

Norris Environmental

Sample Delivery Group: L846903
Samples Received: 07/14/2016
Project Number: FED 2-24-81
Description: National Fuel Corp FED 2-24-81 Pit
Site: FED 2-24-81 PIT
Report To: Sean Norris
778 23rd Road
Grand Junction, CO 81505

REM 9772

Location ID 312558

Pit Facility ID 119445

Document 2527038

Entire Report Reviewed By:



Shane Gambill

Technical Service Representative

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.



NFC-FED 2-24-81-N- 6IN L846903-01 Solid

Collected by
Sean T. Norris

Collected date/time
07/12/16 15:37

Received date/time
07/14/16 09:00

¹ Cp

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|-----------------------------------------------------|----------|----------|-----------------------|--------------------|---------|
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG888881 | 1 | 07/14/16 13:11 | 07/15/16 14:17 | ACM |
| Volatile Organic Compounds (GC) by Method 8015 | WG889621 | 24.25 | 07/18/16 11:00 | 07/19/16 00:10 | DWR |
| Volatile Organic Compounds (GC) by Method 8021 | WG889621 | 24.25 | 07/18/16 11:00 | 07/19/16 15:22 | DWR |

² Tc

³ Ss

NFC-FED 2-24-81-E- 6IN L846903-02 Solid

Collected by
Sean T. Norris

Collected date/time
07/12/16 15:41

Received date/time
07/14/16 09:00

⁴ Cn

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|-----------------------------------------------------|----------|----------|-----------------------|--------------------|---------|
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG888881 | 20 | 07/14/16 13:11 | 07/16/16 01:28 | DMG |
| Volatile Organic Compounds (GC) by Method 8015 | WG889621 | 24 | 07/18/16 11:00 | 07/19/16 00:32 | DWR |
| Volatile Organic Compounds (GC) by Method 8021 | WG889621 | 24 | 07/18/16 11:00 | 07/19/16 15:45 | DWR |

⁵ Sr

⁶ Qc

NFC-FED 2-24-81-S- 6IN L846903-03 Solid

Collected by
Sean T. Norris

Collected date/time
07/12/16 15:40

Received date/time
07/14/16 09:00

⁷ Gl

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|-----------------------------------------------------|----------|----------|-----------------------|--------------------|---------|
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG888881 | 5 | 07/14/16 13:11 | 07/15/16 19:07 | DMG |
| Volatile Organic Compounds (GC) by Method 8015/8021 | WG889492 | 50 | 07/16/16 23:07 | 07/18/16 01:27 | BMB |

⁸ Al

⁹ Sc

NFC-FED 2-24-81-W- 6IN L846903-04 Solid

Collected by
Sean T. Norris

Collected date/time
07/12/16 15:38

Received date/time
07/14/16 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|-----------------------------------------------------|----------|----------|-----------------------|--------------------|---------|
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG888881 | 5 | 07/14/16 13:11 | 07/16/16 01:39 | DMG |
| Volatile Organic Compounds (GC) by Method 8015/8021 | WG889492 | 1 | 07/16/16 23:07 | 07/19/16 07:59 | ACG |

NFC-FED 2-24-81-BTM- 6IN L846903-05 Solid

Collected by
Sean T. Norris

Collected date/time
07/12/16 15:43

Received date/time
07/14/16 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|-----------------------------------------------------|----------|----------|-----------------------|--------------------|---------|
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG888881 | 20 | 07/14/16 13:11 | 07/15/16 19:18 | DMG |
| Volatile Organic Compounds (GC) by Method 8015/8021 | WG889492 | 122.5 | 07/16/16 23:07 | 07/18/16 02:09 | BMB |

NFC-FED 2-24-81-ETS- 6IN L846903-06 Solid

Collected by
Sean T. Norris

Collected date/time
07/12/16 15:50

Received date/time
07/14/16 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|-------------------------------------------------------------|----------|----------|-----------------------|--------------------|---------|
| Calculated Results | WG888840 | 1 | 07/14/16 16:55 | 07/15/16 16:56 | KK |
| Calculated Results | WG888848 | 1 | 07/15/16 10:25 | 07/16/16 19:11 | BRJ |
| Mercury by Method 7471A | WG888833 | 1 | 07/14/16 12:56 | 07/15/16 08:00 | TRB |
| Metals (ICP) by Method 6010B | WG888840 | 1 | 07/14/16 16:55 | 07/15/16 00:24 | LTB |
| Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM | WG889001 | 20 | 07/14/16 16:28 | 07/18/16 08:09 | KMP |
| Semi-Volatile Organic Compounds (GC) by Method 8015 | WG888881 | 20 | 07/14/16 13:11 | 07/16/16 02:13 | DMG |
| Volatile Organic Compounds (GC) by Method 8015/8021 | WG889492 | 12 | 07/16/16 23:07 | 07/18/16 02:30 | BMB |
| Wet Chemistry by Method 3060A/7196A | WG888129 | 1 | 07/14/16 10:13 | 07/15/16 16:56 | KK |
| Wet Chemistry by Method 9050AMod | WG888870 | 1 | 07/14/16 12:45 | 07/14/16 12:45 | AMC |



NFC-FED 2-24-81-BG1- 6IN L846903-07 Solid

Collected by
Sean T. NorrisCollected date/time
07/12/16 15:59Received date/time
07/14/16 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------|----------|----------|--------------------------|-----------------------|---------|
| Metals (ICP) by Method 6010B | WG888840 | 1 | 07/14/16 16:55 | 07/15/16 00:32 | LTB |

¹Cp²Tc³Ss

NFC-FED 2-24-81-BG2- 6IN L846903-08 Solid

Collected by
Sean T. NorrisCollected date/time
07/12/16 16:04Received date/time
07/14/16 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------|----------|----------|--------------------------|-----------------------|---------|
| Metals (ICP) by Method 6010B | WG888840 | 1 | 07/14/16 16:55 | 07/15/16 00:35 | LTB |

⁴Cn⁵Sr⁶Qc

NFC-FED 2-24-81-BG3- 6IN L846903-09 Solid

Collected by
Sean T. NorrisCollected date/time
07/12/16 16:09Received date/time
07/14/16 09:00

| Method | Batch | Dilution | Preparation date/time | Analysis date/time | Analyst |
|------------------------------|----------|----------|--------------------------|-----------------------|---------|
| Metals (ICP) by Method 6010B | WG888840 | 1 | 07/14/16 16:55 | 07/15/16 00:37 | LTB |

⁷Gl⁸Al⁹Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. 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.

Shane Gambill
Technical Service Representative

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



Volatile Organic Compounds (GC) by Method 8015/8021

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------------|-----------------|-----------|--------------|----------|-------------------------|--------------------------|
| Benzene | ND | | 0.0121 | 24.25 | 07/19/2016 15:22 | WG889621 |
| Toluene | ND | | 0.121 | 24.25 | 07/19/2016 15:22 | WG889621 |
| Ethylbenzene | 0.0475 | <u>B</u> | 0.0121 | 24.25 | 07/19/2016 15:22 | WG889621 |
| Total Xylene | 0.465 | | 0.0364 | 24.25 | 07/19/2016 15:22 | WG889621 |
| TPH (GC/FID) Low Fraction | 29.5 | | 2.42 | 24.25 | 07/19/2016 00:10 | WG889621 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.6 | | 59.0-128 | | 07/19/2016 00:10 | WG889621 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.3 | | 59.0-128 | | 07/19/2016 15:22 | WG889621 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | 54.0-144 | | 07/19/2016 15:22 | WG889621 |
| (S) a,a,a-Trifluorotoluene(PID) | 102 | | 54.0-144 | | 07/19/2016 00:10 | WG889621 |

Sample Narrative:

8015/8021 L846903-01 WG889621: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------------------------|-----------------|-----------|--------------|----------|-------------------------|--------------------------|
| TPH (GC/FID) High Fraction | 122 | | 4.00 | 1 | 07/15/2016 14:17 | WG888881 |
| (S) o-Terphenyl | 55.7 | | 50.0-150 | | 07/15/2016 14:17 | WG888881 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015/8021

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------------|-----------------|-----------|--------------|----------|-------------------------|--------------------------|
| Benzene | ND | | 0.0120 | 24 | 07/19/2016 15:45 | WG889621 |
| Toluene | ND | | 0.120 | 24 | 07/19/2016 15:45 | WG889621 |
| Ethylbenzene | ND | | 0.0120 | 24 | 07/19/2016 15:45 | WG889621 |
| Total Xylene | ND | <u>B</u> | 0.0360 | 24 | 07/19/2016 15:45 | WG889621 |
| TPH (GC/FID) Low Fraction | 9.39 | | 2.40 | 24 | 07/19/2016 00:32 | WG889621 |
| (S) a,a,a-Trifluorotoluene(FID) | 95.1 | | 59.0-128 | | 07/19/2016 00:32 | WG889621 |
| (S) a,a,a-Trifluorotoluene(FID) | 96.5 | | 59.0-128 | | 07/19/2016 15:45 | WG889621 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | 54.0-144 | | 07/19/2016 15:45 | WG889621 |
| (S) a,a,a-Trifluorotoluene(PID) | 101 | | 54.0-144 | | 07/19/2016 00:32 | WG889621 |

Sample Narrative:

8015/8021 L846903-02 WG889621: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------------------------|-----------------|-----------|--------------|----------|-------------------------|--------------------------|
| TPH (GC/FID) High Fraction | 1430 | | 80.0 | 20 | 07/16/2016 01:28 | WG888881 |
| (S) o-Terphenyl | 0.000 | <u>J7</u> | 50.0-150 | | 07/16/2016 01:28 | WG888881 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015/8021

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-----------------------------------------|-----------------|-----------|--------------|----------|-------------------------|--------------------------|
| Benzene | ND | | 0.0250 | 50 | 07/18/2016 01:27 | WG889492 |
| Toluene | ND | | 0.250 | 50 | 07/18/2016 01:27 | WG889492 |
| Ethylbenzene | ND | | 0.0250 | 50 | 07/18/2016 01:27 | WG889492 |
| Total Xylene | 0.447 | | 0.0750 | 50 | 07/18/2016 01:27 | WG889492 |
| TPH (GC/FID) Low Fraction | 26.2 | | 5.00 | 50 | 07/18/2016 01:27 | WG889492 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 99.0 | | 59.0-128 | | 07/18/2016 01:27 | WG889492 |
| (S) <i>a,a,a</i> -Trifluorotoluene(PID) | 102 | | 54.0-144 | | 07/18/2016 01:27 | WG889492 |

Sample Narrative:

8015/8021 L846903-03 WG889492: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------------------------|-----------------|-----------|--------------|----------|-------------------------|--------------------------|
| TPH (GC/FID) High Fraction | 620 | | 20.0 | 5 | 07/15/2016 19:07 | WG888881 |
| (S) <i>o</i> -Terphenyl | 111 | | 50.0-150 | | 07/15/2016 19:07 | WG888881 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015/8021

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|-----------------------------------------|-----------------|-----------|--------------|----------|-------------------------|--------------------------|
| Benzene | ND | | 0.000500 | 1 | 07/19/2016 07:59 | WG889492 |
| Toluene | ND | | 0.00500 | 1 | 07/19/2016 07:59 | WG889492 |
| Ethylbenzene | ND | | 0.000500 | 1 | 07/19/2016 07:59 | WG889492 |
| Total Xylene | ND | | 0.00150 | 1 | 07/19/2016 07:59 | WG889492 |
| TPH (GC/FID) Low Fraction | 0.271 | | 0.100 | 1 | 07/19/2016 07:59 | WG889492 |
| (S) <i>a,a,a</i> -Trifluorotoluene(FID) | 95.8 | | 59.0-128 | | 07/19/2016 07:59 | WG889492 |
| (S) <i>a,a,a</i> -Trifluorotoluene(PID) | 102 | | 54.0-144 | | 07/19/2016 07:59 | WG889492 |

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------------------------|-----------------|-----------|--------------|----------|-------------------------|--------------------------|
| TPH (GC/FID) High Fraction | 670 | | 20.0 | 5 | 07/16/2016 01:39 | WG888881 |
| (S) <i>o</i> -Terphenyl | 115 | | 50.0-150 | | 07/16/2016 01:39 | WG888881 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Volatile Organic Compounds (GC) by Method 8015/8021

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------------|-----------------|-----------|--------------|----------|-------------------------|--------------------------|
| Benzene | ND | | 0.0612 | 122.5 | 07/18/2016 02:09 | WG889492 |
| Toluene | ND | | 0.612 | 122.5 | 07/18/2016 02:09 | WG889492 |
| Ethylbenzene | 0.839 | | 0.0612 | 122.5 | 07/18/2016 02:09 | WG889492 |
| Total Xylene | 20.3 | | 0.184 | 122.5 | 07/18/2016 02:09 | WG889492 |
| TPH (GC/FID) Low Fraction | 723 | | 12.2 | 122.5 | 07/18/2016 02:09 | WG889492 |
| (S) a,a,a-Trifluorotoluene(FID) | 99.1 | | 59.0-128 | | 07/18/2016 02:09 | WG889492 |
| (S) a,a,a-Trifluorotoluene(PID) | 102 | | 54.0-144 | | 07/18/2016 02:09 | WG889492 |

Sample Narrative:

8015/8021 L846903-05 WG889492: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------------------------|-----------------|--------------------|--------------|----------|-------------------------|--------------------------|
| TPH (GC/FID) High Fraction | 2510 | | 80.0 | 20 | 07/15/2016 19:18 | WG888881 |
| (S) o-Terphenyl | 0.000 | J7 | 50.0-150 | | 07/15/2016 19:18 | WG888881 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Calculated Results

| Analyte | Result | Qualifier | Dilution | Analysis date / time | Batch |
|-------------------------|--------|-----------|----------|----------------------|----------|
| Sodium Adsorption Ratio | 2.15 | | 1 | 07/16/2016 19:11 | WG888848 |

Calculated Results

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|--------------------|--------------|-----------|-----------|----------|----------------------|--------------------------|
| Chromium,Trivalent | 20.6 | | 2.00 | 1 | 07/15/2016 16:56 | WG888840 |

Wet Chemistry by Method 3060A/7196A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------|--------------|-----------|-----------|----------|----------------------|--------------------------|
| Chromium,Hexavalent | ND | | 2.00 | 1 | 07/15/2016 16:56 | WG888129 |

Wet Chemistry by Method 9050AMod

| Analyte | Result umhos/cm | Qualifier | Dilution | Analysis date / time | Batch |
|----------------------|-----------------|-----------|----------|----------------------|--------------------------|
| Specific Conductance | 154 | | 1 | 07/14/2016 12:45 | WG888870 |

Mercury by Method 7471A

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|--------------|-----------|-----------|----------|----------------------|--------------------------|
| Mercury | ND | | 0.0200 | 1 | 07/15/2016 08:00 | WG888833 |

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------|--------------|-----------|-----------|----------|----------------------|--------------------------|
| Arsenic | 5.71 | | 2.00 | 1 | 07/15/2016 00:24 | WG888840 |
| Barium | 50.3 | | 0.500 | 1 | 07/15/2016 00:24 | WG888840 |
| Cadmium | ND | | 0.500 | 1 | 07/15/2016 00:24 | WG888840 |
| Chromium | 20.6 | | 1.00 | 1 | 07/15/2016 00:24 | WG888840 |
| Copper | 4.00 | | 2.00 | 1 | 07/15/2016 00:24 | WG888840 |
| Lead | 6.43 | | 0.500 | 1 | 07/15/2016 00:24 | WG888840 |
| Nickel | 2.12 | | 2.00 | 1 | 07/15/2016 00:24 | WG888840 |
| Selenium | ND | | 2.00 | 1 | 07/15/2016 00:24 | WG888840 |
| Silver | ND | | 1.00 | 1 | 07/15/2016 00:24 | WG888840 |
| Zinc | 14.5 | | 5.00 | 1 | 07/15/2016 00:24 | WG888840 |

Volatile Organic Compounds (GC) by Method 8015/8021

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------------------------------|--------------|-----------|-----------|----------|----------------------|--------------------------|
| Benzene | 0.00879 | | 0.00600 | 12 | 07/18/2016 02:30 | WG889492 |
| Toluene | ND | | 0.0600 | 12 | 07/18/2016 02:30 | WG889492 |
| Ethylbenzene | 0.00922 | | 0.00600 | 12 | 07/18/2016 02:30 | WG889492 |
| Total Xylene | 0.646 | | 0.0180 | 12 | 07/18/2016 02:30 | WG889492 |
| TPH (GC/FID) Low Fraction | 38.8 | | 1.20 | 12 | 07/18/2016 02:30 | WG889492 |
| (S) a,a,a-Trifluorotoluene(FID) | 101 | | 59.0-128 | | 07/18/2016 02:30 | WG889492 |
| (S) a,a,a-Trifluorotoluene(PID) | 103 | | 54.0-144 | | 07/18/2016 02:30 | WG889492 |

Semi-Volatile Organic Compounds (GC) by Method 8015

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|----------------------------|--------------|--------------------|-----------|----------|----------------------|--------------------------|
| TPH (GC/FID) High Fraction | 1010 | | 80.0 | 20 | 07/16/2016 02:13 | WG888881 |
| (S) o-Terphenyl | 135 | J7 | 50.0-150 | | 07/16/2016 02:13 | WG888881 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|------------------------|-----------------|--------------------|--------------|----------|-------------------------|--------------------------|
| Anthracene | 0.160 | | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Acenaphthene | 0.149 | | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Acenaphthylene | ND | | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Benzo(a)anthracene | ND | | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Benzo(a)pyrene | ND | | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Benzo(b)fluoranthene | ND | | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Benzo(g,h,i)perylene | ND | | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Benzo(k)fluoranthene | ND | | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Chrysene | ND | | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Dibenz(a,h)anthracene | ND | | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Fluoranthene | 0.214 | J3 | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Fluorene | 0.272 | | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Indeno(1,2,3-cd)pyrene | ND | | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Naphthalene | 0.643 | | 0.400 | 20 | 07/18/2016 08:09 | WG889001 |
| Phenanthrene | 0.574 | | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| Pyrene | 0.181 | J4 | 0.120 | 20 | 07/18/2016 08:09 | WG889001 |
| 1-Methylnaphthalene | 0.604 | | 0.400 | 20 | 07/18/2016 08:09 | WG889001 |
| 2-Methylnaphthalene | 1.15 | | 0.400 | 20 | 07/18/2016 08:09 | WG889001 |
| 2-Chloronaphthalene | ND | | 0.400 | 20 | 07/18/2016 08:09 | WG889001 |
| (S) p-Terphenyl-d14 | 75.5 | J7 | 32.2-131 | | 07/18/2016 08:09 | WG889001 |
| (S) Nitrobenzene-d5 | 181 | J7 | 22.1-146 | | 07/18/2016 08:09 | WG889001 |
| (S) 2-Fluorobiphenyl | 84.2 | J7 | 40.6-122 | | 07/18/2016 08:09 | WG889001 |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Sample Narrative:

8270C-SIM L846903-06 WG889001: Dilution due to matrix



Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|-----------------|-----------|--------------|----------|-------------------------|--------------------------|
| Arsenic | 4.98 | | 2.00 | 1 | 07/15/2016 00:32 | WG888840 |

¹
Cp

²
Tc

³
Ss

⁴
Cn

⁵
Sr

⁶
Qc

⁷
Gl

⁸
Al

⁹
Sc

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | Qualifier | RDL mg/kg | Dilution | Analysis date / time | Batch |
|---------|-----------------|-----------|--------------|----------|-------------------------|--------------------------|
| Arsenic | 4.84 | | 2.00 | 1 | 07/15/2016 00:35 | WG888840 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Metals (ICP) by Method 6010B

| Analyte | Result mg/kg | <u>Qualifier</u> | RDL mg/kg | Dilution | Analysis date / time | <u>Batch</u> |
|---------|-----------------|------------------|--------------|----------|-------------------------|--------------------------|
| Arsenic | 4.33 | | 2.00 | 1 | 07/15/2016 00:37 | WG888840 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3150105-1 07/15/16 16:25

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------------------|-----------|--------------|--------|--------|
| Analyte | mg/kg | | mg/kg | mg/kg |
| Chromium,Hexavalent | U | | 0.640 | 2.00 |

L846437-01 Original Sample (OS) • Duplicate (DUP)

(OS) L846437-01 07/15/16 16:38 • (DUP) R3150105-4 07/15/16 16:38

| | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|---------------------|-----------------|------------|----------|---------|---------------|----------------|
| Analyte | mg/kg | mg/kg | | % | | % |
| Chromium,Hexavalent | ND | ND | 1 | 0.000 | | 20 |

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

(LCS) R3150105-2 07/15/16 16:26 • (LCSD) R3150105-3 07/15/16 16:26

| | 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 | % | % | % | | | % | % |
| Chromium,Hexavalent | 56.9 | 49.4 | 49.4 | 87.0 | 87.0 | 80.0-120 | | | 0.000 | 20 |

L846437-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L846437-01 07/15/16 16:38 • (MS) R3150105-5 07/15/16 16:38 • (MSD) R3150105-6 07/15/16 16:40

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Chromium,Hexavalent | 20.0 | ND | 13.2 | 13.7 | 66.0 | 68.0 | 1 | 75.0-125 | J6 | J6 | 4.00 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) WG888870-8 07/14/16 12:45

| Analyte | MB Result | MB Qualifier | MB MDL | MB RDL |
|----------------------|-----------|--------------|----------|----------|
| | umhos/cm | | umhos/cm | umhos/cm |
| Specific Conductance | 2.00 | | | |

L846898-06 Original Sample (OS) • Duplicate (DUP)

(OS) L846898-06 07/14/16 12:45 • (DUP) WG888870-5 07/14/16 12:45

| Analyte | Original Result | DUP Result | Dilution | DUP RPD | DUP Qualifier | DUP RPD Limits |
|----------------------|-----------------|------------|----------|---------|---------------|----------------|
| | umhos/cm | umhos/cm | | % | | % |
| Specific Conductance | 318 | 319 | 1 | 0.314 | | 20 |

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

(LCS) WG888870-6 07/14/16 12:45 • (LCSD) WG888870-7 07/14/16 12:45

| Analyte | Spike Amount | LCS Result | LCSD Result | LCS Rec. | LCSD Rec. | Rec. Limits | LCS Qualifier | LCSD Qualifier | RPD | RPD Limits |
|----------------------|--------------|------------|-------------|----------|-----------|-------------|---------------|----------------|-------|------------|
| | umhos/cm | umhos/cm | umhos/cm | % | % | % | | | % | % |
| Specific Conductance | 653 | 666 | 664 | 102 | 102 | 90.0-110 | | | 0.301 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3149951-1 07/15/16 07:39

| | MB Result | MB Qualifier | MB MDL | MB RDL |
|---------|-----------|--------------|--------|--------|
| Analyte | mg/kg | | mg/kg | mg/kg |
| Mercury | U | | 0.0028 | 0.0200 |

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

(LCS) R3149951-2 07/15/16 07:42 • (LCSD) R3149951-3 07/15/16 07:45

| | 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 | % | % | % | | | % | % |
| Mercury | 0.300 | 0.267 | 0.262 | 89 | 87 | 80-120 | | | 2 | 20 |

L846898-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L846898-06 07/15/16 07:48 • (MS) R3149951-4 07/15/16 07:51 • (MSD) R3149951-5 07/15/16 07:54

| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
|---------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|-----|------------|
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| Mercury | 0.300 | ND | 0.280 | 0.266 | 91 | 86 | 1 | 75-125 | | | 5 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3149852-1 07/14/16 23:59

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|----------|--------------------|--------------|-----------------|-----------------|
| Arsenic | U | | 0.65 | 2.00 |
| Barium | U | | 0.17 | 0.500 |
| Cadmium | U | | 0.07 | 0.500 |
| Chromium | U | | 0.14 | 1.00 |
| Copper | U | | 0.53 | 2.00 |
| Lead | 0.233 | J | 0.19 | 0.500 |
| Nickel | U | | 0.49 | 2.00 |
| Selenium | U | | 0.74 | 2.00 |
| Silver | U | | 0.28 | 1.00 |
| Zinc | 0.957 | J | 0.59 | 5.00 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3149852-2 07/15/16 00:02 • (LCSD) R3149852-3 07/15/16 00:04

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|----------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Arsenic | 100 | 97.6 | 99.7 | 98 | 100 | 80-120 | | | 2 | 20 |
| Barium | 100 | 100 | 102 | 100 | 102 | 80-120 | | | 2 | 20 |
| Cadmium | 100 | 101 | 103 | 101 | 103 | 80-120 | | | 2 | 20 |
| Chromium | 100 | 100 | 102 | 100 | 102 | 80-120 | | | 2 | 20 |
| Copper | 100 | 98.7 | 101 | 99 | 101 | 80-120 | | | 2 | 20 |
| Lead | 100 | 104 | 106 | 104 | 106 | 80-120 | | | 2 | 20 |
| Nickel | 100 | 99.1 | 101 | 99 | 101 | 80-120 | | | 2 | 20 |
| Selenium | 100 | 98.4 | 101 | 98 | 101 | 80-120 | | | 3 | 20 |
| Silver | 100 | 100 | 102 | 100 | 102 | 80-120 | | | 2 | 20 |
| Zinc | 100 | 102 | 103 | 102 | 103 | 80-120 | | | 1 | 20 |

L846919-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L846919-06 07/15/16 00:07 • (MS) R3149852-6 07/15/16 00:16 • (MSD) R3149852-7 07/15/16 00:19

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------|--------------------------------|-----------------------------------|--------------------------|------------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Arsenic | 129 | 6.21 | 144 | 146 | 106 | 108 | 1 | 75-125 | | | 1 | 20 |
| Barium | 129 | 136 | 267 | 276 | 101 | 108 | 1 | 75-125 | | | 3 | 20 |
| Cadmium | 129 | 0.309 | 142 | 143 | 110 | 110 | 1 | 75-125 | | | 1 | 20 |
| Chromium | 129 | 9.91 | 132 | 134 | 95 | 96 | 1 | 75-125 | | | 2 | 20 |
| Copper | 129 | 11.6 | 153 | 152 | 109 | 108 | 1 | 75-125 | | | 1 | 20 |
| Lead | 129 | 10.7 | 150 | 152 | 108 | 109 | 1 | 75-125 | | | 2 | 20 |



L846919-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L846919-06 07/15/16 00:07 • (MS) R3149852-6 07/15/16 00:16 • (MSD) R3149852-7 07/15/16 00:19

| Analyte | Spike Amount (dry) mg/kg | Original Result (dry) mg/kg | MS Result (dry) mg/kg | MSD Result (dry) mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------|-----------------------------|--------------------------------|--------------------------|---------------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Nickel | 129 | 8.84 | 143 | 144 | 104 | 105 | 1 | 75-125 | | | 1 | 20 |
| Selenium | 129 | U | 140 | 144 | 108 | 111 | 1 | 75-125 | | | 3 | 20 |
| Silver | 129 | U | 148 | 148 | 114 | 114 | 1 | 75-125 | | | 0 | 20 |
| Zinc | 129 | 43.6 | 173 | 173 | 100 | 100 | 1 | 75-125 | | | 0 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R3150475-5 07/17/16 23:00

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|--------------------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene | U | | 0.000120 | 0.000500 |
| Toluene | 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 |
| (S) a,a,a-Trifluorotoluene(FID) 99.1 | | | 59.0-128 | |
| (S) a,a,a-Trifluorotoluene(PID) 102 | | | 54.0-144 | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3150475-1 07/17/16 21:16 • (LCSD) R3150475-2 07/17/16 21:37

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene | 0.0500 | 0.0457 | 0.0467 | 91.4 | 93.4 | 70.0-130 | | | 2.23 | 20 |
| Toluene | 0.0500 | 0.0500 | 0.0508 | 100 | 102 | 70.0-130 | | | 1.43 | 20 |
| Ethylbenzene | 0.0500 | 0.0506 | 0.0513 | 101 | 103 | 70.0-130 | | | 1.43 | 20 |
| Total Xylene | 0.150 | 0.157 | 0.159 | 104 | 106 | 70.0-130 | | | 1.17 | 20 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | 99.1 | 99.0 | 59.0-128 | | | | |
| (S) a,a,a-Trifluorotoluene(PID) | | | | 103 | 103 | 54.0-144 | | | | |

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

(LCS) R3150475-3 07/17/16 21:58 • (LCSD) R3150475-4 07/17/16 22:19

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| TPH (GC/FID) Low Fraction | 5.50 | 5.82 | 6.04 | 106 | 110 | 63.5-137 | | | 3.76 | 20 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | 101 | 100 | 59.0-128 | | | | |
| (S) a,a,a-Trifluorotoluene(PID) | | | | 105 | 105 | 54.0-144 | | | | |

L846905-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L846905-01 07/18/16 02:51 • (MS) R3150475-6 07/17/16 23:42 • (MSD) R3150475-7 07/18/16 00:03

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---------------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene | 0.0500 | ND | 0.0264 | 0.0163 | 52.9 | 32.7 | 1 | 49.7-127 | | J3 J6 | 47.1 | 23.5 |
| Toluene | 0.0500 | ND | 0.0267 | 0.0153 | 52.2 | 29.4 | 1 | 49.8-132 | | J3 J6 | 54.3 | 23.5 |
| Ethylbenzene | 0.0500 | 0.00173 | 0.0243 | 0.0133 | 45.1 | 23.1 | 1 | 40.8-141 | | J3 J6 | 58.6 | 23.8 |
| Total Xylene | 0.150 | 0.0122 | 0.0760 | 0.0425 | 42.5 | 20.2 | 1 | 41.2-140 | J6 | J3 J6 | 56.6 | 23.7 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | | 97.1 | 97.7 | | 59.0-128 | | | | |



L846905-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| | | | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|---------------------|----------------------|-----|------------|
| (OS) L846905-01 07/18/16 02:51 • (MS) R3150475-6 07/17/16 23:42 • (MSD) R3150475-7 07/18/16 00:03 | | | | | | | | | | | | |
| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | <u>MS Qualifier</u> | <u>MSD Qualifier</u> | RPD | RPD Limits |
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| (S) a,a,a-Trifluorotoluene(PID) | | | | | 101 | 101 | | 54.0-144 | | | | |

L846905-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

| (OS) L846905-01 07/18/16 02:51 • (MS) R3150475-8 07/18/16 00:24 • (MSD) R3150475-9 07/18/16 00:45 | | | | | | | | | | | | |
|---------------------------------------------------------------------------------------------------|--------------|-----------------|-----------|------------|---------|----------|----------|-------------|--------------|---------------|------|------------|
| | Spike Amount | Original Result | MS Result | MSD Result | MS Rec. | MSD Rec. | Dilution | Rec. Limits | MS Qualifier | MSD Qualifier | RPD | RPD Limits |
| Analyte | mg/kg | mg/kg | mg/kg | mg/kg | % | % | | % | | | % | % |
| TPH (GC/FID) Low Fraction | 5.50 | 1.17 | 1.92 | 2.93 | 13.5 | 31.8 | 1 | 28.5-138 | J6 | J3 | 41.6 | 23.6 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | | 96.8 | 96.3 | | 59.0-128 | | | | |
| (S) a,a,a-Trifluorotoluene(PID) | | | | | 103 | 103 | | 54.0-144 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3150564-3 07/18/16 14:34

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|--------------------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene | U | | 0.000120 | 0.000500 |
| Toluene | 0.000626 | J | 0.000150 | 0.00500 |
| Ethylbenzene | 0.000225 | J | 0.000110 | 0.000500 |
| Total Xylene | U | | 0.000460 | 0.00150 |
| TPH (GC/FID) Low Fraction | 0.0275 | J | 0.0217 | 0.100 |
| (S) a,a,a-Trifluorotoluene(FID) 94.9 | | | | 59.0-128 |
| (S) a,a,a-Trifluorotoluene(PID) 102 | | | | 54.0-144 |

Method Blank (MB)

(MB) R3150703-3 07/19/16 09:15

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|--------------------------------------|--------------------|--------------|-----------------|-----------------|
| Benzene | U | | 0.000120 | 0.000500 |
| Toluene | 0.000290 | J | 0.000150 | 0.00500 |
| Ethylbenzene | 0.000212 | J | 0.000110 | 0.000500 |
| Total Xylene | U | | 0.000460 | 0.00150 |
| TPH (GC/FID) Low Fraction | 0.0525 | J | 0.0217 | 0.100 |
| (S) a,a,a-Trifluorotoluene(FID) 95.1 | | | | 59.0-128 |
| (S) a,a,a-Trifluorotoluene(PID) 102 | | | | 54.0-144 |

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

(LCS) R3150564-1 07/18/16 13:28 • (LCSD) R3150564-2 07/18/16 13:50

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| TPH (GC/FID) Low Fraction | 5.50 | 5.97 | 5.94 | 109 | 108 | 63.5-137 | | | 0.480 | 20 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | 105 | 105 | 59.0-128 | | | | |
| (S) a,a,a-Trifluorotoluene(PID) | | | | 112 | 112 | 54.0-144 | | | | |

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

(LCS) R3150703-1 07/19/16 08:08 • (LCSD) R3150703-2 07/19/16 08:30

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|--------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Benzene | 0.0500 | 0.0436 | 0.0464 | 87.3 | 92.7 | 70.0-130 | | | 6.03 | 20 |
| Toluene | 0.0500 | 0.0444 | 0.0460 | 88.8 | 91.9 | 70.0-130 | | | 3.50 | 20 |
| Ethylbenzene | 0.0500 | 0.0449 | 0.0472 | 89.8 | 94.3 | 70.0-130 | | | 4.90 | 20 |
| Total Xylene | 0.150 | 0.138 | 0.144 | 92.2 | 95.7 | 70.0-130 | | | 3.78 | 20 |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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

(LCS) R3150703-1 07/19/16 08:08 • (LCSD) R3150703-2 07/19/16 08:30

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|---------------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| (S) a,a,a-Trifluorotoluene(FID) | | | | 95.2 | 95.0 | 59.0-128 | | | | |
| (S) a,a,a-Trifluorotoluene(PID) | | | | 101 | 100 | 54.0-144 | | | | |

L847320-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L847320-01 07/18/16 16:13 • (MS) R3150564-4 07/18/16 16:35 • (MSD) R3150564-5 07/18/16 16:57

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---------------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| Benzene | 0.0500 | ND | 0.0456 | 0.0468 | 91.1 | 93.7 | 1 | 49.7-127 | | | 2.74 | 23.5 |
| Toluene | 0.0500 | ND | 0.0439 | 0.0452 | 87.1 | 89.6 | 1 | 49.8-132 | | | 2.85 | 23.5 |
| Ethylbenzene | 0.0500 | 0.000513 | 0.0431 | 0.0445 | 85.1 | 88.0 | 1 | 40.8-141 | | | 3.27 | 23.8 |
| Total Xylene | 0.150 | ND | 0.129 | 0.134 | 85.6 | 88.4 | 1 | 41.2-140 | | | 3.22 | 23.7 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | | 94.9 | 93.6 | | 59.0-128 | | | | |
| (S) a,a,a-Trifluorotoluene(PID) | | | | | 101 | 99.4 | | 54.0-144 | | | | |

L847320-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L847320-01 07/18/16 16:13 • (MS) R3150564-6 07/18/16 17:19 • (MSD) R3150564-7 07/18/16 17:42

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|---------------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| TPH (GC/FID) Low Fraction | 5.50 | ND | 4.56 | 4.22 | 81.4 | 75.2 | 1 | 28.5-138 | | | 7.74 | 23.6 |
| (S) a,a,a-Trifluorotoluene(FID) | | | | | 101 | 100 | | 59.0-128 | | | | |
| (S) a,a,a-Trifluorotoluene(PID) | | | | | 108 | 108 | | 54.0-144 | | | | |

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc



Method Blank (MB)

(MB) R3149977-1 07/15/16 03:22

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|----------------------------|--------------------|--------------|-----------------|-----------------|
| TPH (GC/FID) High Fraction | U | | 0.769 | 4.00 |
| (S) o-Terphenyl | 69.3 | | | 50.0-150 |

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

(LCS) R3149977-2 07/15/16 03:34 • (LCSD) R3149977-3 07/15/16 08:01

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|----------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| TPH (GC/FID) High Fraction | 60.0 | 38.7 | 42.5 | 64.5 | 70.8 | 50.0-150 | | | 9.23 | 20 |
| (S) o-Terphenyl | | | | 65.8 | 63.8 | 50.0-150 | | | | |

L846898-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L846898-02 07/15/16 12:01 • (MS) R3149977-4 07/15/16 12:12 • (MSD) R3149977-5 07/15/16 12:23

| Analyte | Spike Amount mg/kg | Original Result mg/kg | MS Result mg/kg | MSD Result mg/kg | MS Rec. % | MSD Rec. % | Dilution | Rec. Limits % | MS Qualifier | MSD Qualifier | RPD % | RPD Limits % |
|----------------------------|-----------------------|--------------------------|--------------------|---------------------|--------------|---------------|----------|------------------|--------------|---------------|----------|-----------------|
| TPH (GC/FID) High Fraction | 60.0 | ND | 40.7 | 37.9 | 65.0 | 60.2 | 1 | 50.0-150 | | | 7.33 | 20 |
| (S) o-Terphenyl | | | | | 68.5 | 62.6 | | 50.0-150 | | | | |

Method Blank (MB)

(MB) R3150279-3 07/16/16 01:12

| Analyte | MB Result mg/kg | MB Qualifier | MB MDL mg/kg | MB RDL mg/kg |
|------------------------|--------------------|--------------|-----------------|-----------------|
| Anthracene | U | | 0.000600 | 0.00600 |
| Acenaphthene | U | | 0.000600 | 0.00600 |
| Acenaphthylene | U | | 0.000600 | 0.00600 |
| Benzo(a)anthracene | U | | 0.000600 | 0.00600 |
| Benzo(a)pyrene | U | | 0.000600 | 0.00600 |
| Benzo(b)fluoranthene | U | | 0.000600 | 0.00600 |
| Benzo(g,h,i)perylene | U | | 0.000600 | 0.00600 |
| Benzo(k)fluoranthene | U | | 0.000600 | 0.00600 |
| Chrysene | U | | 0.000600 | 0.00600 |
| Dibenz(a,h)anthracene | U | | 0.000600 | 0.00600 |
| Fluoranthene | U | | 0.000600 | 0.00600 |
| Fluorene | U | | 0.000600 | 0.00600 |
| Indeno(1,2,3-cd)pyrene | U | | 0.000600 | 0.00600 |
| Naphthalene | U | | 0.00200 | 0.0200 |
| Phenanthrene | U | | 0.000600 | 0.00600 |
| Pyrene | U | | 0.000600 | 0.00600 |
| 1-Methylnaphthalene | U | | 0.00200 | 0.0200 |
| 2-Methylnaphthalene | U | | 0.00200 | 0.0200 |
| 2-Chloronaphthalene | U | | 0.00200 | 0.0200 |
| (S) p-Terphenyl-d14 | 98.5 | | | 32.2-131 |
| (S) Nitrobenzene-d5 | 98.4 | | | 22.1-146 |
| (S) 2-Fluorobiphenyl | 95.9 | | | 40.6-122 |

1

Cp

2

Tc

3

Ss

4

Cn

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Sr

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Qc

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Gl

8

Al

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Sc

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

(LCS) R3150279-1 07/16/16 00:30 • (LCSD) R3150279-2 07/16/16 00:51

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | LCS Qualifier | LCSD Qualifier | RPD % | RPD Limits % |
|-----------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|---------------|----------------|----------|-----------------|
| Anthracene | 0.0800 | 0.0836 | 0.0887 | 105 | 111 | 50.3-130 | | | 5.86 | 20 |
| Acenaphthene | 0.0800 | 0.0854 | 0.0856 | 107 | 107 | 52.4-120 | | | 0.310 | 20 |
| Acenaphthylene | 0.0800 | 0.0846 | 0.0856 | 106 | 107 | 49.6-120 | | | 1.13 | 20 |
| Benzo(a)anthracene | 0.0800 | 0.0902 | 0.0906 | 113 | 113 | 46.7-125 | | | 0.460 | 20 |
| Benzo(a)pyrene | 0.0800 | 0.0870 | 0.0902 | 109 | 113 | 42.3-119 | | | 3.57 | 20 |
| Benzo(b)fluoranthene | 0.0800 | 0.0959 | 0.0929 | 120 | 116 | 43.6-124 | | | 3.14 | 20 |
| Benzo(g,h,i)perylene | 0.0800 | 0.0887 | 0.0902 | 111 | 113 | 45.1-132 | | | 1.69 | 20 |
| Benzo(k)fluoranthene | 0.0800 | 0.0827 | 0.0883 | 103 | 110 | 46.1-131 | | | 6.47 | 20 |
| Chrysene | 0.0800 | 0.0860 | 0.0875 | 107 | 109 | 49.5-131 | | | 1.74 | 20 |
| Dibenz(a,h)anthracene | 0.0800 | 0.0884 | 0.0893 | 111 | 112 | 44.8-133 | | | 1.03 | 20 |
| Fluoranthene | 0.0800 | 0.0832 | 0.102 | 104 | 128 | 49.3-128 | | J3 | 20.5 | 20 |

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

(LCS) R3150279-1 07/16/16 00:30 • (LCSD) R3150279-2 07/16/16 00:51

| Analyte | Spike Amount mg/kg | LCS Result mg/kg | LCSD Result mg/kg | LCS Rec. % | LCSD Rec. % | Rec. Limits % | <u>LCS Qualifier</u> | <u>LCSD Qualifier</u> | RPD % | RPD Limits % |
|------------------------|-----------------------|---------------------|----------------------|---------------|----------------|------------------|----------------------|-----------------------|----------|-----------------|
| Fluorene | 0.0800 | 0.0810 | 0.0817 | 101 | 102 | 50.6-121 | | | 0.850 | 20 |
| Indeno(1,2,3-cd)pyrene | 0.0800 | 0.0891 | 0.0905 | 111 | 113 | 46.1-135 | | | 1.64 | 20 |
| Naphthalene | 0.0800 | 0.0782 | 0.0791 | 97.7 | 98.8 | 49.6-115 | | | 1.09 | 20 |
| Phenanthrene | 0.0800 | 0.0879 | 0.0898 | 110 | 112 | 48.8-121 | | | 2.07 | 20 |
| Pyrene | 0.0800 | 0.106 | 0.108 | 132 | 135 | 44.7-130 | J4 | J4 | 2.05 | 20 |
| 1-Methylnaphthalene | 0.0800 | 0.0843 | 0.0859 | 105 | 107 | 50.6-122 | | | 1.81 | 20 |
| 2-Methylnaphthalene | 0.0800 | 0.0834 | 0.0847 | 104 | 106 | 50.4-120 | | | 1.44 | 20 |
| 2-Chloronaphthalene | 0.0800 | 0.0840 | 0.0846 | 105 | 106 | 53.9-121 | | | 0.780 | 20 |
| (S) p-Terphenyl-d14 | | | | 106 | 104 | 32.2-131 | | | | |
| (S) Nitrobenzene-d5 | | | | 112 | 111 | 22.1-146 | | | | |
| (S) 2-Fluorobiphenyl | | | | 106 | 103 | 40.6-122 | | | | |

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Abbreviations and Definitions

| | |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SDG | Sample Delivery Group. |
| MDL | Method Detection Limit. |
| RDL | Reported Detection Limit. |
| ND | Not detected at the Reporting Limit (or MDL where applicable). |
| U | Not detected at the Reporting Limit (or MDL where applicable). |
| RPD | Relative Percent Difference. |
| (dry) | Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils]. |
| Original Sample | The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG. |
| (S) | 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. |
| Rec. | Recovery. |

Qualifier Description

| | |
|----|-------------------------------------------------------------------------------------------------------|
| B | The same analyte is found in the associated blank. |
| J | The identification of the analyte is acceptable; the reported value is an estimate. |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J4 | The associated batch QC was outside the established quality control range for accuracy. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low. |
| J7 | Surrogate recovery cannot be used for control limit evaluation due to dilution. |

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc



ESC Lab Sciences 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. Our 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.

State Accreditations

| | | | |
|-----------------------|-------------|-----------------------------|-------------------|
| Alabama | 40660 | Nevada | TN-03-2002-34 |
| Alaska | UST-080 | New Hampshire | 2975 |
| Arizona | AZ0612 | New Jersey–NELAP | TN002 |
| Arkansas | 88-0469 | New Mexico | TN00003 |
| California | 01157CA | New York | 11742 |
| Colorado | TN00003 | North Carolina | Env375 |
| Connecticut | PH-0197 | North Carolina ¹ | DW21704 |
| Florida | E87487 | North Carolina ² | 41 |
| Georgia | NELAP | North Dakota | R-140 |
| Georgia ¹ | 923 | Ohio–VAP | CL0069 |
| Idaho | TN00003 | Oklahoma | 9915 |
| Illinois | 200008 | Oregon | TN200002 |
| Indiana | C-TN-01 | Pennsylvania | 68-02979 |
| Iowa | 364 | Rhode Island | 221 |
| Kansas | E-10277 | South Carolina | 84004 |
| Kentucky ¹ | 90010 | South Dakota | n/a |
| Kentucky ² | 16 | Tennessee ¹⁴ | 2006 |
| Louisiana | AI30792 | Texas | T 104704245-07-TX |
| Maine | TN0002 | Texas ⁵ | LAB0152 |
| Maryland | 324 | Utah | 6157585858 |
| Massachusetts | M-TN003 | Vermont | VT2006 |
| Michigan | 9958 | Virginia | 109 |
| Minnesota | 047-999-395 | Washington | C1915 |
| Mississippi | TN00003 | West Virginia | 233 |
| Missouri | 340 | Wisconsin | 9980939910 |
| Montana | CERT0086 | Wyoming | A2LA |
| Nebraska | NE-OS-15-05 | | |

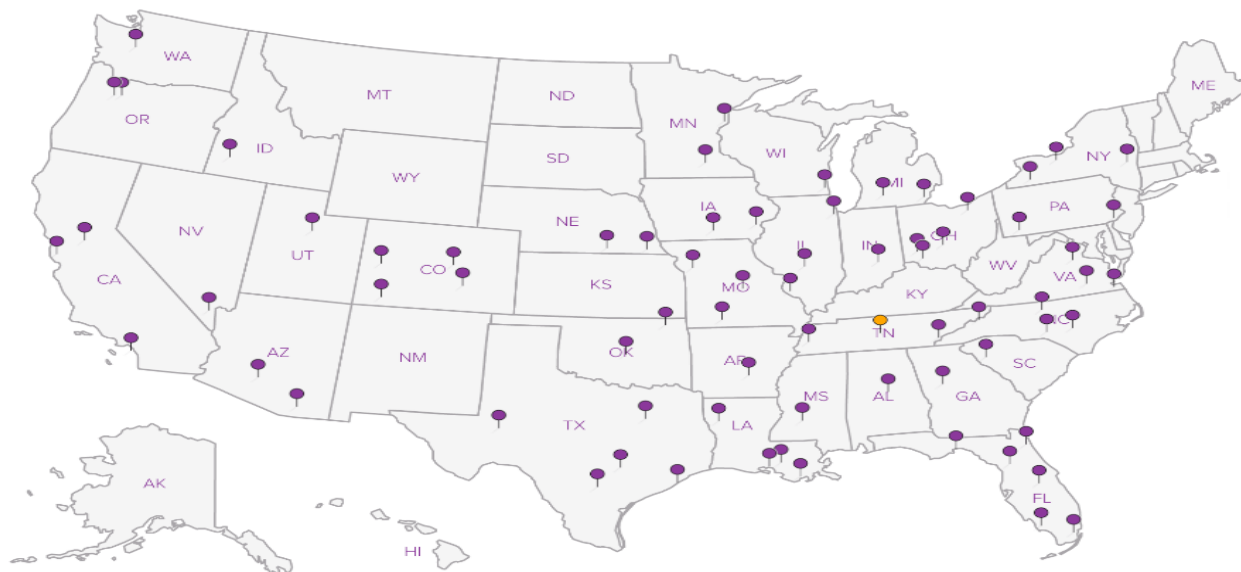
Third Party & Federal Accreditations



| | | | |
|-------------------------------|---------|------|---------|
| A2LA – ISO 17025 | 1461.01 | AIHA | 100789 |
| A2LA – ISO 17025 ⁵ | 1461.02 | DOD | 1461.01 |
| Canada | 1461.01 | USDA | S-67674 |
| EPA–Crypto | TN00003 | | |

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

Our Locations

ESC Lab Sciences 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. **ESC Lab Sciences performs all testing at our central laboratory.**



| Company Name/Address: Norris Environmental LLC 778 23 Road Grand Junction, CO 81505 | | | | Billing Information: Same | | | | Analysis / Container / Preservative | | | | | | | | | | Chain of Custody Page ____ of ____  L.A.B S.C.I.E.N.C.E.S YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Report to: Sean T. Norris | | | | Email To: sean@norrisenvironmentalllc.com | | | | <div style="display: flex; justify-content: space-around; font-weight: bold;"> BTEX GRO/DRO - 8021/8015 SV8270PAHSIM - 8270SIM SPCON - 9050AMod SAR - CALC RCRA8 Metals + Cu, Ni and Zn - 6010/7470 CR6SS - 3060A/7196 CR3 - CALC Arsenic </div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Description: National Fuel Corp Fed 2-24-81 Pit | | | | City/State Collected: Mesa County CO | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone: 970-241-9974 Fax: | | Client Project # Fed 2-24-81 | | Lab Project # | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Collected by (print): Sean T. Norris | | Site/Facility ID # Fed 2-24-81 Pit | | P.O. # | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Collected by (signature): <div style="border: 1px solid black; padding: 2px;"> Immediately Packed on Ice N ____ Y <input checked="" type="checkbox"/> </div> | | Rush? (Lab MUST Be Notified) <input type="checkbox"/> Same Day200% <input type="checkbox"/> Next Day100% <input type="checkbox"/> Two Day50% <input checked="" type="checkbox"/> Three Day25% | | Date Results Needed Email? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes FAX? <input type="checkbox"/> No <input type="checkbox"/> Yes | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample ID</th> <th>Comp/Grab</th> <th>Matrix *</th> <th>Depth</th> <th>Date</th> <th>Time</th> <th>No. of Cntrs</th> </tr> </thead> <tbody> <tr><td>NFC-Fed 2-24-81-N-</td><td>Grab</td><td>SS</td><td>6"</td><td>7/12/2016</td><td>3:37</td><td>2</td></tr> <tr><td>NFC-Fed 2-24-81-E-</td><td>Grab</td><td>SS</td><td>6"</td><td>7/12/2016</td><td>3:41</td><td>2</td></tr> <tr><td>NFC-Fed 2-24-81-S-</td><td>Grab</td><td>SS</td><td>6"</td><td>7/12/2016</td><td>3:40</td><td>2</td></tr> <tr><td>NFC-Fed 2-24-81-W-</td><td>Grab</td><td>SS</td><td>6"</td><td>7/12/2016</td><td>3:38</td><td>2</td></tr> <tr><td>NFC-Fed 2-24-81-BTM-</td><td>Grab</td><td>SS</td><td>6"</td><td>7/12/2016</td><td>3:43</td><td>2</td></tr> <tr><td>NFC-Fed 2-24-81-ETS-</td><td>Comp</td><td>SS</td><td>6"</td><td>7/12/2016</td><td>3:50</td><td>3</td></tr> <tr><td>NFC-Fed 2-24-81-BG1-</td><td>Grab</td><td>SS</td><td>6"</td><td>7/12/2016</td><td>3:59</td><td>1</td></tr> <tr><td>NFC-Fed 2-24-81-BG2-</td><td>Grab</td><td>SS</td><td>6"</td><td>7/12/2016</td><td>4:04</td><td>1</td></tr> <tr><td>NFC-Fed 2-24-81-BG3-</td><td>Grab</td><td>SS</td><td>6"</td><td>7/12/2016</td><td>4:09</td><td>1</td></tr> </tbody> </table> | | | | | | | Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | NFC-Fed 2-24-81-N- | Grab | SS | 6" | 7/12/2016 | 3:37 | 2 | NFC-Fed 2-24-81-E- | Grab | SS | 6" | 7/12/2016 | 3:41 | 2 | NFC-Fed 2-24-81-S- | Grab | SS | 6" | 7/12/2016 | 3:40 | 2 | NFC-Fed 2-24-81-W- | Grab | SS | 6" | 7/12/2016 | 3:38 | 2 | NFC-Fed 2-24-81-BTM- | Grab | SS | 6" | 7/12/2016 | 3:43 | 2 | NFC-Fed 2-24-81-ETS- | Comp | SS | 6" | 7/12/2016 | 3:50 | 3 | NFC-Fed 2-24-81-BG1- | Grab | SS | 6" | 7/12/2016 | 3:59 | 1 | NFC-Fed 2-24-81-BG2- | Grab | SS | 6" | 7/12/2016 | 4:04 | 1 | NFC-Fed 2-24-81-BG3- | Grab | SS | 6" | 7/12/2016 | 4:09 | 1 | | | | | | | | | | | L # 846903 <div style="border: 2px solid black; padding: 5px; font-weight: bold; font-size: 1.2em;">L181</div> | |
| Sample ID | Comp/Grab | Matrix * | Depth | Date | Time | No. of Cntrs | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NFC-Fed 2-24-81-N- | Grab | SS | 6" | 7/12/2016 | 3:37 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NFC-Fed 2-24-81-E- | Grab | SS | 6" | 7/12/2016 | 3:41 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NFC-Fed 2-24-81-S- | Grab | SS | 6" | 7/12/2016 | 3:40 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NFC-Fed 2-24-81-W- | Grab | SS | 6" | 7/12/2016 | 3:38 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NFC-Fed 2-24-81-BTM- | Grab | SS | 6" | 7/12/2016 | 3:43 | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NFC-Fed 2-24-81-ETS- | Comp | SS | 6" | 7/12/2016 | 3:50 | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NFC-Fed 2-24-81-BG1- | Grab | SS | 6" | 7/12/2016 | 3:59 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NFC-Fed 2-24-81-BG2- | Grab | SS | 6" | 7/12/2016 | 4:04 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NFC-Fed 2-24-81-BG3- | Grab | SS | 6" | 7/12/2016 | 4:09 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | Acctnum: Template: Prelogin: TSR: PB: Shipped Via: <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Rem./Contaminant</th> <th>Sample # (lab only)</th> </tr> </thead> <tbody> <tr><td></td><td>01</td></tr> <tr><td></td><td>02</td></tr> <tr><td></td><td>03</td></tr> <tr><td></td><td>04</td></tr> <tr><td></td><td>05</td></tr> <tr><td></td><td>06</td></tr> <tr><td></td><td>07</td></tr> <tr><td></td><td>08</td></tr> <tr><td></td><td>09</td></tr> </tbody> </table> | | | | | | | | | | Rem./Contaminant | Sample # (lab only) | | 01 | | 02 | | 03 | | 04 | | 05 | | 06 | | 07 | | 08 | | 09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rem./Contaminant | Sample # (lab only) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 09 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

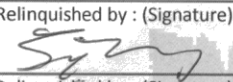

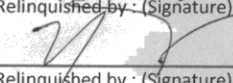
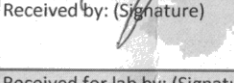
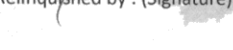
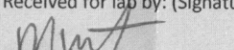
* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other _____

Remarks: _____

pH _____ Temp _____

Flow _____ Other _____

6645 0391 4262

| | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------|--|
| Relinquished by: (Signature)  | | Date: 7/13/16 Time: 5:37 | | Received by: (Signature)  | | Samples returned via: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Courier <input type="checkbox"/> _____ | | Condition: (lab use only) <div style="text-align: right; font-weight: bold;">Tall</div> | |
| Relinquished by: (Signature)  | | Date: 7/13/16 Time: 1800 | | Received by: (Signature)  | | Temp: 2.1° C Bottles Received: 16 = 402 | | COC Seal Intact: ____ Y ____ N <input checked="" type="checkbox"/> NA | |
| Relinquished by: (Signature)  | | Date: _____ Time: _____ | | Received for lab by: (Signature)  | | Date: 7-14-16 Time: 0900 | | pH Checked: _____ NCF: _____ | |