April 14, 2016

Report to:

Philip Nerenberg
Apex Laboratories
12232 S W Garden Place
Tigard, OR 97223

Bill to:

Philip Nerenberg
Apex Laboratories
12232 SW Garden Place
Tigard, OR 97223

Project ID: A6D0056 ACZ Project ID: L29851

Philip Nerenberg:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 12, 2016. This project has been assigned to ACZ's project number, L29851. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L29851. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after May 14, 2016. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Sue Webber has reviewed and approved this report.

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APEX LABORATORIES

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ACZ Project ID: L29851

| SAMPLE ID | LAB NO. | SAMPLE DATE | SAMPLE TIME |
|--------------|-----------|-------------|-------------|
| A6D0056-02 | L29851-01 | 4/1/2016 | 10:25 |
| A6D0056-04 | L29851-02 | 4/1/2016 | 11:05 |
| A6D0056-06 | L29851-03 | 4/1/2016 | 12:00 |
| A6D0056-08 | L29851-04 | 4/1/2016 | 16:00 |
| A6D0056-10 | L29851-05 | 4/1/2016 | 16:10 |
| 6040153-BLK1 | L29851-06 | 4/6/2016 | 15:22 |

L29851-1604181615

REPAD.13.06.05.01

Apex Laboratories April 18, 2016

Project ID: A6D0056 ACZ Project ID: L29851

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 6 miscellaneous samples from Apex Laboratories on April 12, 2016. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L29851. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports.

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Inorganic Analytical Results

Apex Laboratories

Project ID: A6D0056 Date Sampled: 04/01/16 10:25

Sample ID: A6D0056-02 Date Received: 04/12/16

Sample Matrix: Leachate

Wet Chemistry

| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|--------------------|-------------|----------|--------|------|----|-------|-----|-----|----------------|---------|
| Thiocyanate as SCN | SM4500-CN M | 1 | | U | * | mg/L | 0.1 | 0.5 | 04/13/16 15:36 | sck |

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Inorganic Analytical Results

Apex Laboratories

ACZ Sample ID: **L29851-02**

Date Sampled: 04/01/16 11:05

Date Received: 04/12/16

Sample Matrix: Leachate

Project ID: A6D0056

A6D0056-04

Wet Chemistry

Sample ID:

| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|--------------------|-------------|----------|--------|------|----|-------|-----|-----|----------------|---------|
| Thiocyanate as SCN | SM4500-CN M | 1 | | U | * | ma/l | 0.1 | 0.5 | 04/13/16 15:38 | sck |

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A6D0056

A6D0056-06

Inorganic Analytical Results

Apex Laboratories

ACZ Sample ID: **L29851-03**

Date Sampled: 04/01/16 12:00

Date Received: 04/12/16

Sample Matrix: Leachate

Wet Chemistry

Project ID:

Sample ID:

| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|--------------------|-------------|----------|--------|------|----|-------|-----|-----|----------------|---------|
| Thiocyanate as SCN | SM4500-CN M | 1 | | U | * | mg/L | 0.1 | 0.5 | 04/13/16 15:47 | sck |

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A6D0056

A6D0056-08

Inorganic Analytical Results

Apex Laboratories

ACZ Sample ID: **L29851-04**

Date Sampled: 04/01/16 16:00

Date Received: 04/12/16

Sample Matrix: Leachate

Wet Chemistry

Project ID:

Sample ID:

| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|--------------------|-------------|----------|--------|------|----|-------|-----|-----|----------------|---------|
| Thiocyanate as SCN | SM4500-CN M | 1 | | U | * | mg/L | 0.1 | 0.5 | 04/13/16 15:49 | sck |

L29851-1604181615

Inorganic Analytical Results

Apex Laboratories

Project ID: A6D0056 Date Sampled: 04/01/16 16:10

Sample ID: A6D0056-10 Date Received: 04/12/16

Sample Matrix: Leachate

Wet Chemistry

| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|--------------------|-------------|----------|--------|------|----|-------|-----|-----|----------------|---------|
| Thiocyanate as SCN | SM4500-CN M | 1 | | U | * | mg/L | 0.1 | 0.5 | 04/13/16 15:50 | sck |

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6040153-BLK1

Inorganic Analytical Results

Apex Laboratories

ACZ Sample ID: **L29851-06**

A6D0056 Date Sampled: 04/06/16 15:22

Date Received: 04/12/16 Sample Matrix: Leachate

Cample Matrix. Educate

Wet Chemistry

Project ID:

Sample ID:

| Parameter | EPA Method | Dilution | Result | Qual | XQ | Units | MDL | PQL | Date | Analyst |
|--------------------|-------------|----------|--------|------|----|-------|-----|-----|----------------|---------|
| Thiocyanate as SCN | SM4500-CN M | 1 | | U | * | ma/l | 0.1 | 0.5 | 04/13/16 15:52 | sck |

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

| Panort H | laadar | Evn | lanations |
|----------|--------|-----|-----------|
| report | eauei | | lanauons |

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5).

Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit. Synonymous with the EPA term "minimum level".

QC True Value of the Control Sample or the amount added to the Spike

Rec Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

| | mn | | |
|--|----|--|--|
| | | | |
| | | | |

| AS | Analytical Spike (Post Digestion) | LCSWD | Laboratory Control Sample - Water Duplicate |
|-------|--|-------|--|
| ASD | Analytical Spike (Post Digestion) Duplicate | LFB | Laboratory Fortified Blank |
| CCB | Continuing Calibration Blank | LFM | Laboratory Fortified Matrix |
| CCV | Continuing Calibration Verification standard | LFMD | Laboratory Fortified Matrix Duplicate |
| DUP | Sample Duplicate | LRB | Laboratory Reagent Blank |
| ICB | Initial Calibration Blank | MS | Matrix Spike |
| ICV | Initial Calibration Verification standard | MSD | Matrix Spike Duplicate |
| ICSAB | Inter-element Correction Standard - A plus B solutions | PBS | Prep Blank - Soil |
| LCSS | Laboratory Control Sample - Soil | PBW | Prep Blank - Water |
| LCSSD | Laboratory Control Sample - Soil Duplicate | PQV | Practical Quantitation Verification standard |
| LCSW | Laboratory Control Sample - Water | SDL | Serial Dilution |

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

- B Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
- H Analysis exceeded method hold time. pH is a field test with an immediate hold time.
- L Target analyte response was below the laboratory defined negative threshold.
- U The material was analyzed for, but was not detected above the level of the associated value.

The associated value is either the sample quantitation limit or the sample detection limit.

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples Supplement I, May 1994.
- (4) EPA SW-846. Test Methods for Evaluating Solid Waste.
- (5) Standard Methods for the Examination of Water and Wastewater.

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
- (4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
- (5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click:

http://www.acz.com/public/extquallist.pdf

REP001.03.15.02

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Apex Laboratories ACZ Project ID: L29851

| Thiocyanate as SCN SM4500-CN M | | | | | | | | | | | | | |
|--------------------------------|------|----------------|------------|-----|--------|-------|-------|-----|-------|-------|-----|-------|------|
| ACZ ID | Type | Analyzed | PCN/SCN | QC | Sample | Found | Units | Rec | Lower | Upper | RPD | Limit | Qual |
| WG401370 | | | | | | | | | | | | | |
| WG401370ICV | ICV | 04/13/16 15:20 | WC151217-3 | 2 | | 1.96 | mg/L | 98 | 90 | 110 | | | |
| WG401370ICB | ICB | 04/13/16 15:21 | | | | U | mg/L | | -0.3 | 0.3 | | | |
| WG401370LFB | LFB | 04/13/16 15:23 | WC151217-7 | 2.5 | | 2.37 | mg/L | 95 | 80 | 120 | | | |
| L29851-02AS | AS | 04/13/16 15:39 | WC151217-7 | 2.5 | U | 2.5 | mg/L | 100 | 80 | 120 | | | |
| L29851-02DUP | DUP | 04/13/16 15:45 | | | U | U | mg/L | | | | 0 | 20 | R/ |
| L29851-06AS | AS | 04/13/16 15:54 | WC151217-7 | 2.5 | U | 2.48 | mg/L | 99 | 80 | 120 | | | |
| L29851-06DUP | DUP | 04/13/16 15:56 | | | U | U | mg/L | | | | 0 | 20 | R/ |

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Inorganic Extended
Qualifier Report

Apex Laboratories ACZ Project ID: L29851

| ACZ ID | WORKNUM | PARAMETER | METHOD | QUAL | DESCRIPTION |
|-----------|----------|--------------------|-------------|------|---|
| L29851-01 | WG401370 | Thiocyanate as SCN | SM4500-CN M | RA | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). |
| L29851-02 | WG401370 | Thiocyanate as SCN | SM4500-CN M | RA | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). |
| L29851-03 | WG401370 | Thiocyanate as SCN | SM4500-CN M | RA | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). |
| L29851-04 | WG401370 | Thiocyanate as SCN | SM4500-CN M | RA | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). |
| L29851-05 | WG401370 | Thiocyanate as SCN | SM4500-CN M | RA | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). |
| L29851-06 | WG401370 | Thiocyanate as SCN | SM4500-CN M | RA | Relative Percent Difference (RPD) was not used for data validation because the concentration of the duplicated sample is too low for accurate evaluation (< 10x MDL). |

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Certification Qualifiers

Apex Laboratories ACZ Project ID: L29851

Wet Chemistry

The following parameters are not offered for certification or are not covered by AZ certificate #AZ0102.

Thiocyanate as SCN SM4500-CN M

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Thiocyanate as SCN SM4500-CN M

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Thiocyanate

QC List Type: QC-SPEC-CN-THIO

QCListMatClass: LIQUID

Bench Sheet List: I-SPEC-CN-THIO

QC Ref: icv/b-ccv/b-dup-as Group ID: WC-G-SPC-CN-THIO

Method Ref: SM4500 CN M SOP Ref: SOPWC022

WG401370



ACZ Laboratories, Inc

Instrument ID: SPEC2

Analyst: sck

ACZ Dept: 37

Create Date: 04/13/2016 14:37

Start Date/Time: 04/13/2016 15:20

End Date/Time: 04/13/2016 16:00

| SE Q | ACZ ID | Client ID | SubSX F | Pri Analysis Date | Cyanide | рН | filter date | Dilution | Comments |
|---------|--------------|--------------|---------|-------------------|---------|------|-------------|----------|----------|
| · · | | | | | (mg/L) | (pH) | | | |
| 1 | WG401370ICV | WC151217-3 | black | 04/13/16 15:20 | 1.961 | 1 | 4/13/2016 | 1 | |
| 2 | WG401370ICB | NONE | black | 04/13/16 15:21 | 0 | 1 | 4/13/2016 | 1 | |
| 3 | WG401370LFB | WC151217-7 | black | 04/13/16 15:23 | 2.369 | 1 | 4/13/2016 | 1 | |
| 4 | L29850-01 | A6D0013-02 | black | 04/13/16 15:25 | 0 | 1 | 4/13/2016 | 1 | |
| 5 | L29850-02 | A6D0013-04 | black | 04/13/16 15:27 | 0 | 1 | 4/13/2016 | 1 | |
| 6 | L29850-03 | A6D0013-06 | black | 04/13/16 15:29 | 0 | 1 | 4/13/2016 | 1 | |
| 7 | L29850-04 | A6D0013-08 | black | 04/13/16 15:30 | 0 | 1 | 4/13/2016 | 1 | |
| 8 | L29850-05 | A6D0013-10 | black | 04/13/16 15:32 | 0 | 1 | 4/13/2016 | 1 | |
| 9 | L29850-06 | A6D0013-12 | black | 04/13/16 15:34 | 0 | 1 | 4/13/2016 | 1 | |
| 10 | L29851-01 | A6D0056-02 | black | 04/13/16 15:36 | 0 | 1 | 4/13/2016 | 1 | |
| 11 | L29851-02 | A6D0056-04 | black | 04/13/16 15:38 | 0 | 1 | 4/13/2016 | 1 | |
| 12 | L29851-02AS | WC151217-7 | black | 04/13/16 15:39 | 2.503 | 1 | 4/13/2016 | 1 | |
| 13 | WG401370CCV1 | WC151217-6 | black | 04/13/16 15:41 | 4.975 | 1 | 4/13/2016 | 1 | |
| 14 | WG401370CCB1 | NONE | black | 04/13/16 15:43 | 0 | 1 | 4/13/2016 | 1 | |
| 15 | L29851-02DUP | NONE | black | 04/13/16 15:45 | 0 | 1 | 4/13/2016 | 1 | |
| 16 | L29851-03 | A6D0056-06 | black | 04/13/16 15:47 | 0 | 1 | 4/13/2016 | 1 | |
| 17 | L29851-04 | A6D0056-08 | black | 04/13/16 15:49 | 0.035 | 1 | 4/13/2016 | 1 | |
| 18 | L29851-05 | A6D0056-10 | black | 04/13/16 15:50 | 0 | 1 | 4/13/2016 | 1 | |
| 19 | L29851-06 | 6040153-BLK1 | black | 04/13/16 15:52 | 0 | 1 | 4/13/2016 | 1 | |
| 20 | L29851-06AS | WC151217-7 | black | 04/13/16 15:54 | 2.479 | 1 | 4/13/2016 | 1 | |
| 21 | L29851-06DUP | NONE | black | 04/13/16 15:56 | 0 | 1 | 4/13/2016 | 1 | |
| 22 | WG401370CCV2 | WC151217-6 | black | 04/13/16 15:58 | 4.956 | 1 | 4/13/2016 | 1 | |
| 23 | WG401370CCB2 | NONE | black | 04/13/16 15:59 | 0 | 1 | 4/13/2016 | 1 | |

| Report Comments: _ | | | | |
|---------------------|------|------|---------|------|
| | | | | |
| Internal Comments _ | | | <u></u> | |

SCK 4/13/16 AREV: Initials, Date

4/13/2016 4:27:21 PM

Thiocyanate

QC List Type: QC-SPEC-CN-THIO

QCListMatClass: LIQUID

Bench Sheet List: I-SPEC-CN-THIO

QC Ref: icv/b-ccv/b-dup-as

Group ID: WC-G-SPC-CN-THIO Method Ref: SM4500 CN M

SOP Ref: SOPWC022



ACZ Laboratories, Inc.

Instrument ID: SPEC2

Analyst: sck

ACZ Dept: 37

Create Date: 04/13/2016 14:37

Start Date/Time: 04/13/2016 15:20

End Date/Time: 04/13/2016 16:00

| Sample | Login Comments | |
|-----------|----------------|--|
| L29850-01 | BK | |
| L29850-02 | вк | |
| L29850-03 | вк | |
| L29850-04 | вк ІІ | |
| L29850-05 | вк | |
| L29850-06 | 8K | |
| L29851-01 | вк ІІ | |
| L29851-02 | вк ІІ | |
| L29851-03 | вк ІІ | |
| L29851-04 | вк II | |
| L29851-05 | вк | |
| L29851-06 | вк | |
| | | |

| Report Comments: | |
|-------------------|---|
| | |
| | |
| Internal Comments | |
| L29851-1604181615 | · |

| AREV: | |
|-------|----------------|
| | Initials, Date |
| | |

SREV: _

Initials, Page 16 of 29

| ACZ Laboratories, Ir | nc. EC / ISE PROBE DATA RÉVIEW (| CHECKLIST | AREV: Date: | SC1 4113 | | |
|---|--|----------------------------|----------------|------------------|-------------|----------|
| Work Group: Sample Type: Analysis Date: Analyst: | 401370 SCN 4)13116 JCIC | | SREV: Date: | 4/14/ | | |
| Instrument Checklist | | | | Yes | No | N/A |
| 1.) Is the calibration pa | assing (r \geq 0.995 for Spec or m = -5 | 59.16 +/- 5% for Fluorid | le)? | | | |
| 2.) Are all of the QC cr | itera listed in LIMS within specified | limits? | | | | |
| 3.) Are dilutions in the | appropriate range (explain if "B" or | "U" reported for sample | e)? | | I | A |
| 4.) Is any sample analy | zed on dilution appropriately "D" q | ualified (not required fo | r o-cal)? | | | A |
| 5.) Was each sample analyzed within method holding time? Flag data if "No." | | | | | | |
| 6.) Are all errors properly corrected (i.e. single-line crossout, dated & initialed)? | | | | | | |
| 7.) Is a current standar | d/reagent sheet attached to the wo | rkgroup? | | $\sqrt{\Lambda}$ | |] |
| 8.) FOR SREV: QA/Q | C approval for initial training or 2 se | ets of initials for WG & I | ∟IMS? | $\sqrt{}$ | | |
| "R" or "m" = | 1.000 | Spec Calibration Wo | orkgroup: [| 401 | <u>3</u> 70 | S |
| Digestion Temp °C : | | Time In: | ·—_ | | | |
| Disposable Vessel Lot | | Time Out: | | | | |
| For any item listed at | ove that is checked "No" state the | corrective action/explar | nation in th | ne sectior | ns bel | ow. |
| QC/Sample ID | Analytical Probl | | Cor | rective a | ction | |
| au sx's | not filtered by and field filtered | rly81, | nla | | | |
| | field tiltered | | 7- | | | |
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| Comments: | | | | | | |
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*Workgroup documentation must include the lot number(s) of all disposable vessels used for volumetric measurements.

Thiocyanate

QC List Type: QC-SPEC-CN-THIO

QCListMatClass: LIQUID

Bench Sheet List: I-SPEC-CN-THIO

QC Ref: icv/b-ccv/b-dup-as Group ID: WC-G-SPC-CN-THIO

Method Ref: SM4500 CN M SOP Ref: SOPWC022

WG401370



ACZ Laboratories, Inc.

Instrument ID: SPEC2

SCK Analyst:

ACZ Dept: 37

Create Date: 04/13/2016 14:37

Start Date/Time:

3:20034

End Date/Time: 4:00 pm

| SE Q | ACZ ID | Client ID | SubSX | Pri | Analysis Date | Cyanide | | pН | fi | lter date | Dilution | Comments |
|---------|---------------|--------------|-------|-----|---------------|---------|--------|----------|------|-----------|----------|----------|
| | | | | | | (mg/L) | | (pH) | | | | |
| 1 | WG401370ICV | WC151217-3 | | | | 1.961 | | 1.0 | 3,31 | (P) | 1 | |
| 2 | WG401370ICB | NONE | | | SCLUSIO | | J. 533 | 1 | ~ | | 1 | |
| 3 | WG401370LFB | WC151217-7 | | | | 2.369 | | | | | 1 | |
| 4 | L29850-01 | A6D0013-02 | | | | -0.073 | | | | - | 1 | |
| 5 | L29850-02 | ✓ A6D0013-04 | | | | -0.039 | | | | | 1 | |
| 6 | L29850-03 🗸 | A6D0013-06 | | | | -0.086 | | | | | 1 | |
| 7 | L29850-04 🗸 | A6D0013-08 | | | | -0.045 | | | | | 1 | |
| 8 | L29850-05 | ✓ A6D0013-10 | | | | -3.035 | | | | T - | 1 | |
| 9 | L29850-06 🗸 | A6D0013-12 | | | | -0.035 | | | | | 1 | |
| 10 | L29851-01 | A6D0056-02 | | | | -0.057 | | | | | 1 | |
| 11 | L29851-02 | A6D0056-04 | | | | -0.053 | | <u> </u> | | 1 | 1 | |
| 12 | L29851-02AS | WC151217-7 | | | SCL 4/13/10 | | 503 | | | | 1 | |
| 13 | WG401370CCV1 | WC151217-6 | | | | 4.975 | | | | | 1 | |
| 14 | WG401370CCB1 | NONE | | | | -0.067 | | | | | 1 | |
| 15 | L29851-02DUP | NONE | | | | -0.055 | | | | | 1 | |
| 16 | L29851-03 | A6D0056-06 | | | | -3.312 | | | | | 1 | |
| 17 | L29851-04 | A6D0056-08 | | | | 0.035 | | | | | 1 | |
| 18 | L29851-05 🗸 | A6D0056-10 | | | | o_o_3 | | | | | 1 | |
| 19 | L29851-06 | 6040153-BLK1 | | | | ~3.0°B3 | | | | | 1 | |
| 20 | L29851-06AS 🖌 | WC151217-7 | | | | 2.479 | | | | | 1 | |
| 21 | L29851-06DUP | NONE | | | | -0.387 | | | | | 1 | |
| 22 | WG401370CCV2 | WC151217-6 | | | | 4.956 | | | | | 1 | |
| 23 | WG401370CCB2 | NONE | | | | -0.062 | | 工 | | | 1 | |

| Report Comments: | AREV: | | |
|-------------------|-------|--------------------------|--|
| | | Initials, Date | |
| Internal Comments | SREV: | | |
| L29851-1604181615 | ONEV | Initials, Patge 18 of 29 | |

Thiocyanate

QC List Type: QC-SPEC-CN-THIO

QCListMatClass: LIQUID

Bench Sheet List: I-SPEC-CN-THIO

QC Ref: icv/b-ccv/b-dup-as

Group ID: WC-G-SPC-CN-THIO

Method Ref: SM4500 CN M SOP Ref: SOPWC022



| ACZ | Laboratories, Inc | : |
|-----|-------------------|---|
|-----|-------------------|---|

| Instrument ID: | •· · |
|------------------|------------------|
| Analyst: | |
| ACZ Dept: | 37 |
| Create Date: | 04/13/2016 14:37 |
| Start Date/Time: | |
| End Date/Time: | |

| Sample | Login Comments | |
|-----------|----------------|--|
| L29850-01 | BK | |
| L29850-02 | BK | |
| L29850-03 | BK | |
| L29850-04 | BK | |
| L29850-05 | вк | |
| L29850-06 | BK | |
| L29851-01 | BK | |
| L29851-02 | BK | |
| L29851-03 | BK | |
| L29851-04 | BK | |
| L29851-05 | BK | |
| L29851_06 | RK II | |

| Report Comments: | | _ |
|-------------------|--|---|
| | | |
| | | - |
| Internal Comments | | _ |
| L29851-1604181615 | | |

AREV: _____Initials, Date

SREV: _____

Initials, Page 19 of 29

ACZ LABORATORIES, INC 2773 Downhill Drive Steamboat Springs, CO 80487

Wet Chemistry Standards/Reagents Information

4/13/2016

| | Parameter: _ | Thiocyanate | _ Instr | SPEC | |
|-----------|--------------|---|------------|-------------------------------|--|
| | | | | | |
| | | REAGENT | PCN/SCN | EXPIRATION DATE | |
| Reagents: | F | Ferric Nitrate Color Reagent Nitric Acid | WC160129-1 | 1/29/2017 | |
| | L | 4113110 | PCD 4 1434 | 10.00 3/10/01 10.00 10 | |

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-0.033

b:

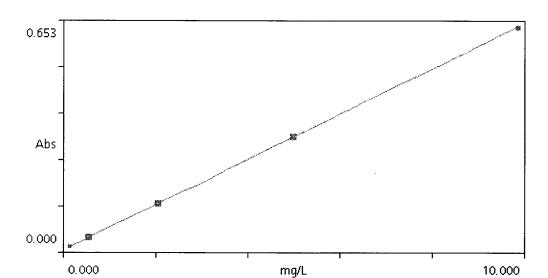
04-13-2016 15:37

9004 Program: Thiocyanate Name: Units: mg/L Wavelength: 460 nm Resolution: 0.001 Chemical Form 1: SCN

Calibration: C = a + bA

a:

Curve Fit r2= 1.0000



15.337

| mg/L | Abs |
|------------------|------------|
| | |
| 0.0000 | 0.000 |
| 0.5000 | 0.035 |
| 2.0000 | 0.133 |
| 5.0000 | 0.330 |
| 10.000 | 0.653 |
| | |
| Upper Limit: | 13.000 |
| Lower Limit: | -0.100 |
| Timer 1: | Off |
| Timer 2: | Off |
| Timer 3: | Off |
| Timer 4: | Off |
| Chemical Form 2: | Off |
| Chemical Form 3: | Off |
| Chemical Form 4: | Off |
| Created: | 04-13-2016 |

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and Approval

WG401370

Date Reported: 14-Apr-16

Run ID: R1390748

Date Analyzed: 13-Apr-16

ICAL Workgroup:

Instrument ID: SPEC2

| WG4 | 01370ICV | | Tag: | | | | | N | leasure | d: 4/13/ | 2016 3:20 | 0:00 PN |
|--------|-------------|---------|-------|-----|------|-------|------|-----|---------|------------|-----------|---------|
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | FOUND | 1.96 | 1 | | mg/L | ++ | 0.1 | 0.5 | | | |
| SREV | CYANIDE | REC | 98 | 1 | | % | ++ | 0.1 | 0.5 | | | |
| WG4 | 01370ICB | | Tag: | | | | | N | leasure | d: 4/13/ | 2016 3:2° | 1:49 PN |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | FOUND | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | | |
| WG4 | 01370LFB | | Tag: | | | | | N | leasure | d: 4/13/ | 2016 3:23 | 3:38 PN |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | FOUND | 2.37 | 1 | | mg/L | ++ | 0.1 | 0.5 | | | |
| SREV | CYANIDE | REC | 95 | 1 | | % | ++ | 0.1 | 0.5 | | | |
| L298 | 50-01 | | Tag: | | | | | N | leasure | d: 4/13/ | 2016 3:2 | 5:27 PN |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | CN-THIO | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | RA TA TB | 3 |
| NEED | FILTER DATE | REPDATE | | 1 | | | NEED | | | | TA TB | |
| NEED | PH | PREP | 1 | 1 | | рН | ++ | | | | TA TB | |
| L298 | 50-02 | | Tag: | | | | | N | leasure | d: 4/13 | 2016 3:27 | 7:16 PN |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | CN-THIO | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | RA TA TB | 3 |
| NEED | FILTER DATE | REPDATE | | 1 | | | NEED | | | | TA TB | |
| NEED | PH | PREP | 1 | 1 | | pН | ++ | | | | TA TB | |
| L298 | 50-03 | | Tag: | | | | | N | leasure | d: 4/13 | 2016 3:29 | 9:05 PN |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | CN-THIO | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | RA TA TE | 3 |
| NEED | FILTER DATE | REPDATE | | 1 | | | NEED | | | | TA TB | |
| NEED | PH | PREP | 1 | 1 | | pН | ++ | | | | TA TB | |
| L298 | 50-04 | | Tag: | | | | | N | leasure | d: 4/13 | 2016 3:30 | 0:54 PN |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | CN-THIO | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | RA TA TB | 3 |
| | FILTER DATE | REPDATE | | 1 | | | NEED | | | | TA TB | |
| NEED | TILILK DATE | | | | | | | | | | | |

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| L298 | 50-05 | | Tag: | | | | | M | leasure | d: 4/13/ | 2016 3:32 | 2:43 PN |
|-------------------------------------|---|----------------------|-------------------|----------------------|------------------|--------------------|------------|-----------------|-----------------------|------------|-------------------------|---------|
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | CN-THIO | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | RA TA TB | |
| NEED | FILTER DATE | REPDATE | | 1 | | | NEED | | | | TA TB | |
| NEED | PH | PREP | 1 | 1 | | рН | ++ | | | | TA TB | |
| L298 | 50-06 | | Tag: | | | | | M | easure | d: 4/13/ | 2016 3:34 | :32 PN |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | CN-THIO | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | RA TA TB | |
| NEED | FILTER DATE | REPDATE | | 1 | | | NEED | | | | TA TB | |
| NEED | PH | PREP | 1 | 1 | | рН | ++ | | | | TA TB | |
| L298 | 51-01 | | Tag: | | | | | M | easure | d: 4/13/ | 2016 3:36 | 5:21 PN |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | CN-THIO | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | RA TA TB | |
| NEED | FILTER DATE | REPDATE | | 1 | | | NEED | | | | TA TB | |
| NEED | PH | PREP | 1 | 1 | | рН | ++ | | | | TA TB | |
| L298 | 51-02 | | Tag: | | | | | M | easure | d: 4/13/ | 2016 3:38 | 3:10 PN |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | CN-THIO | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | RA TA TB | |
| NEED | FILTER DATE | REPDATE | | 1 | | 3 | NEED | | | | TA TB | |
| NEED | PH | PREP | 1 | 1 | | рН | ++ | | | | TA TB | |
| L298 | 51-02AS | | Tag: | | | | | M | easure | d: 4/13/ | 2016 3:39 | :59 PN |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | |
| SREV | CYANIDE | FOUND | 2.5 | 1 | | mg/L | ++ | 0.1 | 0.5 | | | |
| SREV | CYANIDE | REC | 100 | 1 | | % | ++ | 0.1 | 0.5 | | | |
| WG4 | 01370CCV1 | | Tag: | | | | | M | easure | d: 4/13/ | 2016 3:41 | :48 PN |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | FOUND | 4.98 | 1 | | mg/L | ++ | 0.1 | 0.5 | | | |
| SREV | CYANIDE | REC | 100 | 1 | | % | ++ | 0.1 | 0.5 | | | |
| WG4 | 01370CCB1 | | Tag: | | | | | M | easure | d: 4/13/ | 2016 3:43 | 3:37 PN |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| 0051/ | CYANIDE | FOUND | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | | |
| SKEV | | | Tag: | | | | | M | leasure | d: 4/13/ | 2016 3:45 | :26 PN |
| | 51-02DUP | | | | | Unite | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| L298 | 51-02DUP Parm_Stored | Туре | Value | Dil | Qual | Office | | | | | | |
| L298 | | | Value | Dil 1 | Qual | mg/L | ++ | 0.1 | 0.5 | | | |
| L298 | Parm_Stored | Туре | Value 0 | | | | ++ | 0.1 0.1 | 0.5 0.5 | | RA | |
| L298 Status SREV SREV | Parm_Stored CYANIDE CYANIDE | Type FOUND RPD | | 1 | | mg/L | | 0.1 | | d: 4/13/ | RA '2016 3:47 | ':15 PN |
| L298 | Parm_Stored CYANIDE CYANIDE | Type FOUND RPD | 0 | 1 | U | mg/L | | 0.1 | 0.5 | d: 4/13/ | 2016 3:47 | |
| L2989 Status SREV SREV L2989 Status | Parm_Stored CYANIDE CYANIDE 51-03 | Type FOUND RPD | 0 Tag : | 1 | U | mg/L % | ++ | 0.1 M | 0.5 leasure | | 2016 3:47 | Signal |
| L298 Status SREV SREV | Parm_Stored CYANIDE CYANIDE 51-03 Parm_Stored | Type FOUND RPD Type | 0 Tag : | 1 1 Dil | U Qual | mg/L % Units | ++ Appv | 0.1 M | 0.5 leasure PQL | | 2016 3:47 Ext Qual | Signal |

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| L298 | 51-04 | | Tag: | | | | | М | easure | d: 4/13/ | 2016 3:49 | :04 PM |
|--------|-------------|---------|-------|-----|------|-------|------|-----|--------|------------|-----------|---------|
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | CN-THIO | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | RA TA TB | |
| NEED | FILTER DATE | REPDATE | | 1 | | | NEED | | | | TA TB | |
| NEED | PH | PREP | 1 | 1 | | рН | ++ | | | | TA TB | |
| L298 | 51-05 | | Tag: | | | | | М | easure | d: 4/13/ | 2016 3:50 |):53 PM |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | CN-THIO | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | RA TA TB | |
| NEED | FILTER DATE | REPDATE | | 1 | | | NEED | | | | TA TB | |
| NEED | PH | PREP | 1 | 1 | | рН | ++ | | | | TA TB | |
| L298 | 51-06 | | Tag: | | | | | М | easure | d: 4/13/ | 2016 3:52 | 2:42 PM |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | CN-THIO | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | RA TA TB | |
| NEED | FILTER DATE | REPDATE | | 1 | | | NEED | | | | TA TB | |
| NEED | PH | PREP | 1 | 1 | | рН | ++ | | | | TA TB | |
| L298 | 51-06AS | | Tag: | | | | | М | easure | d: 4/13/ | 2016 3:54 | l:31 PM |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | FOUND | 2.48 | 1 | | mg/L | ++ | 0.1 | 0.5 | | | |
| SREV | CYANIDE | REC | 99 | 1 | | % | ++ | 0.1 | 0.5 | | | |
| L298 | 51-06DUP | | Tag: | | | | | М | easure | d: 4/13/ | 2016 3:56 | 6:20 PM |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | FOUND | | 1 | U | mg/L | ++ | 0.1 | 0.5 | | | |
| SREV | CYANIDE | RPD | 0 | 1 | | % | ++ | 0.1 | 0.5 | | RA | |
| WG4 | 01370CCV2 | | Tag: | | | | | М | easure | d: 4/13/ | 2016 3:58 | 3:09 PM |
| Status | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |
| SREV | CYANIDE | FOUND | 4.96 | 1 | | mg/L | ++ | 0.1 | 0.5 | | | |
| SREV | CYANIDE | REC | 99 | 1 | | % | ++ | 0.1 | 0.5 | | | |
| | 01370CCB2 | | Tag: | | | | | М | easure | d: 4/13/ | 2016 3:59 | :58 PM |
| WG4 | | | | | | | | | | | | |
| WG4 | Parm_Stored | Туре | Value | Dil | Qual | Units | Appv | MDL | PQL | Text Value | Ext Qual | Signal |

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Apex Laboratories

Project ID: L29851

Wet Chemistry

WG401370 Thiocyanate

| Sample | Date | SCN | CYANIDE | FILTER DATE |
|--------------|----------------|------------|---------|-------------|
| WG401370ICV | 04/13/16 15:20 | WC151217-3 | Х | |
| WG401370ICB | 04/13/16 15:21 | | X | |
| WG401370LFB | 04/13/16 15:23 | WC151217-7 | X | |
| L29850-01 | 04/13/16 15:25 | | X | |
| L29850-02 | 04/13/16 15:27 | | X | |
| L29850-03 | 04/13/16 15:29 | | X | |
| L29850-04 | 04/13/16 15:30 | | X | |
| L29850-05 | 04/13/16 15:32 | | X | |
| L29850-06 | 04/13/16 15:34 | | X | |
| L29851-01 | 04/13/16 15:36 | | Χ | |
| L29851-02 | 04/13/16 15:38 | | X | |
| L29851-02AS | 04/13/16 15:39 | WC151217-7 | X | |
| WG401370CCV1 | 04/13/16 15:41 | WC151217-6 | X | |
| WG401370CCB1 | 04/13/16 15:43 | | X | |
| L29851-02DUP | 04/13/16 15:45 | | X | |
| L29851-03 | 04/13/16 15:47 | | X | |
| L29851-04 | 04/13/16 15:49 | | X | |
| L29851-05 | 04/13/16 15:50 | | X | |
| L29851-06 | 04/13/16 15:52 | | Χ | |
| L29851-06AS | 04/13/16 15:54 | WC151217-7 | Χ | |
| L29851-06DUP | 04/13/16 15:56 | | Χ | |
| WG401370CCV2 | 04/13/16 15:58 | WC151217-6 | X | |
| WG401370CCB2 | 04/13/16 15:59 | | X | |

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Sample Receipt

L29851

NA

Χ

X

NA

Apex Laboratories ACZ Project ID:

A6D0056 Date Received: 04/12/2016 09:19

Received By: ddp
Date Printed: 4/12/2016

YES

Х

YES

Receipt Verification

- 1) Is a foreign soil permit included for applicable samples?
- 2) Is the Chain of Custody form or other directive shipping papers present?
- 3) Does this project require special handling procedures such as CLP protocol?
- 4) Are any samples NRC licensable material?
- 5) If samples are received past hold time, proceed with requested short hold time analyses?
- 6) Is the Chain of Custody form complete and accurate?
- 7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?

| | V | |
|---|---|--|
| Χ | | |
| Х | | |

NO

NO

Samples/Containers

- 8) Are all containers intact and with no leaks?
- 9) Are all labels on containers and are they intact and legible?
- 10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?
- 11) For preserved bottle types, was the pH checked and within limits? 1
- 12) Is there sufficient sample volume to perform all requested work?
- 13) Is the custody seal intact on all containers?
- 14) Are samples that require zero headspace acceptable?
- 15) Are all sample containers appropriate for analytical requirements?
- 16) Is there an Hg-1631 trip blank present?
- 17) Is there a VOA trip blank present?
- 18) Were all samples received within hold time?

| | Х | |
|---|---|---|
| | Х | |
| | Х | |
| | Х | |
| | Х | |
| | | Х |
| | | Χ |
| | Х | |
| | | Х |
| | | Х |
| | Х | |
| - | | |

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

| Cooler Id | Temp(°C) | Temp Criteria(°C) | Rad(µR/Hr) | Custody Seal Intact? |
|-----------|----------|----------------------|------------|-------------------------|
| | | | | |
| NA23692 | 2.7 | <=6.0 | 16 | N/A |

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.



Sample Receipt

Apex Laboratories

A6D0056

ACZ Project ID: L29851 Date Received: 04/12/2016 09:19 Received By: Date Printed: 4/12/2016

L29851-1604181615

REPAD LPII 2012-03

The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

SUBCONTRACT ORDER

Apex Laboratories A6D0056



SENDING LABORATORY:

Apex Laboratories

12232 S.W. Garden Place

Tigard, OR 97223 Phone: (503) 718-2323 Fax: (503) 718-0333

Project Manager:

Philip Nerenberg

RECEIVING LABORATORY:

ACZ Laboratories
2773 Downhill Drive

Steamboat Springs, CO 80487

Phone :(800) 334-5493 Fax: (815) 301-3857

| Sample Name: 5237-160401-DC-EMB038 | | Soil | Sampled: | Soil Embankment (0-3.5) 04/01/16 10:25 | (A6D0056-02) |
|--|----------------|---------------|----------|---|---------------------|
| Analysis | Due | Expires | | Comments | |
| Thiocyanate by SM 4500 | 04/14/16 17:00 | 04/15/16 10:2 | 5 | Level IV DP needed Sample house prior to sending to ACC | |
| Containers Supplied: (C)4 oz Glass Jar | | | | | |
| Sample Name: 5237-160401-DC-EMB039 | | Soil | Sampled: | Soil Embankment (0-3.5) 04/01/16 11:05 | (A6D0056-04) |
| Analysis | Due | Expires | | Comments | |
| Thiocyanate by SM 4500 Containers Supplied: | 04/14/16 17:00 | 04/15/16 11:0 | 5 | Level IV DP needed Sample house prior to sending to AC | |
| (C)4 oz Glass Jar | | | | | |
| | | | | Soil Embankment (0-3) | |
| Sample Name: 5237-160401-DC-EMB046 | | Soil | Sampled: | 04/01/16 12:00 | (A6D0056-06) |
| Analysis | Due | Expires | | Comments | ·· |
| Thiocyanate by SM 4500 | 04/14/16 17:00 | 04/15/16 12:0 | 0 | Level IV DP needed Sample house prior to sending to AC | |
| Containers Supplied: (C)4 oz Glass Jar | | | | | |
| | | | | NDP Soil Embankment (0-3 | .5) Label Reads 523 |
| Sample Name: 5237-160401-NDP-EMB002 | 2 | Soil | Sampled: | 04/01/16 16:00 | (A6D0056-08) |
| Analysis | Due | Expires | | Comments | |
| Thiocyanate by SM 4500 | 04/14/16 17:00 | 04/15/16 16:0 | 0 | Level IV DP needed Sample house prior to sending to ACZ | |
| Containers Supplied | | | | | .5. |
| 29851 Chain of Custod | | | <u>-</u> | | |
| 1) / | Stand | level | TA | T | |
| XXXX 4/11/110 | | | | S (Shipper) | |
| Released By Date | | Received By | | Date | |

Received By

Released By

UPS (Shipper)

Date

SUBCONTRACT ORDER

Apex Laboratories A6D0056



| | | 6.11 | | NDP Soil Embankment | , |
|--|----------------|----------------|----------|--|--------------|
| Sample Name: 5237-160401-NDP-EMB003 | 3 | Soil | Sampled: | 04/01/16 16:10 | (A6D0056-10) |
| Analysis | Due | Expires | | Comments | |
| Thiocyanate by SM 4500 | 04/14/16 17:00 | 04/15/16 16:10 |) | Level IV DP needed San house prior to sending to | |
| Containers Supplied: | | | | | |

Released By

Date

Received By

Date

Received By

Date

Received By

Date

L29851-1604181615

(C)4 oz Glass Jar

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