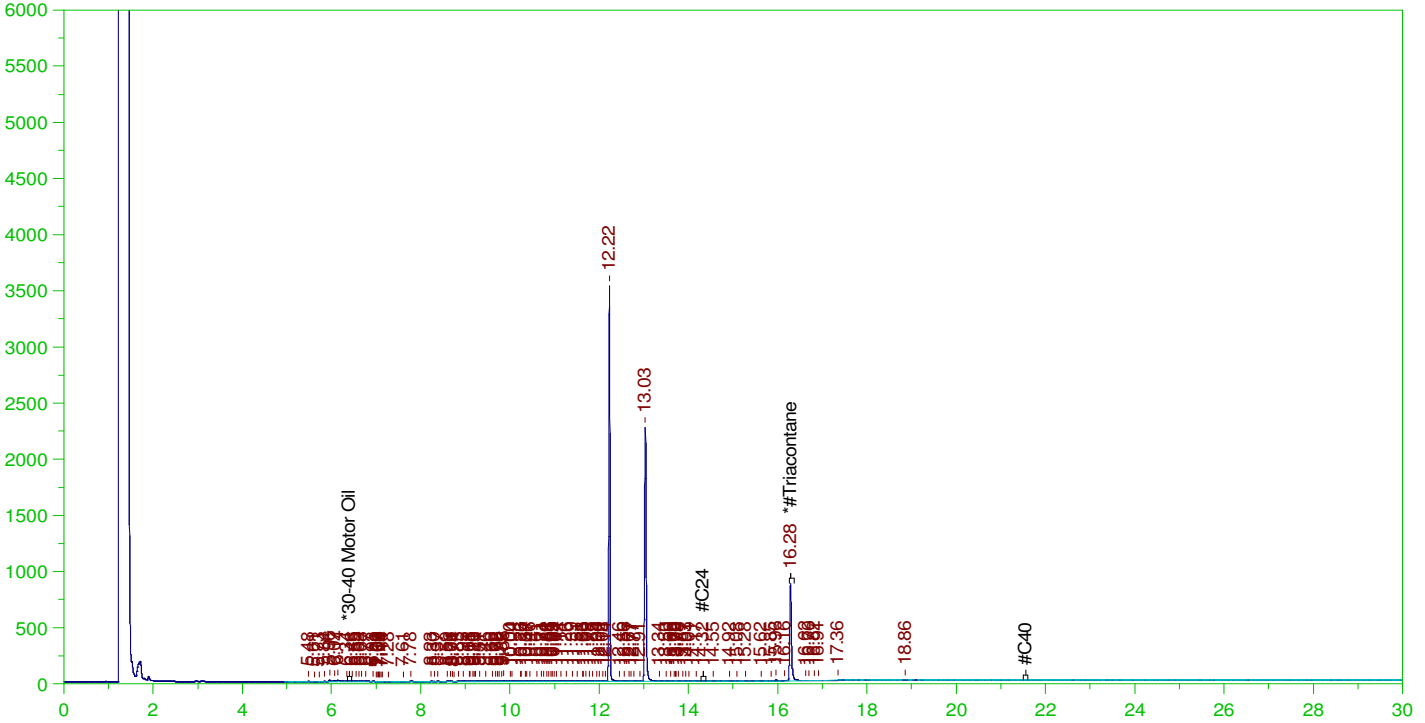
DRO Area: 455815.3 DRO Amount: 1.397893E-02
 TEH Area: 747663.9 TEH Amount: 2.292933E-02

ERH1934 (RHSF)

Batch ID: 161631

G:\org\HP5\DAT\HP5112921_b\1129HP5.0020.RAW

B21111928-006A ; 1129HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-006A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0020.RAW
 Date & Time Acquired: 11/29/2021 11:07:29 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AFa-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.284	.481	.085	17.66

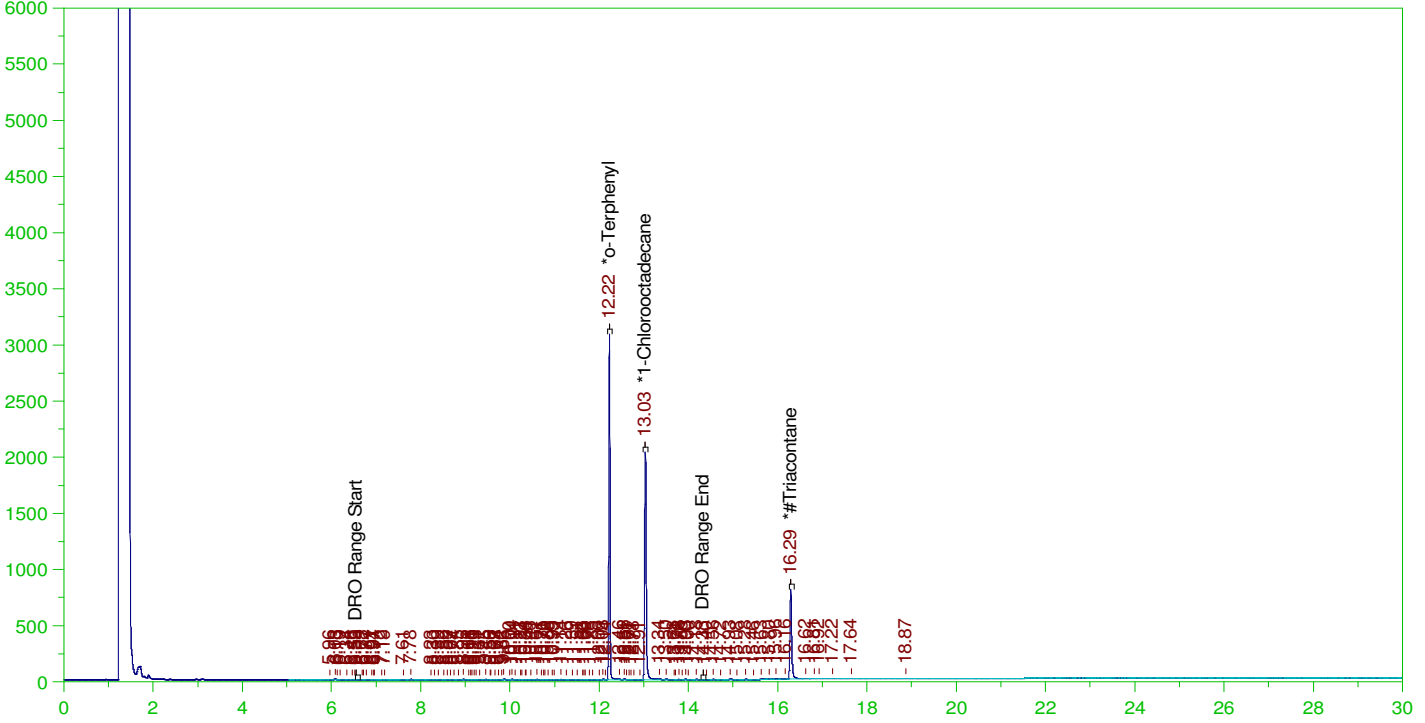
RRO Area: 99071.06 RRO AMOUNT: 3.337512E-03

ERH1936 (RHSF)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0013.RAW

Batch ID: 161631

B21111928-007A ; 1129HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-007A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0013.RAW
 Date & Time Acquired: 11/29/2021 6:07:12 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.225	.191	.161	84.38	-
*1-Chlorooctadecane	13.031	.191	.128	67.04	-
*#Triacontane	16.29	.191	.077	40.24	-

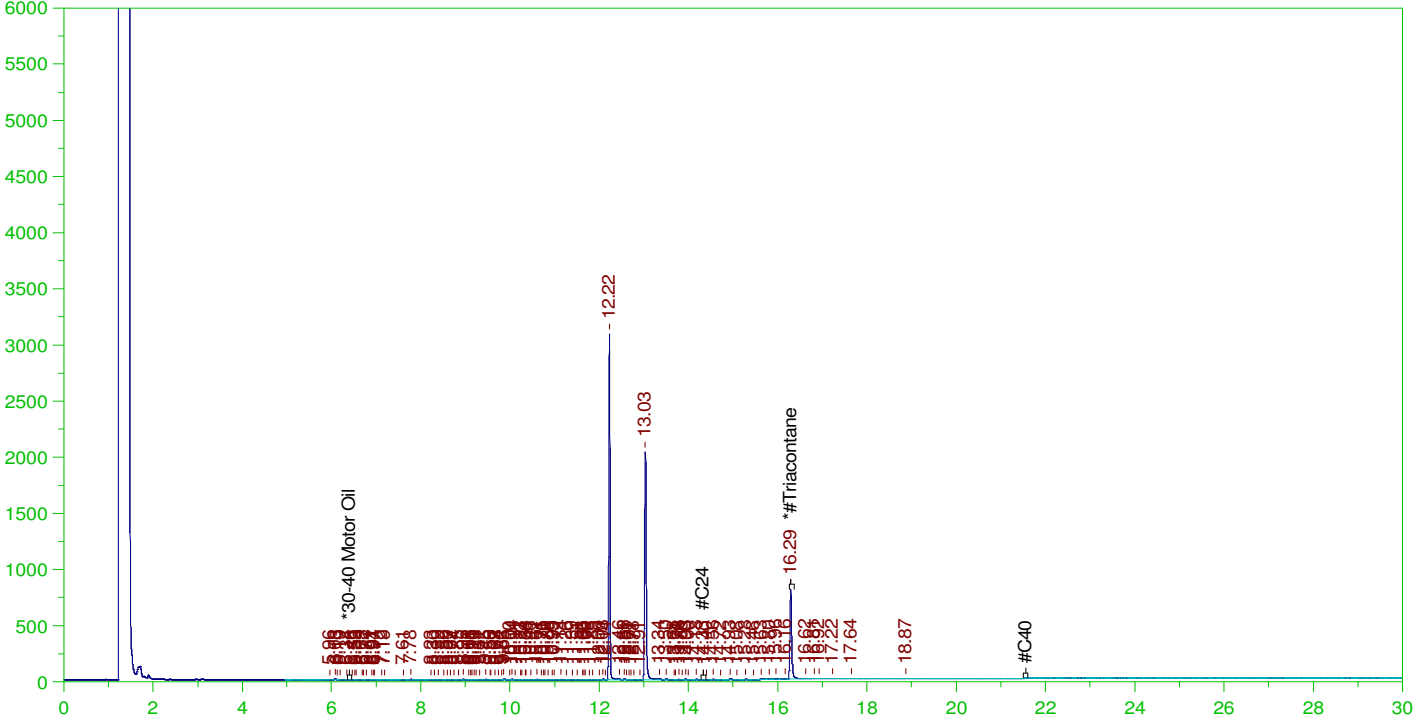
DRO Area: 392535.7 DRO Amount: 1.198067E-02
 TEH Area: 566417.6 TEH Amount: 1.728776E-02

ERH1936 (RHSF)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0013.RAW

Batch ID: 161631

B21111928-007A ; 1129HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-007A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0013.RAW
 Date & Time Acquired: 11/29/2021 6:07:12 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AFa-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
 Sample Weight: 1045 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.29	.478	.077	16.1

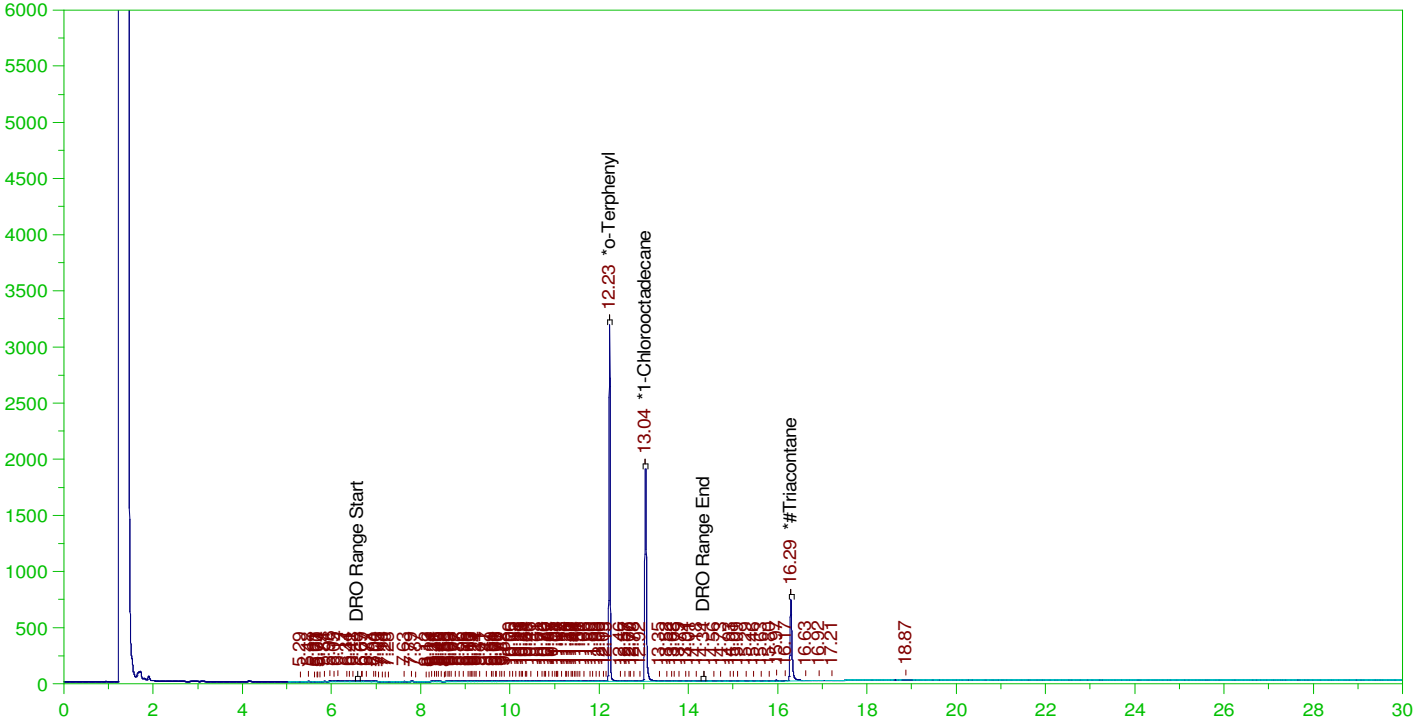
RRO Area: 97903.08 RRO AMOUNT: 3.282384E-03

ERH1938 (Post-chlorination)

Batch ID: 161631

G:\org\HP5\DAT\HP5112921_b\1129HP5.0040.RAW

B21111928-008A ; 1129HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21111928-008A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0040.RAW
 Date & Time Acquired: 11/30/2021 1:24:11 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-ID-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102ID-24-Tri.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19

Rt range for Diesel Range Organics: 6.54 to 14.39

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC	
*o-Terphenyl	12.229	.192	.168	87.38	-
*1-Chlorooctadecane	13.036	.192	.124	64.45	-
*#Triacontane	16.293	.192	.075	39.01	-

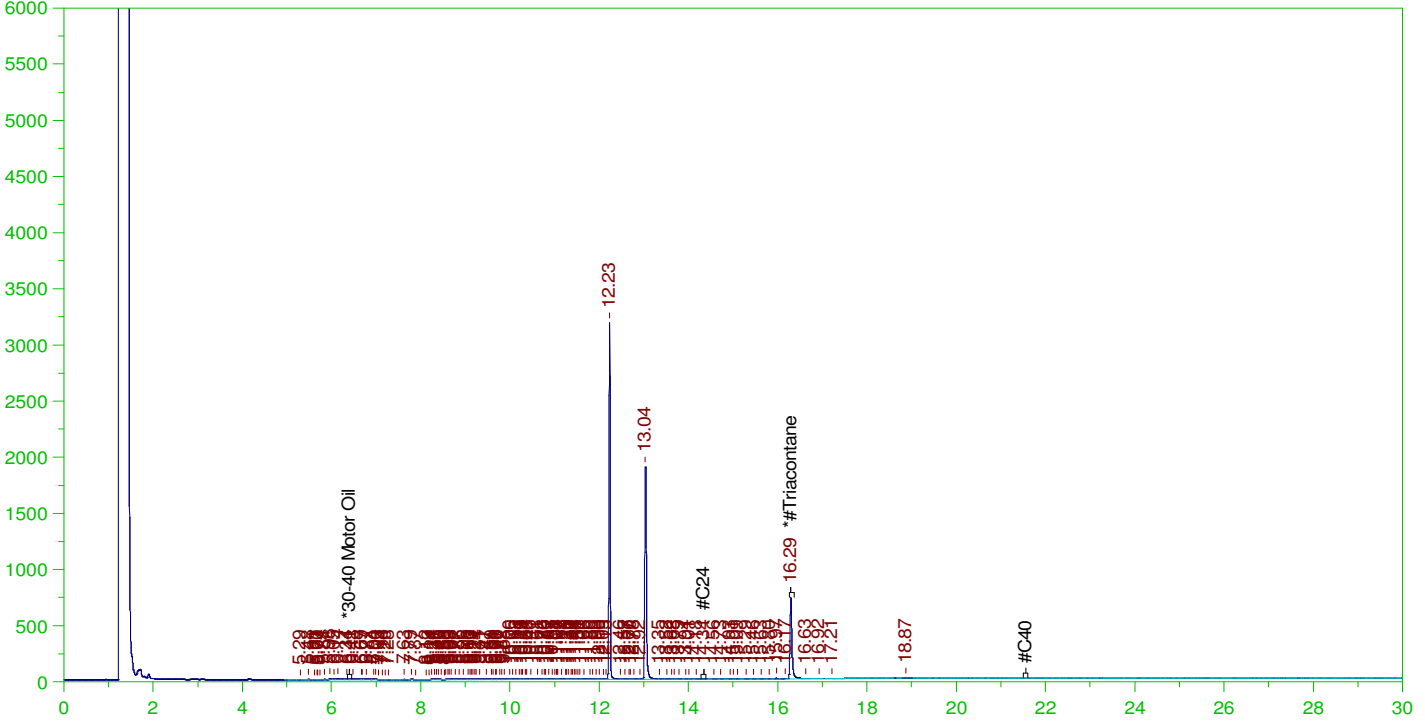
DRO Area: 441187 DRO Amount: 0.0135303
 TEH Area: 685663.3 TEH Amount: 2.102789E-02

ERH1938 (Post-chlorination)

Batch ID: 161631

G:\org\HP5\DAT\HP5112921_b\1129HP5.0040.RAW

B21111928-008A ; 1129HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21111928-008A ; 1129HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0040.RAW
 Date & Time Acquired: 11/30/2021 1:24:11 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AFa-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
 Sample Weight: 1040 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 14.29 to 21.606

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.293	.481	.075	15.6

RRO Area: 104550.8 RRO AMOUNT: 3.522114E-03