



CLIENT: AECOM - Honolulu
Project: CV18F0126/60571032.02.20.01
Work Order: B21112212

Report Date: 12/16/2021

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. Corrective action regarding analytes by SW8015C DRO/RRO analysis are summarized below.

Method SW8015C DRO/RRO:

B21112214-002BMS

Because the sample amount was significantly higher than the spike amount for some analytes, the Matrix Spike sample is calculated as a Duplicate sample based on the spike amount added plus the original sample concentration for those analytes. Higher than normal RPD values appear to be sample matrix related and may indicate a non-homogenous sample matrix.

B21112214-002BMS-RRO

TEH (Oil Range) Matrix Spike recovery was slightly above quality control limits. This appeared to be due to sample matrix.

B21112214-002BMS-RRO SGT

The SGT RRO Matrix Spike is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample. The dilution was necessary to prevent overloading of the silica gel column.



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Chain of Custody & Analytical Request Record 202111-

DoD Samples

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COC# 10-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 checked="" 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. ERH1963, ERH1965, ERH1966 need a 48-hr TAT.

Project Information

Project Name, PWSID, Permit, etc.	CV18F0126/60571032.02.20.01		
Sampler Name	GM, MY, 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

Sample ID	Date	Time	Number of Containers	Matrix (See Codes Above)	Analysis Requested															
					EPA 8015 TPH-DRO/RRO w/ SGC	EPA 8015 TPH-DRO/RRO														
1	11/24/2021	9:10 am	2	GW	✓	✓														
2	11/24/2021	11:30 am	2	GW	✓	✓														
3	11/24/2021	12:25 pm	2	GW	✓	✓														
4	11/24/2021	10:25 am	0	GW	✓	✓														
5	11/24/2021	10:20 am	0	GW	✓	✓														
6	11/24/2021	9:50 am	0	DW	✓	✓														
7	11/24/2021	9:50 am	0	DW	✓	✓														
8	11/24/2021	9:05 am	0	DW	✓	✓														
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	See Attached	RUSH TAT	ELI LAB ID (Laboratory Use Only)
	Date	Time							
1 ERH1948 (RHMW05)	11/24/2021	9:10 am	2	GW	✓	✓		×	B2112212
2 ERH1951(RHMW02)	11/24/2021	11:30 am	2	GW	✓	✓		×	
3 ERH1954 (RHMW03)	11/24/2021	12:25 pm	2	GW	✓	✓		×	
4 ERH1957 (RHMW01R)	11/24/2021	10:25 am	0	GW	✓	✓		×	
5 ERH1960 (RHMW2254-01)	11/24/2021	10:20 am	0	GW	✓	✓		×	
6 ERH1963 (RHSF Pre-chlorination)	11/24/2021	9:50 am	0	DW	✓	✓		×	
7 ERH1965 (RHSF Pre-chlorination)	11/24/2021	9:50 am	0	DW	✓	✓		×	
8 ERH1966 (RHSF Post-chlorination)	11/24/2021	9:05 am	0	DW	✓	✓		×	
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
	Matthew Yim	11/26/21 15:00	<i>Matthew Yim</i>			
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				<i>Matthew Yim</i>	11/26/21 09:55	<i>Matthew Yim</i>
LABORATORY USE ONLY						
Shipped By	Cooler ID(s)	Custody Seals	Intact	Receipt Temp	Temp Blank	On Ice
		Y N C B	Y N	0.2 °C	ON	ON
Payment Type			Amount	Receipt Number (cash/check only)		
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.



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DoD Samples

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COC# 11-NOI

Page 2 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"/> ONELAC <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.
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5. ERH1963, ERH1965, ERH1966 need a 48-hr TAT.

Project Information

Project Name, PWSID, Permit, etc.	CV18F0126/60571032.02.20.01		
Sampler Name	DM, AM	Sampler Phone	310-625-1283
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 - Solids/Solids
- V - Vegetation
- B - Bioassay
- O - Oil
- DW - Drinking Water

Analysis Requested

Sample ID	Date	Time	Number of Containers	Matrix (See Codes Above)	Analysis Requested										See Attached						
					EPA 8015 TPH-DRO/RRO w/ SGC	EPA 8015 TPH-DRO/RRO															
1	11/24/2021	9:10 am	0	GW	✓	✓															
2	11/24/2021	11:30 am	0	GW	✓	✓															
3	11/24/2021	12:25 pm	0	GW	✓	✓															
4	11/24/2021	10:25 am	0	GW	✓	✓															
5	11/24/2021	10:20 am	2	GW	✓	✓															
6	11/24/2021	9:50 am	2	DW	✓	✓															
7	11/24/2021	9:50 am	2	DW	✓	✓															
8	11/24/2021	9:05 am	0	DW	✓	✓															
9																					

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Sample Identification (Name, Location, Interval, etc.)	Collection		Number of Containers	Matrix (See Codes Above)	Analysis Requested										See Attached	RUSH TAT	ELI LAB ID (Laboratory Use Only)							
	Date	Time			EPA 8015 TPH-DRO/RRO w/ SGC	EPA 8015 TPH-DRO/RRO																		
1 ERH1948 (RHMW05)	11/24/2021	9:10 am	0	GW	✓	✓																X	B2112212	
2 ERH1951 (RHMW02)	11/24/2021	11:30 am	0	GW	✓	✓																X		
3 ERH1954 (RHMW03)	11/24/2021	12:25 pm	0	GW	✓	✓																X		
4 ERH1957 (RHMW01R)	11/24/2021	10:25 am	0	GW	✓	✓																X		
5 ERH1960 (RHMW2254-01)	11/24/2021	10:20 am	2	GW	✓	✓																X		
6 ERH1963 (RHSF Pre-chlorination)	11/24/2021	9:50 am	2	DW	✓	✓																X		
7 ERH1965 (RHSF Pre-chlorination)	11/24/2021	9:50 am	2	DW	✓	✓																X		
8 ERH1966 (RHSF Post-chlorination)	11/24/2021	9:05 am	0	DW	✓	✓																X		
9																								

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Custody Record MUST be signed	Relinquished by (print)	Date/Time	Signature	Received by (print)	Date/Time	Signature
	Matthew Yin	11/26/21 15:00	Matthew Yin			
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print)	Date/Time	Signature
				Tina Brown	11/26/21 09:35	
LABORATORY USE ONLY						
Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	Receipt Temp 0-6°C	Temp Blank 0 N	In Use 0 N
						Payment Type CC Cash Check
					Amount \$	Receipt Number (cash/check only)

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DoD Samples

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coc# 12-NOI

Page 3 of 3

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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 checked="" 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 _____	

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Sampler Name GM, NL, MY, DM, AM	Sampler Phone	808-987-3201
Sample Origin State	EPA/State Compliance	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
URANIUM MINING CLIENTS MUST indicate sample type		
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<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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- W - Water
- S - Soils/Solids
- V - Vegetation
- B - Blossay
- O - Oil
- DW - Drinking Water

Analysis Requested

Sample ID	Date	Time	Number of Containers	Matrix (See Codes Above)	Analysis Requested		See Attached	RUSH TAT
					EPA 8015 TPH-DRO/RRO w/SGC	EPA 8015 TPH-DRO/RRO		
1	11/24/2021	9:10 am	0	GW	✓	✓		×
2	11/24/2021	11:30 am	0	GW	✓	✓		×
3	11/24/2021	12:25 pm	0	GW	✓	✓		×
4	11/24/2021	10:25 am	2	GW	✓	✓		×
5	11/24/2021	10:20 am	0	GW	✓	✓		×
6	11/24/2021	9:50 am	0	DW	✓	✓		×
7	11/24/2021	9:50 am	0	DW	✓	✓		×
8	11/24/2021	9:05 am	2	DW	✓	✓	My 11/26/21	×
9								

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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	See Attached	RUSH TAT
	Date	Time						
1 ERH1948 (RHMW05)	11/24/2021	9:10 am	0	GW	✓	✓		×
2 ERH1951 (RHMW02)	11/24/2021	11:30 am	0	GW	✓	✓		×
3 ERH1954 (RHMW03)	11/24/2021	12:25 pm	0	GW	✓	✓		×
4 ERH1957 (RHMW01R)	11/24/2021	10:25 am	2	GW	✓	✓		×
5 ERH1960 (RHMW2254-01)	11/24/2021	10:20 am	0	GW	✓	✓		×
6 ERH1963 (RHSF Pre-chlorination)	11/24/2021	9:50 am	0	DW	✓	✓		×
7 ERH1965 (RHSF Pre-chlorination)	11/24/2021	9:50 am	0	DW	✓	✓		×
8 ERH1966 (RHSF Post-chlorination)	11/24/2021	9:05 am	2	DW	✓	✓	My 11/26/21	×
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) Matthew Yim	Date/Time 11/26/21 15:00	Signature <i>Matthew Yim</i>	Received by (print)	Date/Time	Signature			
	Relinquished by (print)	Date/Time	Signature	Received by Laboratory (print) <i>Matthew Yim</i>	Date/Time 11/26/21 01:55	Signature <i>Matthew Yim</i>			
LABORATORY USE ONLY									
Shipped By	Cooler ID(s)	Custody Seals Y N C B	Intact Y N	Receipt Temp 0.0 °C	Temp Blank 0 N	On Ice 0 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.



Work Order Receipt Checklist

AECOM - Honolulu

B21112212

Login completed by: Leslie S. Cadreau
Reviewed by: BL2000\gmccartney
Reviewed Date: 11/30/2021

Date Received: 11/29/2021
Received by: tjg
Carrier name: FedEx

- Shipping container/cooler in good condition? Yes [x] No [] Not Present []
Custody seals intact on all shipping container(s)/cooler(s)? Yes [x] No [] Not Present []
Custody seals intact on all sample bottles? Yes [x] No [] Not Present []
Chain of custody present? Yes [x] No []
Chain of custody signed when relinquished and received? Yes [x] No []
Chain of custody agrees with sample labels? Yes [x] No []
Samples in proper container/bottle? Yes [x] No []
Sample containers intact? Yes [x] No []
Sufficient sample volume for indicated test? Yes [x] No []
All samples received within holding time? Yes [x] No []
Temp Blank received in all shipping container(s)/cooler(s)? Yes [x] No [] Not Applicable []
Container/Temp Blank temperature: °C On Ice
Water - VOA vials have zero headspace? Yes [] No [] Not Applicable [x]
Water - pH acceptable upon receipt? Yes [x] 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 Blank temperature for shipping container 1 was 0.6°C (Chain of Custody 1 of 3), shipping container 2 was 0.0°C (Chain of Custody 2 of 3) and shipping container 3 was 0.2°C (Chain of Custody 3 of 3).

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 Daylight Time.

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: B21112212-001

Collection Date: 11/24/2021 13:10

Date Received: 11/29/2021

Report Date: 12/16/2021

Client: AECOM - Honolulu
Client Sample ID: ERH1948(RHMW05)
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)	0.078	mg/L	1	J	0.30	0.14	0.037		SW8015C	12/1/2021 02:20/amn	GCFID-HP5-B_211129C : 16	161704
Diesel Range Organics (SGT-C10 to C24)	ND	mg/L	1	U	0.30	0.11	0.037		SW8015C	12/2/2021 18:09/amn	GCFID-HP5-B_211202A : 11	161704
Oil Range Hydrocarbons (C24 to C40)	0.15	mg/L	1	J	0.30	0.14	0.084		SW8015C	12/1/2021 02:20/amn	GCFID-HP5-B_211129C : 16	161704
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	mg/L	1	U	0.30	0.14	0.084		SW8015C	12/2/2021 18:09/amn	GCFID-HP5-B_211202A : 11	161704
Total Extractable Hydrocarbons	0.39	mg/L	1		0.30	0.14	0.071		SW8015C	12/1/2021 02:20/amn	GCFID-HP5-B_211129C : 16	161704
Total Extractable Hydrocarbons (SGT)	ND	mg/L	1	U	0.30	0.11	0.031		SW8015C	12/2/2021 18:09/amn	GCFID-HP5-B_211202A : 11	161704
Surr: o-Terphenyl	65.0	%REC	1		56-125				SW8015C	12/1/2021 02:20/amn	GCFID-HP5-B_211129C : 16	161704
Surr: o-Terphenyl (SGT)	63.0	%REC	1		56-125				SW8015C	12/2/2021 18:09/amn	GCFID-HP5-B_211202A : 11	161704
Surr: n-Triacontane	73.0	%REC	1		50-150				SW8015C	12/1/2021 02:20/amn	GCFID-HP5-B_211129C : 16	161704
Surr: n-Triacontane (SGT)	126.0	%REC	1		50-150				SW8015C	12/2/2021 18:09/amn	GCFID-HP5-B_211202A : 11	161704

- 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: B21112212-002

Collection Date: 11/24/2021 15:30

Date Received: 11/29/2021

Report Date: 12/16/2021

Client: AECOM - Honolulu
Client Sample ID: ERH1951(RHMW02)
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)	3.1	mg/L	1		0.30	0.15	0.038		SW8015C	12/1/2021 10:55/amn	GCFID-HP5-B_211129C : 24	161704
Diesel Range Organics (SGT-C10 to C24)	0.63	mg/L	1		0.30	0.12	0.038		SW8015C	12/2/2021 17:26/amn	GCFID-HP5-B_211202A : 10	161704
Oil Range Hydrocarbons (C24 to C40)	0.35	mg/L	1		0.30	0.15	0.086		SW8015C	12/1/2021 10:55/amn	GCFID-HP5-B_211129C : 24	161704
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	mg/L	1	U	0.30	0.15	0.086		SW8015C	12/2/2021 17:26/amn	GCFID-HP5-B_211202A : 10	161704
Total Extractable Hydrocarbons	3.5	mg/L	1		0.30	0.15	0.073		SW8015C	12/1/2021 10:55/amn	GCFID-HP5-B_211129C : 24	161704
Total Extractable Hydrocarbons (SGT)	0.65	mg/L	1		0.30	0.12	0.032		SW8015C	12/2/2021 17:26/amn	GCFID-HP5-B_211202A : 10	161704
Surr: o-Terphenyl	86.0	%REC	1		56-125				SW8015C	12/1/2021 10:55/amn	GCFID-HP5-B_211129C : 24	161704
Surr: o-Terphenyl (SGT)	78.0	%REC	1		56-125				SW8015C	12/2/2021 17:26/amn	GCFID-HP5-B_211202A : 10	161704
Surr: n-Triacontane	90.0	%REC	1		50-150				SW8015C	12/1/2021 10:55/amn	GCFID-HP5-B_211129C : 24	161704
Surr: n-Triacontane (SGT)	76.0	%REC	1		50-150				SW8015C	12/2/2021 17:26/amn	GCFID-HP5-B_211202A : 10	161704

- 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: ERH1954(RHMW03)
Project: CV18F0126/60571032.02.20.01
Matrix: Ground Water

Lab ID: B21112212-003
Collection Date: 11/24/2021 16:25
Date Received: 11/29/2021
Report Date: 12/16/2021

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)	0.13	mg/L	1	J	0.30	0.15	0.038		SW8015C	12/1/2021 00:10/amn	GCFID-HP5-B_211129C : 15	161704
Diesel Range Organics (SGT-C10 to C24)	ND	mg/L	1	U	0.30	0.12	0.038		SW8015C	12/2/2021 16:00/amn	GCFID-HP5-B_211202A : 9	161704
Oil Range Hydrocarbons (C24 to C40)	0.29	mg/L	1	J	0.30	0.15	0.086		SW8015C	12/1/2021 00:10/amn	GCFID-HP5-B_211129C : 15	161704
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	mg/L	1	U	0.30	0.15	0.086		SW8015C	12/2/2021 16:00/amn	GCFID-HP5-B_211202A : 9	161704
Total Extractable Hydrocarbons	0.47	mg/L	1		0.30	0.15	0.073		SW8015C	12/1/2021 00:10/amn	GCFID-HP5-B_211129C : 15	161704
Total Extractable Hydrocarbons (SGT)	ND	mg/L	1	U	0.30	0.12	0.032		SW8015C	12/2/2021 16:00/amn	GCFID-HP5-B_211202A : 9	161704
Surr: o-Terphenyl	88.0	%REC	1		56-125				SW8015C	12/1/2021 00:10/amn	GCFID-HP5-B_211129C : 15	161704
Surr: o-Terphenyl (SGT)	90.0	%REC	1		56-125				SW8015C	12/2/2021 16:00/amn	GCFID-HP5-B_211202A : 9	161704
Surr: n-Triacontane	93.0	%REC	1		50-150				SW8015C	12/1/2021 00:10/amn	GCFID-HP5-B_211129C : 15	161704
Surr: n-Triacontane (SGT)	88.0	%REC	1		50-150				SW8015C	12/2/2021 16:00/amn	GCFID-HP5-B_211202A : 9	161704

- 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: ERH1957(RHMW01R)
Project: CV18F0126/60571032.02.20.01
Matrix: Ground Water

Lab ID: B21112212-004
Collection Date: 11/24/2021 14:25
Date Received: 11/29/2021
Report Date: 12/16/2021

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)	0.48	mg/L	1		0.30	0.14	0.037		SW8015C	11/30/2021 23:27/amn	GCFID-HP5-B_211129C : 14	161704
Diesel Range Organics (SGT-C10 to C24)	0.11	mg/L	1	J	0.30	0.11	0.037		SW8015C	12/2/2021 15:18/amn	GCFID-HP5-B_211202A : 8	161704
Oil Range Hydrocarbons (C24 to C40)	0.22	mg/L	1	J	0.30	0.14	0.084		SW8015C	11/30/2021 23:27/amn	GCFID-HP5-B_211129C : 14	161704
Oil Range Hydrocarbons (SGT-C24 to C40)	ND	mg/L	1	U	0.30	0.14	0.084		SW8015C	12/2/2021 15:18/amn	GCFID-HP5-B_211202A : 8	161704
Total Extractable Hydrocarbons	0.74	mg/L	1		0.30	0.14	0.072		SW8015C	11/30/2021 23:27/amn	GCFID-HP5-B_211129C : 14	161704
Total Extractable Hydrocarbons (SGT)	0.14	mg/L	1	J	0.30	0.11	0.031		SW8015C	12/2/2021 15:18/amn	GCFID-HP5-B_211202A : 8	161704
Surr: o-Terphenyl	87.0	%REC	1		56-125				SW8015C	11/30/2021 23:27/amn	GCFID-HP5-B_211129C : 14	161704
Surr: o-Terphenyl (SGT)	87.0	%REC	1		56-125				SW8015C	12/2/2021 15:18/amn	GCFID-HP5-B_211202A : 8	161704
Surr: n-Triacontane	90.0	%REC	1		50-150				SW8015C	11/30/2021 23:27/amn	GCFID-HP5-B_211129C : 14	161704
Surr: n-Triacontane (SGT)	85.0	%REC	1		50-150				SW8015C	12/2/2021 15:18/amn	GCFID-HP5-B_211202A : 8	161704

- 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: B21112212-005

Collection Date: 11/24/2021 14:20

Date Received: 11/29/2021

Report Date: 12/16/2021

Client: AECOM - Honolulu
Client Sample ID: ERH1960(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)	ND	mg/L	1	U	0.30	0.14	0.037		SW8015C	11/30/2021 22:00/amn	GCFID-HP5-B_211129C : 13	161704
Oil Range Hydrocarbons (C24 to C40)	ND	mg/L	1	U	0.30	0.14	0.085		SW8015C	11/30/2021 22:00/amn	GCFID-HP5-B_211129C : 13	161704
Total Extractable Hydrocarbons	ND	mg/L	1	U	0.30	0.14	0.072		SW8015C	11/30/2021 22:00/amn	GCFID-HP5-B_211129C : 13	161704
Surr: o-Terphenyl	94.0	%REC	1		56-125				SW8015C	11/30/2021 22:00/amn	GCFID-HP5-B_211129C : 13	161704
Surr: n-Triacontane	87.0	%REC	1		50-150				SW8015C	11/30/2021 22:00/amn	GCFID-HP5-B_211129C : 13	161704

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
- Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Client Sample ID: ERH1963(RHSF Pre-Chlorination)
Project: CV18F0126/60571032.02.20.01
Matrix: Drinking Water

Lab ID: B21112212-006
Collection Date: 11/24/2021 13:50
Date Received: 11/29/2021
Report Date: 12/16/2021

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)	ND	mg/L	1	U	0.30	0.14	0.037		SW8015C	11/30/2021 21:17/amn	GCFID-HP5-B_211129C : 12	161704
Oil Range Hydrocarbons (C24 to C40)	ND	mg/L	1	U	0.30	0.14	0.083		SW8015C	11/30/2021 21:17/amn	GCFID-HP5-B_211129C : 12	161704
Total Extractable Hydrocarbons	ND	mg/L	1	U	0.30	0.14	0.071		SW8015C	11/30/2021 21:17/amn	GCFID-HP5-B_211129C : 12	161704
Surr: o-Terphenyl	91.0	%REC	1		56-125				SW8015C	11/30/2021 21:17/amn	GCFID-HP5-B_211129C : 12	161704
Surr: n-Triacontane	85.0	%REC	1		50-150				SW8015C	11/30/2021 21:17/amn	GCFID-HP5-B_211129C : 12	161704

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
 - Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Client Sample ID: ERH1965(RHSF Pre-Chlorination)
Project: CV18F0126/60571032.02.20.01
Matrix: Drinking Water

Lab ID: B21112212-007
Collection Date: 11/24/2021 13:50
Date Received: 11/29/2021
Report Date: 12/16/2021

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)	ND	mg/L	1	U	0.30	0.14	0.037		SW8015C	11/30/2021 16:14/amn	GCFID-HP5-B_211129C : 7	161704
Oil Range Hydrocarbons (C24 to C40)	ND	mg/L	1	U	0.30	0.14	0.084		SW8015C	11/30/2021 16:14/amn	GCFID-HP5-B_211129C : 7	161704
Total Extractable Hydrocarbons	ND	mg/L	1	U	0.30	0.14	0.071		SW8015C	11/30/2021 16:14/amn	GCFID-HP5-B_211129C : 7	161704
Surr: o-Terphenyl	92.0	%REC	1		56-125				SW8015C	11/30/2021 16:14/amn	GCFID-HP5-B_211129C : 7	161704
Surr: n-Triacontane	85.0	%REC	1		50-150				SW8015C	11/30/2021 16:14/amn	GCFID-HP5-B_211129C : 7	161704

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
 - Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Client Sample ID: ERH1966(RHSF Post-Chlorination)
Project: CV18F0126/60571032.02.20.01
Matrix: Drinking Water

Lab ID: B21112212-008
Collection Date: 11/24/2021 13:05
Date Received: 11/29/2021
Report Date: 12/16/2021

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)	ND	mg/L	1	U	0.30	0.14	0.037		SW8015C	11/30/2021 16:57/amn	GCFID-HP5-B_211129C : 8	161704
Oil Range Hydrocarbons (C24 to C40)	ND	mg/L	1	U	0.30	0.14	0.084		SW8015C	11/30/2021 16:57/amn	GCFID-HP5-B_211129C : 8	161704
Total Extractable Hydrocarbons	ND	mg/L	1	U	0.30	0.14	0.071		SW8015C	11/30/2021 16:57/amn	GCFID-HP5-B_211129C : 8	161704
Surr: o-Terphenyl	93.0	%REC	1		56-125				SW8015C	11/30/2021 16:57/amn	GCFID-HP5-B_211129C : 8	161704
Surr: n-Triacontane	87.0	%REC	1		50-150				SW8015C	11/30/2021 16:57/amn	GCFID-HP5-B_211129C : 8	161704

- Note: Total Extractable Hydrocarbons are defined as the total hydrocarbon responses regardless of elution time.
 - Since there were no detectable hydrocarbons, Silica Gel Treatment (SGT) results are equivalent to non-SGT results.



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21112212
Project: CV18F0126/60571032.02.20.01

Report Date: 12/16/2021

Run ID: Run Order: GCFID-HP5-B_211129C: 6 **SampType:** Method Blank **Batch ID:** 161704
Method: SW8015C **Analysis Date:** 11/30/2021 15:32 **Prep Date:** 11/29/2021 11:55
Lab ID: MB-161704 **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	0.18	0.0020	0.20		90.0	56	125				
Surr: n-Triacontane	0.084	0.0020	0.10		84.0	50	150				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

Run ID: Run Order: GCFID-HP5-B_211202A: 6 **SampType:** Method Blank **Batch ID:** 161704
Method: SW8015C **Analysis Date:** 12/02/2021 13:52 **Prep Date:** 11/29/2021 11:55
Lab ID: MB-161704 **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		94.0	56	125				
Surr: n-Triacontane (SGT)	0.084	0.0020	0.10		84.0	50	150				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21112212
Project: CV18F0126/60571032.02.20.01

Report Date: 12/16/2021

Run ID: Run Order: GCFID-HP5-B_211129C: 4 **SampType:** Laboratory Control Sample **Batch ID:** 161704
Method: SW8015C **Analysis Date:** 11/30/2021 14:07 **Prep Date:** 11/29/2021 11:55
Lab ID: LCS-161704 **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	0.19	0.0020	0.20		97.0	56	125				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

Run ID: Run Order: GCFID-HP5-B_211129C: 5 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 161704
Method: SW8015C **Analysis Date:** 11/30/2021 14:49 **Prep Date:** 11/29/2021 11:55
Lab ID: LCSD-161704 **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	13	0.2	20.0	
Total Extractable Hydrocarbons	14	0.30	15		92.0	60	132	14	0.2	20.0	
Surr: o-Terphenyl	0.20	0.0020	0.20		100.0	56	125	0.0			

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

Run ID: Run Order: GCFID-HP5-B_211129C: 31 **SampType:** Laboratory Control Sample **Batch ID:** 161704
Method: SW8015C **Analysis Date:** 12/01/2021 19:35 **Prep Date:** 11/29/2021 11:55
Lab ID: LCS-161704-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		92.0	41	113				
Surr: n-Triacontane	0.086	0.0020	0.10		86.0	50	150				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21112212
Project: CV18F0126/60571032.02.20.01

Report Date: 12/16/2021

Run ID: Run Order: GCFID-HP5-B_211129C: 32 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 161704
Method: SW8015C **Analysis Date:** 12/01/2021 21:00 **Prep Date:** 11/29/2021 11:55
Lab ID: LCSD-161704-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)	4.3	0.30	5.0		86.0	41	113	4.6	6.7	20.0	
Surr: n-Triacontane	0.080	0.0020	0.10		80.0	50	150	0.0			

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

Run ID: Run Order: GCFID-HP5-B_211202A: 4 **SampType:** Laboratory Control Sample **Batch ID:** 161704
Method: SW8015C **Analysis Date:** 12/02/2021 12:26 **Prep Date:** 11/29/2021 11:55
Lab ID: LCS-161704 **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				
Total Extractable Hydrocarbons (SGT)	13	0.30	15		89.0	60	132				
Surr: o-Terphenyl (SGT)	0.19	0.0020	0.20		97.0	56	125				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

Run ID: Run Order: GCFID-HP5-B_211202A: 5 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 161704
Method: SW8015C **Analysis Date:** 12/02/2021 13:09 **Prep Date:** 11/29/2021 11:55
Lab ID: LCSD-161704 **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		86.0	36	132	13	2.5	20.0	
Total Extractable Hydrocarbons (SGT)	14	0.30	15		91.0	60	132	13	2.2	20.0	
Surr: o-Terphenyl (SGT)	0.21	0.0020	0.20		103.0	56	125	0.0			

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21112212
Project: CV18F0126/60571032.02.20.01

Report Date: 12/16/2021

Run ID: Run Order: GCFID-HP5-B_211202A: 18 **SampType:** Laboratory Control Sample **Batch ID:** 161704
Method: SW8015C **Analysis Date:** 12/03/2021 02:01 **Prep Date:** 11/29/2021 11:55
Lab ID: LCS-161704-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		94.0	41	113				
Surr: n-Triacontane (SGT)	0.087	0.0020	0.10		87.0	50	150				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

Run ID: Run Order: GCFID-HP5-B_211202A: 19 **SampType:** Laboratory Control Sample Duplicate **Batch ID:** 161704
Method: SW8015C **Analysis Date:** 12/03/2021 03:27 **Prep Date:** 11/29/2021 11:55
Lab ID: LCSD-161704-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	6.1	20.0	
Surr: n-Triacontane (SGT)	0.080	0.0020	0.10		80.0	50	150	0.0			

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

Run ID: Run Order: GCFID-HP5-B_211129C: 27 **SampType:** Sample Matrix Spike **Batch ID:** 161704
Method: SW8015C **Analysis Date:** 12/01/2021 13:46 **Prep Date:** 11/30/2021 08:29
Lab ID: B21112214-002BMS-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)	7.9	0.88	4.9	1.9	121.0	41	113				S
Surr: n-Triacontane	0.087	0.0059	0.098	0.0	89.0	50	150				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

- TEH (Oil Range) Matrix Spike recovery was slightly above quality control limits.



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21112212
Project: CV18F0126/60571032.02.20.01

Report Date: 12/16/2021

Run ID: Run Order: GCFID-HP5-B_211129C: 26 **SampType:** Sample Duplicate **Batch ID:** 161704
Method: SW8015C **Analysis Date:** 12/01/2021 13:04 **Prep Date:** 11/30/2021 08:29
Lab ID: B21112214-002BMS **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)	520	24						714	31.0	20.0	R
Total Extractable Hydrocarbons	536	24						737	32.0	20.0	R
Surr: o-Terphenyl	0.18	0.16	0.20		91.0	50	150	0.0			

Associated Samples: **B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A**

- Because the sample amount was significantly higher than the spike amount for some analytes, the Matrix Spike sample is calculated as a Duplicate sample based on the spike amount added plus the original sample concentration for those analytes. Higher than normal RPD values appear to be sample matrix related and may indicate a non-homogenous sample matrix.

Run ID: Run Order: GCFID-HP5-B_211202A: 16 **SampType:** Sample Duplicate **Batch ID:** 161704
Method: SW8015C **Analysis Date:** 12/02/2021 23:09 **Prep Date:** 11/30/2021 08:29
Lab ID: B21112214-002BMS **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)	550	15						698	24.0	20.0	R
Total Extractable Hydrocarbons (SGT)	566	15						718	24.0	20.0	R
Surr: o-Terphenyl (SGT)	0.19	0.099				50	150	0.0			

Associated Samples: **B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A**

- Because the sample amount was significantly higher than the spike amount for some analytes, the MS spike sample is calculated as a Duplicate sample based on the spike amount added plus the original sample concentration for those analytes. Higher than normal RPD values appear to be sample matrix related and may indicate a non-homogenous sample matrix.



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21112212
Project: CV18F0126/60571032.02.20.01

Report Date: 12/16/2021

Run ID: Run Order: GCFID-HP5-B_211129C: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371049
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: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

Run ID: Run Order: GCFID-HP5-B_211129C: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371049
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: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

Run ID: Run Order: GCFID-HP5-B_211129C: 10 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371049
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: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21112212
Project: CV18F0126/60571032.02.20.01

Report Date: 12/16/2021

Run ID: Run Order: GCFID-HP5-B_211129C: 11 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371049
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
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	0.21	0.0020	0.20		103.0	80	120				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

Run ID: Run Order: GCFID-HP5-B_211129C: 19 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371049
Method: SW8015C **Analysis Date:** 12/01/2021 06:40 **Prep Date:**
Lab ID: CCV_1129HP564r-W **Units:** mg/L **Prep Method:**

Analytes	Result	LOQ	Spk value	Spk RefVal	%REC	LowLimit	HighLimit	RPD RefVal	%RPD	RPDLimit	Qual
TEH(Oil Range)	5.2	0.30	5.0		103.0	80	120				
Surr: n-Triacontane	0.21	0.0020	0.20		105.0	80	120				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

Run ID: Run Order: GCFID-HP5-B_211129C: 20 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371049
Method: SW8015C **Analysis Date:** 12/01/2021 07:23 **Prep Date:**
Lab ID: CCV_1129HP565r **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		103.0	80	120				
Total Extractable Hydrocarbons	16	0.30	15		107.0	80	120				
Surr: o-Terphenyl	0.21	0.0020	0.20		105.0	80	120				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21112212
Project: CV18F0126/60571032.02.20.01

Report Date: 12/16/2021

Run ID: Run Order: GCFID-HP5-B_211129C: 29 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371049
Method: SW8015C **Analysis Date:** 12/01/2021 17:26 **Prep Date:**
Lab ID: CCV_1129HP578r-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		99.0	80	120				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

Run ID: Run Order: GCFID-HP5-B_211129C: 30 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371049
Method: SW8015C **Analysis Date:** 12/01/2021 18:09 **Prep Date:**
Lab ID: CCV_1129HP579r **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		99.0	80	120				
Total Extractable Hydrocarbons	15	0.30	15		103.0	80	120				
Surr: o-Terphenyl	0.20	0.0020	0.20		101.0	80	120				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A, B21112212-005A, B21112212-006A, B21112212-007A, B21112212-008A

Run ID: Run Order: GCFID-HP5-B_211202A: 2 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371199
Method: SW8015C **Analysis Date:** 12/02/2021 10:18 **Prep Date:**
Lab ID: CCV_1202HP505r-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		101.0	80	120				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A



Analytical QC Summary Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21112212
Project: CV18F0126/60571032.02.20.01

Report Date: 12/16/2021

Run ID: Run Order: GCFID-HP5-B_211202A: 3 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371199
Method: SW8015C **Analysis Date:** 12/02/2021 11:01 **Prep Date:**
Lab ID: CCV_1202HP506r **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		107.0	80	120				
Surr: o-Terphenyl	0.21	0.0020	0.20		105.0	80	120				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A

Run ID: Run Order: GCFID-HP5-B_211202A: 14 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371199
Method: SW8015C **Analysis Date:** 12/02/2021 21:00 **Prep Date:**
Lab ID: CCV_1202HP520r-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	0.21	0.0020	0.20		103.0	80	120				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A

Run ID: Run Order: GCFID-HP5-B_211202A: 15 **SampType:** Continuing Calibration Verification Standard **Batch ID:** R371199
Method: SW8015C **Analysis Date:** 12/02/2021 21:43 **Prep Date:**
Lab ID: CCV_1202HP521r **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		103.0	80	120				

Associated Samples: B21112212-001A, B21112212-002A, B21112212-003A, B21112212-004A



Analytical QC Exceptions Report

Prepared by Billings, MT Branch

Client: AECOM - Honolulu
Workorder: B21112212
Project: CV18F0126/60571032.02.20.01

Report Date: 12/16/2021

Analysis Method	Analysis	Batch ID	Associated Samples	Sample Type	Lab ID	Analysis Date	Analysis Time	Analyte	%REC	Low Limit	High Limit	% RPD	RPD Limit	Qual
SW8015C	Diesel Range Organics	161704	001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A	DUP	B21112214-002BMS	12/1/2021	13:04	Diesel Range Organics (C10 to C24)				31	20.0	R
								Total Extractable Hydrocarbons				32	20.0	R
						12/2/2021	23:09	Diesel Range Organics (SGT-C10 to C24)				24	20.0	R
						Total Extractable Hydrocarbons (SGT)				24	20.0	R		
				MS-DOD	B21112214-002BMS-RRO	12/1/2021	13:46	TEH(Oil Range)	121.0	41	113		S	



Preparation and Analysis Dates Report

Work Order: B21112212

Client: AECOM - Honolulu

Project Name: CV18F0126/60571032.02.20.01

Report Date: 12/16/2021

Lab ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Method	Prep Date	Prep Batch	Analysis Method	Analysis Date
001A	ERH1948(RHMMW05)	11/24/2021 13:10	Ground Water	Diesel Range Organics		SW3520C	11/29/2021 13:55	161704	SW8015C	12/01/2021 02:20
						SW3520C	11/29/2021 13:55	161704	SW8015C	12/02/2021 18:09
002A	ERH1951(RHMMW02)	11/24/2021 15:30	Ground Water	Diesel Range Organics		SW3520C	11/29/2021 13:55	161704	SW8015C	12/01/2021 10:55
						SW3520C	11/29/2021 13:55	161704	SW8015C	12/02/2021 17:26
003A	ERH1954(RHMMW03)	11/24/2021 16:25	Ground Water	Diesel Range Organics		SW3520C	11/29/2021 13:55	161704	SW8015C	12/01/2021 00:10
						SW3520C	11/29/2021 13:55	161704	SW8015C	12/02/2021 16:00
004A	ERH1957(RHMMW01R)	11/24/2021 14:25	Ground Water	Diesel Range Organics		SW3520C	11/29/2021 13:55	161704	SW8015C	11/30/2021 23:27
						SW3520C	11/29/2021 13:55	161704	SW8015C	12/02/2021 15:18
005A	ERH1960(RHMMW2254-01)	11/24/2021 14:20	Ground Water	Diesel Range Organics		SW3520C	11/29/2021 13:55	161704	SW8015C	11/30/2021 22:00
006A	ERH1963(RHSF Pre-Chlorination)	11/24/2021 13:50	Drinking Water	Diesel Range Organics		SW3520C	11/29/2021 13:55	161704	SW8015C	11/30/2021 21:17
007A	ERH1965(RHSF Pre-Chlorination)	11/24/2021 13:50	Drinking Water	Diesel Range Organics		SW3520C	11/29/2021 13:55	161704	SW8015C	11/30/2021 16:14
008A	ERH1966(RHSF Post-Chlorination)	11/24/2021 13:05	Drinking Water	Diesel Range Organics		SW3520C	11/29/2021 13:55	161704	SW8015C	11/30/2021 16:57



Chemical Abstracts Service (CAS) Registry Numbers

Prepared by Billings, MT Branch

Client: AECOM - Honolulu

Workorder: B21112212

Project: CV18F0126/60571032.02.20.01

Report Date: 12/16/2021

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

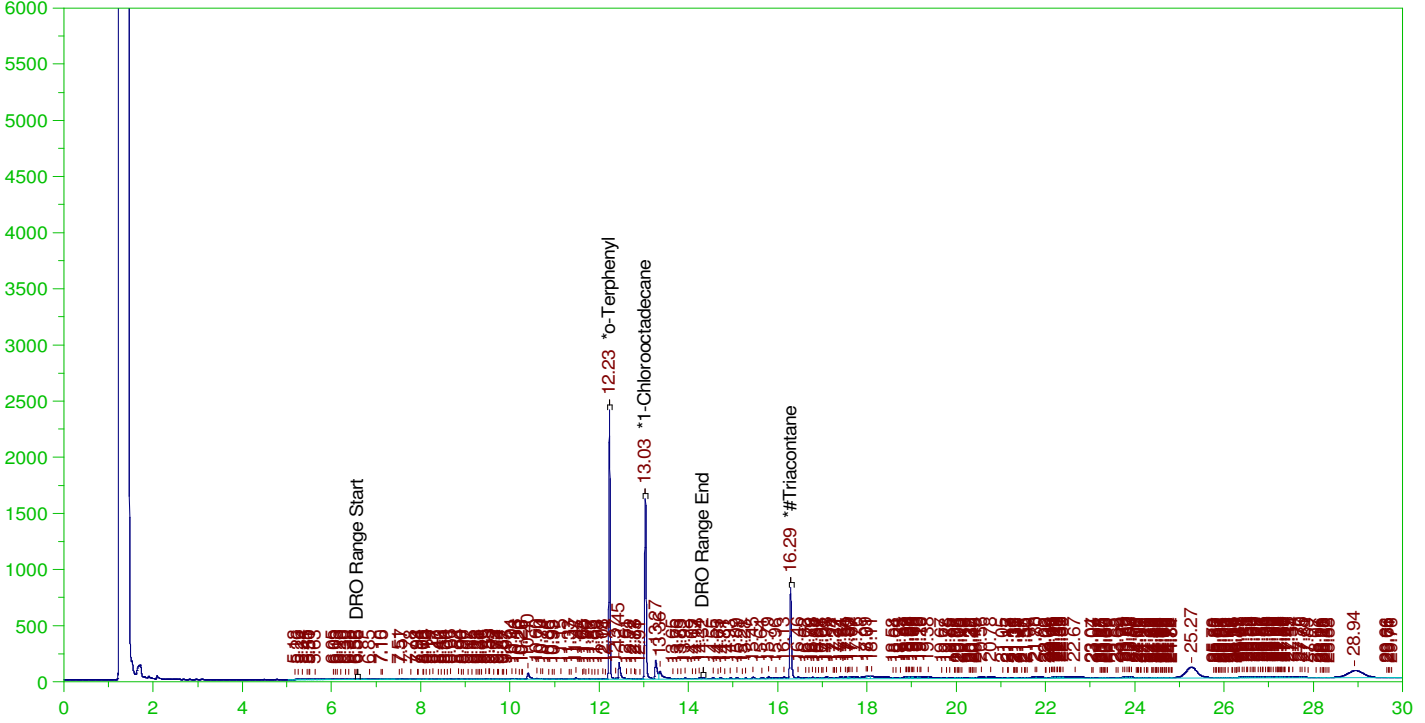
Total Extractable Hydrocarbons (SGT)

ERH1948 (RHMW05)

Batch ID: 161704

G:\Org\HP5\DAT\HP5112921_b\1129HP5.0058.RAW

B21112212-001A ; 1129HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112212-001A ; 1129HP5 , \$HC-8015-DRO-W,
Raw File: G:\Org\HP5\DAT\HP5112921_b\1129HP5.0058.RAW
Date & Time Acquired: 12/1/2021 2:20:52 AM
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: 1050 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	.19	.124	64.94	-
*1-Chlorooctadecane	13.032	.19	.096	50.62	-
*#Triacontane	16.287	.19	.072	37.99	-

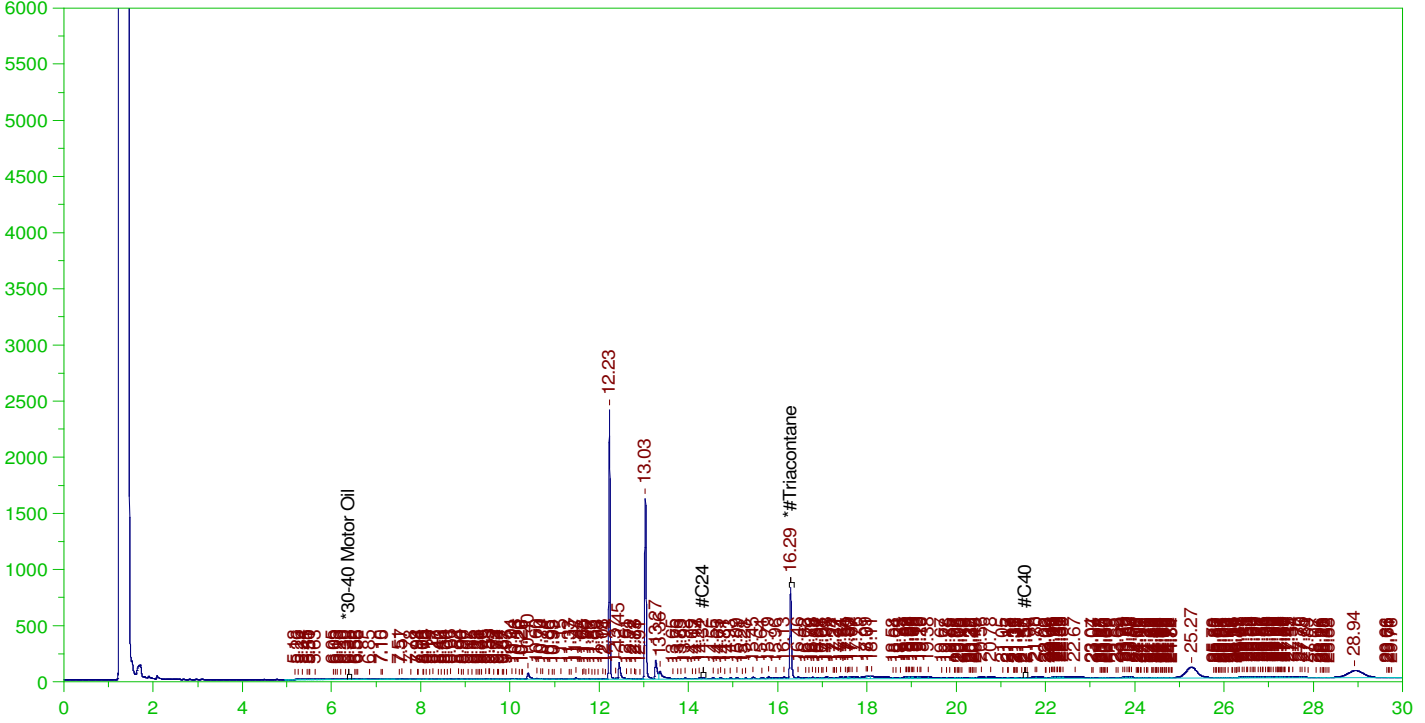
DRO Area: 2582052 DRO Amount: 0.0784321
TEH Area: 1.292859E+07 TEH Amount: 0.3927173

ERH1948 (RHMW05)

Batch ID: 161704

G:\org\HP5\DAT\HP5112921_b\1129HP5.0058.RAW

B21112212-001A ; 1129HP5 , \$HC-8015-DRO-W,

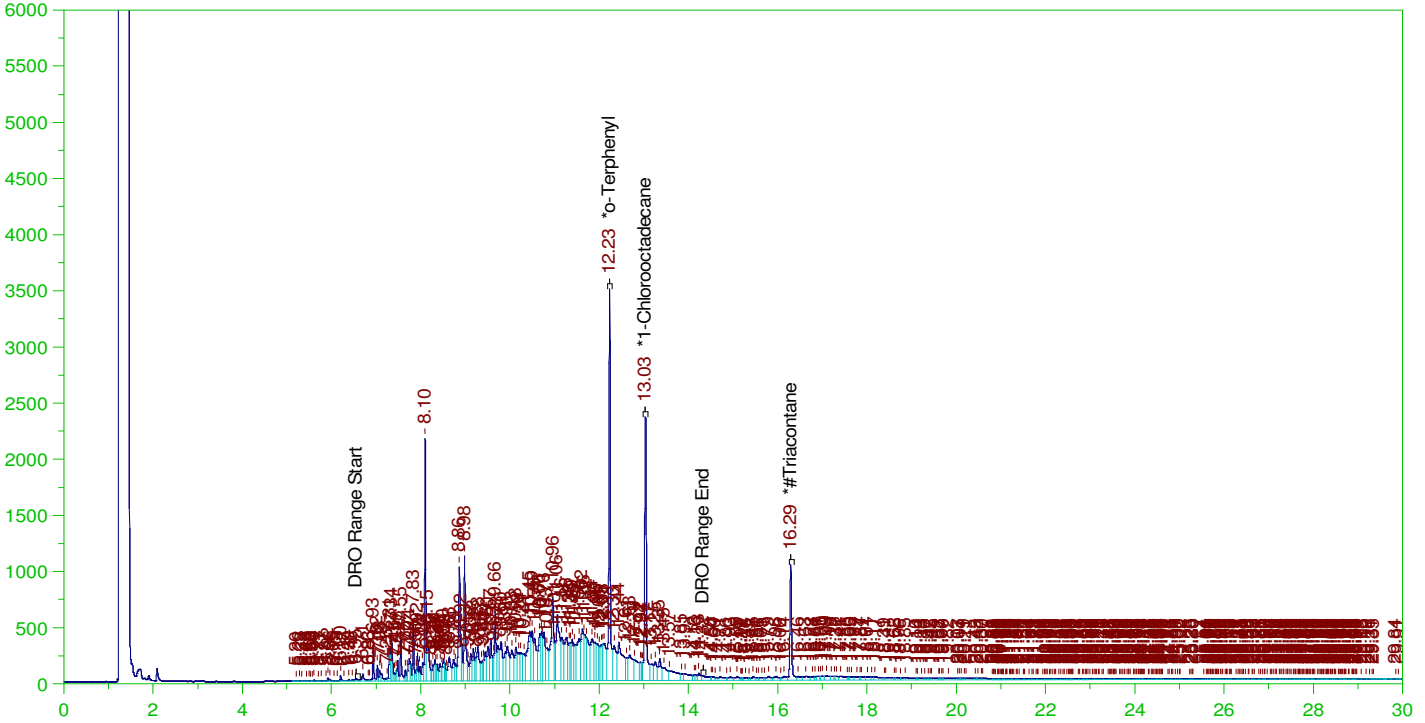


ERH1951 (RHMW02)

Batch ID: 161704

G:\org\HP5\DAT\HP5112921_b\1129HP5.0070.RAW

B21112212-002A ; 1129HP5 , \$HC-8015-DRO-W, RR



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112212-002A ; 1129HP5 , \$HC-8015-DRO-W, RR
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0070.RAW
 Date & Time Acquired: 12/1/2021 10:55:57 AM
 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: 1025 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	.195	.227	116.58	-
*1-Chlorooctadecane	13.034	.195	.17	87.01	-
*#Triacontane	16.29	.195	.101	51.52	-

DRO Area: 9.872348E+07 DRO Amount: 3.071955

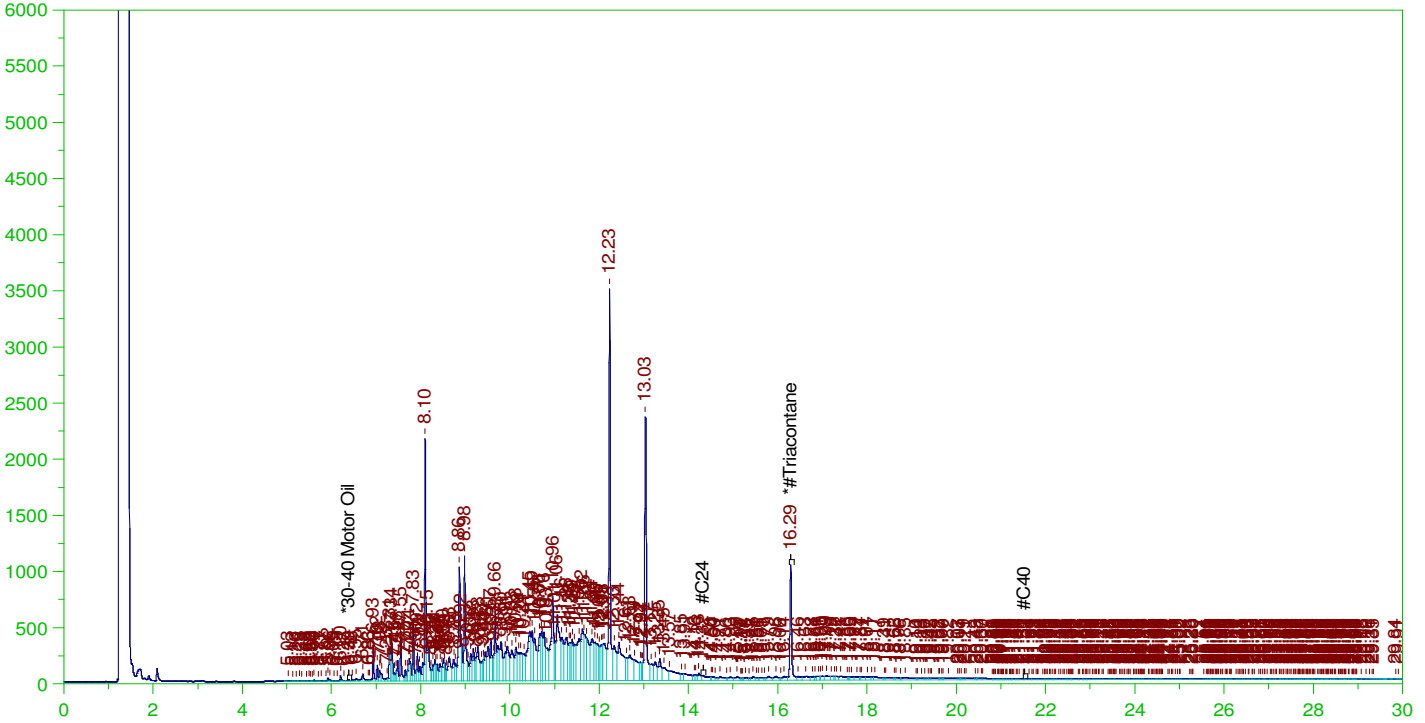
TEH Area: 1.114759E+08 TEH Amount: 3.46877

ERH1951 (RHMW02)

Batch ID: 161704

G:\org\HP5\DAT\HP5112921_b\1129HP5.0070.RAW

B21112212-002A ; 1129HP5 , \$HC-8015-DRO-W, RR



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21112212-002A ; 1129HP5 , \$HC-8015-DRO-W, RR
 Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0070.RAW
 Date & Time Acquired: 12/1/2021 10:55:57 AM
 Method File: G:\Org\HP5\Methods\D3_OROS-AFa-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
 Sample Weight: 1025 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	.488	.101	20.61

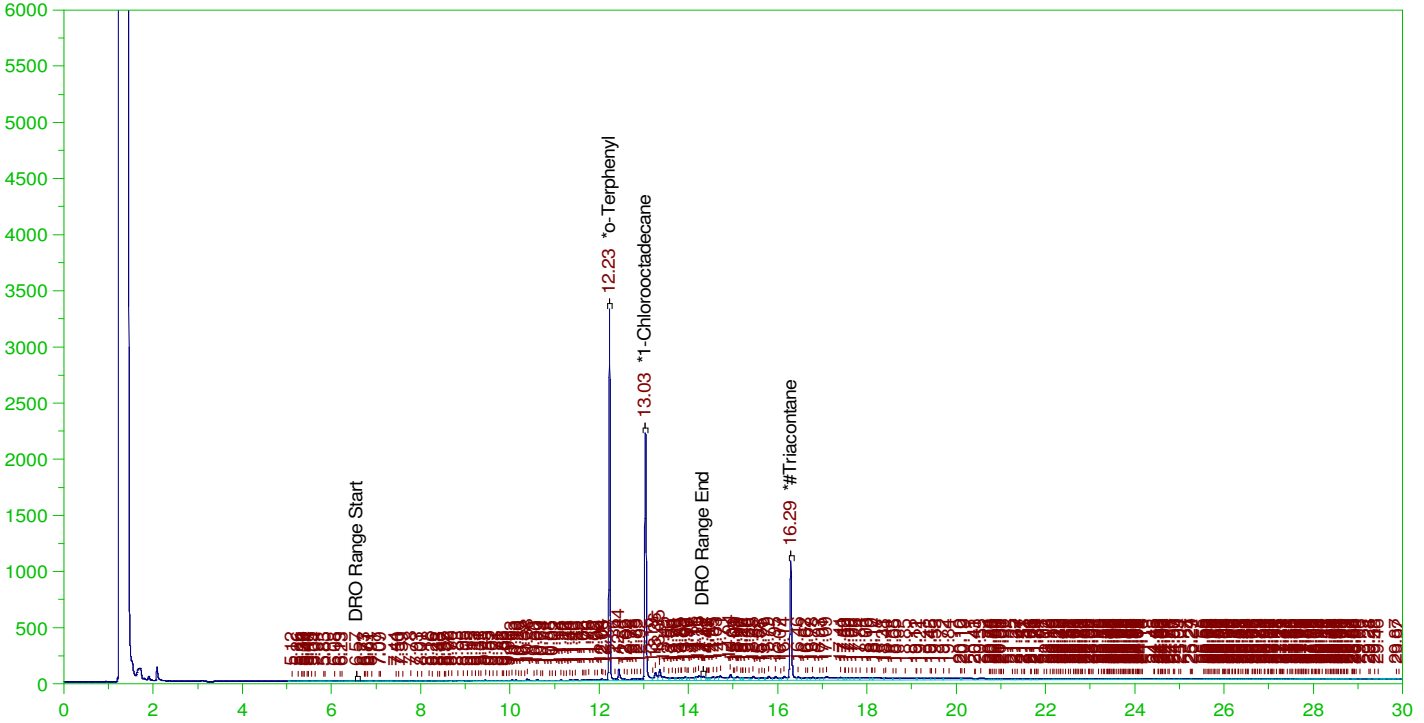
RRO Area: 1.01063E+07 RRO AMOUNT: 0.345444

ERH1954 (RHMW03)

Batch ID: 161704

G:\org\HP5\DAT\HP5112921_b\1129HP5.0055.RAW

B21112212-003A ; 1129HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112212-003A ; 1129HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0055.RAW
Date & Time Acquired: 12/1/2021 12:10:40 AM
Method File: G:\Org\HP5\Methods\D3_8015-112955-ID-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102Id-24-Tri.CAL
Sample Weight: 1025 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	.195	.174	89.11	-
*1-Chlorooctadecane	13.034	.195	.138	70.94	-
*#Triacontane	16.29	.195	.1	51.04	-

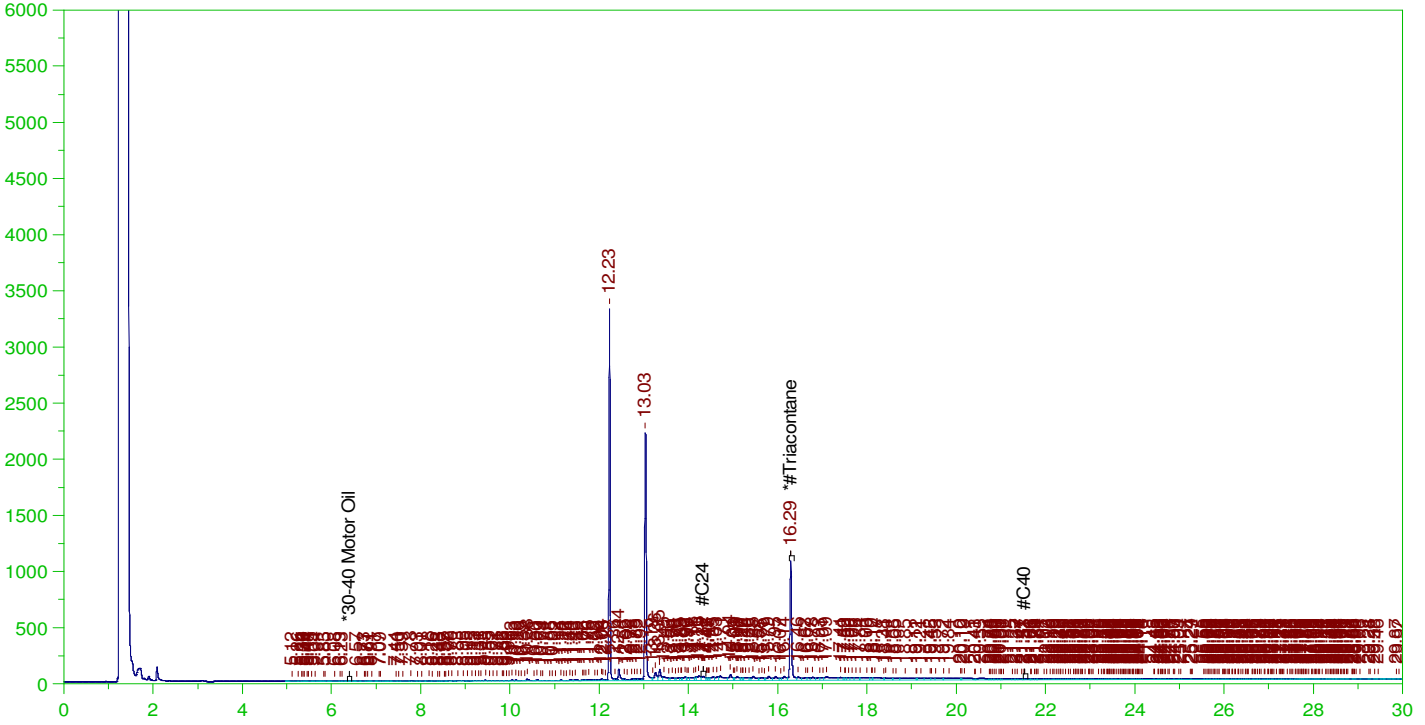
DRO Area: 4074614 DRO Amount: 0.1267888
TEH Area: 1.514317E+07 TEH Amount: 0.4712065

ERH1954 (RHMW03)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0055.RAW

Batch ID: 161704

B21112212-003A ; 1129HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21112212-003A ; 1129HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0055.RAW
Date & Time Acquired: 12/1/2021 12:10:40 AM
Method File: G:\Org\HP5\Methods\D3_OROS-112955-AFa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
Sample Weight: 1025 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	.488	.1	20.42	-

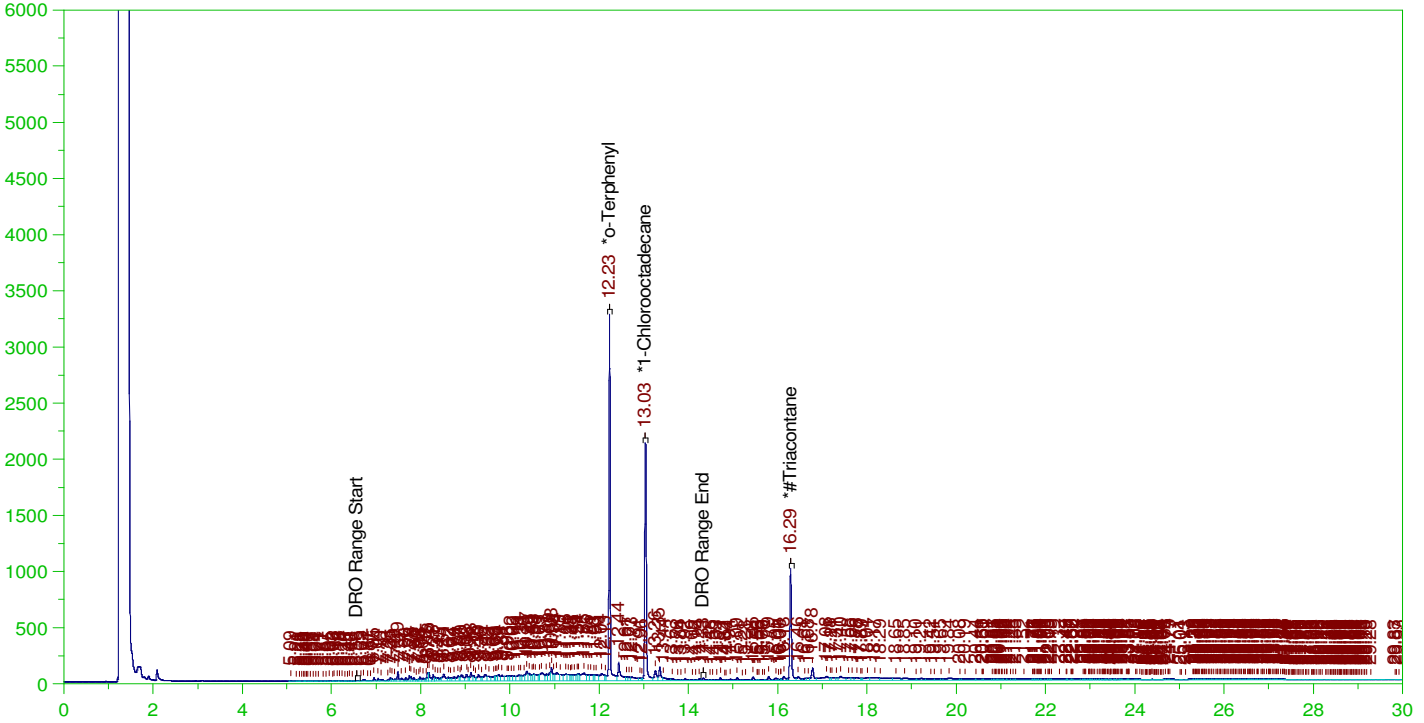
RRO Area:8593132 RRO AMOUNT: 0.2937223

ERH1957 (RHMW01R)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0054.RAW

Batch ID: 161704

B21112212-004A ; 1129HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112212-004A ; 1129HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0054.RAW
Date & Time Acquired: 11/30/2021 11:27:10 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	.182	94.84	-
*1-Chlorooctadecane	13.034	.191	.133	69.49	-
*#Triacontane	16.287	.191	.092	48.15	-

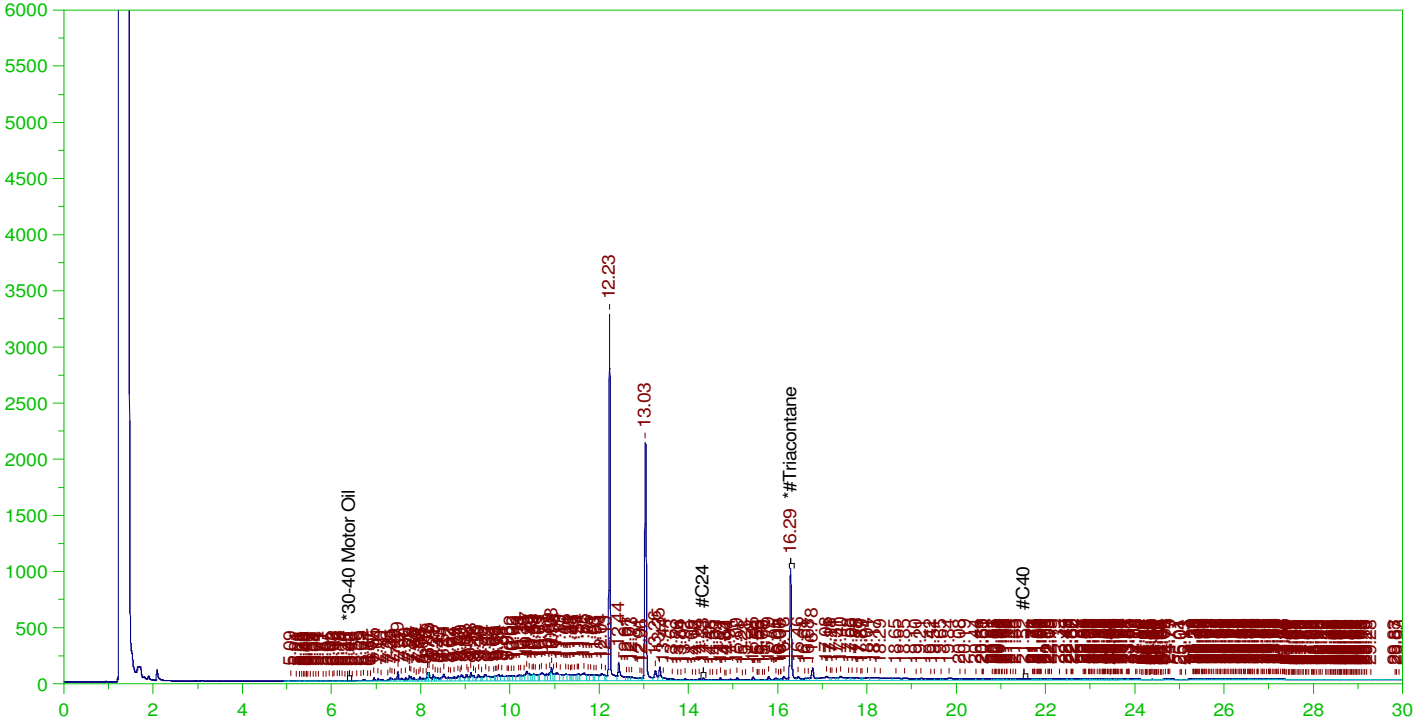
DRO Area: 1.587501E+07 DRO Amount: 0.4845246
TEH Area: 2.423701E+07 TEH Amount: 0.7397434

ERH1957 (RHMW01R)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0054.RAW

Batch ID: 161704

B21112212-004A ;1129HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21112212-004A ;1129HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0054.RAW
Date & Time Acquired: 11/30/2021 11:27:10 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	16.287	.478	.092	19.26

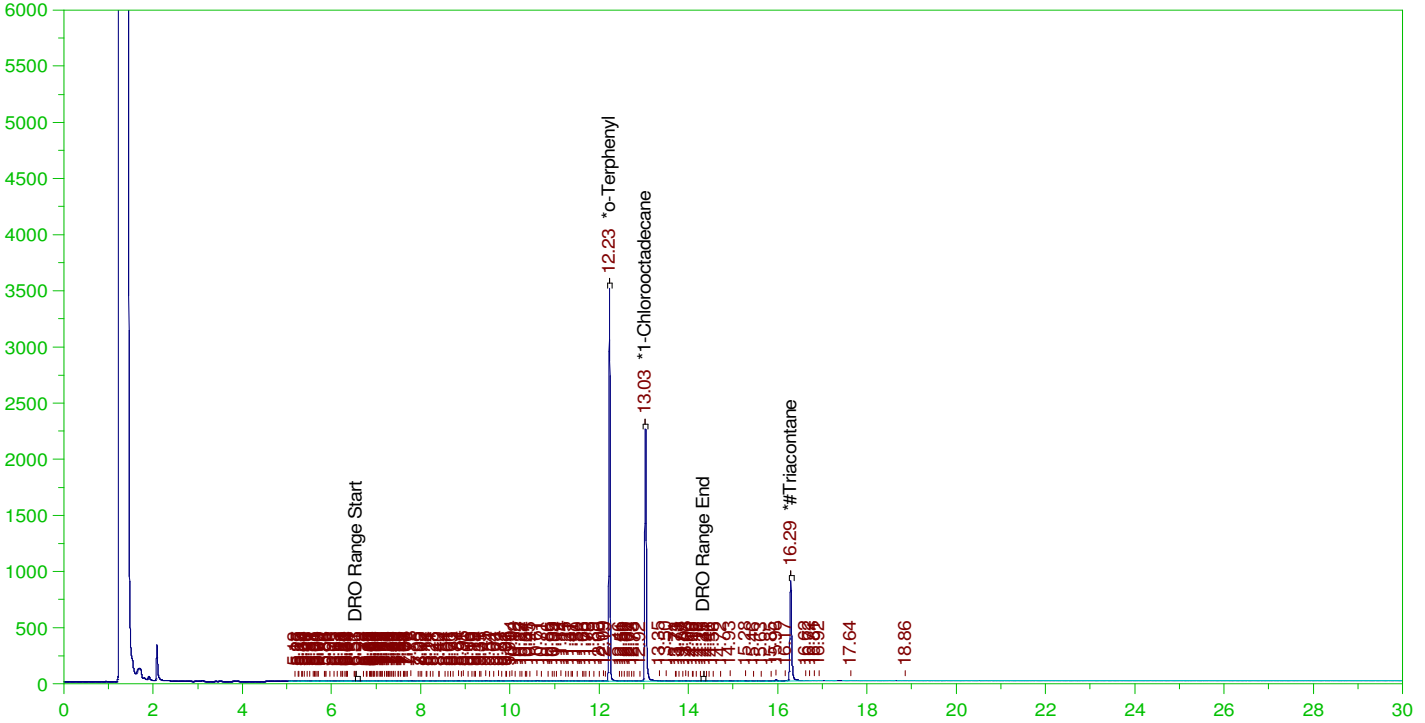
RRO Area:6472878 RRO AMOUNT: 0.2170154

ERH1960 (RHMW2254-01)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0052.RAW

Batch ID: 161704

B21112212-005A ; 1129HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112212-005A ; 1129HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0052.RAW
Date & Time Acquired: 11/30/2021 10:00:39 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	12.227	.192	.182	94.44	-
*1-Chlorooctadecane	13.035	.192	.142	73.73	-
*#Triacontane	16.289	.192	.085	44.15	-

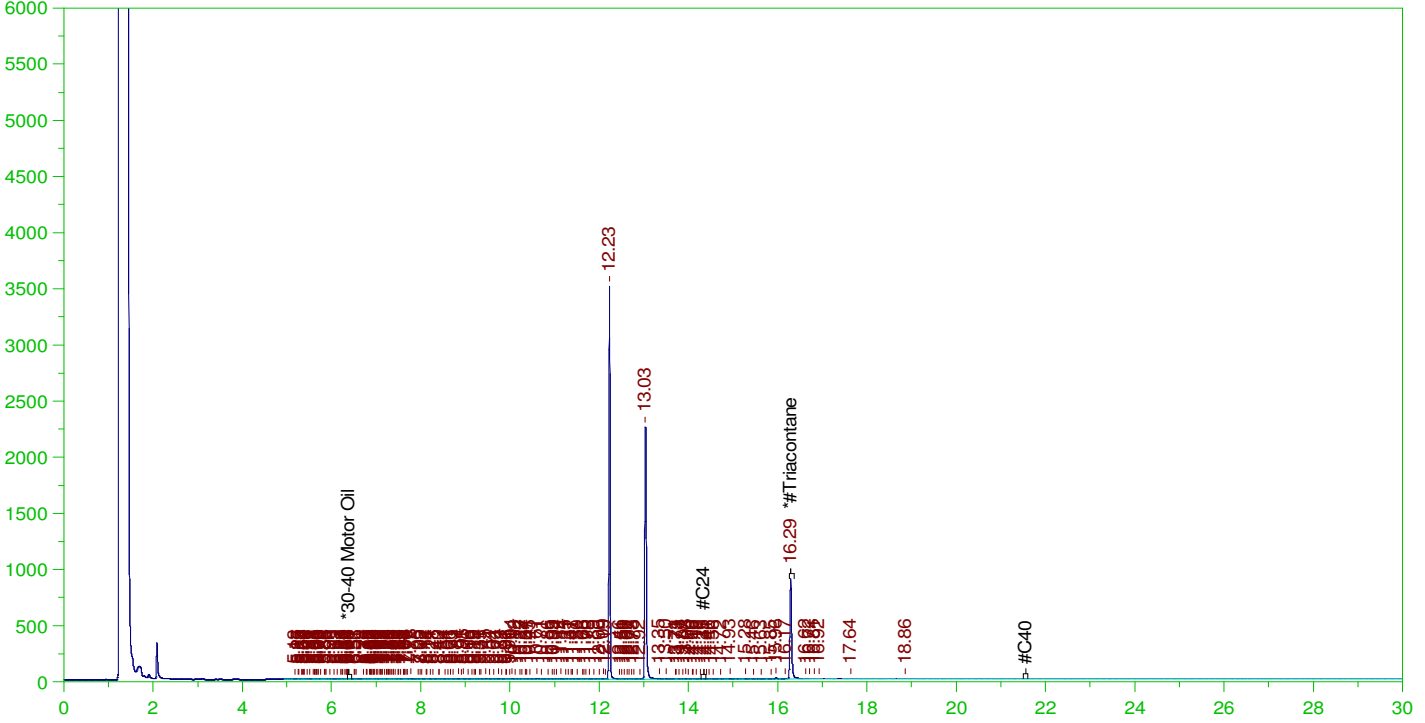
DRO Area: 986679.7 DRO Amount: 3.025945E-02
TEH Area: 1174783 TEH Amount: 3.602819E-02

ERH1960 (RHMW2254-01)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0052.RAW

Batch ID: 161704

B21112212-005A ; 1129HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21112212-005A ; 1129HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0052.RAW
Date & Time Acquired: 11/30/2021 10:00:39 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	16.289	.481	.085	17.66

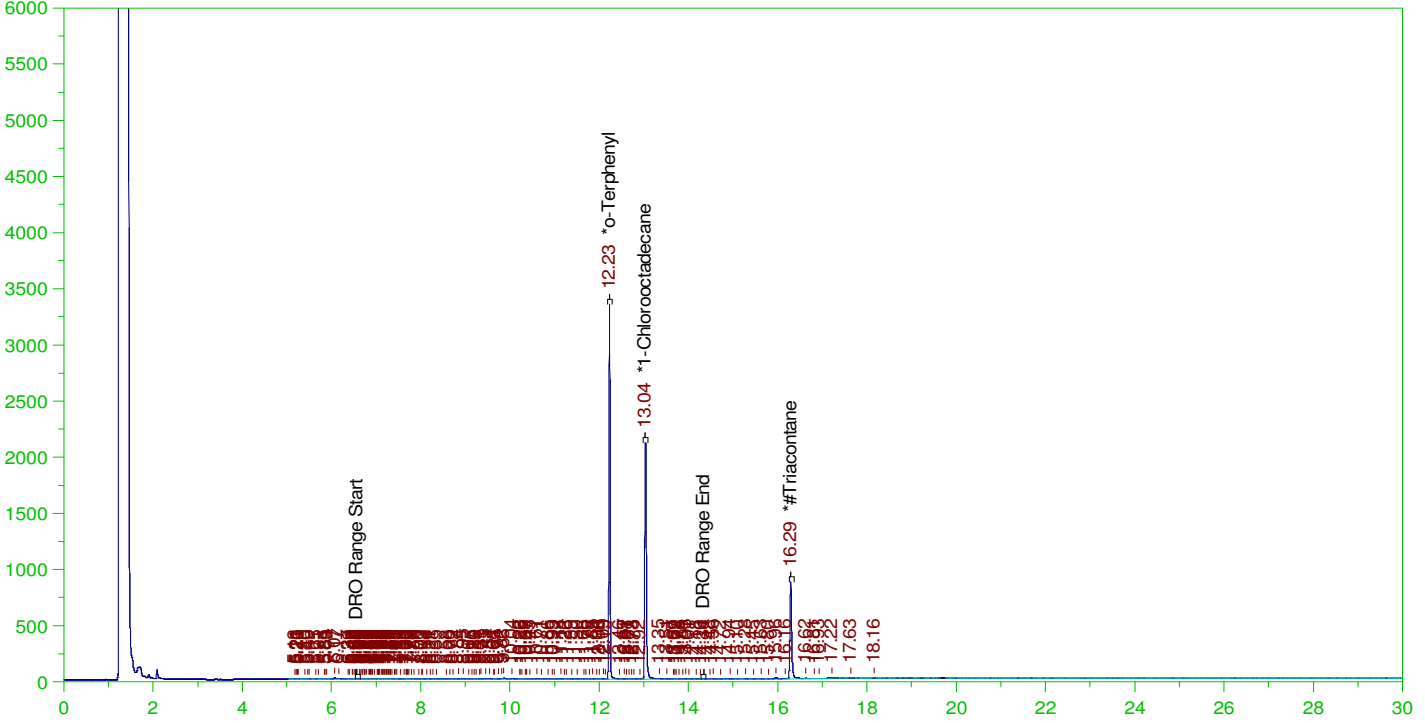
RRO Area:130779.7 RRO AMOUNT: 4.405713E-03

ERH1963 (RHSF Pre-Chlorination)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0051.RAW

Batch ID: 161704

B21112212-006A ; 1129HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112212-006A ; 1129HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0051.RAW
Date & Time Acquired: 11/30/2021 9:17:31 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: 1060 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	.189	.172	90.9	-
*1-Chlorooctadecane	13.035	.189	.13	69.16	-
*#Triacontane	16.289	.189	.081	43.02	-

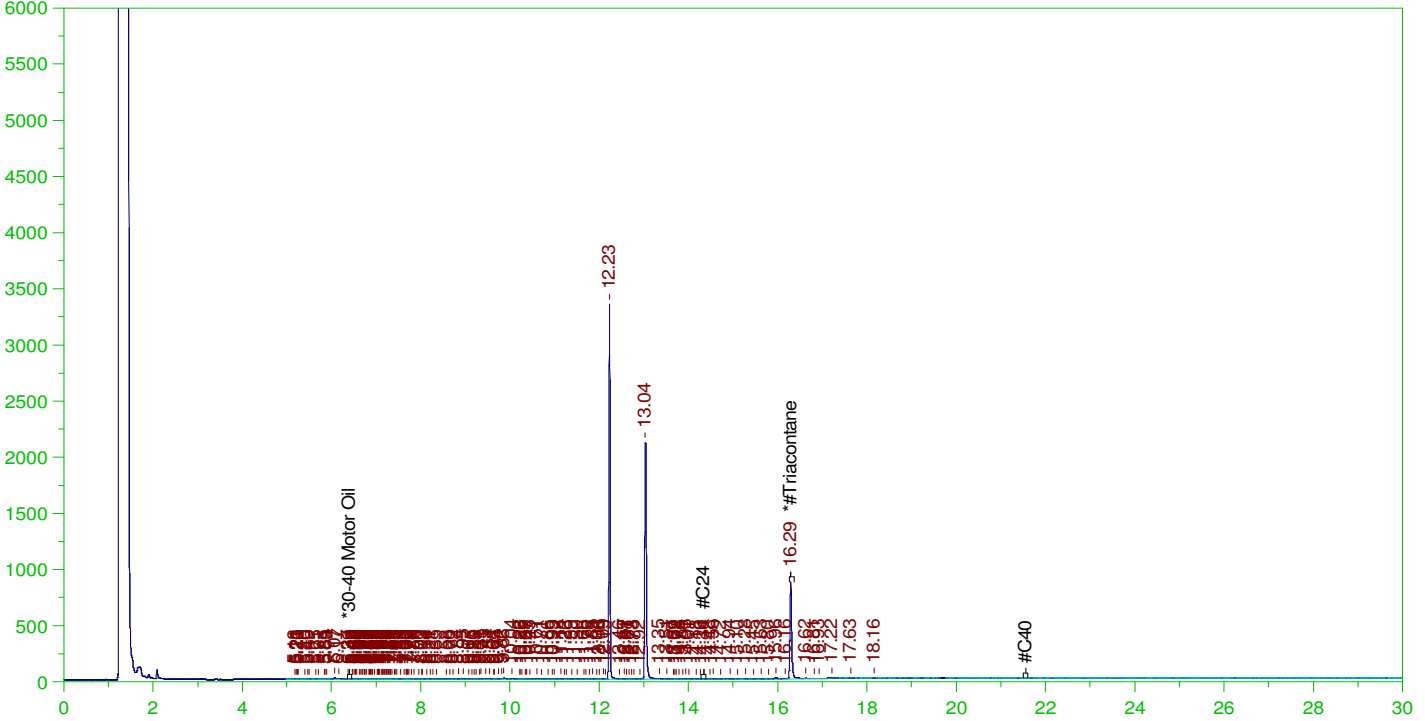
DRO Area: 852508.9 DRO Amount: 2.565141E-02
TEH Area: 1129381 TEH Amount: 3.398229E-02

ERH1963 (RHSF Pre-Chlorination)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0051.RAW

Batch ID: 161704

B21112212-006A ; 1129HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21112212-006A ; 1129HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0051.RAW
Date & Time Acquired: 11/30/2021 9:17:31 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AFa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
Sample Weight: 1060 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	.472	.081	17.21

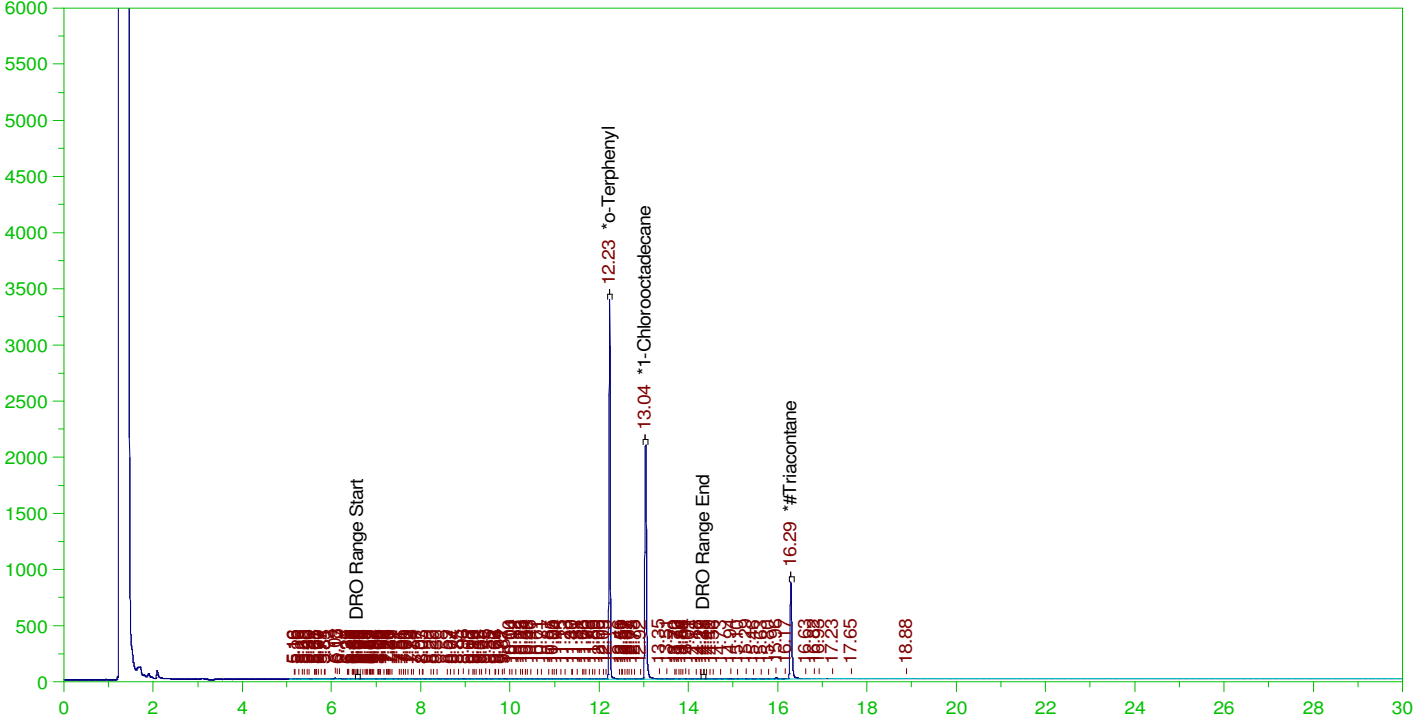
RRO Area:134884.3 RRO AMOUNT: 4.458253E-03

ERH1965 (RHSF Pre-Chlorination)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0044.RAW

Batch ID: 161704

B21112212-007A ; 1129HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112212-007A ; 1129HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0044.RAW
Date & Time Acquired: 11/30/2021 4:14:55 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: 1050 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	.19	.175	91.82	-
*1-Chlorooctadecane	13.037	.19	.134	70.38	-
*#Triacontane	16.293	.19	.082	43.2	-

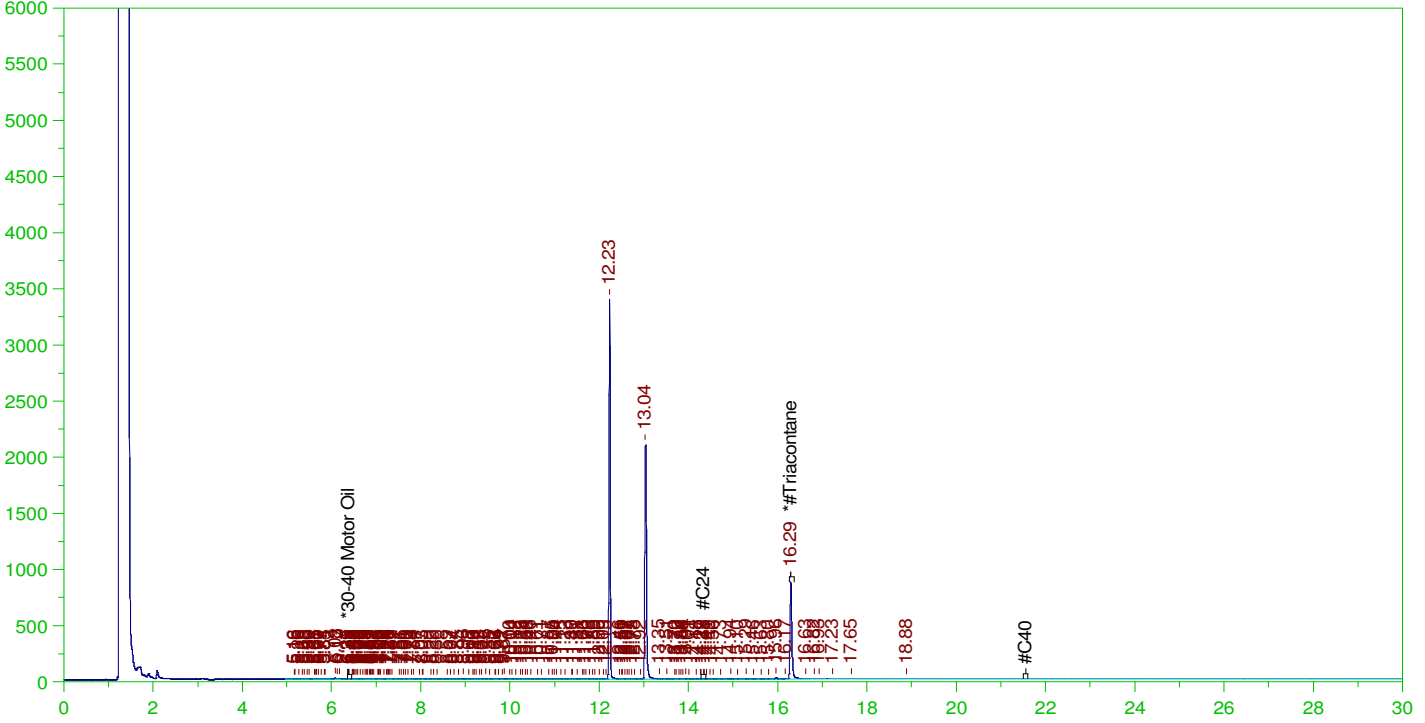
DRO Area: 602725 DRO Amount: 1.830831E-02
TEH Area: 883182.1 TEH Amount: 2.682744E-02

ERH1965 (RHSF Pre-Chlorination)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0044.RAW

Batch ID: 161704

B21112212-007A ; 1129HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21112212-007A ; 1129HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0044.RAW
Date & Time Acquired: 11/30/2021 4:14:55 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AFa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
Sample Weight: 1050 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	.476	.082	17.28

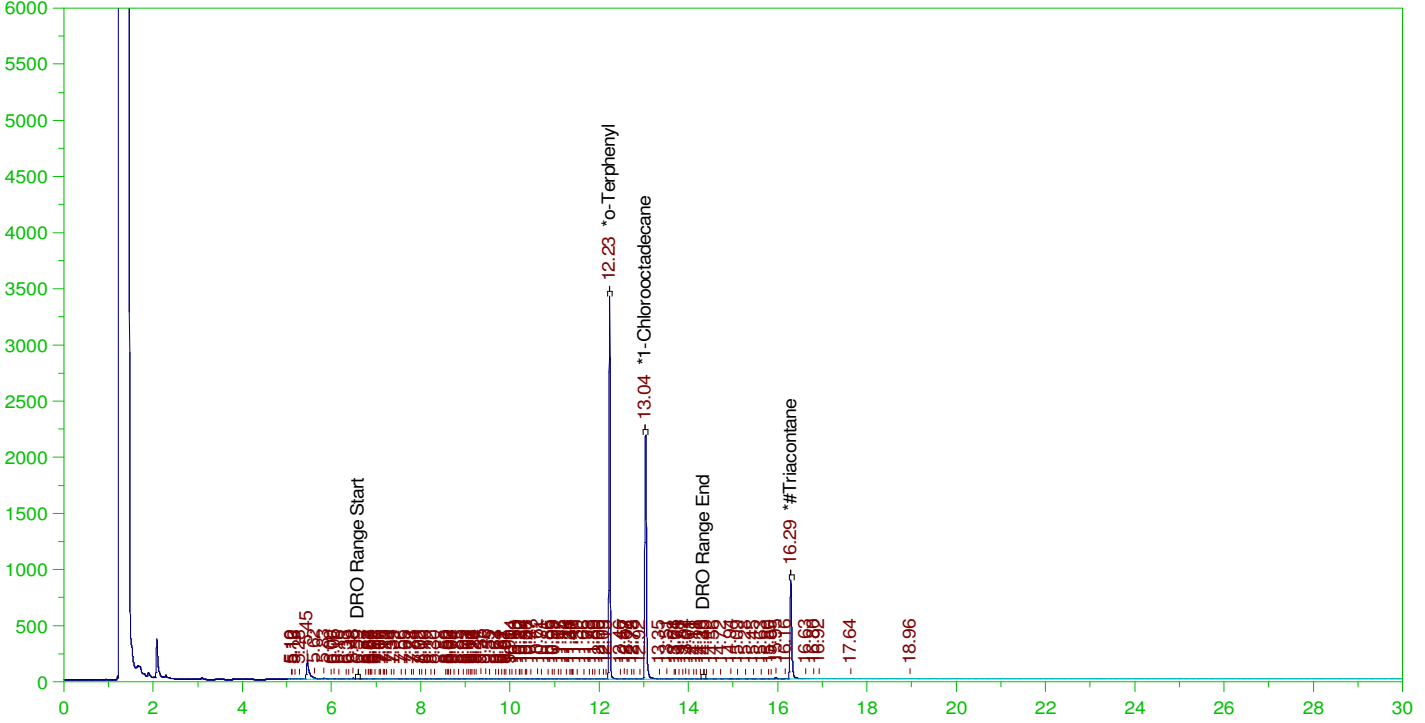
RRO Area:135764.1 RRO AMOUNT: 4.530071E-03

ERH1966 (RHSF Pre-Chlorination)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0045.RAW

Batch ID: 161704

B21112212-008A ; 1129HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112212-008A ; 1129HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0045.RAW
Date & Time Acquired: 11/30/2021 4:57:33 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: 1050 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	.19	.177	93.11	-
*1-Chlorooctadecane	13.037	.19	.139	72.89	-
*#Triacontane	16.291	.19	.084	44.02	-

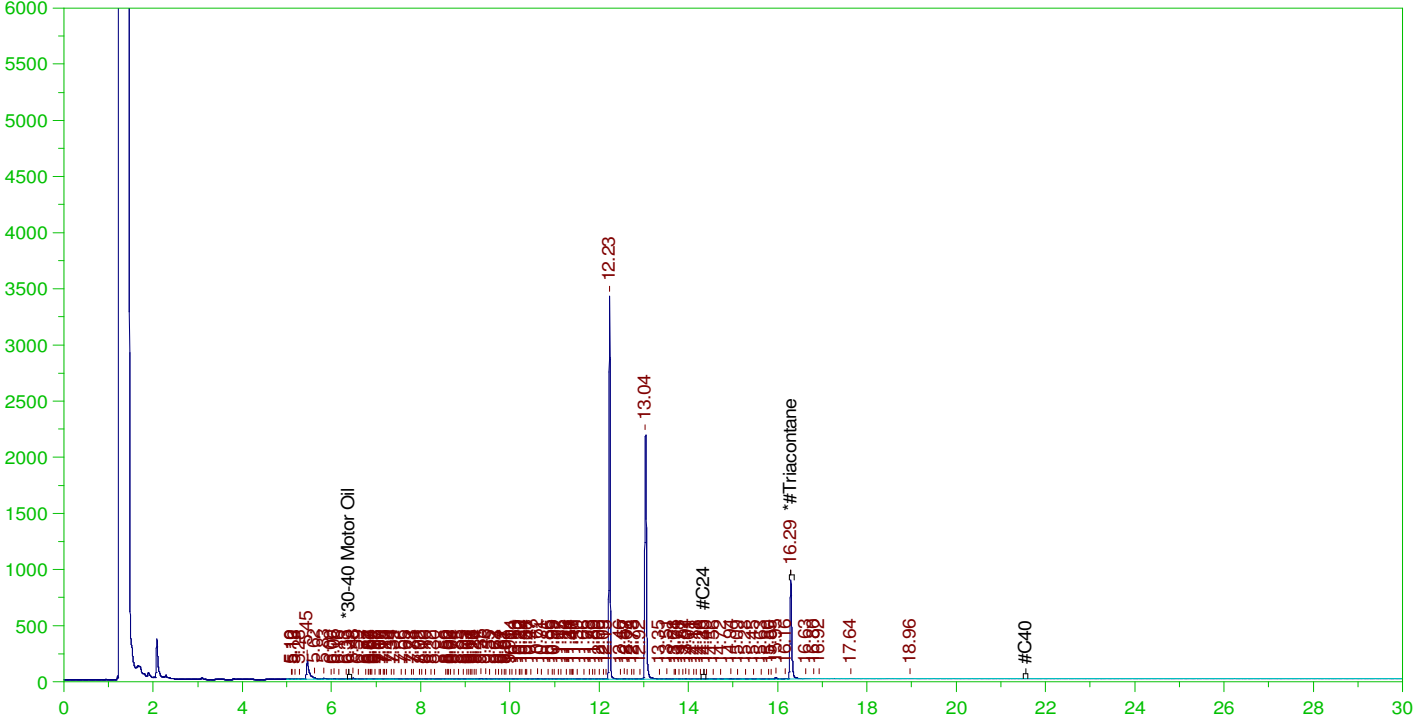
DRO Area: 632759.6 DRO Amount: 1.922063E-02
TEH Area: 1776400 TEH Amount: 5.395973E-02

ERH1966 (RHSF Pre-Chlorination)

G:\org\HP5\DAT\HP5112921_b\1129HP5.0045.RAW

Batch ID: 161704

B21112212-008A ; 1129HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21112212-008A ; 1129HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5112921_b\1129HP5.0045.RAW
Date & Time Acquired: 11/30/2021 4:57:33 PM
Method File: G:\Org\HP5\Methods\DR_OROS-AFa-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AFa-SAMP.CAL
Sample Weight: 1050 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	16.291	.476	.084	17.61

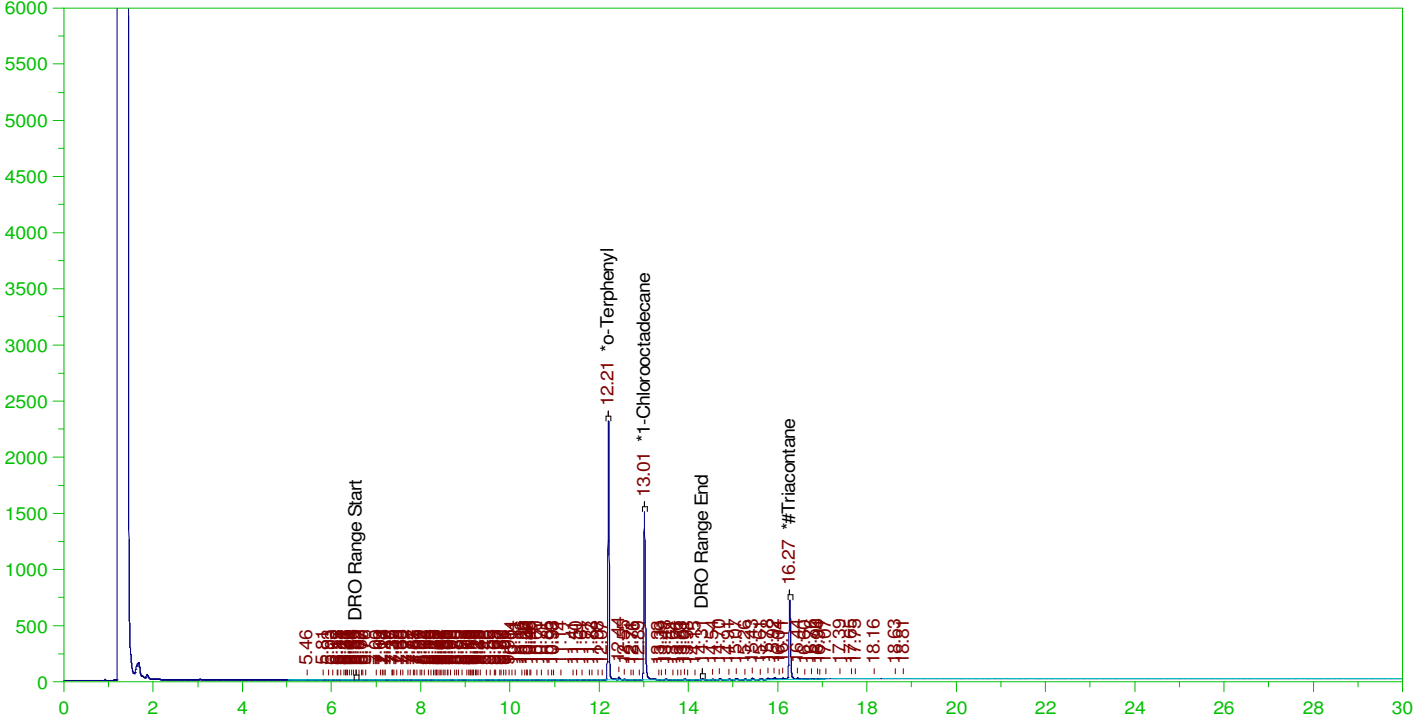
RRO Area:149694.3 RRO AMOUNT: 4.994883E-03

ERH1948 (RHMW05)

G:\org\HP5\DAT\HP5120221_b\1202HP5.0016.RAW

Batch ID: 161704

B21112212-001A ;1202HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112212-001A ;1202HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5120221_b\1202HP5.0016.RAW
 Date & Time Acquired: 12/2/2021 6:09:21 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: 1050 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	12.205	.19	.12	63.24	-
*1-Chlorooctadecane	13.012	.19	.095	50.05	-
*#Triacontane	16.268	.19	.064	33.55	-

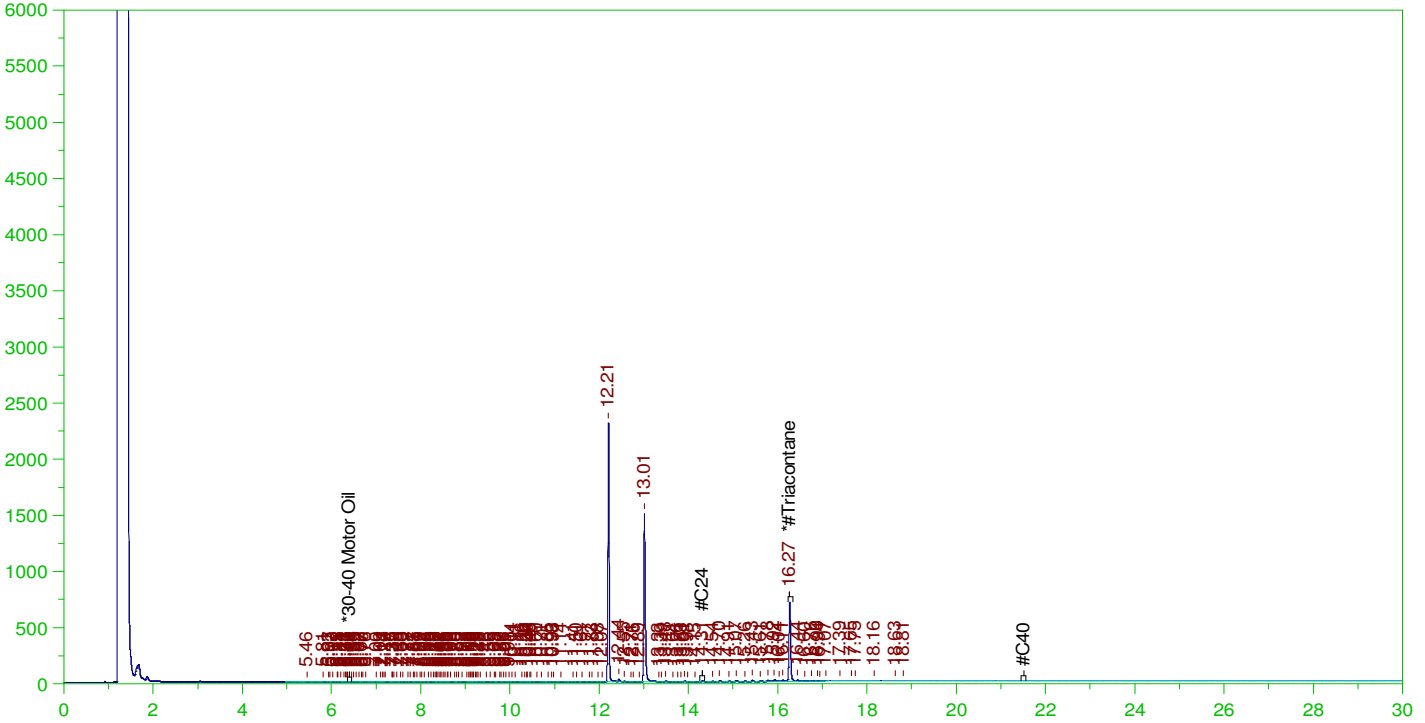
DRO Area:377022.7 DRO Amount: 0.0114524
 TEH Area:762180.3 TEH Amount: 0.0231519

ERH1948 (RHMW05)

Batch ID: 161704

G:\org\HP5\DAT\HP5120221_b\1202HP5.0016.RAW

B21112212-001A ;1202HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21112212-001A ;1202HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5120221_b\1202HP5.0016.RAW
 Date & Time Acquired: 12/2/2021 6:09:21 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AG-SAMP.CAL
 Sample Weight: 1050 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	16.268	.476	.064	13.42

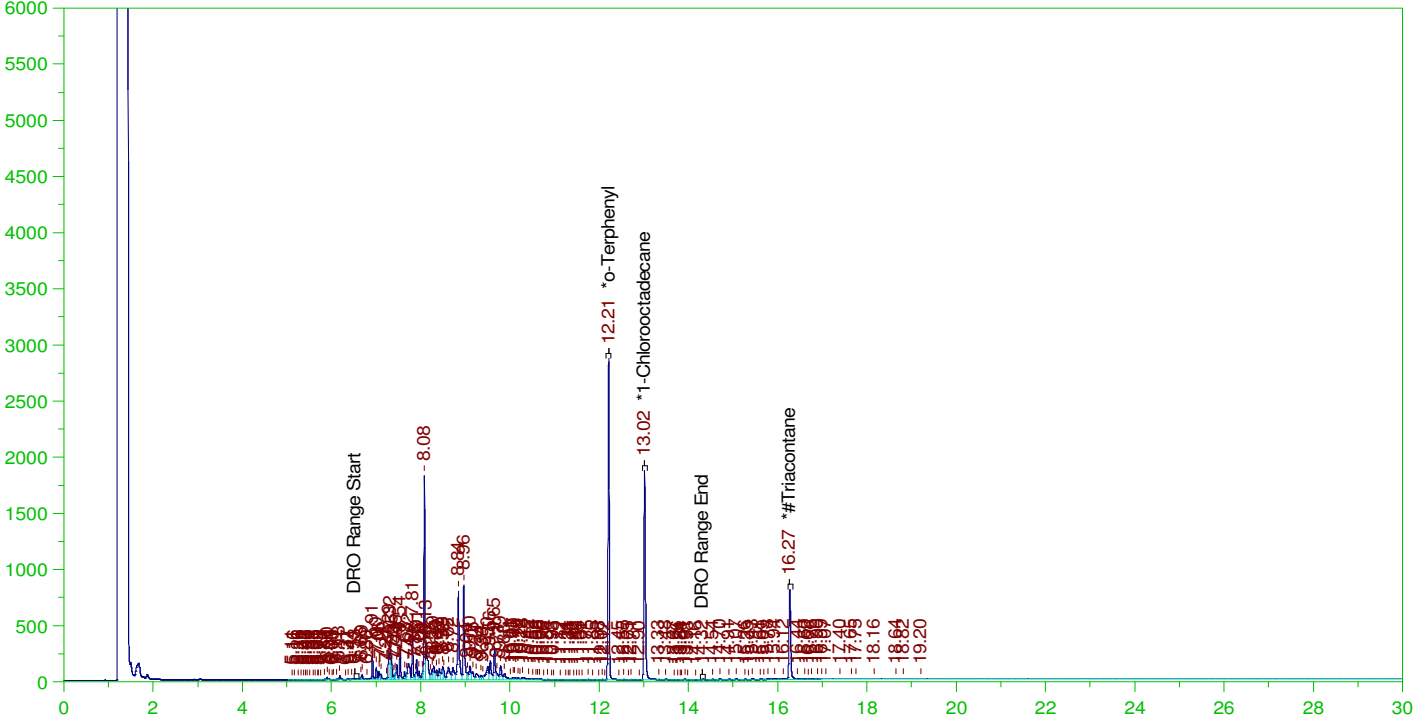
RRO Area:378345.7 RRO AMOUNT: 1.262435E-02

ERH1951 (RHMW02)

G:\Org\HP5\DAT\HP5120221_b\1202HP5.0015.RAW

Batch ID: 161704

B21112212-002A ;1202HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112212-002A ;1202HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\Org\HP5\DAT\HP5120221_b\1202HP5.0015.RAW
 Date & Time Acquired: 12/2/2021 5:26:34 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: 1025 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	.195	.152	78.1	-
*1-Chlorooctadecane	13.015	.195	.118	60.68	-
*#Triacontane	16.268	.195	.074	37.93	-

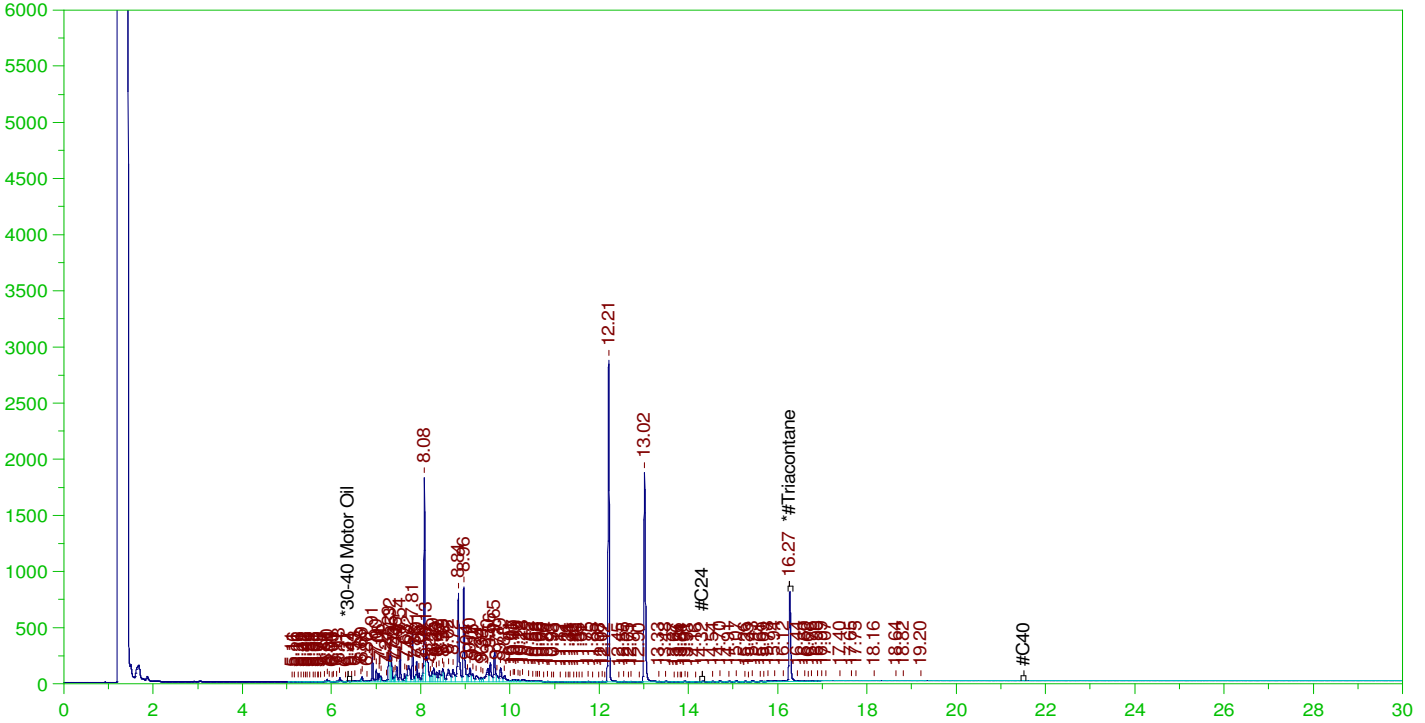
DRO Area: 2.024606E+07 DRO Amount: 0.6299918
 TEH Area: 2.08578E+07 TEH Amount: 0.649027

ERH1951 (RHMW02)

G:\org\HP5\DAT\HP5120221_b\1202HP5.0015.RAW

Batch ID: 161704

B21112212-002A ;1202HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21112212-002A ;1202HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5120221_b\1202HP5.0015.RAW
 Date & Time Acquired: 12/2/2021 5:26:34 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AG-SAMP.CAL
 Sample Weight: 1025 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	16.268	.488	.074	15.17

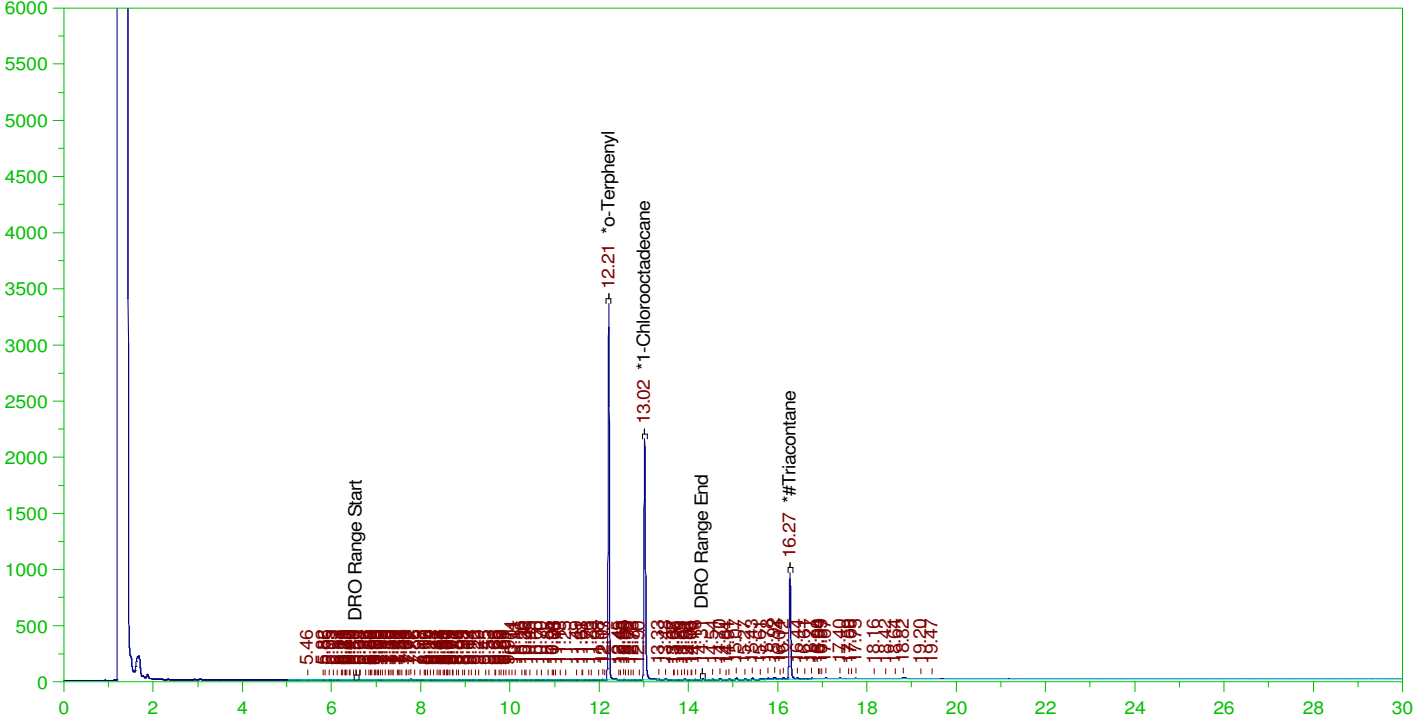
RRO Area:314705.3 RRO AMOUNT: 1.075696E-02

ERH1954 (RHMW03)

Batch ID: 161704

G:\org\HP5\DAT\HP5120221_b\1202HP5.0013.RAW

B21112212-003A ;1202HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112212-003A ;1202HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5120221_b\1202HP5.0013.RAW
 Date & Time Acquired: 12/2/2021 4:00:52 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: 1025 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	12.21	.195	.177	90.76	-
*1-Chlorooctadecane	13.017	.195	.137	70.01	-
*#Triacontane	16.272	.195	.087	44.36	-

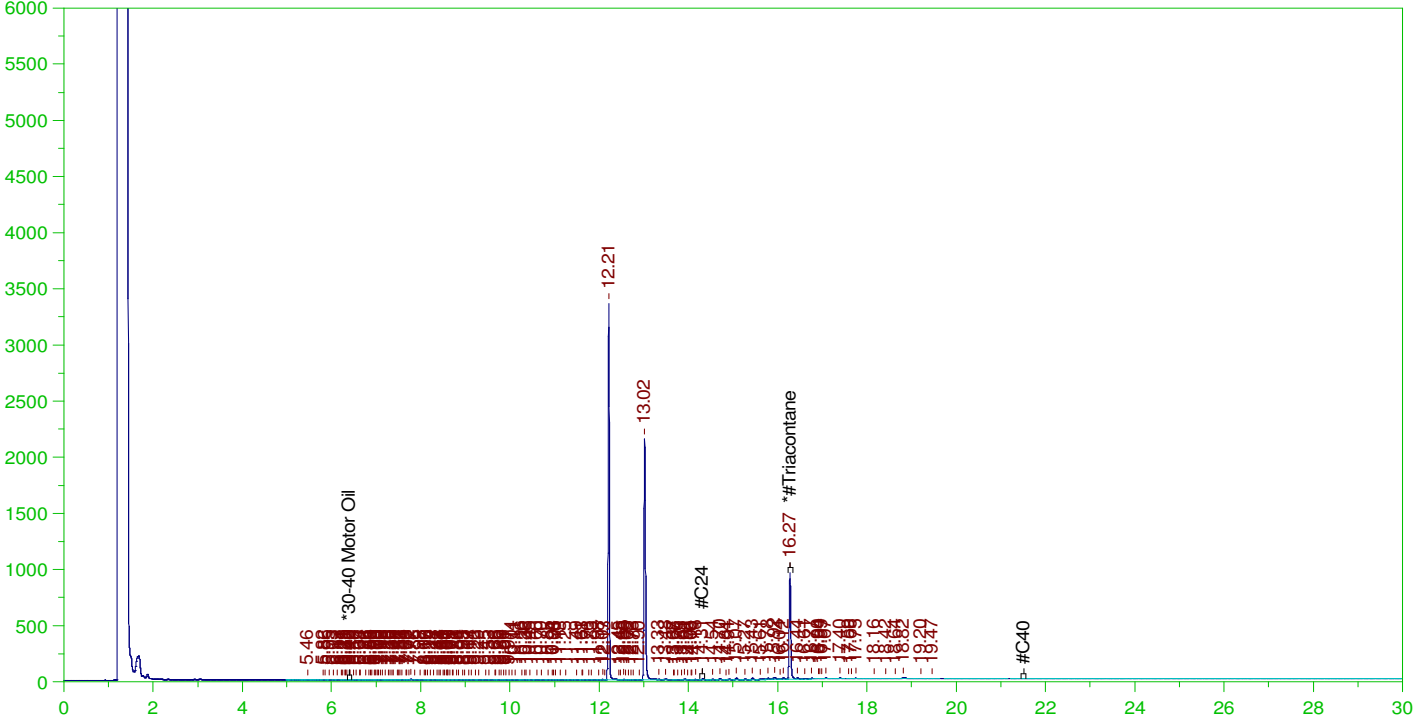
DRO Area:365919.9 DRO Amount: 1.138624E-02
 TEH Area:828937.3 TEH Amount: 2.579384E-02

ERH1954 (RHMW03)

G:\org\HP5\DAT\HP5120221_b\1202HP5.0013.RAW

Batch ID: 161704

B21112212-003A ;1202HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21112212-003A ;1202HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5120221_b\1202HP5.0013.RAW
 Date & Time Acquired: 12/2/2021 4:00:52 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AG-SAMP.CAL
 Sample Weight: 1025 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	16.272	.488	.087	17.74

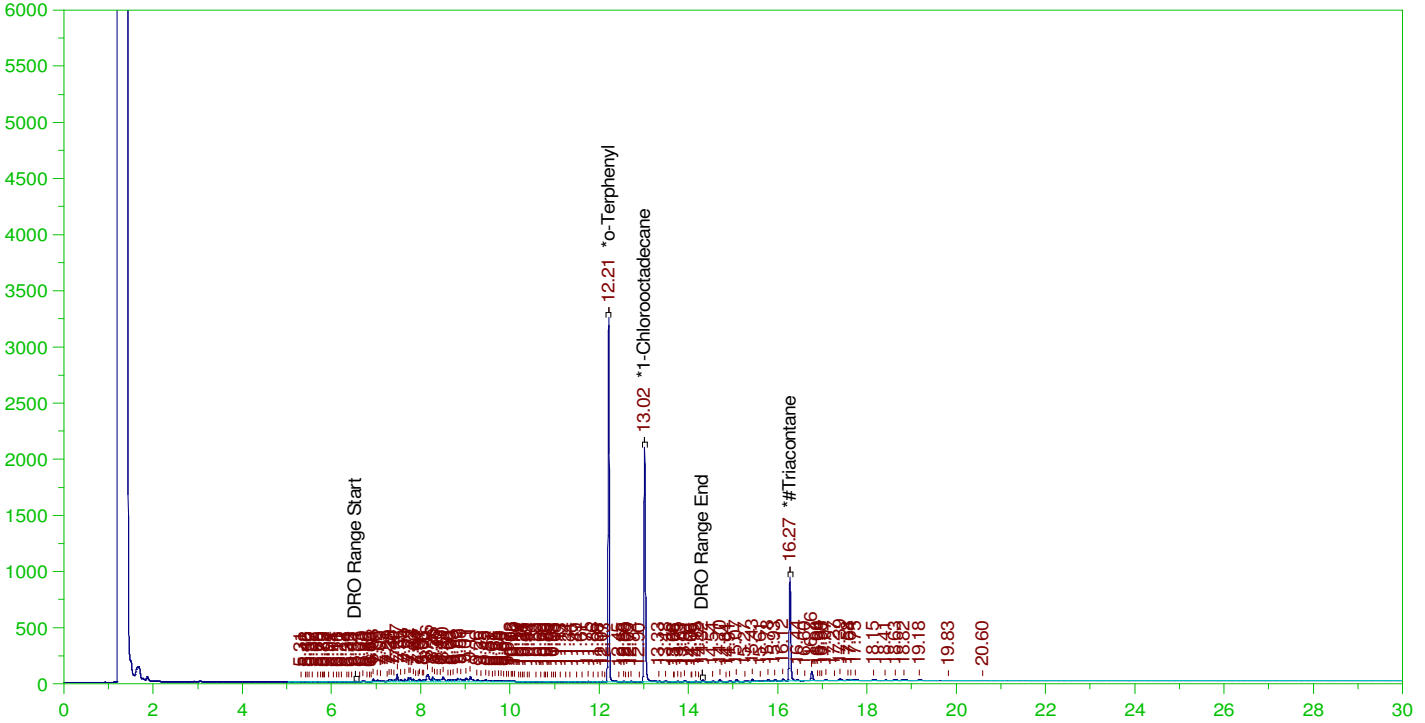
RRO Area:455034.8 RRO AMOUNT: 1.555357E-02

ERH1957 (RHMW01R)

Batch ID: 161704

G:\org\HP5\DAT\HP5120221_b\1202HP5.0012.RAW

B21112212-004A ;1202HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B21112212-004A ;1202HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5120221_b\1202HP5.0012.RAW
 Date & Time Acquired: 12/2/2021 3:18:07 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: 1045 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	.191	.167	87.48	-
*1-Chlorooctadecane	13.015	.191	.128	66.67	-
*#Triacontane	16.271	.191	.082	42.89	-

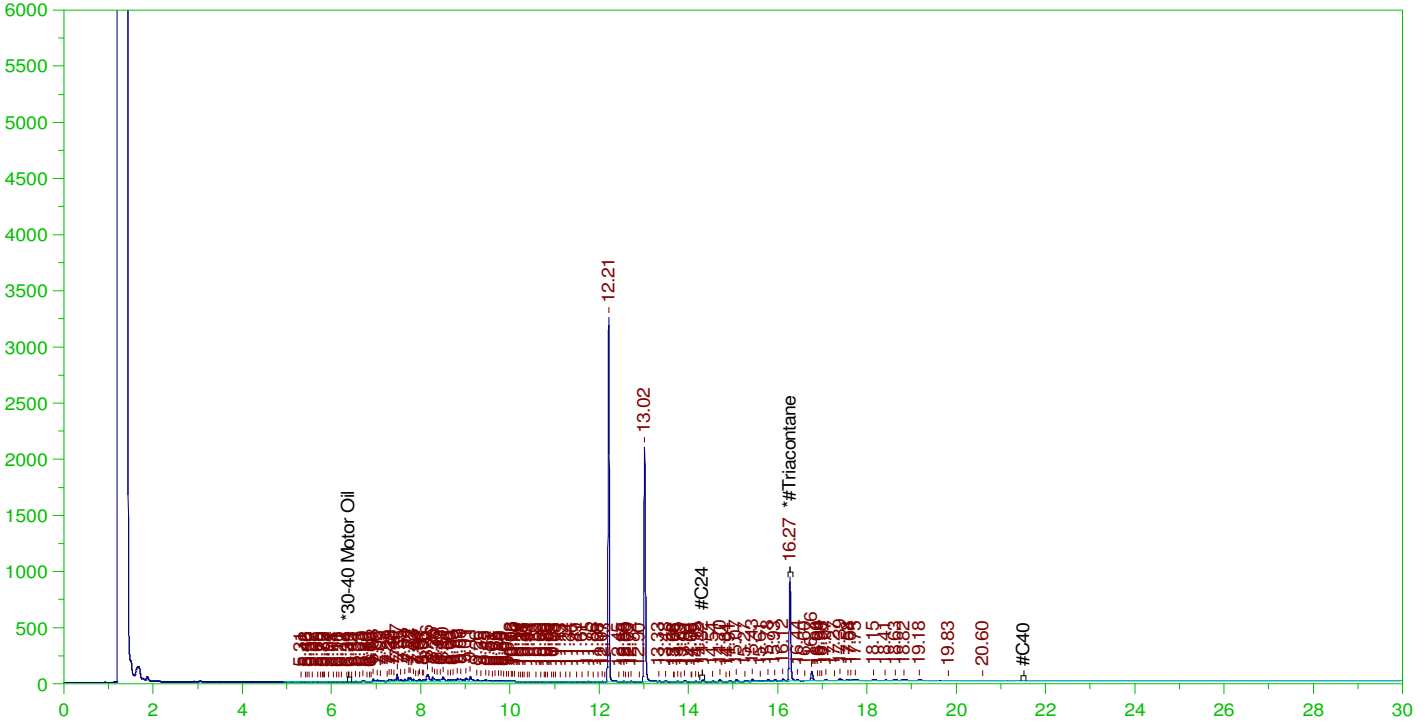
DRO Area:3573302 DRO Amount: 0.1090615
 TEH Area:4465125 TEH Amount: 0.1362811

ERH1957 (RHMW01R)

Batch ID: 161704

G:\org\HP5\DAT\HP5120221_b\1202HP5.0012.RAW

B21112212-004A ;1202HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B21112212-004A ;1202HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5120221_b\1202HP5.0012.RAW
 Date & Time Acquired: 12/2/2021 3:18:07 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-AG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO211017AG-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: 14.26 to 21.56

SURROGATE COMPOUND	RT	ACTUAL	MEASURED	%REC
*#Triacontane	16.271	.478	.082	17.16

RRO Area:845855.4 RRO AMOUNT: 2.835889E-02