<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Release Notification and Corrective Action

Form C-141 Revised April 3, 2017

| | | | | | | OPERATOR | | | | | | | |
|---|--|---|--|--|--|---|---|-------------------------------------|--|---|--------------------------------|-------------------------------------|--|
| | | nduring Re | | | | Contact: Cl | | | | | | | |
| | | 100, Aztec, N | New Mex | ico 87410 | | | No.: 505-444-0 5 | | | | | | |
| Facility Nar | ne: Rinco | n Unit 80 | | | | Facility Typ | e: Well Site (G | as) | | | | | |
| Surface Ow | ner: BLM | /Federal | | Mineral O | wner:] | er: BLM/Federal API No. 30-039-07086 | | | | | | | |
| | | | | LOCA | TIOI | N OF RE | LEASE | | | | | | |
| Unit Letter | Section | Township | Range | Feet from the | | South Line | Feet from the | East/ | West Line | County | | | |
| В | 18 | 27N | 6W | 1090 | N | ORTH | 1840 | | East | Rio Arrib | a | | |
| | | Latitu | ide 36 | 5.5781767 | _ Lon | gitude | -107.505367 | | NAD83 | | | | |
| | | | | NAT | URE | OF REL | | | | | | | |
| Type of Rele | | | | | | | Release: UNK | | | Recovered: N | | | |
| | Source of Release: BGT Bottom | | | | | | Hour of Occurrence | ce: | Date and | Hour of Dis | covery: | 7/30/2018 | |
| Was Immedia | ate Notice (| | Yes [| No ⊠ Not Re | quired | If YES, To | Whom? | | | | | | |
| By Whom? | | | | | | Date and I | Hour | | | | | | |
| Was a Water | course Read | ched? | | | | If YES, Volume Impacting the Watercourse. | | | | | | | |
| | | | Yes 🛚 | No | | 0/0 00 | | | | | | | |
| NOT IMPA | Was a Watercourse Reached? ☐ Yes ☐ No If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse. | | | | | | | | | | | | |
| A release wa returned bel than 200ft. b | ow NMOC out less that | ED Guidelines n 1000ft. awa | der the Boston the R | GT after being pu temediation of Le | | | | | | | | | |
| BGT was clereturned bel | osed at the ow standar | rds determini | #80. A sa | mple was collect a te release did not | need to | be excavate | ed further at this | facility | / | | | | |
| regulations all public health should their of or the environ | Il operators or the envi operations h nment. In a | are required to ronment. The nave failed to a | o report ar acceptance adequately OCD accep | is true and compled/or file certain rese of a C-141 reporting tender of a C-141 reporting tender of a C-141 research | elease no ent by the emediate | otifications a e NMOCD m e contaminat | nd perform correct parked as "Final R ion that pose a thr | ctive act eport" of reat to g | tions for relations for relations not relations not relations. | eases which ieve the oper r, surface wa | may en rator of iter, hu | ndanger Tliability man health | |
| Signature: Printed Name: Chad Snell | | | | | OIL CONSERVATION DIVISION Approved by Environmental Specialist: | | | | | | | | |
| Title: HSE T | ech | | | | | Approval Date: ///كالها Expiration Date: | | | | | | | |
| E-mail Addre | | enduringres | | m 505-444-0586 | | Conditions of Approval: Attached | | | | | | | |

NUS 183303 65 72



ANALYTICAL REPORT

August 08, 2018

Enduring Resources

Sample Delivery Group:

L1014209

Samples Received:

08/02/2018

Project Number:

Description:

BGT Closure

Site:

RINCON UNIT 80

Report To:

James McDaniel

332 County Road 3100

Aztec, NM 87410

Entire Report Reviewed By:

Olivia Studebaker Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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| | | |

SAMPLE SUMMARY

OTNE LAGS NATIFORNWIDE



| 5BBL BGT BOTTOM L1014209-01 Solid | | | Collected by Chad Srell | Collected date/time 08/01/18 11:30 | Received date/time 08/02/18 08:45 |
|---|-----------|----------|----------------------------|------------------------------------|--------------------------------------|
| Method | Batch | Dilution | Preparation | Analysis | Analyst |
| | | | date/time | date/time | |
| Total Solids by Method 2540 G-2011 | WG1148414 | 11 | 08/07/18 12:38 | 08/07/18 12:50 | JD |
| Wet Chemistry by Method 9056A | WG1147229 | 1 | 08/03/18 11:30 | 08/03/18 20:18 | MCG |
| Volatile Organic Compounds (GC) by Method 8015/8021 | WG1147621 | 1 | 08/02/18 19:54 | 08/06/18 12:21 | BMB |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1147714 | 1 | 08/04/18 10:13 | 08/04/18 18:06 | AAT |
| | | | Collected by | Collected date/time | Received date/time |
| 95 BBL BGT BOTTOM L1014209-02 Solid | | | Chad Srell | 08/01/18 11:05 | 08/02/18 08:45 |
| Method | Batch | Dilution | Preparation | Analysis | Analyst |
| | | | date/time | date/time | |
| Total Solids by Method 2540 G-2011 | WG1148414 | 1 | 08/07/18 12:38 | 08/07/18 12:50 | JD |
| Wet Chemistry by Method 9056A | WG1147229 | 1 | 08/03/18 11:30 | 08/03/18 20:36 | MCG |
| Volatile Organic Compounds (GC) by Method 8015/8021 | WG1147160 | 1 | 08/02/18 19:54 | 08/03/18 20:02 | LRL |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG1147714 | 1 | 08/04/18 10:13 | 08/04/18 18:19 | AAT |























CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Sr

GI

Al



Olivia Studebaker Project Manager

5BBL BGT BOTTOM Collected date/time: 08/01/18 11:30

SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE

Trotal Solids by Method 2540 G-2011

| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|--------|-----------|----------|------------------|-----------|
| Analyte | 0/ | | | date / time | |
| Total Solids | 89.2 | | 1 | 08/07/2018 12:50 | WG1148414 |





Wet Chemistry by Method 9056A

| | Result (dry) | Qualifier | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | | date / time | |
| Chloride | 53.3 | | 11.2 | 1 | 08/03/2018 20:18 | WG1147229 |



Volatile Organic Compounds (GC) by Method 8015/8021

| Result (dry) | Qualifier | RDL (dry) | Dilution | Analysis | Batch |
|--------------|---|---|--|--|--|
| mg/kg | | mg/kg | | date / time | |
| 0.00100 | | 0.000561 | 1 | 08/06/2018 12:21 | WG1147621 |
| ND | | 0.00561 | 1 | 08/06/2018 12:21 | WG1147621 |
| ND | | 0.000561 | 1 | 08/06/2018 12:21 | WG1147621 |
| ND | | 0.00168 | 1 | 08/06/2018 12:21 | WG1147621 |
| 0.138 | | 0.112 | 1 | 08/06/2018 12:21 | WG1147621 |
| 81.0 | | 77.0-120 | | 08/06/2018 12:21 | WG1147621 |
| 84.3 | | 75.0-128 | | 08/06/2018 12:21 | WG1147621 |
| | mg/kg 0.00100 ND ND ND ND 0.138 | mg/kg 0.00100 ND ND ND ND 0.138 | mg/kg mg/kg 0.00100 0.000561 ND 0.00561 ND 0.000561 ND 0.00168 0.138 0.112 81.0 77.0-120 | mg/kg mg/kg 0.00100 0.000561 1 ND 0.00561 1 ND 0.000561 1 ND 0.00168 1 0.138 0.112 1 81.0 77.0-120 | mg/kg mg/kg date / time 0.00100 0.000561 1 08/06/2018 12:21 ND 0.00561 1 08/06/2018 12:21 ND 0.000561 1 08/06/2018 12:21 ND 0.00168 1 08/06/2018 12:21 0.138 0.112 1 08/06/2018 12:21 81.0 77.0-120 08/06/2018 12:21 |









Semi-Volatile Organic Compounds (GC) by Method 8015

| | Result (dry) | Qualifier | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | | date / time | |
| C10-C28 Diesel Range | 29.2 | | 4.49 | 1 | 08/04/2018 18:06 | WG1147714 |
| C28-C40 Oil Range | 69.8 | | 4.49 | 1 | 08/04/2018 18:06 | WG1147714 |
| (S) o-Terphenyl | 80.3 | | 18.0-148 | | 08/04/2018 18:06 | WG1147714 |

95 BBL BGT BOTTOM Collected date/time: 08/01/18 11:05

SAMPLE RESULTS - 02

OINE LAB. NATIONWIDE.





| | Result | Qualifier | Dilution | Analysis | Batch |
|--------------|-----------|-----------|----------|------------------|-----------|
| Analyte | 1D/ 20 | | | date // time | |
| Total Solids | 85.3 | | 1 | 08/07/2018 12:50 | WG1148414 |





| | Result (dry) | Qualifier | RDL (dry) | Dilution | Analysis | Batch |
|----------|--------------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | | date / time | |
| Chloride | 59.5 | | 11.7 | 1 | 08/03/2018 20:36 | WG1147229 |



Volatile Organic Compounds (GC) by Method 8015/8021

| | Result (dry) | Qualifier | RDL (dry) | Dilution | Analysis | Batch | |
|---------------------------------|--------------|---|-----------|----------|------------------|-----------|--|
| Analyte | mg/kg | *************************************** | mg/kg | | date / time | | |
| Benzene | ND | | 0.000586 | 1 | 08/03/2018 20:02 | WG1147160 | |
| Toluene | ND | | 0.00586 | 1 | 08/03/2018 20:02 | WG1147160 | |
| Ethylbenzene | ND | | 0.000586 | 1 | 08/03/2018 20:02 | WG1147160 | |
| Total Xylene | 0.0105 | | 0.00176 | 1 | 08/03/2018 20:02 | WG1147160 | |
| TPH (GC/FID) Low Fraction | 2.73 | | 0.117 | 1 | 08/03/2018 20:02 | WG1147160 | |
| (S) a,a.a-Trifluorotoluene(FID) | 97.0 | | 77.0-120 | | 08/03/2018 20:02 | WG1147160 | |
| (S) a.a.a-Trifluorotoluene(PID) | 96.3 | | 75.0-128 | | 08/03/2018 20:02 | WG1147160 | |
| | | | | | | | |



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Semi-Volatile Organic Compounds (GC) by Method 8015

| | Result (dry) | Qualifier | RDL (dry) | Dilution | Analysis | Batch |
|----------------------|--------------|-----------|-----------|----------|------------------|-----------|
| Analyte | mg/kg | | mg/kg | | date / time | |
| C10-C28 Diesel Range | 16.4 | | 4.69 | 1 | 08/04/2018 18:19 | WG1147714 |
| C28-C40 Oil Range | 36.5 | | 4.69 | 1 | 08/04/2018 18:19 | WG1147714 |
| (S) o-Terphenyl | 56.3 | | 18.0-148 | | 08/04/2018 18:19 | WG1147714 |

WG1148414

QUALITY CONTROL SUMMARY L1014209-01,02

ONE LAB. NATIONWIDE.

Method Blank (MB)

(MB) R3331783-1 08/07/18 12:50

Total Solids by Method 2540 G-2011

MB Result

0.00100

MB Qualifier

MB MDL %

MB RDL

%

Total Solids

Analyte

Analyte

Total Solids

L1014247-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1014247-01 08/07/18 12:50 · (DUP) R3331783-3 08/07/18 12:50

82.8

Original Result DUP Result Dilution DUP RPD

% % 81.7 1.31

DUP Qualifier

% 10

DUP RPD

Limits

Laboratory Control Sample (LCS)

(LCS) R3331783-2 08/07/18 12:50

Spike Amount LCS Result LCS Rec. Rec. Limits LCS Qualifier % % Analyte %

Total Solids 85.0-115 50.0 50.0 100

St

WG1147229

Analyte

Chloride

Analyte

Chloride

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE

L1014209-01,02

Method Blank (MB)

(MB) R3330948-1 08/03/18 19:00

Wet Chemistry by Method 9056A

MB Result MB Qualifier MB MDL mg/kg mg/kg

MB RDL

mg/kg 10.0

L1014209-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1014209-01 08/03/18 20:18 • (DUP) R3330948-6 08/03/18 20:27

U

Original Result DUP Result DUP RPD Dilution DUP RPD **DUP** Qualifier Limits (dry) (dry) % % mg/kg mg/kg 53.3 55.5 4.11 15

0.795

St

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3330948-2 08/03/18 19:09 • (LCSD) R3330948-3 08/03/18 19:17

LCS Rec. Spike Amount LCS Result LCSD Result LCSD Rec. Rec. Limits LCS Qualifier LCSD Qualifier **RPD Limits** Analyte mg/kg mg/kg % % % % % mg/kg 200 205 204 102 102 80.0-120 0.422 15 Chloride



L1014207-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1014207-01 08/03/18 19:52 • (MS) R3330948-4 08/03/18 20:01 • (MSD) R3330948-5 08/03/18 20:10

| ,, | Spike Amount (dry) | Original Result (dry) | MS Result (dry) | MSD Result (dry) | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|----------|--------------------|-----------------------|-----------------|---------------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Chloride | 588 | 251 | 844 | 793 | 101 | 92.3 | 1 | 80.0-120 | | | 6.19 | 15 |



PROJECT:

SDG: L1014209

DATE/TIME: 08/08/18 15:35

8 of 14



QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Velatile Organic Compounds (GC) by Method 8015/8021

L1014209-02

Method Blank (MB)

| (MB) R3330928-5 08/03 | /18 13:26 | | | |
|-------------------------------------|-----------|--------------|----------|----------|
| | MB Result | MB Qualifier | MB MDL | MB RDL |
| Analyte | mg/kg | | mg/kg | mg/kg |
| Benzene | U | | 0.000120 | 0.000500 |
| Toluene | 0.000247 | <u>J</u> | 0.000150 | 0.00500 |
| Ethylbenzene | U | | 0.000110 | 0.000500 |
| Total Xylene | U | | 0.000460 | 0.00150 |
| TPH (GC/FID) Low Fraction | U | | 0.0217 | 0.100 |
| (\$) a.a.a-Trifluorotoluene(FID) | 100 | | | 77.0-120 |
| (\$) a.a.a-Trifluoratoluene(PID) | 100 | | | 75.0-128 |











Laboratory Control Sample (LCS) - Laboratory Control Sample Duplicate (LCSD)

| LCS) R3330928-1 08/9 | 03/18 11:27 · (LCSD |) R3330928- | 2 08/03/18 11:5 | 1 | | | | | | | |
|-------------------------------------|---------------------|-------------|-----------------|----------|-----------|-------------|---------------|----------------|-------|------------|--|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits | |
| nalyte | mg/kg | mg/kg | mg/kg | % | % | % | | | % | % | |
| Benzene | 0.0500 | 0.0532 | 0.0538 | 105 | 108 | 71.0-121 | | | 1.05 | 20 | |
| oluene | 0.0500 | 0.0514 | 0.0515 | 103 | 103 | 72.0-120 | | | 0.165 | 20 | |
| thylbenzene | 0.0500 | 0.0533 | 0.0535 | 107 | 107 | 76.0-121 | | | 0.525 | 20 | |
| etal Xylene | 0.150 | 0.168 | 0.167 | 112 | 111 | 75.0-124 | | | 0.778 | 20 | |
| (\$) .a,a-Trifluorotoluene(FID) | | | | 100 | 100 | 77.0-120 | | | | | |
| (\$) n,a,a-Trifluorotoluene(PID) | | | | 98.6 | 99.3 | 75.0-128 | | | | | |







Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| (LCS) R3330928-3 08/03/ | LCS) R3330928-3 08/03/18 12:15 • (LCSD) R3330928-4 08/03/18 12:39 | | | | | | | | | | | | | |
|-------------------------------------|---|------------|-------------|----------|-----------|-------------|---------------|----------------|------|------------|--|--|--|--|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits | | | | |
| Analyte | mg/kg | mg/kg | mg/kg | % | % | % | | | % | % | | | | |
| TPH (GC/FID) Low Fraction | 5.50 | 5.87 | 5.94 | 107 | 108 | 70.0-136 | | | 1.23 | 20 | | | | |
| (\$) a.a.a-Trifluorotoluene(FID) | | | | 106 | 106 | 77.0-120 | | | | | | | | |
| (S) a.a.a-Trifluarataluene(PID) | | | | 109 | 109 | 75.0-128 | | | | | | | | |



QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC) by Method 8015/8021

L1014209-01

Method Blank (MB)

| (MB) R3331329-5 08/06/ | 18 11:24 | | | | _ |
|-----------------------------------|-----------|--------------|----------|----------|---|
| | MB Result | MB Qualifier | MB MDL | MB RDL | |
| Analyte | mg/kg | | mg/kg | mg/kg | |
| Benzene | U | | 0.000120 | 0.000500 | |
| oluene | 0.000190 | 7 | 0.000150 | 0.00500 | |
| hylbenzene | U | | 0.000110 | 0.000500 | |
| otal Xylene | U | | 0.000460 | 0.00150 | |
| PH (GC/FID) Low Fraction | IJ | | 0.0217 | 0.100 | |
| (\$) a,a-Trifluorotoluene(FID) | 94.5 | | | 77.0-120 | |
| (\$) a,a-Trifluoratoluene(PID) | 98.5 | | | 75.0-128 | |
| | | | | | |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| LCS) R3331329-1 08/06/ | 18 09:39 · (LCS | D) R3331329-2 | 08/06/18 10:0 | 00 | | | | | | |
|-------------------------------------|-----------------|---------------|---------------|----------|-----------|-------------|---------------|----------------|------|------------|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
| Analyte | mg/kg | mg/kg | mg/kg | 0/ /0 | % | % | | | % | % |
| Benzene | 0.0500 | 0.0463 | 0.0501 | 92.6 | 100 | 71.0-121 | | | 8.00 | 20 |
| Toluene | 0.0500 | 0.0488 | 0.0524 | 97.6 | 105 | 72.0-120 | | | 7.04 | 20 |
| Ethylbenzene | 0.0500 | 0.0482 | 0.0520 | 96.4 | 104 | 76.0-121 | | | 7.54 | 20 |
| Total Xylene | 0.150 | 0.144 | 0.155 | 95.7 | 103 | 75.0-124 | | | 7.38 | 20 |
| (\$) a.a.a-Trifluorotoluene(FID) | | | | 93.6 | 93.8 | 77.0-120 | | | | |
| (\$) a.a.a-Trifluorataluene(PID) | | | | 96.0 | 96.0 | 75.0-128 | | | | |
| | | | | | | | | | | |

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

| (LCS) R3331329-3 08/06/18 10:21 • (LCSD) R3331329-4 08/06/18 10:42 | | | | | | | | | | | | | |
|--|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|--|--|--|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits | | | |
| Analyte | mg/kg | mg/kg | mg/kg | % | % | % | | | % | % | | | |
| TPH (GC/FID) Low Fraction | 5.50 | 5.47 | 5.44 | 99.5 | 98.9 | 70.0-136 | | | 0.598 | 20 | | | |
| (\$) a.a.a-Trifluorotaluene(FID) | | | | 108 | 107 | 77.0-120 | | | | | | | |
| (S) a.o.a-Trifluorotoluene(PID) | | | | 110 | 109 | 75.0-128 | | | | | | | |

















WG1147714

(S) e-Terphenyl

(S) g-Terphenyl

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1014209-01,02

LCSD Qualifier RPD

0.966

RPD Limits

20

Method Blank (MB)

(MB) R3330969-1 08/04/18 17:28 MB Result MB Qualifier MB MDL MB RDL Analyte mg/kg mg/kg mg/kg C10-C28 Diesel Range 1.61 4.00 U C28-C40 Oil Range U 0.274 4.00

Semi-Volatile Organic Compounds (GC) by Method 8015

92.4



T₆







| (LCS) R3330969-2 08/ | 04/18 17:41 · (LCSI | D) R3330969- | 3 08/04/18 17:5 | 08/04/18 17:54 | | | | | | | | |
|----------------------|---------------------|--------------|-----------------|----------------|-----------|-------------|------------|--|--|--|--|--|
| | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualit | | | | | |
| Analyte | mg/kg | mg/kg | mg/kg | % | % | % | | | | | | |
| C10-C28 Diesel Range | 50.0 | 39.0 | 39.4 | 78.1 | 78.8 | 50.0-150 | | | | | | |

18.0-148

96.0

88.6

18.0-148



SF









GLOSSARY OF TERMS





Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative



Abbreviations and Definitions

Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils] (ctry)

MDL Method Detection Limit

ND Not detected at the Reporting Limit (or MDL where applicable).

RDL Reported Detection Limit RDL (dry) Reported Detection Limit.

Rec

Dilution

Limits

Qualifier

Result

RPD Relative Percent Difference. SDG Sample Delivery Group

Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and

Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.

Not detected at the Reporting Limit (or MDL where applicable). The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes

Analyte reported

If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the

result reported has already been corrected for this factor.

These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal

for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or

duplicated within these ranges.

The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control Original Sample

sample. The Original Sample may not be included within the reported SDG.

This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.

The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect

or report for this analyte

A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will Case Narrative (Cn)

be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.

This section of the report includes the results of the laboratory quality control analyses required by procedure or

Quality Control analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not Summary (Qc) being performed on your samples typically, but on laboratory generated material.

This is the document created in the field when your samples were initially collected. This is used to verify the time and Sample Chain of date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the Custody (Sc)

samples from the time of collection until delivery to the laboratory for analysis.

This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported. Sample Results (Sr)

This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and Sample Summary (Ss)

times of preparation and/or analysis.

Qualifier Description

The identification of the analyte is acceptable; the reported value is an estimate.



















ACCREDITATIONS & LOCATIONS





Ss

Cn

Sr

Qc

GI

Sc

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Or focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

**Not all certifications held by the laboratory are applicable to the results reported in the attached report.

**Accorditation is only amplicable to the total methods specified on each served is the held by the help of the held by the help of the specification held.

State Accreditations

| Alabama | 40660 | Nebraska | NE-OS-15-05 |
|-----------------------|-------------|--------------------|-------------------|
| Ataska | 17-026 | Nevada | TN-03-2002-34 |
| Arizona | AZ0612 | New Hampshire | 2975 |
| Arkansas | 88-0469 | New Jersey-NELAP | TN002 |
| California | 2932 | New Mexico 1 | n/a |
| Colorado | TN00003 | New York | 11742 |
| Connecticut | PH-0197 | North Carolina | Env375 |
| Florida | E87487 | North Carolina 1 | DW21704 |
| Georgia | NELAP | North Carolina 3 | 41 |
| Georgia 1 | 923 | North Dakota | R-140 |
| Idaho | TN00003 | Ohio-VAP | CL0069 |
| Illinais | 200008 | Oklahoma | 9915 |
| Indiana | C-TN-01 | Oregon | TN200002 |
| lowa | 364 | Pennsylvania | 68-02979 |
| Kansas | E-10277 | Rhode Island | LA000356 |
| Kentucky 16 | 90010 | South Carolina | 84004 |
| Kentucky ² | 16 | South Dakota | n/a |
| Louisiana | Al30792 | Tennessee 1 4 | 2006 |
| Louisiana 1 | LA180010 | Texas | T 104704245-17-14 |
| Maine | TN0002 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | TN00003 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 460132 |
| Minnesota | 047-999-395 | Washington | C847 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERTO086 | Wyoming | A2LA |
| | | | |

Third Party Federal Accreditations

| A2LA - ISO 17025 | 1461.01 | AIHA-LAP,LLC EMLAP | 100789 |
|--------------------|---------|--------------------|---------------|
| A2LA - ISO 17025 5 | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | P330-15-00234 |
| EPA-Crypto | TN00003 | | |

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ACCOUNT: Enduring Resources PROJECT:

SDG L1014209

DATE/TIME: 08/08/18/15/35 PAGE: 13 of 14

[&]quot;Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National

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