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Apex Laboratories
Philip Nerenberg
12232 S.W. Garden Place
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RE: A6C1134
Lab ID: 1604079

April 27, 2016

Attention Philip Nerenberg:

Fremont Analytical, Inc. received 2 sample(s) on 4/9/2016 for the analyses presented in the following report.

Extractable Petroleum Hydrocarbons by NWEPH
Sample Moisture (Percent Moisture)
Volatile Petroleum Hydrocarbons by NWVPH

This report consists of the following:

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

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

Thank you for using Fremont Analytical.

Sincerely,

Mike Ridgeway
President

DoD/ELAP Certification #L2371, ISO/ICC 17025:2005
ORELAP Certification: WA 100009-007 (NELAP Recognized)

Original

www.fremontanalytical.com



Date: 04/27/2016

CLIENT: Apex Laboratories
Project: A6C1134
Lab Order: 1604079

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Date/Time Collected | Date/Time Received |
|---------------|------------------------|---------------------|---------------------|
| 1604079-001 | 5237-160330-DC-EMB050G | 03/30/2016 3:30 PM | 04/09/2016 12:34 PM |
| 1604079-002 | 5237-160330-DC-EMB050 | 03/30/2016 3:30 PM | 04/09/2016 12:34 PM |

CLIENT: Apex Laboratories

Project: A6C1134

I. SAMPLE RECEIPT:

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

II. GENERAL REPORTING COMMENTS:

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

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:

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

Qualifiers:

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

Acronyms:

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



Analytical Report

WO#: 1604079
Date Reported: 4/27/2016

Client: Apex Laboratories

Collection Date: 3/30/2016 3:30:00 PM

Project: A6C1134

Lab ID: 1604079-001

Matrix: Soil

Client Sample ID: 5237-160330-DC-EMB050G

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

Volatile Petroleum Hydrocarbons by NWVPH

Batch ID: 13429

Analyst: BC

| | | | | | | |
|---------------------------------|------|--------|---|-------|---|----------------------|
| Aliphatic Hydrocarbon (C5-C6) | ND | 1.74 | Q | mg/Kg | 1 | 4/12/2016 7:42:25 PM |
| Aliphatic Hydrocarbon (C6-C8) | ND | 1.74 | | mg/Kg | 1 | 4/12/2016 7:42:25 PM |
| Aliphatic Hydrocarbon (C8-C10) | ND | 1.74 | | mg/Kg | 1 | 4/12/2016 7:42:25 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 1.74 | | mg/Kg | 1 | 4/12/2016 7:42:25 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 1.74 | | mg/Kg | 1 | 4/12/2016 7:42:25 PM |
| Aromatic Hydrocarbon (C10-C12) | ND | 1.74 | | mg/Kg | 1 | 4/12/2016 7:42:25 PM |
| Aromatic Hydrocarbon (C12-C13) | ND | 1.74 | | mg/Kg | 1 | 4/12/2016 7:42:25 PM |
| Surr: 1,4-Difluorobenzene | 103 | 65-140 | | %Rec | 1 | 4/12/2016 7:42:25 PM |
| Surr: Bromofluorobenzene | 82.1 | 65-140 | | %Rec | 1 | 4/12/2016 7:42:25 PM |

NOTES:

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



Analytical Report

WO#: 1604079
Date Reported: 4/27/2016

Client: Apex Laboratories

Collection Date: 3/30/2016 3:30:00 PM

Project: A6C1134

Lab ID: 1604079-002

Matrix: Soil

Client Sample ID: 5237-160330-DC-EMB050

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

Extractable Petroleum Hydrocarbons by NWEPH

Batch ID: 13403

Analyst: CM

| | | | | | | |
|---------------------------------|------|--------|---|-----------|---|-----------------------|
| Aliphatic Hydrocarbon (C8-C10) | ND | 6.89 | | mg/Kg-dry | 1 | 4/22/2016 11:22:00 PM |
| Aliphatic Hydrocarbon (C10-C12) | ND | 6.89 | | mg/Kg-dry | 1 | 4/22/2016 11:22:00 PM |
| Aliphatic Hydrocarbon (C12-C16) | ND | 6.89 | | mg/Kg-dry | 1 | 4/22/2016 11:22:00 PM |
| Aliphatic Hydrocarbon (C16-C21) | ND | 6.89 | | mg/Kg-dry | 1 | 4/22/2016 11:22:00 PM |
| Aliphatic Hydrocarbon (C21-C34) | ND | 6.89 | | mg/Kg-dry | 1 | 4/22/2016 11:22:00 PM |
| Aromatic Hydrocarbon (C8-C10) | ND | 6.89 | | mg/Kg-dry | 1 | 4/23/2016 11:22:00 AM |
| Aromatic Hydrocarbon (C10-C12) | ND | 6.89 | | mg/Kg-dry | 1 | 4/23/2016 11:22:00 AM |
| Aromatic Hydrocarbon (C12-C16) | ND | 6.89 | | mg/Kg-dry | 1 | 4/23/2016 11:22:00 AM |
| Aromatic Hydrocarbon (C16-C21) | ND | 6.89 | | mg/Kg-dry | 1 | 4/23/2016 11:22:00 AM |
| Aromatic Hydrocarbon (C21-C34) | ND | 6.89 | | mg/Kg-dry | 1 | 4/23/2016 11:22:00 AM |
| Surr: 1-Chlorooctadecane | 36.7 | 60-140 | S | %Rec | 1 | 4/22/2016 11:22:00 PM |
| Surr: o-Terphenyl | 62.8 | 60-140 | | %Rec | 1 | 4/23/2016 11:22:00 AM |

NOTES:

S - Outlying QC recoveries were associated with this sample. The method is in control as indicated by the LCS.

Sample Moisture (Percent Moisture)

Batch ID: R28687

Analyst: SB

| | | | | | | |
|------------------|------|-------|--|-----|---|-----------------------|
| Percent Moisture | 29.5 | 0.500 | | wt% | 1 | 4/11/2016 10:17:14 AM |
|------------------|------|-------|--|-----|---|-----------------------|



Date: 4/27/2016

Work Order: 1604079
 CLIENT: Apex Laboratories
 Project: A6C1134

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID ALI ICB | SampType: ICB | Units: mg/Kg | | Prep Date: 4/21/2016 | RunNo: 28953 | | | | | | |
|---------------------------------|-------------------------|---------------------|-----------|---------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: ICB | Batch ID: R28953 | | | Analysis Date: 4/21/2016 | SeqNo: 544719 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 27.1 | 5.00 | | | | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 14.1 | 5.00 | | | | | | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 16.1 | 5.00 | | | | | | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 96.9 | 5.00 | | | | | | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 25.0 | 5.00 | | | | | | | | | |
| Surr: 1-Chlorooctadecane | 31.2 | | 40.00 | | 78.1 | 60 | 140 | | | | |

| Sample ID ALI ICV | SampType: ICV | Units: mg/Kg | | Prep Date: 4/22/2016 | RunNo: 28953 | | | | | | |
|---------------------------------|-------------------------|---------------------|-----------|---------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: ICV | Batch ID: R28953 | | | Analysis Date: 4/22/2016 | SeqNo: 544720 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 186 | 5.00 | 200.0 | 0 | 92.8 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 93.7 | 5.00 | 100.0 | 0 | 93.7 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 91.1 | 5.00 | 100.0 | 0 | 91.1 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 115 | 5.00 | 100.0 | 0 | 115 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 85.5 | 5.00 | 100.0 | 0 | 85.5 | 80 | 120 | | | | |
| Surr: 1-Chlorooctadecane | 37.9 | | 40.00 | | 94.8 | 60 | 140 | | | | |

| Sample ID ARO ICB | SampType: ICB | Units: mg/Kg | | Prep Date: 4/22/2016 | RunNo: 28953 | | | | | | |
|--------------------------------|-------------------------|---------------------|-----------|---------------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Client ID: ICB | Batch ID: R28953 | | | Analysis Date: 4/22/2016 | SeqNo: 544721 | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | ND | 5.00 | | | | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 5.00 | | | | | | | | | |
| Aromatic Hydrocarbon (C12-C16) | ND | 5.00 | | | | | | | | | |
| Aromatic Hydrocarbon (C16-C21) | 21.4 | 5.00 | | | | | | | | | |
| Aromatic Hydrocarbon (C21-C34) | 41.1 | 5.00 | | | | | | | | | |
| Surr: o-Terphenyl | 30.6 | | 40.00 | | 76.6 | 60 | 140 | | | | |



Work Order: 1604079
CLIENT: Apex Laboratories
Project: A6C1134

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID ARO ICV | SampType: ICV | Units: mg/Kg | | | | Prep Date: 4/22/2016 | RunNo: 28953 | | | | |
|--------------------------------|-------------------------|---------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: ICV | Batch ID: R28953 | | | | | Analysis Date: 4/22/2016 | SeqNo: 544722 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 94.4 | 5.00 | 100.0 | 0 | 94.4 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 92.1 | 5.00 | 100.0 | 0 | 92.1 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 97.5 | 5.00 | 100.0 | 0 | 97.5 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 111 | 5.00 | 100.0 | 0 | 111 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 82.7 | 5.00 | 100.0 | 0 | 82.7 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 34.7 | | 40.00 | | 86.7 | 60 | 140 | | | | |

| Sample ID ALI CCVA | SampType: CCV | Units: mg/Kg | | | | Prep Date: 4/22/2016 | RunNo: 28989 | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: CCV | Batch ID: 13403 | | | | | Analysis Date: 4/22/2016 | SeqNo: 545602 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 202 | 5.00 | 200.0 | 0 | 101 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 101 | 5.00 | 100.0 | 0 | 101 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 100 | 5.00 | 100.0 | 0 | 100 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 107 | 5.00 | 100.0 | 0 | 107 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 96.0 | 5.00 | 100.0 | 0 | 96.0 | 80 | 120 | | | | |
| Surr: 1-Chlorooctadecane | 36.6 | | 40.00 | | 91.5 | 60 | 140 | | | | |

| Sample ID ARO CCVA | SampType: CCV | Units: mg/Kg | | | | Prep Date: 4/22/2016 | RunNo: 28989 | | | | |
|--------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: CCV | Batch ID: 13403 | | | | | Analysis Date: 4/22/2016 | SeqNo: 545638 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 104 | 5.00 | 100.0 | 0 | 104 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 100 | 5.00 | 100.0 | 0 | 100 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 105 | 5.00 | 100.0 | 0 | 105 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 97.9 | 5.00 | 100.0 | 0 | 97.9 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 82.1 | 5.00 | 100.0 | 0 | 82.1 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 34.7 | | 40.00 | | 86.7 | 60 | 140 | | | | |



Date: 4/27/2016

Work Order: 1604079
 CLIENT: Apex Laboratories
 Project: A6C1134

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID | LCS-13403 | SampType: | LCS | Units: | mg/Kg | Prep Date: | 4/6/2016 | RunNo: | 28989 | | |
|---------------------------------|------------------|-----------|--------------|-------------|--------------|----------------|------------------|-------------|---------------|----------|------|
| Client ID: | LCSS | Batch ID: | 13403 | | | Analysis Date: | 4/22/2016 | SeqNo: | 545604 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 77.9 | 5.00 | 100.0 | 0 | 77.9 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 46.5 | 5.00 | 50.00 | 0 | 93.0 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 43.5 | 5.00 | 50.00 | 0 | 86.9 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 44.7 | 5.00 | 50.00 | 0 | 89.5 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 43.2 | 5.00 | 50.00 | 0 | 86.4 | 70 | 130 | | | | |
| Surr: 1-Chlorooctadecane | 16.5 | | 20.00 | | 82.3 | 60 | 140 | | | | |

| Sample ID | MB-13403 | SampType: | MBLK | Units: | mg/Kg | Prep Date: | 4/6/2016 | RunNo: | 28989 | | |
|---------------------------------|-----------------|-----------|--------------|-------------|--------------|----------------|------------------|-------------|---------------|----------|------|
| Client ID: | MBLKS | Batch ID: | 13403 | | | Analysis Date: | 4/22/2016 | SeqNo: | 545603 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | ND | 5.00 | | | | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 5.00 | | | | | | | | | |
| Aliphatic Hydrocarbon (C12-C16) | ND | 5.00 | | | | | | | | | |
| Aliphatic Hydrocarbon (C16-C21) | ND | 5.00 | | | | | | | | | |
| Aliphatic Hydrocarbon (C21-C34) | ND | 5.00 | | | | | | | | | |
| Surr: 1-Chlorooctadecane | 12.2 | | 20.00 | | 61.2 | 60 | 140 | | | | |

| Sample ID | 1604081-004ADUP | SampType: | DUP | Units: | mg/Kg-dry | Prep Date: | 4/6/2016 | RunNo: | 28989 | | |
|---------------------------------|------------------------|-----------|--------------|-------------|------------------|----------------|------------------|-------------|---------------|----------|------|
| Client ID: | BATCH | Batch ID: | 13403 | | | Analysis Date: | 4/23/2016 | SeqNo: | 545612 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | ND | 6.35 | | | | | | 0 | | 30 | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 6.35 | | | | | | 0 | | 30 | |
| Aliphatic Hydrocarbon (C12-C16) | ND | 6.35 | | | | | | 0 | | 30 | |
| Aliphatic Hydrocarbon (C16-C21) | 22.2 | 6.35 | | | | | | 13.69 | 47.4 | 30 | R |
| Aliphatic Hydrocarbon (C21-C34) | ND | 6.35 | | | | | | 0 | | 30 | |
| Surr: 1-Chlorooctadecane | 13.6 | | 25.41 | | 53.6 | 60 | 140 | | 0 | | S |

NOTES:

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



Work Order: 1604079
CLIENT: Apex Laboratories
Project: A6C1134

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID ALI CCVB | SampType: CCV | Units: mg/Kg | | | | Prep Date: 4/23/2016 | RunNo: 28989 | | | | |
|---------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: CCV | Batch ID: 13403 | | | | | Analysis Date: 4/23/2016 | SeqNo: 545613 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C8-C10) | 210 | 5.00 | 200.0 | 0 | 105 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 105 | 5.00 | 100.0 | 0 | 105 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C12-C16) | 103 | 5.00 | 100.0 | 0 | 103 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C16-C21) | 104 | 5.00 | 100.0 | 0 | 104 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C21-C34) | 114 | 5.00 | 100.0 | 0 | 114 | 80 | 120 | | | | |
| Surr: 1-Chlorooctadecane | 47.2 | | 40.00 | | 118 | 60 | 140 | | | | |

| Sample ID ARO CCVB | SampType: CCV | Units: mg/Kg | | | | Prep Date: 4/23/2016 | RunNo: 28989 | | | | |
|--------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: CCV | Batch ID: 13403 | | | | | Analysis Date: 4/23/2016 | SeqNo: 545647 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 94.2 | 5.00 | 100.0 | 0 | 94.2 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 91.0 | 5.00 | 100.0 | 0 | 91.0 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 95.8 | 5.00 | 100.0 | 0 | 95.8 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 117 | 5.00 | 100.0 | 0 | 117 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 102 | 5.00 | 100.0 | 0 | 102 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 33.0 | | 40.00 | | 82.6 | 60 | 140 | | | | |

| Sample ID LCS-13403 | SampType: LCS | Units: mg/Kg | | | | Prep Date: 4/6/2016 | RunNo: 28989 | | | | |
|--------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: LCSS | Batch ID: 13403 | | | | | Analysis Date: 4/23/2016 | SeqNo: 546204 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 43.0 | 5.00 | 50.00 | 0 | 86.0 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 45.1 | 5.00 | 50.00 | 0 | 90.3 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 47.6 | 5.00 | 50.00 | 0 | 95.2 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 53.3 | 5.00 | 50.00 | 0 | 107 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 38.0 | 5.00 | 50.00 | 0 | 75.9 | 70 | 130 | | | | |
| Surr: o-Terphenyl | 16.5 | | 20.00 | | 82.4 | 60 | 140 | | | | |



Date: 4/27/2016

Work Order: 1604079
 CLIENT: Apex Laboratories
 Project: A6C1134

QC SUMMARY REPORT
Extractable Petroleum Hydrocarbons by NWEPH

| Sample ID MB-13403 | SampType: MBLK | Units: mg/Kg | | | | Prep Date: 4/6/2016 | RunNo: 28989 | | | | |
|--------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 13403 | | | | | Analysis Date: 4/23/2016 | SeqNo: 546205 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | ND | 5.00 | | | | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 5.00 | | | | | | | | | |
| Aromatic Hydrocarbon (C12-C16) | ND | 5.00 | | | | | | | | | |
| Aromatic Hydrocarbon (C16-C21) | ND | 5.00 | | | | | | | | | |
| Aromatic Hydrocarbon (C21-C34) | ND | 5.00 | | | | | | | | | |
| Surr: o-Terphenyl | 15.1 | | 20.00 | | 75.6 | 60 | 140 | | | | |

| Sample ID 1604081-004ADUP | SampType: DUP | Units: mg/Kg-dry | | | | Prep Date: 4/6/2016 | RunNo: 28989 | | | | |
|----------------------------------|------------------------|-------------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 13403 | | | | | Analysis Date: 4/23/2016 | SeqNo: 546202 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | ND | 6.35 | | | | | | 0 | | 30 | |
| Aromatic Hydrocarbon (C10-C12) | ND | 6.35 | | | | | | 0 | | 30 | |
| Aromatic Hydrocarbon (C12-C16) | ND | 6.35 | | | | | | 0 | | 30 | |
| Aromatic Hydrocarbon (C16-C21) | 10.6 | 6.35 | | | | | | 8.481 | 22.1 | 30 | |
| Aromatic Hydrocarbon (C21-C34) | ND | 6.35 | | | | | | 0 | | 30 | |
| Surr: o-Terphenyl | 16.6 | | 25.41 | | 65.3 | 60 | 140 | | 0 | | |

| Sample ID ARO CCVC | SampType: CCV | Units: mg/Kg | | | | Prep Date: 4/23/2016 | RunNo: 28989 | | | | |
|--------------------------------|------------------------|---------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: CCV | Batch ID: 13403 | | | | | Analysis Date: 4/23/2016 | SeqNo: 546203 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aromatic Hydrocarbon (C8-C10) | 104 | 5.00 | 100.0 | 0 | 104 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 102 | 5.00 | 100.0 | 0 | 102 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C12-C16) | 107 | 5.00 | 100.0 | 0 | 107 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C16-C21) | 120 | 5.00 | 100.0 | 0 | 120 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C21-C34) | 89.3 | 5.00 | 100.0 | 0 | 89.3 | 80 | 120 | | | | |
| Surr: o-Terphenyl | 38.3 | | 40.00 | | 95.7 | 60 | 140 | | | | |



Work Order: 1604079
CLIENT: Apex Laboratories
Project: A6C1134

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID ICB-R28814 | SampType: ICB | Units: mg/Kg | | | | Prep Date: 4/12/2016 | RunNo: 28814 | | | | |
|---------------------------------|-------------------------|---------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: ICB | Batch ID: R28814 | | | | | Analysis Date: 4/12/2016 | SeqNo: 546560 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 14.7 | 2.00 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C6-C8) | ND | 2.00 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 4.02 | 2.00 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.00 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | 66.6 | 2.00 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.00 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.00 | | 0 | 0 | | | | | | |
| Surr: 1,4-Difluorobenzene | 46.5 | | 50.00 | | 93.0 | 65 | 140 | | | | |
| Surr: Bromofluorobenzene | 38.8 | | 50.00 | | 77.6 | 65 | 140 | | | | |

| Sample ID ICV-17311 | SampType: ICV | Units: mg/Kg | | | | Prep Date: 4/12/2016 | RunNo: 28814 | | | | |
|---------------------------------|-------------------------|---------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: ICV | Batch ID: R28814 | | | | | Analysis Date: 4/12/2016 | SeqNo: 541585 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 894 | 2.00 | 600.0 | 0 | 149 | 70 | 130 | | | | S |
| Aliphatic Hydrocarbon (C6-C8) | 182 | 2.00 | 200.0 | 0 | 91.2 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 218 | 2.00 | 200.0 | 0 | 109 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 244 | 2.00 | 200.0 | 0 | 122 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C8-C10) | 984 | 2.00 | 800.0 | 0 | 123 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 254 | 2.00 | 200.0 | 0 | 127 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C12-C13) | 184 | 2.00 | 200.0 | 0 | 91.9 | 70 | 130 | | | | |
| Surr: 1,4-Difluorobenzene | 53.0 | | 50.00 | | 106 | 65 | 140 | | | | |
| Surr: Bromofluorobenzene | 58.7 | | 50.00 | | 117 | 65 | 140 | | | | |

| Sample ID CCV-A-13429 | SampType: CCV | Units: mg/Kg | | | | Prep Date: 4/12/2016 | RunNo: 28816 | | | | |
|-------------------------------|-------------------------|---------------------|-----------|-------------|------|---------------------------------|----------------------|-------------|------|----------|------|
| Client ID: CCV | Batch ID: R28816 | | | | | Analysis Date: 4/12/2016 | SeqNo: 541680 | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Aliphatic Hydrocarbon (C5-C6) | 657 | 2.00 | 600.0 | 0 | 109 | 80 | 120 | | | | Q |
| Aliphatic Hydrocarbon (C6-C8) | 185 | 2.00 | 200.0 | 0 | 92.6 | 80 | 120 | | | | |

Work Order: 1604079
 CLIENT: Apex Laboratories
 Project: A6C1134

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID | CCV-A-13429 | SampType: | CCV | Units: | mg/Kg | Prep Date: | 4/12/2016 | RunNo: | 28816 | | | |
|---------------------------------|-------------|-----------|-----------|-------------|-------|----------------|-----------|-------------|--------|----------|------|--|
| Client ID: | CCV | Batch ID: | R28816 | | | Analysis Date: | 4/12/2016 | SeqNo: | 541680 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Aliphatic Hydrocarbon (C8-C10) | 199 | 2.00 | 200.0 | 0 | 99.4 | 80 | 120 | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 197 | 2.00 | 200.0 | 0 | 98.4 | 80 | 120 | | | | | |
| Aromatic Hydrocarbon (C8-C10) | 873 | 2.00 | 800.0 | 0 | 109 | 80 | 120 | | | | | |
| Aromatic Hydrocarbon (C10-C12) | 342 | 2.00 | 200.0 | 0 | 171 | 80 | 120 | | | | S | |
| Aromatic Hydrocarbon (C12-C13) | 301 | 2.00 | 200.0 | 0 | 150 | 80 | 120 | | | | S | |
| Surr: 1,4-Difluorobenzene | 51.6 | | 50.00 | | 103 | 65 | 140 | | | | | |
| Surr: Bromofluorobenzene | 54.7 | | 50.00 | | 109 | 65 | 140 | | | | | |

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.
 Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

| Sample ID | LCS-13429 | SampType: | LCS | Units: | mg/Kg | Prep Date: | 4/11/2016 | RunNo: | 28816 | | | |
|---------------------------------|-----------|-----------|-----------|-------------|-------|----------------|-----------|-------------|--------|----------|------|--|
| Client ID: | LCSS | Batch ID: | 13429 | | | Analysis Date: | 4/12/2016 | SeqNo: | 541681 | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual | |
| Aliphatic Hydrocarbon (C5-C6) | 24.8 | 2.00 | 30.00 | 0 | 82.7 | 70 | 130 | | | | Q | |
| Aliphatic Hydrocarbon (C6-C8) | 8.19 | 2.00 | 10.00 | 0 | 81.9 | 70 | 130 | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 8.46 | 2.00 | 10.00 | 0 | 84.6 | 70 | 130 | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 11.8 | 2.00 | 10.00 | 0 | 118 | 70 | 130 | | | | | |
| Aromatic Hydrocarbon (C8-C10) | 37.5 | 2.00 | 40.00 | 0 | 93.6 | 70 | 130 | | | | | |
| Aromatic Hydrocarbon (C10-C12) | 14.9 | 2.00 | 10.00 | 0 | 149 | 70 | 130 | | | | S | |
| Aromatic Hydrocarbon (C12-C13) | 12.9 | 2.00 | 10.00 | 0 | 129 | 70 | 130 | | | | | |
| Surr: 1,4-Difluorobenzene | 2.02 | | 2.500 | | 80.6 | 65 | 140 | | | | | |
| Surr: Bromofluorobenzene | 2.33 | | 2.500 | | 93.1 | 65 | 140 | | | | | |

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.
 Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1604079
 CLIENT: Apex Laboratories
 Project: A6C1134

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID MB-13429 | SampType: MBLK | Units: mg/Kg | Prep Date: 4/11/2016 | RunNo: 28816 | | | | | | | |
|---------------------------|------------------------|---------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: MBLKS | Batch ID: 13429 | | Analysis Date: 4/12/2016 | SeqNo: 541630 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------------------------------|------|------|-------|---|------|----|-----|--|--|--|---|
| Aliphatic Hydrocarbon (C5-C6) | ND | 2.00 | | 0 | 0 | | | | | | Q |
| Aliphatic Hydrocarbon (C6-C8) | ND | 2.00 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C8-C10) | ND | 2.00 | | 0 | 0 | | | | | | |
| Aliphatic Hydrocarbon (C10-C12) | ND | 2.00 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C8-C10) | ND | 2.00 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C10-C12) | ND | 2.00 | | 0 | 0 | | | | | | |
| Aromatic Hydrocarbon (C12-C13) | ND | 2.00 | | 0 | 0 | | | | | | |
| Surr: 1,4-Difluorobenzene | 2.46 | | 2.500 | | 98.2 | 65 | 140 | | | | |
| Surr: Bromofluorobenzene | 1.82 | | 2.500 | | 72.9 | 65 | 140 | | | | |

NOTES:

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

| Sample ID 1604078-003ADUP | SampType: DUP | Units: mg/Kg | Prep Date: 4/11/2016 | RunNo: 28816 | | | | | | | |
|----------------------------------|------------------------|---------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: 13429 | | Analysis Date: 4/12/2016 | SeqNo: 541616 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------------------------------|------|------|-------|---|------|----|-----|---|---|----|----|
| Aliphatic Hydrocarbon (C5-C6) | ND | 1.91 | | 0 | 0 | | | 0 | | 25 | QH |
| Aliphatic Hydrocarbon (C6-C8) | ND | 1.91 | | 0 | 0 | | | 0 | | 25 | H |
| Aliphatic Hydrocarbon (C8-C10) | ND | 1.91 | | 0 | 0 | | | 0 | | 25 | H |
| Aliphatic Hydrocarbon (C10-C12) | ND | 1.91 | | 0 | 0 | | | 0 | | 25 | H |
| Aromatic Hydrocarbon (C8-C10) | ND | 1.91 | | 0 | 0 | | | 0 | | 25 | H |
| Aromatic Hydrocarbon (C10-C12) | ND | 1.91 | | 0 | 0 | | | 0 | | 25 | H |
| Aromatic Hydrocarbon (C12-C13) | ND | 1.91 | | 0 | 0 | | | 0 | | 25 | H |
| Surr: 1,4-Difluorobenzene | 2.48 | | 2.385 | | 104 | 65 | 140 | | 0 | | H |
| Surr: Bromofluorobenzene | 2.00 | | 2.385 | | 83.8 | 65 | 140 | | 0 | 0 | H |

NOTES:

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1604079
 CLIENT: Apex Laboratories
 Project: A6C1134

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID | 1604081-001AMS | SampType: | MS | Units: | mg/Kg | Prep Date: | 4/11/2016 | RunNo: | 28816 | | |
|------------|-----------------------|-----------|--------------|-------------|--------------|----------------|------------------|-------------|---------------|----------|------|
| Client ID: | BATCH | Batch ID: | 13429 | | | Analysis Date: | 4/12/2016 | SeqNo: | 541621 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------------------------------|------|------|-------|---|------|----|-----|--|--|--|---|
| Aliphatic Hydrocarbon (C5-C6) | 20.4 | 1.59 | 23.89 | 0 | 85.4 | 70 | 130 | | | | Q |
| Aliphatic Hydrocarbon (C6-C8) | 7.49 | 1.59 | 7.962 | 0 | 94.1 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 6.74 | 1.59 | 7.962 | 0 | 84.6 | 70 | 130 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 9.69 | 1.59 | 7.962 | 0 | 122 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C8-C10) | 30.1 | 1.59 | 31.85 | 0 | 94.4 | 70 | 130 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 16.2 | 1.59 | 7.962 | 0 | 204 | 70 | 130 | | | | S |
| Aromatic Hydrocarbon (C12-C13) | 8.95 | 1.59 | 7.962 | 0 | 112 | 70 | 130 | | | | |
| Surr: 1,4-Difluorobenzene | 1.76 | | 1.990 | | 88.6 | 65 | 140 | | | | |
| Surr: Bromofluorobenzene | 1.97 | | 1.990 | | 99.0 | 65 | 140 | | | | |

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.
 Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

| Sample ID | 1604081-001AMSD | SampType: | MSD | Units: | mg/Kg | Prep Date: | 4/11/2016 | RunNo: | 28816 | | |
|------------|------------------------|-----------|--------------|-------------|--------------|----------------|------------------|-------------|---------------|----------|------|
| Client ID: | BATCH | Batch ID: | 13429 | | | Analysis Date: | 4/12/2016 | SeqNo: | 541622 | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------------------------------|------|------|-------|---|------|----|-----|-------|------|----|----|
| Aliphatic Hydrocarbon (C5-C6) | 19.9 | 1.59 | 23.89 | 0 | 83.4 | 70 | 130 | 20.41 | 2.46 | 30 | Q |
| Aliphatic Hydrocarbon (C6-C8) | 6.68 | 1.59 | 7.962 | 0 | 83.9 | 70 | 130 | 7.492 | 11.5 | 30 | |
| Aliphatic Hydrocarbon (C8-C10) | 7.17 | 1.59 | 7.962 | 0 | 90.1 | 70 | 130 | 6.738 | 6.21 | 30 | |
| Aliphatic Hydrocarbon (C10-C12) | 10.3 | 1.59 | 7.962 | 0 | 129 | 70 | 130 | 9.690 | 6.16 | 30 | |
| Aromatic Hydrocarbon (C8-C10) | 30.6 | 1.59 | 31.85 | 0 | 96.1 | 70 | 130 | 30.08 | 1.69 | 30 | |
| Aromatic Hydrocarbon (C10-C12) | 18.0 | 1.59 | 7.962 | 0 | 226 | 70 | 130 | 16.24 | 10.3 | 30 | S |
| Aromatic Hydrocarbon (C12-C13) | 12.2 | 1.59 | 7.962 | 0 | 153 | 70 | 130 | 8.954 | 30.5 | 30 | RS |
| Surr: 1,4-Difluorobenzene | 1.69 | | 1.990 | | 84.9 | 65 | 140 | | 0 | | |
| Surr: Bromofluorobenzene | 1.93 | | 1.990 | | 96.9 | 65 | 140 | | 0 | 0 | |

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.
 R - High RPD observed.
 Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).

Work Order: 1604079
CLIENT: Apex Laboratories
Project: A6C1134

QC SUMMARY REPORT
Volatile Petroleum Hydrocarbons by NWVPH

| Sample ID CCV-B-13429 | SampType: CCV | Units: mg/Kg | Prep Date: 4/13/2016 | RunNo: 28816 | | | | | | | |
|------------------------------|------------------------|---------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: CCV | Batch ID: 13429 | | Analysis Date: 4/13/2016 | SeqNo: 541628 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |

| | | | | | | | | | | | |
|---------------------------------|------|------|-------|---|------|----|-----|--|--|--|---|
| Aliphatic Hydrocarbon (C5-C6) | 494 | 2.00 | 600.0 | 0 | 82.4 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C6-C8) | 189 | 2.00 | 200.0 | 0 | 94.7 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C8-C10) | 161 | 2.00 | 200.0 | 0 | 80.4 | 80 | 120 | | | | |
| Aliphatic Hydrocarbon (C10-C12) | 164 | 2.00 | 200.0 | 0 | 81.8 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C8-C10) | 684 | 2.00 | 800.0 | 0 | 85.6 | 80 | 120 | | | | |
| Aromatic Hydrocarbon (C10-C12) | 253 | 2.00 | 200.0 | 0 | 127 | 80 | 120 | | | | S |
| Aromatic Hydrocarbon (C12-C13) | 220 | 2.00 | 200.0 | 0 | 110 | 80 | 120 | | | | |
| Surr: 1,4-Difluorobenzene | 42.4 | | 50.00 | | 84.8 | 65 | 140 | | | | |
| Surr: Bromofluorobenzene | 42.0 | | 50.00 | | 83.9 | 65 | 140 | | | | |

NOTES:

S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Q - Indicates an analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF).



Date: 4/27/2016

Work Order: 1604079
CLIENT: Apex Laboratories
Project: A6C1134

QC SUMMARY REPORT
Sample Moisture (Percent Moisture)

| Sample ID 1604078-002ADUP | SampType: DUP | Units: wt% | Prep Date: 4/11/2016 | RunNo: 28687 | | | | | | | |
|----------------------------------|-------------------------|-------------------|---------------------------------|----------------------|------|----------|-----------|-------------|------|----------|------|
| Client ID: BATCH | Batch ID: R28687 | | Analysis Date: 4/11/2016 | SeqNo: 539603 | | | | | | | |
| Analyte | Result | RL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Percent Moisture | 40.5 | 0.500 | | | | | | 36.85 | 9.52 | 20 | |

Client Name: **APEX**
 Logged by: **Erica Silva**

Work Order Number: **1604079**
 Date Received: **4/9/2016 12:34:00 PM**

Chain of Custody

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

Log In

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

Special Handling (if applicable)

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

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

19. Additional remarks:

Item Information

| Item # | Temp °C |
|--------|---------|
| Cooler | 2.1 |
| Sample | 2.9 |

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

Original

SUBCONTRACT ORDER

Apex Laboratories

A6C1134

1604079

SENDING LABORATORY:

Apex Laboratories
12232 S.W. Garden Place
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 718-0333
Project Manager: Philip Nerenberg

RECEIVING LABORATORY:


Fremont Analytical
3600 Fremont Avenue N.
Seattle, WA 98103
Phone : (206) 352-3790
Fax: (206) 352-7178

Sample Name: 5237-160330-DC-EMB050G Soil Sampled: 03/30/16 15:30 (A6C1134-15)
Soil Embankmebnt (1.5)


| Analysis | Due | Expires | Comments |
|--|----------------|----------------|--------------------|
| NWTPH-VPH (Sub) <i>Containers Supplied:</i> (B)40 mL VOA - 5035 (MeOH) | 04/13/16 17:00 | 04/13/16 15:30 | level IV DP needed |

Sample Name: 5237-160330-DC-EMB050 Soil Sampled: 03/30/16 15:30 (A6C1134-16)
Soil Embankmebnt (0-3.5)

| Analysis | Due | Expires | Comments |
|---|----------------|----------------|--------------------|
| NWTPH-EPH (Sub) <i>Containers Supplied:</i> (F)4 oz Glass Jar | 04/13/16 17:00 | 04/13/16 15:30 | Level IV DP needed |

Released By:  Date: 4/8/16
UPS (Shipper)

UPS (Shipper)

Received By:  Date: 4/9/16

Released By: Date:

Received By: Date: