

| | | | | | | | |
|------------------|---------|-----------|-------------|--------------|-------|--------------|---------|
| Case No: | 41861 | Contract: | EPW11034 | SDG No: | E3P25 | Lab Code: | PEL |
| Sample Number: | VHBLK6T | Method: | VOA_Low_Med | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | | pH: | 1.8 | Sample Date: | | Sample Time: | |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|---------------------------------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Dichlorodifluoro methane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Chloromethane | 5.0 | ug/L | 1.0 | JB | U | Yes | |
| Vinyl chloride | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Bromomethane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Chloroethane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Trichlorofluorom ethane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,1-Dichloroethene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Acetone | 20 | ug/L | 1.0 | JB | U | Yes | |
| Carbon disulfide | 5.0 | ug/L | 1.0 | JB | U | Yes | |
| Methyl Acetate | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Methylene chloride | 10 | ug/L | 1.0 | JB | U | Yes | |
| trans-1,2-Dichloroethene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Methyl tert-butyl ether | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,1-Dichloroethane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| cis-1,2-Dichloroethene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 2-Butanone | 10 | ug/L | 1.0 | U | U | Yes | |
| Bromochloromet hane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Chloroform | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,1,1-Trichloroethane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Cyclohexane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Carbon tetrachloride | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Benzene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,2-Dichloroethane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,4-Dioxane | 100 | ug/L | 1.0 | U | R | Yes | |
| Trichloroethene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Methylcyclohexa ne | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,2-Dichloropropane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Bromodichlorom | 5.0 | ug/L | 1.0 | U | U | Yes | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|-----------------------------|--------|-------|-----------------|----------|------------|------------|------------------|
| ethane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| cis-1,3-Dichloropropene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 4-Methyl-2-pentanone | 10 | ug/L | 1.0 | U | U | Yes | |
| Toluene | 5.0 | ug/L | 1.0 | JB | U | Yes | |
| trans-1,3-Dichloropropene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,1,2-Trichloroethane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Tetrachloroethene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 2-Hexanone | 10 | ug/L | 1.0 | U | U | Yes | |
| Dibromochloroethane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,2-Dibromoethane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Chlorobenzene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Ethylbenzene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| o-Xylene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| m,p-Xylene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Styrene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Bromoform | 5.0 | ug/L | 1.0 | U | U | Yes | |
| Isopropylbenzene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,1,1,2-Tetrachloroethane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,3-Dichlorobenzene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,4-Dichlorobenzene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,2-Dichlorobenzene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,2-Dibromo-3-chloropropane | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,2,4-Trichlorobenzene | 5.0 | ug/L | 1.0 | U | U | Yes | |
| 1,2,3-Trichlorobenzene | 5.0 | ug/L | 1.0 | U | U | Yes | |

National Functional Guidelines Report #09

Lab PEL(PEL Laboratories, Inc.) SDG E3P25 Case 41861 Contract EPW11034 Region 5 DDTID 136414 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P25 Location=SW-04 Matrix=Water Level=Low

| CAS No. | Compound Name | RT (mins) | Concentration | | Lab Qualifier |
|---------|----------------|--------------|---------------|--|---------------|
| 65-85-0 | Benzoic acid_1 | 6.828217 | 4.2 ug/L | | NJ |

National Functional Guidelines Report #09

Lab PEL(PEL Laboratories, Inc.) SDG E3P25 Case 41861 Contract EPW11034 Region 5 DDTID 136414 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=E3P35 Location=MW-11 Matrix=Water Level=Low

| CAS No. | Compound Name | RT (mins) | Concentration | | Lab Qualifier |
|---------|----------------|--------------|---------------|--|---------------|
| 65-85-0 | Benzoic acid_1 | 6.833800 | 6.3 ug/L | | NJ |

National Functional Guidelines Report #09

Lab PEL(PEL Laboratories, Inc.) SDG E3P25 Case 41861 Contract EPW11034 Region 5 DDTID 136414 SOW SOM01.2

Tentatively Identified Compounds

BNA Sample=SBLK4B Location= Matrix=Water Level=Low

| CAS No. | Compound Name | RT (mins) | Concentration | | Lab Qualifier |
|---------|---------------|--------------|---------------|--|---------------|
| | Unknown_1 | 15.19890 | 2.8 ug/L | | J |

Edit History Report

Case No: 41861

Contract: EPW11034

SDG No: E3P25

Lab Code: PEL

Method: BNA

| Sample | Matrix | Analyte Name | Data Field | Old Value | New Value | User | Edit Date Time | Global |
|----------|--------|---------------|-----------------|-----------|-----------|----------------|-----------------|--------|
| E3P25 | Water | Acenaphthene | Validation Flag | U | UJ | Michele Traina | 12/8/11 1:41 PM | |
| E3P25 | Water | Phenol | Validation Flag | U | UJ | Michele Traina | 12/8/11 1:41 PM | |
| E3P25 | Water | Pyrene | Validation Flag | U | UJ | Michele Traina | 12/8/11 1:41 PM | |
| E3P25MSD | Water | 4-Nitrophenol | Validation Flag | J | | Michele Traina | 12/8/11 1:42 PM | |
| E3P25MSD | Water | Acenaphthene | Validation Flag | J | | Michele Traina | 12/8/11 1:42 PM | |

Method: VOA_Low_Med

| Sample | Matrix | Analyte Name | Data Field | Old Value | New Value | User | Edit Date Time | Global |
|----------|--------|--------------------|------------------|-----------|-----------|----------------|-----------------|--------|
| E3P25 | Water | Methylene chloride | Validated Result | 5.0 | 10 | Michele Traina | 12/8/11 1:36 PM | |
| E3P25MS | Water | Acetone | Validated Result | 10 | 20 | Michele Traina | 12/8/11 1:37 PM | |
| E3P25MS | Water | Methylene chloride | Validated Result | 5.0 | 10 | Michele Traina | 12/8/11 1:37 PM | |
| E3P25MSD | Water | Methylene chloride | Validated Result | 5.0 | 10 | Michele Traina | 12/8/11 1:37 PM | |
| E3P35 | Water | Methylene chloride | Validated Result | 5.0 | 10 | Michele Traina | 12/8/11 1:38 PM | |
| VHBLK6T | Water | Acetone | Validated Result | 2.0 | 20 | Michele Traina | 12/8/11 1:39 PM | |
| VHBLK6T | Water | Acetone | Validation Flag | J | U | Michele Traina | 12/8/11 1:39 PM | |
| VHBLK6T | Water | Carbon disulfide | Validated Result | 0.17 | 5.0 | Michele Traina | 12/8/11 1:39 PM | |
| VHBLK6T | Water | Carbon disulfide | Validation Flag | J | U | Michele Traina | 12/8/11 1:39 PM | |
| VHBLK6T | Water | Chloromethane | Validated Result | 0.34 | 5.0 | Michele Traina | 12/8/11 1:39 PM | |
| VHBLK6T | Water | Chloromethane | Validation Flag | J | U | Michele Traina | 12/8/11 1:39 PM | |
| VHBLK6T | Water | Methylene chloride | Validated Result | 0.33 | 10 | Michele Traina | 12/8/11 1:39 PM | |
| VHBLK6T | Water | Methylene chloride | Validation Flag | J | U | Michele Traina | 12/8/11 1:39 PM | |
| VHBLK6T | Water | Toluene | Validated Result | 0.079 | 5.0 | Michele Traina | 12/8/11 1:39 PM | |
| VHBLK6T | Water | Toluene | Validation Flag | J | U | Michele Traina | 12/8/11 1:39 PM | |



USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

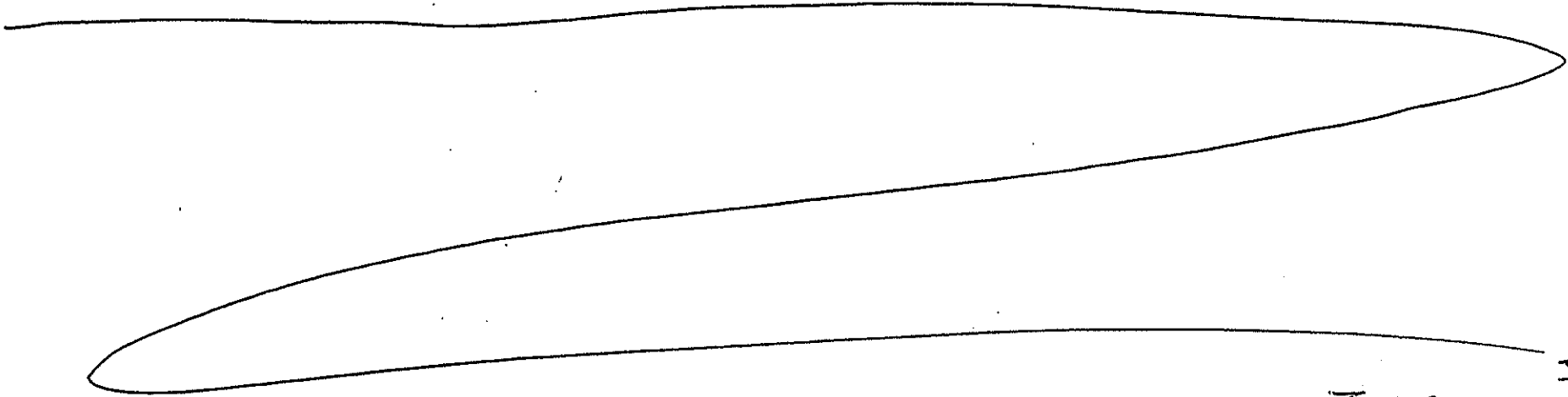
3504263
3509238
N

Case No: 41861
DAS No: E3P25
SDG No: E3P21 NY

Orig 11

| | | | | | |
|--|--|---------------------|--|------------------------------|----------------------|
| Date Shipped: 10/13/11 Carrier Name: UPS Airbill: 1Z-549-OW4-22-1008-2485 Shipped to: Spectrum Analytical, Inc. DBA: PEL Laboratories 8405 Benjamin Road Suite A Tampa FL 33634 (813) 888-9507 | Chain of Custody Record | | Sampler Signature: <i>John Spielberg</i> | For Lab Use Only | |
| | Relinquished By (Date / Time) | | Received By (Date / Time) | Lab Contract No: EP-W-11-034 | Unit Price: \$354.00 |
| | 1. <i>John Spielberg, 10/13/11, 1600 Nit</i> | <i>10-14-11 935</i> | — | Transfer To: — | Lab Contract No: — |
| | 2. — | — | — | Unit Price: — | — |
| 3. — | — | — | — | — | |
| 4. — | — | — | — | — | |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|--------------------|----------------------------------|------------|----------------------------------|---|------------------|--------------------------|----------------------|---|
| E3P25 | Surface Water/ John Spielberg | L/G | BNAPESTPCB (21), CLP VOA (21) | 5-1185 (HCL), 5-1186 (HCL), 5-1187 (HCL), 5-1188 (HCL), 5-1189 (HCL), 5-1190 (HCL), 5-1191 (Ice Only), 5-1192 (Ice Only), 5-1193 (Ice Only), 5-1194 (Ice Only) (10) | SW-04 | 10/12/11, 1515 | ME3P25 | 05-06-07 61-02-03 N 10-14-11 |



3.0C

MF

| | | | | |
|-------------------------------|--|---|--|--|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: E3P25 | Additional Sampler Signature(s): <i>John Spielberg</i> | Cooler Temperature Upon Receipt: 3.0C | Chain of Custody Seal Number: 189271, 189272 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? <input checked="" type="checkbox"/> | Shipment Iced? <input checked="" type="checkbox"/> |

BNAPESTPCB = CLP Semivolatiles and Pesticides/PCBs, CLP VOA = CLP Volatiles - water

TR Number: 5-264186997-100811-0017

LABORATORY COPY



USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

3564263
3504238
N

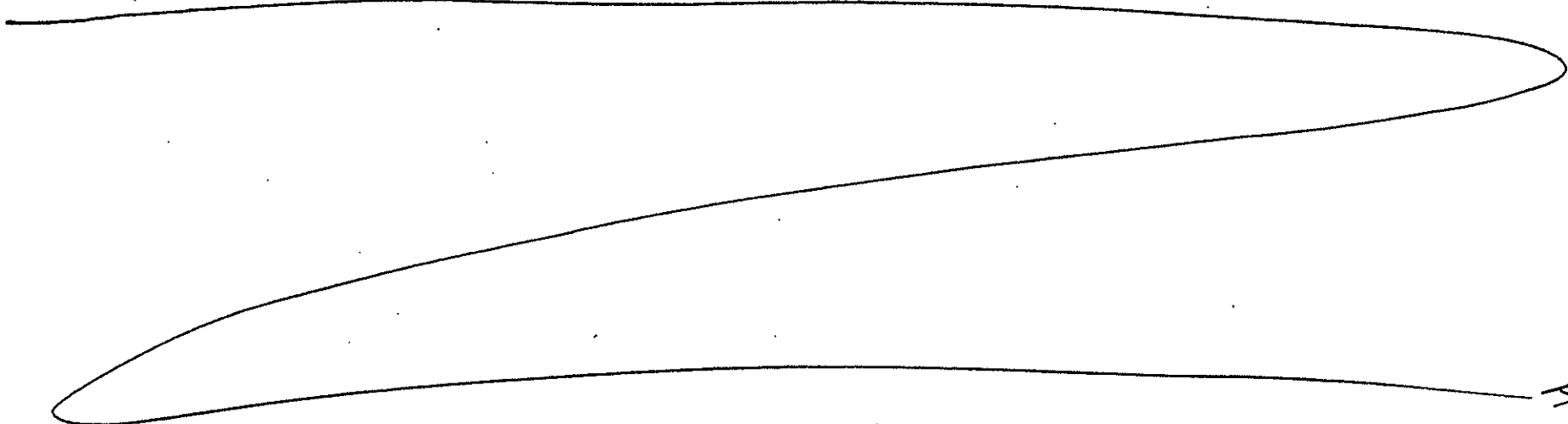
Case No: 41861
DAS No: E3028
SDG No: E3021 N

L Orig 12

| | | | | | |
|--|--------------------------------|----------------|--|-------------------------|------------------------------|
| Date Shipped: 10/13/11 Carrier Name: UPS Airbill: 1Z-549-OW4-22-1008-2494 Shipped to: Spectrum Analytical, Inc. DBA: PEL Laboratories 8405 Benjamin Road Suite A Tampa FL 33634 (813) 888-9507 | Chain of Custody Record | | Sampler Signature: <i>John Spielberg</i> | For Lab Use Only | |
| | Relinquished By | (Date / Time) | Received By | (Date / Time) | Lab Contract No: EP-W-11-034 |
| | 1. <i>John Spielberg</i> | 10/13/11, 1600 | <i>MS</i> | 10-14-11 935 | Unit Price: \$354.00 |
| | 2. _____ | _____ | _____ | _____ | Transfer To: _____ |
| | 3. _____ | _____ | _____ | _____ | Lab Contract No: _____ |
| 4. _____ | _____ | _____ | _____ | Unit Price: _____ | |

| ORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | INORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|--------------------|--|----------------|--|---|---------------------------|---------------------------|----------------------|--|
| E3P26 | Surface Water/ John Spielberg | L/G | BNAPESTPCB (21), CLP VOA (21) | 5-1199 (HCL), 5-1200 (HCL), 5-1201 (Ice Only), 5-1202 (Ice Only) (4) | SW-05 | 10/12/11, 1615 | ME3P26 | 58 |
| E3P30 | Field QC/ John Spielberg | L/G | BNAPESTPCB (21), CLP VOA (21) | 5-1223 (HCL), 5-1224 (HCL), 5-1225 (Ice Only), 5-1226 (Ice Only) (4) | EP-01 MW-11 | 10/12/11, 1825 | ME3P30 | 12 10-14-11 -09 -04 |

SDG Final Sample



| | | | | |
|-------------------------------|--|---|--|--|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: | Additional Sampler Signature(s): <i>John Spielberg</i> | Cooler Temperature Upon Receipt: 4.1 C | Chain of Custody Seal Number: 189273, 189274 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? <input checked="" type="checkbox"/> | Shipment Iced? <input checked="" type="checkbox"/> |

BNAPESTPCB = CLP Semivolatiles and Pesticides/PCBs, CLP VOA = CLP Volatiles - water

TR Number: 5-264186997-100811-0018

LABORATORY COPY

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ack
11-18-11

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 11/16/2011
SUBJECT: Review of Data
Received for review on 11/4/2011
FROM: Timothy Prendiville, Supervisor, Chief (SR-6J)
Superfund Contract Management Section
TO: Data User: MDEQ
Email address: walczakj@michigan.gov

LEVEL 3 DATA VALIDATION

We have reviewed the data for the following case:

SITE NAME: CH Lake Linden Operations (MI)

CASE NUMBER: 41861 SDG NUMBER: ME3NW9

Number and Type of Samples: 20 soils

Sample Numbers: ME3NW9, ME3NX0-X9, ME3NY0-Y8

Laboratory: ChemTech Hrs. for Review: 21.5

Following are our findings: +3.0

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

NOV 30 2011

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty (20) soil samples, numbered ME3NW9, ME3NX0-X9, and ME3NY0-Y8 were collected on October 10 – 12, 2011. The lab received the samples on October 14, 2011 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ISM01.3 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

For samples ME3NY1 and ME3NY2, the raw selenium value was more negative than the absolute value of the CRQL and would have been rejected. A 20X dilution was performed for copper and iron due to the concentrations being over the calibration limit. The selenium value in the diluted samples was less negative than the absolute value of the CRQL. The reported selenium results were changed to the dilution by this reviewer. EXES does not allow the reviewer to change the dilution for a sample, so EXES does not have the proper dilution factor reported.

10/16/11

1. HOLDING TIME:

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples. No defects were found.

2. CALIBRATIONS:

No defects were found for the calibrations.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.
Hits greater than the CRQL but less than 5 times the blank are qualified "J+".

Potassium

ME3NW9, ME3NX0, ME3NX1, ME3NX3, ME3NX4, ME3NX5, ME3NX6,
ME3NX7, ME3NX9, ME3NY0, ME3NY3, ME3NY5, ME3NY6, ME3NY7

Thallium

ME3NY4, ME3NY5

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. No post spike was required.

Hits are qualified "J-" and non-detects are qualified "UJ".

Mercury

ME3NW9, ME3NX0, ME3NX1, ME3NX2, ME3NX3, ME3NX4, ME3NX5,
ME3NX6, ME3NX7, ME3NX8, ME3NX9, ME3NY0, ME3NY1, ME3NY2,
ME3NY3, ME3NY4, ME3NY5, ME3NY6, ME3NY7, ME3NY8

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

The following inorganic samples are associated with duplicate results which did not meet relative percent difference (RPD) primary criteria. Region 5 uses 35%RPD control criteria for soil samples.

Hits are qualified "J" and non-detects are qualified "UJ".

Calcium

ME3NW9, ME3NX0, ME3NX1, ME3NX2, ME3NX3, ME3NX4, ME3NX5,
ME3NX6, ME3NX7, ME3NX8, ME3NX9, ME3NY0, ME3NY1, MENY2,
ME3NY3, ME3NY4, ME3NY5, ME3NY6, ME3NY7, ME3NY8

ME3NX0/X1 and ME3NY1/Y2 are field duplicate pairs. No defects were found for the field duplicate samples.

6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.

Hits are qualified "J" and non-detects are qualified "UJ".

Aluminum

ME3NW9, ME3NX0, ME3NX1, ME3NX2, ME3NX3, ME3NX4, ME3NX5,
ME3NX6, ME3NX7, ME3NX8, ME3NX9, ME3NY0, ME3NY1, MENY2,
ME3NY3, ME3NY4, ME3NY5, ME3NY6, ME3NY7, ME3NY8

Barium

ME3NW9, ME3NX0, ME3NX1, ME3NX2, ME3NX3, ME3NX4, ME3NX5,
ME3NX6, ME3NX7, ME3NX8, ME3NX9, ME3NY0, ME3NY1, MENY2,
ME3NY3, ME3NY4, ME3NY5, ME3NY6, ME3NY7, ME3NY8

Calcium

ME3NW9, ME3NX0, ME3NX1, ME3NX2, ME3NX3, ME3NX4, ME3NX5,
ME3NX6, ME3NX7, ME3NX8, ME3NX9, ME3NY0, ME3NY1, MENY2,
ME3NY3, ME3NY4, ME3NY5, ME3NY6, ME3NY7, ME3NY8

Copper

ME3NW9, ME3NX0, ME3NX1, ME3NX2, ME3NX3, ME3NX4, ME3NX5,
ME3NX6, ME3NX7, ME3NX8, ME3NX9, ME3NY0, ME3NY1, MENY2,
ME3NY3, ME3NY4, ME3NY5, ME3NY6, ME3NY7, ME3NY8

Iron

ME3NW9, ME3NX0, ME3NX1, ME3NX2, ME3NX3, ME3NX4, ME3NX5,
ME3NX6, ME3NX7, ME3NX8, ME3NX9, ME3NY0, ME3NY1, MENY2,
ME3NY3, ME3NY4, ME3NY5, ME3NY6, ME3NY7, ME3NY8

Manganese

ME3NW9, ME3NX0, ME3NX1, ME3NX2, ME3NX3, ME3NX4, ME3NX5,
ME3NX6, ME3NX7, ME3NX8, ME3NX9, ME3NY0, ME3NY1, MENY2,
ME3NY3, ME3NY4, ME3NY5, ME3NY6, ME3NY7, ME3NY8

Vanadium

ME3NW9, ME3NX0, ME3NX1, ME3NX2, ME3NX3, ME3NX4, ME3NX5,
ME3NX6, ME3NX7, ME3NX8, ME3NX9, ME3NY0, ME3NY1, MENY2,
ME3NY3, ME3NY4, ME3NY5, ME3NY6, ME3NY7, ME3NY8

Zinc

ME3NW9, ME3NX0, ME3NX1, ME3NX2, ME3NX3, ME3NX4, ME3NX5,
ME3NX6, ME3NX7, ME3NX8, ME3NX9, ME3NY0, ME3NY1, MENY2,
ME3NY3, ME3NY4, ME3NY5, ME3NY6, ME3NY7, ME3NY8

No defects were found for the ICS samples.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Antimony

ME3NW9, ME3NX2, ME3NX3, ME3NX4, ME3NX5, ME3NX6, ME3NX8,
ME3NX9, ME3NY0, ME3NY3, ME3NY5

Barium

ME3NY3

Beryllium

ME3NX3, ME3NY3

Cadmium

ME3NX0, ME3NX1

Cobalt

ME3NX0, ME3NX1, ME3NX2, ME3NY4

Magnesium

ME3NX0, ME3NX1

Mercury

ME3NX3, ME3NX4, ME3NX6, ME3NX8, ME3NY3, ME3NY5, ME3NY7

Nickel

ME3NX0, ME3NX1

Selenium

ME3NW9, ME3NX2, ME3NX9, ME3NY0, ME3NY4, ME3NY5, ME3NY6,
ME3NY7

Silver

ME3NW9, ME3NX2, ME3NX3, ME3NX9

Sodium

ME3NW9, ME3NX0, ME3NX1, ME3NX3, ME3NX4, ME3NX5, ME3NX6,
ME3NX7, ME3NX8, ME3NX9, ME3NY0, ME3NY3, ME3NY4, ME3NY5,
ME3NY6

Cyanide

ME3NW9, ME3NX7, ME3NX9, ME3NY7

All data, except those qualified above, are acceptable.

EXES ISM01.3 Data Qualifier Sheet

| <u>Qualifiers</u> | <u>Data Qualifier Definitions</u> |
|-------------------|---|
| U | The analyte was analyzed for, but was not detected above the reported sample quantitation limit. |
| J | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. |
| J+ | The result is an estimated quantity, but the result may be biased high. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| R | The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample. |
| UJ | The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. |

Sample Summary Report

| | | | |
|------------------------|--------------------|-----------------------|-----------------------|
| Case No: 41861 | Contract: EPW09038 | SDG No: MB3NW9 | Lab Code: CHEM |
| Sample Number: MB3NW9 | Method: ICP_AES | Matrix: Soil | MA Number: DBFAULT |
| Sample Location: SS-01 | pH: 2 | Sample Date: 10102011 | Sample Time: 14:15:00 |
| % Moisture : | | % Solids : 41.6 | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 14900 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 1.1 | mg/kg | 1 | J | J | Yes | S2BVE |
| Arsenic | 7.2 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 96.9 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 1.3 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 2.5 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 8550 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 38.7 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 14.2 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 995 | mg/kg | 1 | E | J | Yes | S2BVE |
| Iron | 32200 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 82.3 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 9630 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 468 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 33.9 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 977 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 1.5 | mg/kg | 1 | J | J | Yes | S2BVE |
| Silver | 0.62 | mg/kg | 1 | J | J | Yes | S2BVE |
| Sodium | 342 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 4.9 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 78.3 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 141 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| No: | 41861 | Contract: | EPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NW9 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-01 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 14:15:00 |
| % Moisture: | | % Solids: | 41.6 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 1.1 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NW9 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-01 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 14:15:00 |
| % Moisture : | | % Solids : | 41.6 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.35 | mg/kg | 1 | N | J- | Yes | S2BVE |

| | | | |
|------------------------|--------------------|-----------------------|-----------------------|
| Sample No: 41861 | Contract: BPW09038 | SDG No: ME3NW9 | Lab Code: CHEM |
| Sample Number: ME3NX0 | Method: ICP_AES | Matrix: Soil | MA Number: DEFAULT |
| Sample Location: SS-02 | pH: 2 | Sample Date: 10102011 | Sample Time: 12:32:00 |
| % Moisture : | | % Solids : 90.5 | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 5210 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 5.8 | mg/kg | 1 | U | U | Yes | S2BVE |
| Arsenic | 7.0 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 76.3 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 0.65 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 0.13 | mg/kg | 1 | J | J | Yes | S2BVE |
| Calcium | 3580 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 1.7 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 0.89 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 23.6 | mg/kg | 1 | E | J | Yes | S2BVE |
| Iron | 2300 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 4.6 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 198 | mg/kg | 1 | J | J | Yes | S2BVE |
| Manganese | 18.9 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 2.1 | mg/kg | 1 | J | J | Yes | S2BVE |
| Potassium | 480 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.4 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 0.96 | mg/kg | 1 | U | U | Yes | S2BVE |
| Sodium | 384 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.4 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 9.4 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 8.9 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX0 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-02 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 12:32:00 |
| % Moisture : | | % Solids : | 90.5 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.55 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| e No: | 41861 | Contract: | BPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX0 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-02 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 12:32:00 |
| % Moisture : | | % Solids : | 90.5 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.11 | mg/kg | 1 | UN | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | BPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NX1 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-02D | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 12:32:00 |
| % Moisture : | | % Solids : | 90.6 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 5850 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 5.6 | mg/kg | 1 | U | U | Yes | S2BVE |
| Arsenic | 8.0 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 90.1 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 0.71 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 0.17 | mg/kg | 1 | J | J | Yes | S2BVE |
| Calcium | 4150 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 2.2 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 1.2 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 30.0 | mg/kg | 1 | E | J | Yes | S2BVE |
| Iron | 2790 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 5.9 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 306 | mg/kg | 1 | J | J | Yes | S2BVE |
| Manganese | 22.0 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 3.1 | mg/kg | 1 | J | J | Yes | S2BVE |
| Potassium | 464 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.2 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 0.93 | mg/kg | 1 | U | U | Yes | S2BVE |
| Sodium | 390 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.3 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 11.1 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 10.6 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Job No: | 41861 | Contract: | BPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX1 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-02D | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 12:32:00 |
| % Moisture : | | | | % Solids : | 90.6 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.55 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX1 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-02D | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 12:32:00 |
| % Moisture : | | % Solids : | 90.6 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.10 | mg/kg | 1 | UN | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| e No: | 41861 | Contract: | BPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NX2 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-03 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 13:52:00 |
| % Moisture : | | % Solids : | 74.2 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.13 | mg/kg | 1 | UN | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | BPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX2 | Method: | CN | Matrix: | Soil | MA Number: | DBFAULT |
| Sample Location: | SS-03 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 13:52:00 |
| % Moisture : | | % Solids : | 74.2 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 1.9 | mg/kg | 1 | | | Yes | S2BVE |

| | | | |
|------------------------|--------------------|-----------------------|-----------------------|
| Sample No: 41861 | Contract: EPW09038 | SDG No: MB3NW9 | Lab Code: CHEM |
| Sample Number: ME3NX2 | Method: ICP_AES | Matrix: Soil | MA Number: DEFAULT |
| Sample Location: SS-03 | pH: 2 | Sample Date: 10102011 | Sample Time: 13:52:00 |
| % Moisture : | | % Solids : 74.2 | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 11400 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 1.5 | mg/kg | 1 | J | J | Yes | S2BVE |
| Arsenic | 13.9 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 1090 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 3.1 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 4.0 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 51200 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 23.1 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 5.6 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 234 | mg/kg | 1 | E | J | Yes | S2BVE |
| Iron | 16400 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 506 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 1920 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 2920 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 16.7 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 2200 | mg/kg | 1 | | | Yes | S2BVE |
| Selenium | 0.95 | mg/kg | 1 | J | J | Yes | S2BVE |
| Silver | 0.72 | mg/kg | 1 | J | J | Yes | S2BVE |
| Sodium | 845 | mg/kg | 1 | | | Yes | S2BVE |
| Thallium | 2.9 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 38.5 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 563 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHBM |
| Sample Number: | ME3NX3 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-04 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 11:55:00 |
| % Moisture : | | % Solids : | 89.5 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 7540 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 0.40 | mg/kg | 1 | J | J | Yes | S2BVE |
| Arsenic | 2.6 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 33.0 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 0.52 | mg/kg | 1 | J | J | Yes | S2BVE |
| Cadmium | 1.1 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 6460 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 24.2 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 11.1 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 788 | mg/kg | 1 | E | J | Yes | S2BVE |
| Iron | 16000 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 31.5 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 7520 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 334 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 29.2 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 559 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.9 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 0.53 | mg/kg | 1 | J | J | Yes | S2BVE |
| Sodium | 205 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.8 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 34.6 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 69.7 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Job No: | 41861 | Contract: | BPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX3 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-04 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 11:55:00 |
| % Moisture : | | | | % Solids : | 89.5 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.12 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX3 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-04 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 11:55:00 |
| % Moisture : | | % Solids : | 89.5 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.018 | mg/kg | 1 | JN | J- | Yes | S2BVE |

| | | | |
|------------------------|--------------------|-----------------------|-----------------------|
| se No: 41861 | Contract: EPW09038 | SDG No: ME3NW9 | Lab Code: CHEM |
| Sample Number: MB3NX4 | Method: ICP_AES | Matrix: Soil | MA Number: DEFAULT |
| Sample Location: SS-05 | pH: 2 | Sample Date: 10112011 | Sample Time: 11:40:00 |
| % Moisture : | | % Solids : 83.4 | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 2940 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 1.1 | mg/kg | 1 | J | J | Yes | S2BVE |
| Arsenic | 5.0 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 57.1 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 1.0 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 1.2 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 4640 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 13.6 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 5.4 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 989 | mg/kg | 1 | E | J | Yes | S2BVE |
| Iron | 15400 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 134 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 4720 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 124 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 9.8 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 465 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.3 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 2.5 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 106 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.3 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 33.2 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 60.5 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX4 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-05 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 11:40:00 |
| % Moisture : | | % Solids : | 83.4 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.024 | mg/kg | 1 | JN | J- | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | BPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NX4 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-05 | pH: | 2 | Sample Date: | 10/12/01 | Sample Time: | 11:40:00 |
| % Moisture : | | % Solids : | 83.4 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.60 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX5 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-06 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 09:40:00 |
| % Moisture : | | % Solids : | 86.2 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 1.4 | mg/kg | 1 | N | J- | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Sample No: | 41861 | Contract: | BPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX5 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-06 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 09:40:00 |
| % Moisture : | | % Solids : | 86.2 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.17 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX5 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-06 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 09:40:00 |
| % Moisture : | | | | % Solids : | 86.2 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 3070 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 4.5 | mg/kg | 1 | J | J | Yes | S2BVE |
| Arsenic | 46.8 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 76.2 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 2.0 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 8.9 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 6800 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 17.4 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 15.0 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 53700 | mg/kg | 20 | ED | J | Yes | S2BVE |
| Iron | 153000 | mg/kg | 20 | E*D | J | Yes | S2BVE |
| Lead | 18.5 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 3900 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 189 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 35.7 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 468 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.3 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 40.9 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 339 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.3 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 32.2 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 81.7 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | BPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NX6 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-07 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 17:40:00 |
| % Moisture : | | % Solids : | 94.3 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.53 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX6 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-07 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 17:40:00 |
| % Moisture : | | | | % Solids : | 94.3 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.036 | mg/kg | 1 | JN | J- | Yes | S2BVE |

| | | | |
|------------------------|--------------------|-----------------------|-----------------------|
| Sample No: 41861 | Contract: EPW09038 | SDG No: MB3NW9 | Lab Code: CHEM |
| Sample Number: MB3NX6 | Method: ICP_AES | Matrix: Soil | MA Number: DEFAULT |
| Sample Location: SS-07 | pH: 2 | Sample Date: 10102011 | Sample Time: 17:40:00 |
| % Moisture : | | % Solids : 94.3 | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 4430 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 0.49 | mg/kg | 1 | J | J | Yes | S2BVE |
| Arsenic | 7.6 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 29.2 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 0.96 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 0.88 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 9110 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 19.8 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 9.4 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 16500 | mg/kg | 20 | ED | J | Yes | S2BVE |
| Iron | 13400 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 15.7 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 8370 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 250 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 23.3 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 505 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.5 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 8.1 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 217 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.5 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 40.2 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 144 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX7 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-08 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 16:22:00 |
| % Moisture : | | % Solids : | 85.4 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.22 | mg/kg | 1 | N | J- | Yes | S2BVE |

| | | | |
|------------------------|--------------------|-----------------------|-----------------------|
| Sample No: 41861 | Contract: EPW09038 | SDG No: ME3NW9 | Lab Code: CHEM |
| Sample Number: ME3NX7 | Method: ICP_AES | Matrix: Soil | MA Number: DEFAULT |
| Sample Location: SS-08 | pH: 2 | Sample Date: 10102011 | Sample Time: 16:22:00 |
| % Moisture : | | % Solids : 85.4 | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 10800 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 45.4 | mg/kg | 1 | | | Yes | S2BVE |
| Arsenic | 11.0 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 219 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 1.2 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 1.5 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 20600 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 21.6 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 9.2 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 3710 | mg/kg | 20 | ED | J | Yes | S2BVE |
| Iron | 18000 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 6940 | mg/kg | 20 | *D | | Yes | S2BVE |
| Magnesium | 4950 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 356 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 29.8 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 450 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.2 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 1.7 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 278 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.3 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 25.4 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 175 | mg/kg | 1 | E | J | Yes | S2BVE |

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|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NX7 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-08 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 16:22:00 |
| % Moisture : | | % Solids : | 85.4 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.23 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | |
|------------------------|--------------------|-----------------------|-----------------------|
| Sample No: 41861 | Contract: EPW09038 | SDG No: MB3NW9 | Lab Code: CHEM |
| Sample Number: ME3NX8 | Method: ICP_AES | Matrix: Soil | MA Number: DEFAULT |
| Sample Location: SS-09 | pH: 2 | Sample Date: 10102011 | Sample Time: 17:27:00 |
| % Moisture : | | % Solids : 92 | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 7190 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 0.49 | mg/kg | 1 | J | J | Yes | S2BVE |
| Arsenic | 5.2 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 27.3 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 0.69 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 1.7 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 6680 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 23.9 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 10.9 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 2480 | mg/kg | 20 | BD | J | Yes | S2BVE |
| Iron | 17200 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 39.1 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 6970 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 302 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 31.5 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 435 | mg/kg | 1 | | | Yes | S2BVE |
| Selenium | 2.7 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 1.4 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 175 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 1.9 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 38.6 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 139 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NX8 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-09 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 17:27:00 |
| % Moisture : | | % Solids : | 92 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.54 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | |
|------------------------|--------------------|-----------------------|-----------------------|
| Sample No: 41861 | Contract: EPW09038 | SDG No: MB3NW9 | Lab Code: CHEM |
| Sample Number: ME3NX8 | Method: Hg | Matrix: Soil | MA Number: DEFAULT |
| Sample Location: SS-09 | pH: 2 | Sample Date: 10102011 | Sample Time: 17:27:00 |
| % Moisture : | | % Solids : 92 | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.020 | mg/kg | 1 | JN | J- | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NX9 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-10 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 09:33:00 |
| % Moisture : | | % Solids : | 82.8 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 5390 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 0.64 | mg/kg | 1 | J | J | Yes | S2BVE |
| Arsenic | 14.1 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 113 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 0.76 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 1.2 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 3380 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 15.2 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 6.3 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 1590 | mg/kg | 1 | E | J | Yes | S2BVE |
| Iron | 13900 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 322 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 3580 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 308 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 18.2 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 461 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 0.48 | mg/kg | 1 | J | J | Yes | S2BVE |
| Silver | 0.76 | mg/kg | 1 | J | J | Yes | S2BVE |
| Sodium | 282 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.3 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 24.9 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 92.9 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Sample No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX9 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-10 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 09:33:00 |
| % Moisture : | | | | % Solids : | 82.8 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.25 | mg/kg | 1 | N | J- | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NX9 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-10 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 09:33:00 |
| % Moisture : | | % Solids : | 82.8 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.20 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | |
|------------------------|--------------------|-----------------------|-----------------------|
| Case No: 41861 | Contract: EPW09038 | SDG No: ME3NW9 | Lab Code: CHEM |
| Sample Number: ME3NY0 | Method: ICP_AES | Matrix: Soil | MA Number: DEFAULT |
| Sample Location: SS-11 | pH: 2 | Sample Date: 10122011 | Sample Time: 15:45:00 |
| % Moisture : | | % Solids: 87.5 | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 4580 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 0.86 | mg/kg | 1 | J | J | Yes | S2BVE |
| Arsenic | 18.9 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 74.0 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 0.67 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 1.2 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 2740 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 16.2 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 6.0 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 3440 | mg/kg | 20 | ED | J | Yes | S2BVE |
| Iron | 12900 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 171 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 3630 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 241 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 20.9 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 426 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 0.81 | mg/kg | 1 | J | J | Yes | S2BVE |
| Silver | 1.0 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 240 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.1 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 22.3 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 126 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY0 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-11 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 15:45:00 |
| % Moisture : | | % Solids : | 87.5 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.17 | mg/kg | 1 | N | J- | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NY0 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-11 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 15:45:00 |
| % Moisture : | | | | % Solids : | 87.5 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.514 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NY1 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-12 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 16:15:00 |
| % Moisture : | | % Solids : | 94.2 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.13 | mg/kg | 1 | N | J- | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| se No: | 41861 | Contract: | BPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY1 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-12 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 16:15:00 |
| % Moisture : | | | | % Solids : | 94.2 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.53 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY1 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-12 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 16:15:00 |
| % Moisture : | | | | % Solids : | 94.2 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 24300 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 7.8 | mg/kg | 1 | | | Yes | S2BVE |
| Arsenic | 307 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 566 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 2.3 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 12.0 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 32000 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 416 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 14.7 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 7010 | mg/kg | 20 | ED | J | Yes | S2BVE |
| Iron | 93400 | mg/kg | 20 | E*D | J | Yes | S2BVE |
| Lead | 838 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 7980 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 656 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 31.6 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 5820 | mg/kg | 1 | | | Yes | S2BVE |
| Selenium | 59.0 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 14.9 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 7250 | mg/kg | 1 | | | Yes | S2BVE |
| Thallium | 2.1 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 140 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 583 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Job No: | 41861 | Contract: | BPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY2 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-12D | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 16:15:00 |
| % Moisture: | | % Solids: | 93.9 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.53 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NY2 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-12D | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 16:15:00 |
| % Moisture : | | % Solids : | 93.9 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 26900 | mg/kg | 20 | E*D | J | Yes | S2BVE |
| Antimony | 11.0 | mg/kg | 1 | | | Yes | S2BVE |
| Arsenic | 312 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 537 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 2.3 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 11.1 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 33700 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 463 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 15.2 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 7540 | mg/kg | 20 | ED | J | Yes | S2BVE |
| Iron | 92600 | mg/kg | 20 | E*D | J | Yes | S2BVE |
| Lead | 1130 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 8590 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 645 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 35.6 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 5440 | mg/kg | 1 | | | Yes | S2BVE |
| Selenium | 53.2 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 18.0 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 7570 | mg/kg | 1 | | | Yes | S2BVE |
| Thallium | 1.9 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 134 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 664 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| File No: | 41861 | Contract: | BPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY2 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-12D | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 16:15:00 |
| % Moisture: | | | | % Solids: | 93.9 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.14 | mg/kg | 1 | N | J- | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NY3 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-13 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 12:15:00 |
| % Moisture : | | % Solids : | 92.1 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.54 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| File No: | 41861 | Contract: | BPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY3 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-13 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 12:15:00 |
| % Moisture : | | % Solids : | 92.1 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.032 | mg/kg | 1 | JN | J- | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NY3 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-13 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 12:15:00 |
| % Moisture : | | % Solids : | 92.1 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 8980 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 1.0 | mg/kg | 1 | J | J | Yes | S2BVE |
| Arsenic | 16.0 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 21.5 | mg/kg | 1 | JE | J | Yes | S2BVE |
| Beryllium | 0.44 | mg/kg | 1 | J | J | Yes | S2BVE |
| Cadmium | 1.3 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 7590 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 30.1 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 14.2 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 10400 | mg/kg | 20 | ED | J | Yes | S2BVE |
| Iron | 17400 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 47.2 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 9950 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 300 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 54.5 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 543 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.8 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 3.2 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 207 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.7 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 28.8 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 126 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | BPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NY4 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-14 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 13:00:00 |
| % Moisture: | | % Solids: | 81.5 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.38 | mg/kg | 1 | N | J- | Yes | S2BYE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY4 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-14 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 13:00:00 |
| % Moisture : | | | | % Solids : | 81.5 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 3700 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 9.5 | mg/kg | 1 | | | Yes | S2BVE |
| Arsenic | 31.4 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 285 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 1.0 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 3.9 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 4790 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 22.1 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 5.1 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 5080 | mg/kg | 20 | ED | J | Yes | S2BVE |
| Iron | 49400 | mg/kg | 20 | E*D | J | Yes | S2BVE |
| Lead | 578 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 2450 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 299 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 26.6 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 585 | mg/kg | 1 | | | Yes | S2BVE |
| Selenium | 0.98 | mg/kg | 1 | J | J | Yes | S2BVE |
| Silver | 3.2 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 446 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.9 | mg/kg | 1 | J | U | Yes | S2BVE |
| Vanadium | 21.9 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 399 | mg/kg | 1 | E | J | Yes | S2BVE |

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|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| se No: | 41861 | Contract: | BPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY4 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-14 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 13:00:00 |
| % Moisture : | | | | % Solids : | 81.5 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.61 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY5 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-15 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 18:52:00 |
| % Moisture : | | % Solids : | 90.2 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.038 | mg/kg | 1 | JN | J- | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NY5 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-15 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 18:52:00 |
| % Moisture : | | % Solids : | 90.2 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 11500 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 1.0 | mg/kg | 1 | J | J | Yes | S2BVE |
| Arsenic | 40.9 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 27.9 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 0.74 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 3.0 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 9970 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 38.7 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 15.3 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 132 | mg/kg | 1 | E | J | Yes | S2BVE |
| Iron | 45100 | mg/kg | 20 | E*D | J | Yes | S2BVE |
| Lead | 10.0 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 10600 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 289 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 57.9 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 458 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 1.4 | mg/kg | 1 | J | J | Yes | S2BVE |
| Silver | 2.8 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 257 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.3 | mg/kg | 1 | J | U | Yes | S2BVE |
| Vanadium | 51.3 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 45.1 | mg/kg | 1 | E | J | Yes | S2BVE |

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|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY5 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-15 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 18:52:00 |
| % Moisture: | | | | % Solids: | 90.2 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.55 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NY6 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-16 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 17:08:00 |
| % Moisture: | | | | % Solids: | 89 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.56 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NY6 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-16 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 17:08:00 |
| % Moisture : | | | | % Solids: | 89 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 6320 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 26.0 | mg/kg | 1 | | | Yes | S2BVE |
| Arsenic | 48.8 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 4060 | mg/kg | 20 | ED | J | Yes | S2BVE |
| Beryllium | 0.75 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 4.9 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 12400 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 20.8 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 5.5 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 37300 | mg/kg | 20 | ED | J | Yes | S2BVE |
| Iron | 23700 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 3680 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 3580 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 165 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 27.7 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 545 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.1 | mg/kg | 1 | J | J | Yes | S2BVE |
| Silver | 5.7 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 381 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.7 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 34.9 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 19100 | mg/kg | 20 | ED | J | Yes | S2BVE |

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|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY6 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-16 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 17:08:00 |
| % Moisture : | | % Solids : | 89 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.52 | mg/kg | 1 | N | J- | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY7 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-17 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 16:52:00 |
| % Moisture : | | | | % Solids : | 93.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 5050 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 5.1 | mg/kg | 1 | | | Yes | S2BVE |
| Arsenic | 134 | mg/kg | 1 | | | Yes | S2BVE |
| Barium | 45.5 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 0.44 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 1.5 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 7800 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 23.9 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 12.0 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 24500 | mg/kg | 20 | BD | J | Yes | S2BVE |
| Iron | 12500 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Lead | 267 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 3080 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 167 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 102 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 416 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 0.74 | mg/kg | 1 | J | J | Yes | S2BVE |
| Silver | 2.6 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 846 | mg/kg | 1 | | | Yes | S2BVE |
| Thallium | 2.1 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 16.3 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 2310 | mg/kg | 1 | E | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY7 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-17 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 16:52:00 |
| % Moisture : | | | | % Solids : | 93.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.020 | mg/kg | 1 | JN | J- | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | BPW09038 | SDG No: | MB3NW9 | Lab Code: | CHEM |
| Sample Number: | MB3NY7 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-17 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 16:52:00 |
| % Moisture : | | % Solids : | 93.1 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.36 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | BPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY8 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-18 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 15:26:00 |
| % Moisture : | | | | % Solids : | 93.2 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 1.9 | mg/kg | 1 | | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NW9 | Lab Code: | CHEM |
| Sample Number: | ME3NY8 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-18 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 15:26:00 |
| % Moisture : | | % Solids : | 93.2 | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.21 | mg/kg | 1 | N | J- | Yes | S2BVE |

| | | | |
|------------------------|--------------------|-----------------------|-----------------------|
| Sample No: 41861 | Contract: EPW09038 | SDG No: ME3NW9 | Lab Code: CHEM |
| Sample Number: MB3NY8 | Method: ICP_AES | Matrix: Soil | MA Number: DEFAULT |
| Sample Location: SS-18 | pH: 2 | Sample Date: 10112011 | Sample Time: 15:26:00 |
| % Moisture : | | % Solids : 93.2 | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 10600 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Antimony | 80.2 | mg/kg | 1 | | | Yes | S2BVE |
| Arsenic | 1220 | mg/kg | 20 | D | | Yes | S2BVE |
| Barium | 291 | mg/kg | 1 | E | J | Yes | S2BVE |
| Beryllium | 1.2 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 5.8 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 21100 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Chromium | 244 | mg/kg | 1 | * | | Yes | S2BVE |
| Cobalt | 8.8 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 26900 | mg/kg | 20 | ED | J | Yes | S2BVE |
| Iron | 31500 | mg/kg | 20 | E*D | J | Yes | S2BVE |
| Lead | 715 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 5270 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 306 | mg/kg | 1 | E | J | Yes | S2BVE |
| Nickel | 49.4 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 1190 | mg/kg | 1 | | | Yes | S2BVE |
| Selenium | 2.6 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 9.5 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 3930 | mg/kg | 1 | | | Yes | S2BVE |
| Thallium | 1.8 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 39.7 | mg/kg | 1 | E* | J | Yes | S2BVE |
| Zinc | 1310 | mg/kg | 1 | E | J | Yes | S2BVE |

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**USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record**

Case No: 41861
DAS No:
SDG No: ME3NW9

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|--|--------------------------------|----------------|--|-------------------------|---------------------------|
| Date Shipped: 10/13/11 Carrier Name: UPS Airbill: 1Z-549-OW4-22-1008-2538 Shipped to: ChemTech Consulting Group (CHEM) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900 | Chain of Custody Record | | Sampler Signature: <i>John Spielberg</i> | For Lab Use Only | |
| | Relinquished By | (Date / Time) | Received By | (Date / Time) | Lab Contract No: EPW09038 |
| | 1 <i>John Spielberg</i> | 10/13/11, 1600 | <i>Ken [unclear]</i> | 10/14/11 10:10 | Unit Price: |
| | 2 | | | | Transfer To: |
| | 3. | | | | Lab Contract No: |
| 4. | | | | Unit Price: | |

| INORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | ORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|----------------------|--|------------|----------------------|--------------------------------|------------------|--------------------------|--------------------|--|
| ME3NW9 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1002 (Ice Only) (1) | SS-01 | 10/10/11 1415 | E3NW9 | |
| ME3NX0 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1004 (Ice Only) (1) | SS-02 | } | E3NX0 | |
| ME3NX1 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1006 (Ice Only) (1) | SS-02D | | E3NX1 | |
| ME3NX2 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1008 (Ice Only) (1) | SS-03 | | E3NX2 | |
| ME3NX3 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1010 (Ice Only) (1) | SS-04 | 10/11/11 1155 | E3NX3 | |
| ME3NX4 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1012 (Ice Only) (1) | SS-05 | } | E3NX4 | |
| ME3NX5 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1014 (Ice Only) (1) | SS-06 | | E3NX5 | |
| ME3NX6 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1016 (Ice Only) (1) | SS-07 | 10/10/11 1740 | E3NX6 | |
| ME3NX7 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1018 (Ice Only) (1) | SS-08 | } | E3NX7 | |
| ME3NX8 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1020 (Ice Only) (1) | SS-09 | | E3NX8 | |

| | | | | |
|-------------------------------|---|---|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: ME3NY3 | Additional Sampler Signature(s): <i>John Spielberg</i> | Cooler Temperature Upon Receipt: 4°C | Chain of Custody Seal Number: 89241, 89242 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? <i>YES</i> | Shipment Iced? <i>YES</i> |

TM/CN = CLP Total Metals and Cyanide - soil

TR Number: 5-264186997-100811-0001

LABORATORY COPY



**USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record**

Case No: 41861
DAS No:
SDG No: ME3NW9 **L**

9

| | | | | | |
|--|--------------------------------|-----------------------|--|-------------------------|---------------------------|
| Date Shipped: 10/13/11 Carrier Name: UPS Airbill: 1Z-549-OW4-22-1008-2538 Shipped to: ChemTech Consulting Group (CHEM) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900 | Chain of Custody Record | | Sampler Signature: <i>John Spielberg</i> | For Lab Use Only | |
| | Relinquished By | (Date / Time) | Received By | (Date / Time) | Lab Contract No: EPW09038 |
| | 1. <i>John Spielberg</i> | <i>10/13/11, 1600</i> | <i>Ken Luma</i> | <i>10/14/11 10:10</i> | Unit Price: |
| | 2. _____ | _____ | _____ | _____ | Transfer To: |
| 3. _____ | _____ | _____ | _____ | Lab Contract No: | |
| 4. _____ | _____ | _____ | _____ | Unit Price: | |

| INORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | ORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt | |
|----------------------|--|------------|----------------------|--|------------------|--------------------------|--------------------|--|-------|
| ME3NX9 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1022 (Ice Only) (1) | SS-10 | 10/12/11 933 | E3NX9 | | |
| ME3NY0 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1024 (Ice Only) (1) | SS-11 | } | E3NY0 | | |
| ME3NY1 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1026 (Ice Only) (1) | SS-12 | | 1545 | E3NY1 | |
| ME3NY2 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1028 (Ice Only) (1) | SS-12D | | 1615 | E3NY2 | |
| ME3NY3 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1031 (Ice Only), 5-1032 (Ice Only) (2) | SS-13 | | 1615 | E3NY3 | |
| ME3NY4 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1034 (Ice Only) (1) | SS-14 | | 1215 | E3NY4 | |
| ME3NY5 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1036 (Ice Only) (1) | SS-15 | | 10/11/11 1852 | E3NY5 | |
| ME3NY6 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1038 (Ice Only) (1) | SS-16 | | } | 1768 | E3NY6 |
| ME3NY7 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1040 (Ice Only) (1) | SS-17 | | | 1652 | E3NY7 |
| ME3NY8 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1042 (Ice Only) (1) | SS-18 | } | 1526 | E3NY8 | |

| | | | | |
|------------------------------|---|---|---|---|
| Shipment for Case Complete?N | Sample(s) to be used for laboratory QC: ME3NY3 | Additional Sampler Signature(s): <i>John Spielberg</i> | Cooler Temperature Upon Receipt: 40C | Chain of Custody Seal Number: 89241, 89242 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = <u>G</u> | Custody Seal Intact? <u>YES</u> | Shipment Iced? <u>YES</u> |

TM/CN = CLP Total Metals and Cyanide - soil

TR Number: 5-264186997-100811-0001

LABORATORY COPY

Regional Transmittal Form

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V**

DATE: 11/15/11

SUBJECT: Review of Data
Received for review on 11/4/11

FROM: Timothy Prendiville, Supervisor, Chief (SR-6J)
Superfund Contract Management Section

TO: Data User: MDEQ
Email address: walczakj@michigan.gov

LEVEL 3 DATA VALIDATION

We have reviewed the data for the following case:

SITE NAME: C & H Lake Linden Operations (MI)

CASE NUMBER: 41861 **SDG NUMBER:** ME3NY9

Number and Type of Samples: 3 soils

Sample Numbers: ME3NY9, ME3NZ0, ME3P34

Laboratory: ChemTech **Hrs. for Review:** _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Three (3) soil samples, numbered ME3NY9, ME3NZ0 and ME3P34, were collected on October 11, 2011. The lab received the samples on October 14, 2011, in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ISM01.3 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

For sample ME3NZ0, the raw selenium value was more negative than the absolute value of the CRQL and would have been rejected. A 10X dilution was performed for copper, iron and zinc due to the concentrations being over the calibration limit. The selenium value in the diluted sample was less negative than the absolute value of the CRQL. The reported selenium result was changed to the dilution by this reviewer. EXES does not allow the reviewer to change the dilution for a sample, so EXES does not have the proper dilution factor reported.

1. HOLDING TIME:

The inorganic soil samples were reviewed for holding time violations using criteria developed for water samples. No defects were found.

2. CALIBRATIONS:

No defects were found for the calibrations.

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.
Hits greater than the CRQL but less than 5 times the blank are qualified "J+".

Cobalt
ME3NY9, ME3P34

Magnesium
ME3NY9

Potassium
ME3P34

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Selenium
ME3P34

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

No defects were found for matrix spike or laboratory control samples.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples. Region 5 uses 35% RPD and 2xCRQL difference control criteria for soil samples. No samples were identified as field duplicates.

6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.

Hits are qualified "J" and non-detects are qualified "UJ".

Arsenic

ME3NY9, ME3NZ0, ME3P34

Copper

ME3NY9, ME3NZ0, ME3P34

No defects were found for the ICS samples.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Antimony

ME3NZ0, ME3P34

Beryllium

ME3P34

Mercury

ME3P34

Selenium

ME3P34

Sodium

ME3P34

Cyanide

ME3NY9, ME3NZ0, ME3P34

All data, except those qualified above, are acceptable.

EXES ISM01.3 Data Qualifier Sheet

| <u>Qualifiers</u> | <u>Data Qualifier Definitions</u> |
|-------------------|---|
| U | The analyte was analyzed for, but was not detected above the reported sample quantitation limit. |
| J | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. |
| J+ | The result is an estimated quantity, but the result may be biased high. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| R | The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample. |
| UJ | The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. |

Sample Summary Report

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NY9 | Lab Code: | CHEM |
| Sample Number: | ME3NY9 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-19 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 14:10:00 |
| % Moisture : | | | | % Solids : | 58.2 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.24 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NY9 | Lab Code: | CHEM |
| Sample Number: | ME3NY9 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-19 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 14:10:00 |
| % Moisture : | | | | % Solids : | 58.2 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 8660 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 13.2 | mg/kg | 1 | | | Yes | S2BVE |
| Arsenic | 5600 | mg/kg | 10 | ED | J | Yes | S2BVE |
| Barium | 212 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 3.6 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 96.3 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 2220 | mg/kg | 1 | * | | Yes | S2BVE |
| Chromium | 37.7 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 8.6 | mg/kg | 1 | J | U | Yes | S2BVE |
| Copper | 199000 | mg/kg | 1000 | ED | J | Yes | S2BVE |
| Iron | 4380 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 1610 | mg/kg | 1 | | | Yes | S2BVE |
| Magnesium | 859 | mg/kg | 1 | J | U | Yes | S2BVE |
| Manganese | 31.4 | mg/kg | 1 | * | | Yes | S2BVE |
| Nickel | 95.3 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 1380 | mg/kg | 1 | | | Yes | S2BVE |
| Selenium | 69.3 | mg/kg | 1 | | | Yes | S2BVE |
| Silver | 45.5 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 1390 | mg/kg | 1 | | | Yes | S2BVE |
| Thallium | 4.3 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 30.2 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 14800 | mg/kg | 10 | D | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NY9 | Lab Code: | CHEM |
| Sample Number: | ME3NY9 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-19 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 14:10:00 |
| % Moisture : | | | | % Solids : | 58.2 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 20.8 | mg/kg | 10 | D | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NY9 | Lab Code: | CHEM |
| Sample Number: | ME3NZ0 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-20 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 13:37:00 |
| % Moisture : | | | | % Solids : | 97 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 8260 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 4.8 | mg/kg | 1 | J | J | Yes | S2BVE |
| Arsenic | 66.9 | mg/kg | 1 | E | J | Yes | S2BVE |
| Barium | 434 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 1.5 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 11.4 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 26800 | mg/kg | 1 | * | | Yes | S2BVE |
| Chromium | 56.6 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 9.0 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 20300 | mg/kg | 10 | ED | J | Yes | S2BVE |
| Iron | 92200 | mg/kg | 10 | D | | Yes | S2BVE |
| Lead | 1010 | mg/kg | 1 | | | Yes | S2BVE |
| Magnesium | 6050 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 596 | mg/kg | 1 | * | | Yes | S2BVE |
| Nickel | 31.5 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 727 | mg/kg | 1 | | | Yes | S2BVE |
| Selenium | 29.8 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 11.8 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 887 | mg/kg | 1 | | | Yes | S2BVE |
| Thallium | 2.1 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 31.7 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 3050 | mg/kg | 10 | D | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NY9 | Lab Code: | CHEM |
| Sample Number: | ME3NZ0 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-20 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 13:37:00 |
| % Moisture : | | | | % Solids : | 97 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 1.7 | mg/kg | 1 | | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NY9 | Lab Code: | CHEM |
| Sample Number: | ME3NZ0 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SS-20 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 13:37:00 |
| % Moisture : | | | | % Solids : | 97 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.14 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NY9 | Lab Code: | CHEM |
| Sample Number: | ME3P34 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-14 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 18:03:00 |
| % Moisture : | | | | % Solids : | 93.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.15 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NY9 | Lab Code: | CHEM |
| Sample Number: | ME3P34 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-14 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 18:03:00 |
| % Moisture : | | | | % Solids : | 93.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.041 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NY9 | Lab Code: | CHEM |
| Sample Number: | ME3P34 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-14 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 18:03:00 |
| % Moisture : | | | | % Solids : | 93.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 2010 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 1.4 | mg/kg | 1 | J | J | Yes | S2BVE |
| Arsenic | 41.5 | mg/kg | 1 | E | J | Yes | S2BVE |
| Barium | 33.8 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 0.27 | mg/kg | 1 | J | J | Yes | S2BVE |
| Cadmium | 0.80 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 1240 | mg/kg | 1 | * | | Yes | S2BVE |
| Chromium | 14.6 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 4.5 | mg/kg | 1 | J | U | Yes | S2BVE |
| Copper | 14300 | mg/kg | 10 | ED | J | Yes | S2BVE |
| Iron | 6170 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 83.0 | mg/kg | 1 | | | Yes | S2BVE |
| Magnesium | 1240 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 82.4 | mg/kg | 1 | * | | Yes | S2BVE |
| Nickel | 9.9 | mg/kg | 1 | | | Yes | S2BVE |
| Potassium | 448 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 0.44 | mg/kg | 1 | J | J- | Yes | S2BVE |
| Silver | 3.9 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 132 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.2 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 10.4 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 181 | mg/kg | 1 | | | Yes | S2BVE |

Edit History Report

Case No: 41861

Contract: EPW09038

SDG No: ME3NY9

Lab Code: CHEM

Method: Hg

| Sample | Matrix | Analyte Name | Data Field | Old Value | New Value | User | Edit Date Time | Global |
|--------|--------|--------------|------------------|-----------|-----------|----------------|-------------------|--------|
| ME3NY9 | Soil | Mercury | Validated Result | 21.0 | 20.8 | Stephen Connet | 11/17/11 12:28 PM | |
| ME3P34 | Soil | Mercury | Validated Result | 0.040 | 0.041 | Stephen Connet | 11/17/11 12:29 PM | |

Method: ICP_AES

| Sample | Matrix | Analyte Name | Data Field | Old Value | New Value | User | Edit Date Time | Global |
|--------|--------|--------------|------------------|-----------|-----------|----------------|-------------------|--------|
| ME3NY9 | Soil | Calcium | Validation Flag | J | | Deborah Connet | 11/15/11 10:38 AM | |
| ME3NY9 | Soil | Manganese | Validation Flag | J | | Deborah Connet | 11/15/11 10:38 AM | |
| ME3NZ0 | Soil | Calcium | Validation Flag | J | | Deborah Connet | 11/15/11 10:38 AM | |
| ME3NZ0 | Soil | Manganese | Validation Flag | J | | Deborah Connet | 11/15/11 10:38 AM | |
| ME3NZ0 | Soil | Selenium | Validated Result | 3.0 | 29.8 | Deborah Connet | 11/15/11 10:38 AM | |
| ME3P34 | Soil | Calcium | Validation Flag | J | | Deborah Connet | 11/15/11 10:40 AM | |
| ME3P34 | Soil | Manganese | Validation Flag | J | | Deborah Connet | 11/15/11 10:40 AM | |
| ME3P34 | Soil | Selenium | Validation Flag | J | J- | Deborah Connet | 11/15/11 10:40 AM | |



USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 41861

DAS No:

SDG No:

ME3NY9

L 9

| | | | | | | |
|--|------------------------------------|--|--|-------------|---------------------------|--|
| Date Shipped: 10/13/11 Carrier Name: UPS Airbill: 1Z-549-OW4-22-1008-2538 Shipped to: ChemTech Consulting Group (CHEM) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900 | Chain of Custody Record | | Sampler Signature: <i>John Spielberg</i> | | For Lab Use Only | |
| | Relinquished By (Date / Time) | | Received By (Date / Time) | | Lab Contract No: EPW09038 | |
| | 1. <i>John Spielberg, 10/13/11</i> | | 1. <i>Van Thone 10/14/11 10:10</i> | | Unit Price: | |
| | 2. | | 3. | | Transfer To: | |
| | 3. | | 4. | | Lab Contract No: | |
| 4. | | | | Unit Price: | | |

| INORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | ORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|----------------------|--|------------|----------------------|--------------------------------|------------------|--------------------------|--------------------|--|
| ME3NY9 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1044 (Ice Only) (1) | SS-19 | 10/11/11 1400 | E3NY9 | |
| ME3NZ0 | Surface Soil (0"-12")/ John Spielberg | L/G | TM/CN (21) | 5-1046 (Ice Only) (1) | SS-20 | 1337 | E3NZ0 | |

| | | | | |
|--|---|---|---|---|
| Shipment for Case Complete? <input type="checkbox"/> N | Sample(s) to be used for laboratory QC: ME3NY3 | Additional Sampler Signature(s): <i>John Spielberg</i> | Cooler Temperature Upon Receipt: <i>4°C</i> | Chain of Custody Seal Number: 89241, 89242 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = <u>G</u> | Custody Seal Intact? <i>Yes</i> | Shipment Iced? <i>Yes</i> |

TM/CN = CLP Total Metals and Cyanide - soil

TR Number: 5-264186997-100811-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 P 703/818-4200; Fax 703/818-4602

LABORATORY COPY



USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 41861
DAS No: ME3N49 L
SDG No:

| | | | | | |
|--|-------------------------|---------------------------------------|--|---|-----------------------|
| Date Shipped: 10/13/11 Carrier Name: UPS Airbill: 1Z-549-OW4-22-1008-2547 Shipped to: ChemTech Consulting Group (CHEM) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900 | Chain of Custody Record | | Sampler Signature: <i>John Spielberg</i> | For Lab Use Only Lab Contract No: EDW09038 Unit Price: Transfer To: Lab Contract No: Unit Price: | |
| | Relinquished By | (Date / Time) | Received By | | (Date / Time) |
| | 1 | <i>John Spielberg, 10/13/11, 1600</i> | <i>Kan Luan</i> | | <i>10/14/11 10:10</i> |
| | 2. | | | | |
| 3. | | | | | |
| 4. | | | | | |

| INORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | ORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt | |
|----------------------|--|------------|----------------------|--|------------------|--------------------------|--------------------|--|--|
| ME3P01 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1068 (Ice Only) (1) | SB-10 | 10/11/11 1148 | E3P01 | | |
| ME3P02 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1070 (Ice Only) (1) | SB-11 | } | E3P02 | | |
| ME3P03 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1072 (Ice Only) (1) | SB-12 | | 1704 | E3P03 | |
| ME3P04 | Sediment/ John Spielberg | L/G | TM/CN (21) | 5-1074 (Ice Only) (1) | SD-01 | | 10/12/11 1330 | E3P04 | |
| ME3P05 | Sediment/ John Spielberg | L/G | TM/CN (21) | 5-1076 (Ice Only) (1) | SD-02 | } | E3P05 | | |
| ME3P06 | Sediment/ John Spielberg | L/G | TM/CN (21) | 5-1078 (Ice Only) (1) | SD-03 | | 1415 | E3P06 | |
| ME3P07 | Sediment/ John Spielberg | L/G | TM/CN (21) | 5-1080 (Ice Only) (1) | SD-03D | | 1415 | E3P07 | |
| ME3P08 | Sediment/ John Spielberg | L/G | TM/CN (21) | 5-1083 (Ice Only), 5-1084 (Ice Only) (2) | SD-04 | | 1515 | E3P08 | |
| ME3P09 | Sediment/ John Spielberg | L/G | TM/CN (21) | 5-1086 (Ice Only) (1) | SD-05 | | 1615 | E3P09 | |
| ME3P33 | } | } | } | 5-1242 (ice) | SB-13 | 10/11/11, 1053 | | (EXCEPT: ME3P34 all samples are ME3N21) | |
| ME3P34 | | | | 5-1244 (ice) | SB-14 | " 1803 | | | |

| | | | | |
|---|---|---|--|--|
| Shipment for Case Complete? <input type="checkbox"/> | Sample(s) to be used for laboratory QC: ME3P08 | Additional Sampler Signature(s): <i>John Spielberg</i> | Cooler Temperature Upon Receipt: 40C | Chain of Custody Seal Number: 89243, 89244 |
| Analysis Key: TMCN = CLP Total Metals and Cyanide - soil | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? <input checked="" type="checkbox"/> | Shipment Iced? <input checked="" type="checkbox"/> |

TR Number: 5-264186997-100811-0002

LABORATORY COPY

Regional Transmittal Form

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V**

DATE: 11/16/11

SUBJECT: Review of Data
Received for review on 11/4/11

FROM: Timothy Prendiville, Supervisor, Chief (SR-6J)
Superfund Contract Management Section

TO: Data User: MDEQ
Email address: walczakj@michigan.gov

LEVEL 3 DATA VALIDATION

We have reviewed the data for the following case:

SITE NAME: C & H Lake Linden Operations (MI)

CASE NUMBER: 41861 **SDG NUMBER:** ME3NZ1

Number and Type of Samples: 20 soils

Sample Numbers: ME3NZ1-Z9, P00-09; ME3P33

Laboratory: ChemTech **Hrs. for Review:** _____

Following are our findings:

CC: Howard Pham
Region 5 TP0
Mail Code: SA-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twenty (20) soil samples, numbered ME3NZ1-Z9, P00-09; ME3P33, were collected on October 10-12, 2011. The lab received the samples on October 14, 2011 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ISM01.3 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

For sample ME3P33, the raw cobalt value was more negative than the absolute value of the CRQL and would have been rejected. A 10X dilution was performed for copper and lead due to the concentrations being over the calibration limit. The cobalt value in the diluted sample was less negative than the absolute value of the CRQL. The reported cobalt result was changed to the dilution by this reviewer. EXES does not allow the reviewer to change the dilution for a sample, so EXES does not have the proper dilution factor reported.

Post digestion spikes were prepared incorrectly for antimony and arsenic. Antimony should have been prepared at 2X the CRQL; Arsenic should have been prepared at 2X the sample concentration. The post spikes were not prepared at these levels. Qualification of results is based on the recoveries at the concentrations performed by the Laboratory.

1. HOLDING TIME:

The inorganic soil samples were reviewed for hold time violations using criteria developed for water samples. No defects were found.

2. CALIBRATIONS:

The following inorganic samples are associated with calibration standards used past the expiration date.

Hits are qualified "J" and non-detects are qualified "UJ".

Cyanide

ME3NZ1, ME3NZ2, ME3NZ3, ME3NZ4, ME3NZ5, ME3NZ6, ME3NZ7,
ME3NZ8, ME3NZ9, ME3P00, ME3P01, ME3P02, ME3P03, ME3P04, ME3P05,
ME3P06, ME3P07, ME3P08, ME3P09, ME3P33

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.
Hits greater than the CRQL but less than 5 times the blank are qualified "J+".

Arsenic

ME3NZ4, ME3P04, ME3P06

Chromium

ME3P04

Lead

ME3NZ2, ME3NZ4

Potassium

ME3NZ1, ME3NZ2, ME3NZ3, ME3NZ4, ME3NZ5, ME3NZ6, ME3NZ7,
ME3NZ8, ME3NZ9, ME3P00, ME3P01, ME3P02, ME3P03, ME3P04, ME3P05,
ME3P06, ME3P07, ME3P08, ME3P09, ME3P33

Thallium

ME3NZ2, ME3NZ3, ME3P33

Vanadium

ME3P04

The following results are affected by a positive ICB/CCB or preparation blank for which positive concentration values greater than the absolute value of the MDL were obtained. The results are also associated with a low matrix spike recovery (see Matrix Spike Section 4 below).

Hits less than 5 times the absolute value of the blank are qualified "J". Hits greater than 5 times the blank are not qualified.

Arsenic
ME3NZ2

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were greater than or equal to 75%.

Hits are qualified "J" and non-detects are qualified "UJ".

Antimony
ME3NZ1, ME3NZ2, ME3NZ3, ME3NZ4, ME3NZ5, ME3NZ6, ME3NZ7,
ME3NZ8, ME3NZ9, ME3P00, ME3P01, ME3P02, ME3P03, ME3P04, ME3P05,
ME3P06, ME3P07, ME3P08, ME3P09, ME3P33

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were less than 75%.

Hits are qualified "J-" and non-detects are qualified "UJ".

Arsenic
ME3NZ1, ME3NZ3, ME3NZ4, ME3NZ5, ME3NZ6, ME3NZ7, ME3NZ8,
ME3NZ9, ME3P00, ME3P01, ME3P02, ME3P03, ME3P04, ME3P05, ME3P06,
ME3P07, ME3P08, ME3P09, ME3P33

The following inorganic samples are associated with a matrix spike recovery which is low (30-74%) indicating that sample results may be biased low. The required post spike was performed and results were less than 75%. The samples are also associated with a positive ICB/CCB or preparation blank which is greater than the method detection limit (MDL) (see Blanks Section 3 above).

Hits are qualified "J"; non-detects are not qualified.

Arsenic
ME3NZ2

No defects were found for the laboratory control sample.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples. Region 5 uses 35%RPD/2xCRQL difference control criteria for soil samples.

ME3P06 and ME3P07 are field duplicates. The following inorganic analytes are associated with field duplicate results which did not meet technical data validation criteria; however,

no sample results are qualified for field duplicates.

Copper

ME3NZ3 and ME3NZ5 are field duplicates. No defects were found for the field duplicate samples.

6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.

Hits are qualified "J" and non-detects are qualified "UJ".

Arsenic

ME3NZ1, ME3NZ2, ME3NZ3, ME3NZ4, ME3NZ5, ME3NZ6, ME3NZ7,
ME3NZ8, ME3NZ9, ME3P00, ME3P01, ME3P02, ME3P03, ME3P04, ME3P05,
ME3P06, ME3P07, ME3P08, ME3P09, ME3P33

No defects were found for the ICS samples.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Antimony

ME3NZ3, ME3NZ5, ME3NZ6, ME3NZ7, ME3NZ8, ME3NZ9, ME3P00, ME3P01,
ME3P02, ME3P03, ME3P05, ME3P06, ME3P07, ME3P08, ME3P09, ME3P33

Barium

ME3NZ2, ME3NZ4, ME3NZ7, ME3P00, ME3P04, ME3P06

Beryllium

ME3NZ1, ME3NZ2, ME3NZ4, ME3P02, ME3P03, ME3P04, ME3P06, ME3P07,
ME3P09

Cadmium

ME3NZ1, ME3NZ2, ME3NZ4, ME3P04, ME3P06

Calcium

ME3P04

Cobalt

ME3NZ1, ME3NZ2, ME3NZ4, ME3P01, ME3P02, ME3P03, ME3P04, ME3P05,
ME3P06, ME3P07, ME3P08, ME3P09, ME3P33

Magnesium

ME3P04

Mercury

ME3NZ3, ME3NZ5, ME3NZ6, ME3NZ7, ME3NZ9, ME3P00, ME3P01, ME3P02,
ME3P03, ME3P05, ME3P08, ME3P09

Nickel

ME3P04

Selenium

ME3P01, ME3P03

Silver

ME3NZ7, ME3P08

Sodium

ME3NZ1, ME3NZ2, ME3NZ3, ME3NZ4, ME3NZ5, ME3NZ6, ME3NZ7,
ME3NZ8, ME3NZ9, ME3P00, ME3P01, ME3P02, ME3P03, ME3P04, ME3P05,
ME3P06, ME3P07, ME3P08, ME3P09

All data, except those qualified above, are acceptable.

EXES ISM01.3 Data Qualifier Sheet

| <u>Qualifiers</u> | <u>Data Qualifier Definitions</u> |
|-------------------|---|
| U | The analyte was analyzed for, but was not detected above the reported sample quantitation limit. |
| J | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. |
| J+ | The result is an estimated quantity, but the result may be biased high. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| R | The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample. |
| UJ | The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. |

Sample Summary Report

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ1 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-01 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 17:01:00 |
| % Moisture : | | | | % Solids : | 57.5 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.15 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ1 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-01 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 17:01:00 |
| % Moisture : | | | | % Solids : | 57.5 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 4710 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 9.7 | mg/kg | 1 | UN | UJ | Yes | S2BVE |
| Arsenic | 2.1 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 33.3 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 0.44 | mg/kg | 1 | J | J | Yes | S2BVE |
| Cadmium | 0.44 | mg/kg | 1 | J | J | Yes | S2BVE |
| Calcium | 1980 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 15.6 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 4.8 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 22.9 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 7200 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 1.9 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 2700 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 91.1 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 12.7 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 805 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 5.6 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 1.6 | mg/kg | 1 | U | U | Yes | S2BVE |
| Sodium | 163 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 4.0 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 45.4 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 27.9 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ1 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-01 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 17:01:00 |
| % Moisture : | | | | % Solids : | 57.5 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.87 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ2 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-02 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 16:10:00 |
| % Moisture : | | | | % Solids : | 77 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.12 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ2 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-02 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 16:10:00 |
| % Moisture : | | | | % Solids : | 77 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.65 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ2 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-02 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 16:10:00 |
| % Moisture : | | | | % Solids : | 77 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 1840 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 5.4 | mg/kg | 1 | UN | UJ | Yes | S2BVE |
| Arsenic | 1.0 | mg/kg | 1 | NE | J | Yes | S2BVE |
| Barium | 11.7 | mg/kg | 1 | J | J | Yes | S2BVE |
| Beryllium | 0.20 | mg/kg | 1 | J | J | Yes | S2BVE |
| Cadmium | 0.24 | mg/kg | 1 | J | J | Yes | S2BVE |
| Calcium | 840 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 5.3 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 2.3 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 8.8 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 4280 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 0.90 | mg/kg | 1 | J* | U | Yes | S2BVE |
| Magnesium | 1320 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 49.7 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 6.3 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 451 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.2 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 0.90 | mg/kg | 1 | U | U | Yes | S2BVE |
| Sodium | 86.0 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.3 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 12.4 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 11.9 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ3 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-04 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 18:12:00 |
| % Moisture : | | | | % Solids : | 84.5 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 7050 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 0.49 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 3.2 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 51.4 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 0.77 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 1.2 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 19600 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 28.7 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 9.8 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 1220 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 18700 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 14.9 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 7600 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 280 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 31.4 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 574 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 4.0 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 2.4 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 219 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.9 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 48.4 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 65.6 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ3 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-04 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 18:12:00 |
| % Moisture : | | | | % Solids : | 84.5 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.59 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ3 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-04 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 18:12:00 |
| % Moisture : | | | | % Solids : | 84.5 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.041 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ4 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-03 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 16:00:00 |
| % Moisture : | | | | % Solids : | 81.9 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 1650 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 6.2 | mg/kg | 1 | UN | UJ | Yes | S2BVE |
| Arsenic | 1.0 | mg/kg | 1 | JNE | UJ | Yes | S2BVE |
| Barium | 10.1 | mg/kg | 1 | J | J | Yes | S2BVE |
| Beryllium | 0.16 | mg/kg | 1 | J | J | Yes | S2BVE |
| Cadmium | 0.27 | mg/kg | 1 | J | J | Yes | S2BVE |
| Calcium | 889 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 5.0 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 1.8 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 34.5 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 4790 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 1.0 | mg/kg | 1 | J* | U | Yes | S2BVE |
| Magnesium | 1040 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 48.7 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 4.7 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 513 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.6 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 1.0 | mg/kg | 1 | U | U | Yes | S2BVE |
| Sodium | 92.3 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.6 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 12.0 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 11.4 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ4 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-03 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 16:00:00 |
| % Moisture : | | | | % Solids : | 81.9 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.11 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ4 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-03 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 16:00:00 |
| % Moisture : | | | | % Solids : | 81.9 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.61 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ5 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-04 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 18:12:00 |
| % Moisture : | | | | % Solids : | 84.3 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.59 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ5 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-04 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 18:12:00 |
| % Moisture : | | | | % Solids : | 84.3 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.021 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ5 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-04 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 18:12:00 |
| % Moisture : | | | | % Solids : | 84.3 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 6940 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 0.46 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 2.4 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 39.2 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 0.74 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 1.2 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 18900 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 29.1 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 10.3 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 1190 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 18500 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 10.6 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 7370 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 269 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 31.7 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 430 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.0 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 2.3 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 257 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.1 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 46.5 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 61.6 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ6 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-05 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 18:40:00 |
| % Moisture : | | | | % Solids : | 81.6 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 3200 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 0.79 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 3.0 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 43.4 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 0.70 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 0.78 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 12400 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 16.2 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 5.7 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 5130 | mg/kg | 10 | D | | Yes | S2BVE |
| Iron | 11500 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 83.4 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 5210 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 170 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 15.5 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 461 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.2 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 7.0 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 203 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.3 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 32.0 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 79.3 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ6 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-05 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 18:40:00 |
| % Moisture : | | | | % Solids : | 81.6 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.041 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ6 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-05 | pH: | 2 | Sample Date: | 10102011 | Sample Time: | 18:40:00 |
| % Moisture : | | | | % Solids : | 81.6 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.61 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ7 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-06 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 09:30:00 |
| % Moisture : | | | | % Solids : | 90.6 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.035 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ7 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-06 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 09:30:00 |
| % Moisture : | | | | % Solids : | 90.6 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 4750 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 0.23 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 2.0 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 16.3 | mg/kg | 1 | J | J | Yes | S2BVE |
| Beryllium | 0.62 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 0.88 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 9940 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 19.0 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 6.9 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 411 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 14400 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 13.3 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 5190 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 196 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 21.3 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 552 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.9 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 1.0 | mg/kg | 1 | J | J | Yes | S2BVE |
| Sodium | 249 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.8 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 32.9 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 50.6 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ7 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-06 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 09:30:00 |
| % Moisture : | | | | % Solids : | 90.6 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.55 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ8 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-07 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 10:15:00 |
| % Moisture : | | | | % Solids : | 93.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 5140 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 0.44 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 2.9 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 57.3 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 0.74 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 1.0 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 10800 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 21.2 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 8.5 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 1170 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 14500 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 43.0 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 6530 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 226 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 26.7 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 420 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 2.9 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 3.2 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 205 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.1 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 36.2 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 68.1 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ8 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-07 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 10:15:00 |
| % Moisture : | | | | % Solids : | 93.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.58 | mg/kg | 1 | | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ8 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-07 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 10:15:00 |
| % Moisture : | | | | % Solids : | 93.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.54 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ9 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-08 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 14:55:00 |
| % Moisture : | | | | % Solids : | 95.8 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.041 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ9 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-08 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 14:55:00 |
| % Moisture : | | | | % Solids : | 95.8 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 5580 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 0.37 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 2.4 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 39.9 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 0.81 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 1.0 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 13300 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 24.1 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 9.3 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 1460 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 14900 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 111 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 7940 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 248 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 27.5 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 414 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 2.9 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 4.3 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 158 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.1 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 39.3 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 147 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3NZ9 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-08 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 14:55:00 |
| % Moisture : | | | | % Solids : | 95.8 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.52 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P00 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-09 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 14:08:00 |
| % Moisture : | | | | % Solids : | 91.8 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.020 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P00 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-09 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 14:08:00 |
| % Moisture : | | | | % Solids : | 91.8 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.54 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P00 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-09 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 14:08:00 |
| % Moisture : | | | | % Solids : | 91.8 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 6730 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 0.30 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 1.7 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 11.6 | mg/kg | 1 | J | J | Yes | S2BVE |
| Beryllium | 0.59 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 1.0 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 13800 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 23.4 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 10.4 | mg/kg | 1 | | | Yes | S2BVE |
| Copper | 877 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 14400 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 15.8 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 7340 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 267 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 30.3 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 400 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 2.8 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 2.2 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 180 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.0 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 34.8 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 61.5 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P01 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-10 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 11:48:00 |
| % Moisture : | | | | % Solids : | 83.8 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.054 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P01 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-10 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 11:48:00 |
| % Moisture : | | | | % Solids : | 83.8 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 3490 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 0.38 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 3.1 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 54.8 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 0.66 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 0.59 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 4190 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 12.9 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 4.0 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 1030 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 10000 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 41.2 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 2770 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 121 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 12.6 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 429 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 0.27 | mg/kg | 1 | J | J | Yes | S2BVE |
| Silver | 1.1 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 229 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.1 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 21.9 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 37.4 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P01 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-10 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 11:48:00 |
| % Moisture : | | | | % Solids : | 83.8 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.60 | mg/kg | 1 | U | UJ | Yes | S2BVE |

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|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P02 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-11 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 16:30:00 |
| % Moisture : | | | | % Solids : | 92.6 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 2670 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 1.5 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 27.1 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 43.9 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 0.30 | mg/kg | 1 | J | J | Yes | S2BVE |
| Cadmium | 0.73 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 1720 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 9.3 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 2.6 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 6600 | mg/kg | 10 | D | | Yes | S2BVE |
| Iron | 8090 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 54.7 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 1650 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 105 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 8.2 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 491 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.4 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 1.7 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 198 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.5 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 18.3 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 78.7 | mg/kg | 1 | * | | Yes | S2BVE |

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|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P02 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-11 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 16:30:00 |
| % Moisture : | | | | % Solids : | 92.6 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.058 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P02 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-11 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 16:30:00 |
| % Moisture : | | | | % Solids : | 92.6 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.54 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P03 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-12 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 17:04:00 |
| % Moisture : | | | | % Solids : | 86.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 2930 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 0.71 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 8.6 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 69.1 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 0.37 | mg/kg | 1 | J | J | Yes | S2BVE |
| Cadmium | 0.66 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 3620 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 10.0 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 3.8 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 3660 | mg/kg | 10 | D | | Yes | S2BVE |
| Iron | 10300 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 16.6 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 1590 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 246 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 7.0 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 468 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 0.33 | mg/kg | 1 | J | J | Yes | S2BVE |
| Silver | 1.0 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 165 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.3 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 25.9 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 35.2 | mg/kg | 1 | * | | Yes | S2BVE |

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|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P03 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-12 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 17:04:00 |
| % Moisture : | | | | % Solids : | 86.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.018 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P03 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-12 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 17:04:00 |
| % Moisture : | | | | % Solids : | 86.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.13 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P04 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-01 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 13:30:00 |
| % Moisture : | | | | % Solids : | 78.9 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 481 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 7.0 | mg/kg | 1 | UN | UJ | Yes | S2BVE |
| Arsenic | 1.2 | mg/kg | 1 | JNE | UJ | Yes | S2BVE |
| Barium | 8.0 | mg/kg | 1 | J | J | Yes | S2BVE |
| Beryllium | 0.081 | mg/kg | 1 | J | J | Yes | S2BVE |
| Cadmium | 0.12 | mg/kg | 1 | J | J | Yes | S2BVE |
| Calcium | 339 | mg/kg | 1 | J | J | Yes | S2BVE |
| Chromium | 1.9 | mg/kg | 1 | | J+ | Yes | S2BVE |
| Cobalt | 0.41 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 25.0 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 2210 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 1.3 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 213 | mg/kg | 1 | J | J | Yes | S2BVE |
| Manganese | 27.3 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 1.2 | mg/kg | 1 | J* | J | Yes | S2BVE |
| Potassium | 581 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 4.1 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 1.2 | mg/kg | 1 | U | U | Yes | S2BVE |
| Sodium | 97.9 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.9 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 5.8 | mg/kg | 1 | J | U | Yes | S2BVE |
| Zinc | 9.4 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P04 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-01 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 13:30:00 |
| % Moisture : | | | | % Solids : | 78.9 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.12 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P04 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-01 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 13:30:00 |
| % Moisture : | | | | % Solids : | 78.9 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.63 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P05 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-02 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 18:00:00 |
| % Moisture : | | | | % Solids : | 76.9 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 1270 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 2.1 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 5.8 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 29.7 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 0.57 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 1.9 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 1060 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 12.9 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 3.9 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 131 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 33500 | mg/kg | 10 | D | | Yes | S2BVE |
| Lead | 137 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 686 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 154 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 13.9 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 508 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.6 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 1.0 | mg/kg | 1 | U | U | Yes | S2BVE |
| Sodium | 274 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.5 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 12.6 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 108 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P05 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-02 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 18:00:00 |
| % Moisture : | | | | % Solids : | 76.9 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.042 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P05 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-02 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 18:00:00 |
| % Moisture : | | | | % Solids : | 76.9 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.65 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P06 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-03 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 14:15:00 |
| % Moisture : | | | | % Solids : | 69.3 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.72 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P06 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-03 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 14:15:00 |
| % Moisture : | | | | % Solids : | 69.3 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 2060 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 0.27 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 1.2 | mg/kg | 1 | JNE | UJ | Yes | S2BVE |
| Barium | 20.7 | mg/kg | 1 | J | J | Yes | S2BVE |
| Beryllium | 0.28 | mg/kg | 1 | J | J | Yes | S2BVE |
| Cadmium | 0.51 | mg/kg | 1 | J | J | Yes | S2BVE |
| Calcium | 1630 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 8.4 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 3.2 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 164 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 8430 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 7.6 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 1910 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 101 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 8.6 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 617 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 4.3 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 1.2 | mg/kg | 1 | U | U | Yes | S2BVE |
| Sodium | 313 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 3.1 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 15.6 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 28.4 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P06 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-03 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 14:15:00 |
| % Moisture : | | | | % Solids : | 69.3 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.14 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P07 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-03D | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 14:15:00 |
| % Moisture : | | | | % Solids : | 70.3 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 2140 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 0.34 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 1.4 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 26.5 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 0.33 | mg/kg | 1 | J | J | Yes | S2BVE |
| Cadmium | 0.56 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 1600 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 7.9 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 2.8 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 97.7 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 9320 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 8.5 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 1680 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 107 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 7.3 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 508 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.6 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 1.0 | mg/kg | 1 | U | U | Yes | S2BVE |
| Sodium | 145 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 2.5 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 18.4 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 26.0 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P07 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-03D | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 14:15:00 |
| % Moisture : | | | | % Solids : | 70.3 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.14 | mg/kg | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P07 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-03D | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 14:15:00 |
| % Moisture : | | | | % Solids : | 70.3 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.71 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P08 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-04 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 15:15:00 |
| % Moisture : | | | | % Solids : | 32.4 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 1.5 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P08 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-04 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 15:15:00 |
| % Moisture : | | | | % Solids : | 32.4 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 13800 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 2.3 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 27.3 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 69.2 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 1.6 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 3.2 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 5820 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 33.8 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 14.8 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 2340 | mg/kg | 1 | | | Yes | S2BVE |
| Iron | 45300 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 223 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 7120 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 233 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 42.1 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 1540 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 10.8 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 1.7 | mg/kg | 1 | J | J | Yes | S2BVE |
| Sodium | 567 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 7.7 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 52.6 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 210 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P08 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-04 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 15:15:00 |
| % Moisture : | | | | % Solids : | 32.4 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.19 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P09 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-05 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 16:15:00 |
| % Moisture : | | | | % Solids : | 32 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.28 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P09 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-05 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 16:15:00 |
| % Moisture : | | | | % Solids : | 32 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 9540 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 9.7 | mg/kg | 1 | JN | J | Yes | S2BVE |
| Arsenic | 96.6 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 114 | mg/kg | 1 | | | Yes | S2BVE |
| Beryllium | 1.2 | mg/kg | 1 | J | J | Yes | S2BVE |
| Cadmium | 2.8 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 10900 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 60.2 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 11.7 | mg/kg | 1 | J | J | Yes | S2BVE |
| Copper | 14800 | mg/kg | 10 | D | | Yes | S2BVE |
| Iron | 33700 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 963 | mg/kg | 1 | * | | Yes | S2BVE |
| Magnesium | 6040 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 285 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 50.5 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 1520 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 10.6 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 4.2 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 1420 | mg/kg | 1 | J | J | Yes | S2BVE |
| Thallium | 7.6 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 52.8 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 2170 | mg/kg | 1 | * | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P09 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SD-05 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 16:15:00 |
| % Moisture : | | | | % Solids : | 32 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.57 | mg/kg | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P33 | Method: | CN | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-13 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 10:53:00 |
| % Moisture : | | | | % Solids : | 84.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 0.59 | mg/kg | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P33 | Method: | Hg | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-13 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 10:53:00 |
| % Moisture : | | | | % Solids : | 84.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.10 | mg/kg | 1 | | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3NZ1 | Lab Code: | CHEM |
| Sample Number: | ME3P33 | Method: | ICP_AES | Matrix: | Soil | MA Number: | DEFAULT |
| Sample Location: | SB-13 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 10:53:00 |
| % Moisture : | | | | % Solids : | 84.1 | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 3720 | mg/kg | 1 | | | Yes | S2BVE |
| Antimony | 8.5 | mg/kg | 1 | N | J | Yes | S2BVE |
| Arsenic | 17.5 | mg/kg | 1 | NE | J- | Yes | S2BVE |
| Barium | 108000 | mg/kg | 200 | D | | Yes | S2BVE |
| Beryllium | 0.78 | mg/kg | 1 | | | Yes | S2BVE |
| Cadmium | 8.4 | mg/kg | 1 | | | Yes | S2BVE |
| Calcium | 7270 | mg/kg | 1 | | | Yes | S2BVE |
| Chromium | 14.6 | mg/kg | 1 | | | Yes | S2BVE |
| Cobalt | 3.5 | mg/kg | 1 | U | J | Yes | S2BVE |
| Copper | 9940 | mg/kg | 10 | D | | Yes | S2BVE |
| Iron | 23800 | mg/kg | 1 | | | Yes | S2BVE |
| Lead | 16100 | mg/kg | 10 | *D | | Yes | S2BVE |
| Magnesium | 4250 | mg/kg | 1 | | | Yes | S2BVE |
| Manganese | 229 | mg/kg | 1 | | | Yes | S2BVE |
| Nickel | 24.3 | mg/kg | 1 | * | | Yes | S2BVE |
| Potassium | 450 | mg/kg | 1 | J | U | Yes | S2BVE |
| Selenium | 3.2 | mg/kg | 1 | U | U | Yes | S2BVE |
| Silver | 3.2 | mg/kg | 1 | | | Yes | S2BVE |
| Sodium | 472 | mg/kg | 1 | | | Yes | S2BVE |
| Thallium | 2.3 | mg/kg | 1 | U | U | Yes | S2BVE |
| Vanadium | 21.6 | mg/kg | 1 | | | Yes | S2BVE |
| Zinc | 607 | mg/kg | 1 | * | | Yes | S2BVE |

Edit History Report

Case No: 41861

Contract: EPW09038

SDG No: ME3NZ1

Lab Code: CHEM

Method: Hg

| Sample | Matrix | Analyte Name | Data Field | Old Value | New Value | User | Edit Date Time | Global |
|--------|--------|--------------|------------------|-----------|-----------|-------------|------------------|--------|
| ME3NZ3 | Soil | Mercury | Validated Result | 0.040 | 0.041 | Linda Moore | 11/17/11 3:23 PM | |
| ME3NZ5 | Soil | Mercury | Validated Result | 0.020 | 0.021 | Linda Moore | 11/17/11 3:29 PM | |
| ME3NZ6 | Soil | Mercury | Validated Result | 0.040 | 0.041 | Linda Moore | 11/17/11 3:31 PM | |
| ME3NZ7 | Soil | Mercury | Validated Result | 0.040 | 0.035 | Linda Moore | 11/17/11 3:32 PM | |
| ME3NZ9 | Soil | Mercury | Validated Result | 0.040 | 0.041 | Linda Moore | 11/17/11 3:37 PM | |
| ME3P01 | Soil | Mercury | Validated Result | 0.050 | 0.054 | Linda Moore | 11/17/11 3:42 PM | |
| ME3P02 | Soil | Mercury | Validated Result | 0.060 | 0.058 | Linda Moore | 11/17/11 3:44 PM | |
| ME3P03 | Soil | Mercury | Validated Result | 0.020 | 0.018 | Linda Moore | 11/17/11 3:47 PM | |
| ME3P05 | Soil | Mercury | Validated Result | 0.040 | 0.042 | Linda Moore | 11/17/11 3:53 PM | |
| ME3P09 | Soil | Mercury | Validation Flag | UJ | J | Linda Moore | 11/21/11 4:43 PM | |
| ME3P09 | Soil | Mercury | Validation Flag | J | UJ | Linda Moore | 11/21/11 4:42 PM | |

Method: CN

| Sample | Matrix | Analyte Name | Data Field | Old Value | New Value | User | Edit Date Time | Global |
|--------|--------|--------------|-----------------|-----------|-----------|-------------|------------------|--------|
| ME3NZ1 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:31 PM | |
| ME3NZ2 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:32 PM | |
| ME3NZ4 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:33 PM | |
| ME3NZ5 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:33 PM | |
| ME3NZ6 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:34 PM | |
| ME3NZ7 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:35 PM | |
| ME3NZ8 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:36 PM | |
| ME3NZ9 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:36 PM | |
| ME3P00 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:37 PM | |
| ME3P01 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:38 PM | |
| ME3P02 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:38 PM | |
| ME3P04 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:40 PM | |
| ME3P05 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 5:13 PM | |
| ME3P06 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 5:13 PM | |
| ME3P07 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:41 PM | |
| ME3P08 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:41 PM | |
| ME3P33 | Soil | Cyanide | Validation Flag | U | UJ | Linda Moore | 11/21/11 4:44 PM | |

Method: ICP_AES

| Sample | Matrix | Analyte Name | Data Field | Old Value | New Value | User | Edit Date Time | Global |
|--------|--------|--------------|------------------|-----------|-----------|-------------|------------------|--------|
| ME3NZ1 | Soil | Cadmium | Validated Result | 0.81 | 0.44 | Linda Moore | 11/17/11 3:15 PM | |
| ME3NZ1 | Soil | Cadmium | Validation Flag | U | J | Linda Moore | 11/17/11 3:15 PM | |
| ME3NZ1 | Soil | Cobalt | Validated Result | 8.1 | 4.8 | Linda Moore | 11/17/11 3:15 PM | |
| ME3NZ1 | Soil | Cobalt | Validation Flag | U | J | Linda Moore | 11/17/11 3:15 PM | |
| ME3NZ1 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 3:15 PM | |
| ME3NZ1 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:15 PM | |
| ME3NZ1 | Soil | Zinc | Validated Result | 28.0 | 27.9 | Linda Moore | 11/17/11 3:15 PM | |
| ME3NZ1 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:15 PM | |
| ME3NZ2 | Soil | Arsenic | Validation Flag | J- | J | Linda Moore | 11/17/11 3:20 PM | |
| ME3NZ2 | Soil | Cadmium | Validated Result | 0.45 | 0.24 | Linda Moore | 11/17/11 3:20 PM | |
| ME3NZ2 | Soil | Cadmium | Validation Flag | U | J | Linda Moore | 11/17/11 3:20 PM | |
| ME3NZ2 | Soil | Cobalt | Validated Result | 4.5 | 2.3 | Linda Moore | 11/17/11 3:20 PM | |
| ME3NZ2 | Soil | Cobalt | Validation Flag | U | J | Linda Moore | 11/17/11 3:20 PM | |
| ME3NZ2 | Soil | Lead | Validation Flag | UJ | U | Linda Moore | 11/17/11 3:20 PM | |
| ME3NZ2 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:20 PM | |
| ME3NZ2 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:20 PM | |
| ME3NZ3 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 3:22 PM | |
| ME3NZ3 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:22 PM | |
| ME3NZ3 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:22 PM | |
| ME3NZ4 | Soil | Cadmium | Validated Result | 0.51 | 0.27 | Linda Moore | 11/17/11 3:25 PM | |
| ME3NZ4 | Soil | Cadmium | Validation Flag | U | J | Linda Moore | 11/17/11 3:25 PM | |
| ME3NZ4 | Soil | Cobalt | Validated Result | 5.1 | 1.8 | Linda Moore | 11/17/11 3:25 PM | |
| ME3NZ4 | Soil | Cobalt | Validation Flag | U | J | Linda Moore | 11/17/11 3:25 PM | |
| ME3NZ4 | Soil | Lead | Validation Flag | UJ | U | Linda Moore | 11/17/11 3:25 PM | |
| ME3NZ4 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:25 PM | |
| ME3NZ4 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:25 PM | |
| ME3NZ5 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 3:27 PM | |
| ME3NZ5 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:27 PM | |
| ME3NZ5 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:27 PM | |
| ME3NZ6 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 3:30 PM | |
| ME3NZ6 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:30 PM | |
| ME3NZ6 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:30 PM | |
| ME3NZ7 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 3:32 PM | |
| ME3NZ7 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:32 PM | |
| ME3NZ7 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:33 PM | |
| ME3NZ8 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 3:34 PM | |
| ME3NZ8 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:34 PM | |
| ME3NZ8 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:34 PM | |
| ME3NZ9 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 3:36 PM | |
| ME3NZ9 | Soil | Nickel | Validation | J | | Linda Moore | 11/17/11 3:36 PM | |

| Sample | Matrix | Analyte Name | Data Field | Old Value | New Value | User | Edit Date Time | Global |
|--------|--------|--------------|------------------|-----------|-----------|----------------|------------------|--------|
| ME3NZ9 | Soil | Nickel | Flag | J | | Linda Moore | 11/17/11 3:36 PM | |
| ME3NZ9 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:36 PM | |
| ME3P00 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 3:38 PM | |
| ME3P00 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:38 PM | |
| ME3P00 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:38 PM | |
| ME3P01 | Soil | Cobalt | Validated Result | 4.3 | 4.0 | Linda Moore | 11/17/11 3:41 PM | |
| ME3P01 | Soil | Cobalt | Validation Flag | U | J | Linda Moore | 11/17/11 3:41 PM | |
| ME3P01 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 3:41 PM | |
| ME3P01 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:41 PM | |
| ME3P01 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:41 PM | |
| ME3P02 | Soil | Cobalt | Validated Result | 4.9 | 2.6 | Linda Moore | 11/17/11 3:43 PM | |
| ME3P02 | Soil | Cobalt | Validation Flag | U | J | Linda Moore | 11/17/11 3:43 PM | |
| ME3P02 | Soil | Lead | Validation Flag | J | | Stephen Connet | 11/22/11 3:25 PM | |
| ME3P02 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:43 PM | |
| ME3P02 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:43 PM | |
| ME3P03 | Soil | Cobalt | Validated Result | 4.7 | 3.8 | Linda Moore | 11/17/11 3:47 PM | |
| ME3P03 | Soil | Cobalt | Validation Flag | U | J | Linda Moore | 11/17/11 3:47 PM | |
| ME3P03 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 3:47 PM | |
| ME3P03 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:47 PM | |
| ME3P03 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:47 PM | |
| ME3P04 | Soil | Beryllium | Validated Result | 0.080 | 0.081 | Linda Moore | 11/17/11 3:51 PM | |
| ME3P04 | Soil | Cadmium | Validated Result | 0.58 | 0.12 | Linda Moore | 11/17/11 3:51 PM | |
| ME3P04 | Soil | Cadmium | Validation Flag | U | J | Linda Moore | 11/17/11 3:51 PM | |
| ME3P04 | Soil | Calcium | Validated Result | 581 | 339 | Linda Moore | 11/17/11 3:51 PM | |
| ME3P04 | Soil | Calcium | Validation Flag | U | J | Linda Moore | 11/17/11 3:51 PM | |
| ME3P04 | Soil | Chromium | Validation Flag | | J+ | Linda Moore | 11/17/11 3:51 PM | |
| ME3P04 | Soil | Cobalt | Validated Result | 5.8 | 0.41 | Linda Moore | 11/17/11 3:51 PM | |
| ME3P04 | Soil | Cobalt | Validation Flag | U | J | Linda Moore | 11/17/11 3:51 PM | |
| ME3P04 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 3:51 PM | |
| ME3P04 | Soil | Magnesium | Validated Result | 581 | 213 | Stephen Connet | 11/22/11 3:27 PM | |
| ME3P04 | Soil | Magnesium | Validation Flag | U | J | Stephen Connet | 11/22/11 3:27 PM | |
| ME3P04 | Soil | Nickel | Validated Result | 4.7 | 1.2 | Linda Moore | 11/17/11 3:51 PM | |
| ME3P04 | Soil | Nickel | Validation Flag | UJ | J | Linda Moore | 11/17/11 3:51 PM | |
| ME3P04 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:51 PM | |
| ME3P05 | Soil | Cobalt | Validated Result | 5.1 | 3.9 | Linda Moore | 11/17/11 3:52 PM | |
| ME3P05 | Soil | Cobalt | Validation Flag | U | J | Linda Moore | 11/17/11 3:52 PM | |
| ME3P05 | Soil | Lead | Validation Flag | J | | Stephen Connet | 11/22/11 3:27 PM | |
| ME3P05 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:52 PM | |
| ME3P05 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:52 PM | |
| ME3P06 | Soil | Cadmium | Validated Result | 0.62 | 0.51 | Linda Moore | 11/17/11 3:55 PM | |
| ME3P06 | Soil | Cadmium | Validation | U | J | Linda Moore | 11/17/11 3:55 PM | |

| Sample | Matrix | Analyte Name | Data Field | Old Value | New Value | User | Edit Date Time | Global |
|--------|--------|--------------|------------------|-----------|-----------|----------------|------------------|--------|
| ME3P06 | Soil | Cadmium | Flag | U | J | Linda Moore | 11/17/11 3:55 PM | |
| ME3P06 | Soil | Cobalt | Validated Result | 6.2 | 3.2 | Linda Moore | 11/17/11 3:55 PM | |
| ME3P06 | Soil | Cobalt | Validation Flag | U | J | Linda Moore | 11/17/11 3:55 PM | |
| ME3P06 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 3:55 PM | |
| ME3P06 | Soil | Nickel | Validation Flag | J | | Stephen Connet | 11/22/11 3:28 PM | |
| ME3P06 | Soil | Zinc | Validation Flag | J | | Stephen Connet | 11/22/11 3:28 PM | |
| ME3P07 | Soil | Cobalt | Validated Result | 5.1 | 2.8 | Linda Moore | 11/17/11 3:56 PM | |
| ME3P07 | Soil | Cobalt | Validation Flag | U | J | Linda Moore | 11/17/11 3:56 PM | |
| ME3P07 | Soil | Lead | Validation Flag | J | | Stephen Connet | 11/22/11 3:28 PM | |
| ME3P07 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 3:56 PM | |
| ME3P07 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:56 PM | |
| ME3P08 | Soil | Cobalt | Validated Result | 15.4 | 14.8 | Linda Moore | 11/17/11 3:58 PM | |
| ME3P08 | Soil | Cobalt | Validation Flag | U | J | Linda Moore | 11/17/11 3:58 PM | |
| ME3P08 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 3:58 PM | |
| ME3P08 | Soil | Nickel | Validation Flag | J | | Stephen Connet | 11/22/11 3:29 PM | |
| ME3P08 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 3:58 PM | |
| ME3P09 | Soil | Cobalt | Validated Result | 15.2 | 11.7 | Linda Moore | 11/17/11 4:00 PM | |
| ME3P09 | Soil | Cobalt | Validation Flag | U | J | Linda Moore | 11/17/11 4:00 PM | |
| ME3P09 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 4:00 PM | |
| ME3P09 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 4:00 PM | |
| ME3P09 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 4:00 PM | |
| ME3P33 | Soil | Arsenic | Validated Result | 28.7 | 17.5 | Stephen Connet | 11/22/11 3:30 PM | |
| ME3P33 | Soil | Arsenic | Validated Result | 17.5 | 28.7 | Linda Moore | 11/17/11 4:01 PM | |
| ME3P33 | Soil | Cobalt | Validated Result | 4.5 | 3.5 | Linda Moore | 11/17/11 4:01 PM | |
| ME3P33 | Soil | Cobalt | Validation Flag | U | J | Linda Moore | 11/17/11 4:01 PM | |
| ME3P33 | Soil | Lead | Validation Flag | J | | Linda Moore | 11/17/11 4:01 PM | |
| ME3P33 | Soil | Nickel | Validation Flag | J | | Linda Moore | 11/17/11 4:01 PM | |
| ME3P33 | Soil | Zinc | Validation Flag | J | | Linda Moore | 11/17/11 4:01 PM | |



**USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record**

Case No: 41861
DAS No:
SDG No: ME3NZ1 L

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duog 2

Date Shipped: 10/13/11
Carrier Name: UPS
Airbill: 1Z-549-OW4-22-1008-2547
Shipped to: ChemTech Consulting Group (CHEM)
284 Sheffield Street
Mountainside NJ 07092
(908) 789-8900

| Chain of Custody Record | | Sampler Signature: |
|-------------------------|----------------|-------------------------------|
| Relinquished By | (Date / Time) | Received By |
| 1. John Spielberg | 10/13/11, 1600 | John Spielberg 10/14/11 10:10 |
| 2. | | |
| 3. | | |
| 4. | | |

For Lab Use Only
Lab Contract No: EPW09038
Unit Price:
Transfer To:
Lab Contract No:
Unit Price:

| INORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | ORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt |
|----------------------|---|------------|----------------------|--------------------------------|------------------|--------------------------|--------------------|--|
| ME3NZ1 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1048 (Ice Only) (1) | SB-01 | 10/10/11 1701 | E3NZ1 | |
| ME3NZ2 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1050 (Ice Only) (1) | SB-02 | 1610 | E3NZ2 | |
| ME3NZ3 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1052 (Ice Only) (1) | SB-03 | 1812 | E3NZ3 | |
| ME3NZ4 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1054 (Ice Only) (1) | SB-03 | 1600 | E3NZ4 | |
| ME3NZ5 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1056 (Ice Only) (1) | SB-04 | 1812 | E3NZ5 | |
| ME3NZ6 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1058 (Ice Only) (1) | SB-05 | 1840 | E3NZ6 | |
| ME3NZ7 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1060 (Ice Only) (1) | SB-06 | 10/11/11 930 | E3NZ7 | |
| ME3NZ8 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1062 (Ice Only) (1) | SB-07 | 1015 | E3NZ8 | |
| ME3NZ9 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1064 (Ice Only) (1) | SB-08 | 1455 | E3NZ9 | |
| ME3P00 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1066 (Ice Only) (1) | SB-09 | 1408 | E3P00 | |

| | | | | |
|-------------------------------|---|--|---|---|
| Shipment for Case Complete? N | Sample(s) to be used for laboratory QC: ME3P08 | Additional Sampler Signature(s): John Spielberg | Cooler Temperature Upon Receipt: 40C | Chain of Custody Seal Number: 89243, 89244 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? <u>YES</u> | Shipment Iced? <u>YES</u> |

TM/CN = CLP Total Metals and Cyanide - soil

TR Number: 5-264186997-100811-0002

LABORATORY COPY



USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 41861

DAS No:

SDG No:

ME3N21

L 10

| | | | | |
|---|--------------------------------|---------------------------------------|--|---------------------------|
| Date Shipped: 10/13/11 Carrier Name: UPS Airbill#: 1Z-549-OW4-22-1008-2547 Shipped to: ChemTech Consulting Group (CHEM) 284 Sheffield Street Mountainside NJ 07092 (908) 789-8900 | Chain of Custody Record | | Sampler Signature: <i>John Spielberg</i> | For Lab Use Only |
| | Relinquished By | (Date / Time) | Received By | (Date / Time) |
| | 1 | <i>John Spielberg, 10/13/11, 1600</i> | <i>Van Lue, 10/14/11 10:10</i> | |
| | 2. | | | |
| | 3. | | | |
| 4. | | | | |
| | | | | Lab Contract No: EPW09038 |
| | | | | Unit Price: |
| | | | | Transfer To: |
| | | | | Lab Contract No: |
| | | | | Unit Price: |

| INORGANIC SAMPLE No. | MATRIX/ SAMPLER | CONC/ TYPE | ANALYSIS/ TURNAROUND | TAG No./ PRESERVATIVE/ Bottles | STATION LOCATION | SAMPLE COLLECT DATE/TIME | ORGANIC SAMPLE No. | FOR LAB USE ONLY Sample Condition On Receipt | |
|----------------------|--|------------|----------------------|--|------------------|--------------------------|--------------------|--|--|
| ME3P01 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1068 (Ice Only) (1) | SB-10 | 10/11/11 1148 | E3P01 | | |
| ME3P02 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1070 (Ice Only) (1) | SB-11 | } | E3P02 | | |
| ME3P03 | Subsurface Soil (>12")/ John Spielberg | L/G | TM/CN (21) | 5-1072 (Ice Only) (1) | SB-12 | | 1704 | E3P03 | |
| ME3P04 | Sediment/ John Spielberg | L/G | TM/CN (21) | 5-1074 (Ice Only) (1) | SD-01 | | 10/12/11 1330 | E3P04 | |
| ME3P05 | Sediment/ John Spielberg | L/G | TM/CN (21) | 5-1076 (Ice Only) (1) | SD-02 | } | E3P05 | | |
| ME3P06 | Sediment/ John Spielberg | L/G | TM/CN (21) | 5-1078 (Ice Only) (1) | SD-03 | | 1415 | E3P06 | |
| ME3P07 | Sediment/ John Spielberg | L/G | TM/CN (21) | 5-1080 (Ice Only) (1) | SD-03D | | 1415 | E3P07 | |
| ME3P08 | Sediment/ John Spielberg | L/G | TM/CN (21) | 5-1083 (Ice Only), 5-1084 (Ice Only) (2) | SD-04 | | 1515 | E3P08 | |
| ME3P09 | Sediment/ John Spielberg | L/G | TM/CN (21) | 5-1086 (Ice Only) (1) | SD-05 | | 1615 | E3P09 | |
| ME3P33 | } | } | } | 5-1242 (ice) | SB-13 | 10/11/11 1053 | | | |
| ME3P34 | | | | 5-1244 (ice) | SB-14 | " 1803 | | | |

| | | | | |
|------------------------------|---|---|---|---|
| Shipment for Case Complete?N | Sample(s) to be used for laboratory QC: ME3P08 | Additional Sampler Signature(s): <i>John Spielberg</i> | Cooler Temperature Upon Receipt: 40C | Chain of Custody Seal Number: 89243, 89244 |
| Analysis Key: | Concentration: L = Low, M = Low/Medium, H = High | Type/Designate: Composite = C, Grab = G | Custody Seal Intact? <i>YES</i> | Shipment Iced? <i>YES</i> |

TM/CN = CLP Total Metals and Cyanide - soil

TR Number: 5-264186997-100811-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: S Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 F 703/818-4200; Fax 703/818-4602

LABORATORY COPY

Regional Transmittal Form

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V**

DATE: 11/21/11

SUBJECT: Review of Data
Received for review on 11/4/11

FROM: Timothy Prendiville, Supervisor, Chief (SR-6J)
Superfund Contract Management Section

TO: Data User: MDEQ
Email address: walczakj@michigan.gov

LEVEL 3 DATA VALIDATION

We have reviewed the data for the following case:

SITE NAME: C & H Lake Linden Operations (MI)

CASE NUMBER: 41861 **SDG NUMBER:** ME3P10

Number and Type of Samples: 16 waters

Sample Numbers: ME3P10-20, 27, 28, 31, 32

Laboratory: Chemtech **Hrs. for Review:** _____

Following are our findings:

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Sixteen (16) water samples, numbered ME3P10-20, 27, 28, 31, 32, 35, were collected on October 11-12, 2011. The lab received the samples on October 14, 2011 in good condition. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ISM01.3 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES) procedure.

EXES flagged cyanide samples J-/R for improper preservation. In the EXES Superset Deliverable file, the pH entered was 2 for all analytes. The pH for cyanide should be entered in as 12. There is nothing in place for this reviewer to make the proper changes to the Superset Deliverable file. The flags for improper preservation have been removed from this reviewers report.

It appears the serial dilution may have been prepared incorrectly. All elements for which the serial dilution is a valid QC audit (initial sample concentration is greater than 50X the MDL) failed.

1. HOLDING TIME:

No defects were found.

2. CALIBRATIONS:

The following inorganic samples are associated with calibration standards used past the expiration date.

Hits are qualified "J" and non-detects are qualified "UJ".

Cyanide

ME3P10, ME3P11, ME3P12, ME3P13, ME3P14, ME3P15, ME3P16, ME3P17,
ME3P18, ME3P19, ME3P20, ME3P27, ME3P28, ME3P31, ME3P32, ME3P35

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.

Hits greater than the CRQL but less than 5 times the blank are qualified "J+".

Iron

ME3P16, ME3P27, ME3P28, ME3P31, ME3P32

Potassium

ME3P10, ME3P12, ME3P13, ME3P14, ME3P15, ME3P16, ME3P20, ME3P32

The following inorganic samples are associated with a field/equipment blank concentration which is greater than the MDL but less than the CRQL. ME3P32 is identified as a field/equipment blank.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.

Hits greater than the CRQL but less than 5 times the blank are qualified "J+". Hits greater than 5 times the blank are not qualified.

Barium

ME3P10, ME3P11, ME3P12, ME3P18, ME3P20, ME3P35

Chromium

ME3P10, ME3P11, ME3P12, ME3P14, ME3P16, ME3P17, ME3P18, ME3P19,
ME3P20, ME3P35

Magnesium

ME3P10, ME3P11, ME3P12, ME3P14, ME3P15, ME3P16, ME3P20, ME3P35

Vanadium

ME3P10, ME3P11, ME3P12, ME3P13, ME3P14, ME3P15, ME3P16, ME3P17,
ME3P18, ME3P19, ME3P20, ME3P35

Reviewed by: Stephen Connet

Date: November 21, 2011

Zinc

ME3P10, ME3P11, ME3P12, ME3P13, ME3P14, ME3P15, ME3P16, ME3P18, ME3P19, ME3P20, ME3P35

Aluminum

ME3P10, ME3P11, ME3P12, ME3P13, ME3P14, ME3P15, ME3P16, ME3P17, ME3P18, ME3P19, ME3P20, ME3P27, ME3P28, ME3P31, ME3P32, ME3P35

The following inorganic samples are associated with a field/equipment blank concentration which is greater than the CRQL. ME3P32 is identified as a field/equipment blank.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL. Hits greater than the CRQL but less than 5 times the blank are qualified "J+". Hits greater than 5 times the blank are not qualified.

Calcium

ME3P10, ME3P11, ME3P12, ME3P20

Sodium

ME3P10, ME3P11, ME3P12, ME3P13, ME3P14, ME3P15, ME3P16, ME3P17, ME3P18, ME3P20

ME3P27, ME3P28 and ME3P31 are identified as field blanks. No contamination which affects other samples was present.

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

No defects were found for matrix spike or laboratory control samples.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples.

ME3P14 and ME3P15 are field duplicates. The following inorganic analytes are associated with field duplicate results which did not meet technical data validation criteria; however, no sample results are qualified for field duplicates.

Copper, Lead

6. ICP ANALYSIS:

The following inorganic samples are associated with an ICP serial dilution percent difference which is not in control.

Hits are qualified "J" and non-detects are qualified "UJ".

Barium

ME3P10, ME3P11, ME3P12, ME3P13, ME3P14, ME3P15, ME3P16, ME3P17, ME3P18, ME3P19, ME3P20, ME3P27, ME3P28, ME3P31, ME3P32, ME3P35

Calcium

ME3P10, ME3P11, ME3P12, ME3P13, ME3P14, ME3P15, ME3P16, ME3P17,
ME3P18, ME3P19, ME3P20, ME3P27, ME3P28, ME3P31, ME3P32, ME3P35

Magnesium

ME3P10, ME3P11, ME3P12, ME3P13, ME3P14, ME3P15, ME3P16, ME3P17,
ME3P18, ME3P19, ME3P20, ME3P27, ME3P28, ME3P31, ME3P32, ME3P35

Manganese

ME3P10, ME3P11, ME3P12, ME3P13, ME3P14, ME3P15, ME3P16, ME3P17,
ME3P18, ME3P19, ME3P20, ME3P27, ME3P28, ME3P31, ME3P32, ME3P35

No defects were found for the ICS samples.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Aluminum

ME3P14, ME3P15, ME3P16

Antimony

ME3P17

Arsenic

ME3P10, ME3P14, ME3P15, ME3P16, ME3P18, ME3P20

Barium

ME3P32

Beryllium

ME3P10, ME3P17

Cadmium

ME3P10, ME3P11, ME3P12, ME3P13, ME3P14, ME3P15, ME3P16, ME3P17,
ME3P18, ME3P19, ME3P20, ME3P35

Calcium

ME3P27, ME3P28, ME3P31

Chromium

ME3P32

Cobalt

ME3P10, ME3P17, ME3P19, ME3P20, ME3P35

Copper

ME3P10, ME3P20

Lead

ME3P10, ME3P11, ME3P12, ME3P16, ME3P19, ME3P20

Magnesium

ME3P27, ME3P28, ME3P31, ME3P32

Manganese

ME3P27, ME3P28, ME3P31, ME3P32

Mercury

ME3P10, ME3P18

Nickel

ME3P10, ME3P11, ME3P12, ME3P13, ME3P14, ME3P15, ME3P16, ME3P18,
ME3P19, ME3P20, ME3P35

Silver

ME3P16

Sodium

ME3P27, ME3P28, ME3P31

Vanadium

ME3P28, ME3P31, ME3P32

Zinc

ME3P27, ME3P32

Cyanide

ME3P35

All data, except those qualified above, are acceptable.

EXES ISM01.3 Data Qualifier Sheet

| <u>Qualifiers</u> | <u>Data Qualifier Definitions</u> |
|-------------------|---|
| U | The analyte was analyzed for, but was not detected above the reported sample quantitation limit. |
| J | The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. |
| J+ | The result is an estimated quantity, but the result may be biased high. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| R | The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample. |
| UJ | The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise. |

Sample Summary Report

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P10 | Method: | Hg | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-01 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 10:15:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.099 | ug/L | 1 | J | J | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P10 | Method: | ICP_AES | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-01 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 10:15:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 2240 | ug/L | 1 | | | Yes | S2BVE |
| Antimony | 60.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Arsenic | 3.6 | ug/L | 1 | J | J | Yes | S2BVE |
| Barium | 200 | ug/L | 1 | JE | UJ | Yes | S2BVE |
| Beryllium | 0.75 | ug/L | 1 | J | J | Yes | S2BVE |
| Cadmium | 1.3 | ug/L | 1 | J | J | Yes | S2BVE |
| Calcium | 10800 | ug/L | 1 | E | J+ | Yes | S2BVE |
| Chromium | 10.0 | ug/L | 1 | J | U | Yes | S2BVE |
| Cobalt | 1.1 | ug/L | 1 | J | J | Yes | S2BVE |
| Copper | 15.8 | ug/L | 1 | J | J | Yes | S2BVE |
| Iron | 24400 | ug/L | 1 | | | Yes | S2BVE |
| Lead | 2.4 | ug/L | 1 | J | J | Yes | S2BVE |
| Magnesium | 5000 | ug/L | 1 | JE | UJ | Yes | S2BVE |
| Manganese | 199 | ug/L | 1 | E | J | Yes | S2BVE |
| Nickel | 4.8 | ug/L | 1 | J | J | Yes | S2BVE |
| Potassium | 5000 | ug/L | 1 | J | U | Yes | S2BVE |
| Selenium | 35.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Silver | 10.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Sodium | 46400 | ug/L | 1 | | J+ | Yes | S2BVE |
| Thallium | 25.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Vanadium | 50.0 | ug/L | 1 | J | U | Yes | S2BVE |
| Zinc | 60.0 | ug/L | 1 | J | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P10 | Method: | CN | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-01 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 10:15:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 10.0 | ug/L | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P11 | Method: | ICP_AES | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-02 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 11:12:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 1020 | ug/L | 1 | | | Yes | S2BVE |
| Antimony | 60.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Arsenic | 10.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Barium | 200 | ug/L | 1 | JE | UJ | Yes | S2BVE |
| Beryllium | 5.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Cadmium | 1.0 | ug/L | 1 | J | J | Yes | S2BVE |
| Calcium | 42300 | ug/L | 1 | E | J+ | Yes | S2BVE |
| Chromium | 10.0 | ug/L | 1 | J | U | Yes | S2BVE |
| Cobalt | 50.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Copper | 26.7 | ug/L | 1 | | | Yes | S2BVE |
| Iron | 17000 | ug/L | 1 | | | Yes | S2BVE |
| Lead | 2.9 | ug/L | 1 | J | J | Yes | S2BVE |
| Magnesium | 5000 | ug/L | 1 | JE | UJ | Yes | S2BVE |
| Manganese | 194 | ug/L | 1 | E | J | Yes | S2BVE |
| Nickel | 2.4 | ug/L | 1 | J | J | Yes | S2BVE |
| Potassium | 5340 | ug/L | 1 | | | Yes | S2BVE |
| Selenium | 35.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Silver | 10.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Sodium | 5000 | ug/L | 1 | J | U | Yes | S2BVE |
| Thallium | 25.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Vanadium | 50.0 | ug/L | 1 | J | U | Yes | S2BVE |
| Zinc | 60.0 | ug/L | 1 | J | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P11 | Method: | CN | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-02 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 11:12:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 10.0 | ug/L | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P11 | Method: | Hg | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-02 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 11:12:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.20 | ug/L | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P12 | Method: | Hg | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-03 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 16:10:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.20 | ug/L | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P12 | Method: | CN | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-03 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 16:10:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 10.0 | ug/L | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|------------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P12 | Method: | ICP_AES | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-03 | pH: | 2 | Sample Date: | 10122011 | Sample Time: | 16:10:00 |
| % Moisture : | | % Solids : | | | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 453 | ug/L | 1 | | | Yes | S2BVE |
| Antimony | 60.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Arsenic | 10.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Barium | 200 | ug/L | 1 | JE | UJ | Yes | S2BVE |
| Beryllium | 5.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Cadmium | 0.48 | ug/L | 1 | J | J | Yes | S2BVE |
| Calcium | 39200 | ug/L | 1 | E | J+ | Yes | S2BVE |
| Chromium | 10.0 | ug/L | 1 | J | U | Yes | S2BVE |
| Cobalt | 50.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Copper | 34.0 | ug/L | 1 | | | Yes | S2BVE |
| Iron | 7800 | ug/L | 1 | | | Yes | S2BVE |
| Lead | 2.1 | ug/L | 1 | J | J | Yes | S2BVE |
| Magnesium | 5000 | ug/L | 1 | JE | UJ | Yes | S2BVE |
| Manganese | 562 | ug/L | 1 | E | J | Yes | S2BVE |
| Nickel | 1.2 | ug/L | 1 | J | J | Yes | S2BVE |
| Potassium | 5000 | ug/L | 1 | J | U | Yes | S2BVE |
| Selenium | 35.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Silver | 10.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Sodium | 5080 | ug/L | 1 | | J+ | Yes | S2BVE |
| Thallium | 25.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Vanadium | 50.0 | ug/L | 1 | J | U | Yes | S2BVE |
| Zinc | 60.0 | ug/L | 1 | J | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P13 | Method: | Hg | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-04 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 12:00:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.20 | ug/L | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P13 | Method: | ICP_AES | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-04 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 12:00:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 541 | ug/L | 1 | | | Yes | S2BVE |
| Antimony | 60.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Arsenic | 15.3 | ug/L | 1 | | | Yes | S2BVE |
| Barium | 1580 | ug/L | 1 | E | J | Yes | S2BVE |
| Beryllium | 5.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Cadmium | 0.40 | ug/L | 1 | J | J | Yes | S2BVE |
| Calcium | 103000 | ug/L | 1 | E | J | Yes | S2BVE |
| Chromium | 10.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Cobalt | 50.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Copper | 415 | ug/L | 1 | | | Yes | S2BVE |
| Iron | 5350 | ug/L | 1 | | | Yes | S2BVE |
| Lead | 51.3 | ug/L | 1 | | | Yes | S2BVE |
| Magnesium | 7650 | ug/L | 1 | E | J | Yes | S2BVE |
| Manganese | 624 | ug/L | 1 | E | J | Yes | S2BVE |
| Nickel | 2.3 | ug/L | 1 | J | J | Yes | S2BVE |
| Potassium | 5000 | ug/L | 1 | J | U | Yes | S2BVE |
| Selenium | 35.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Silver | 10.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Sodium | 22300 | ug/L | 1 | | J+ | Yes | S2BVE |
| Thallium | 25.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Vanadium | 50.0 | ug/L | 1 | J | U | Yes | S2BVE |
| Zinc | 60.0 | ug/L | 1 | J | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P13 | Method: | CN | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-04 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 12:00:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 10.0 | ug/L | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P14 | Method: | ICP_AES | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-05 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 13:15:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 78.4 | ug/L | 1 | J | J | Yes | S2BVE |
| Antimony | 60.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Arsenic | 6.0 | ug/L | 1 | J | J | Yes | S2BVE |
| Barium | 738 | ug/L | 1 | E | J | Yes | S2BVE |
| Beryllium | 5.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Cadmium | 0.33 | ug/L | 1 | J | J | Yes | S2BVE |
| Calcium | 96500 | ug/L | 1 | E | J | Yes | S2BVE |
| Chromium | 10.0 | ug/L | 1 | J | U | Yes | S2BVE |
| Cobalt | 50.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Copper | 614 | ug/L | 1 | | | Yes | S2BVE |
| Iron | 985 | ug/L | 1 | | | Yes | S2BVE |
| Lead | 60.8 | ug/L | 1 | | | Yes | S2BVE |
| Magnesium | 5650 | ug/L | 1 | E | J+ | Yes | S2BVE |
| Manganese | 167 | ug/L | 1 | E | J | Yes | S2BVE |
| Nickel | 3.4 | ug/L | 1 | J | J | Yes | S2BVE |
| Potassium | 5000 | ug/L | 1 | J | U | Yes | S2BVE |
| Selenium | 35.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Silver | 10.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Sodium | 8220 | ug/L | 1 | | J+ | Yes | S2BVE |
| Thallium | 25.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Vanadium | 50.0 | ug/L | 1 | J | U | Yes | S2BVE |
| Zinc | 60.0 | ug/L | 1 | J | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P14 | Method: | Hg | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-05 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 13:15:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.20 | ug/L | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P14 | Method: | CN | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-05 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 13:15:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 10.0 | ug/L | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P15 | Method: | ICP_AES | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-05D | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 13:15:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 46.4 | ug/L | 1 | J | J | Yes | S2BVE |
| Antimony | 60.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Arsenic | 5.3 | ug/L | 1 | J | J | Yes | S2BVE |
| Barium | 742 | ug/L | 1 | E | J | Yes | S2BVE |
| Beryllium | 5.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Cadmium | 0.31 | ug/L | 1 | J | J | Yes | S2BVE |
| Calcium | 96900 | ug/L | 1 | E | J | Yes | S2BVE |
| Chromium | 10.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Cobalt | 50.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Copper | 457 | ug/L | 1 | | | Yes | S2BVE |
| Iron | 880 | ug/L | 1 | | | Yes | S2BVE |
| Lead | 32.0 | ug/L | 1 | | | Yes | S2BVE |
| Magnesium | 5660 | ug/L | 1 | E | J+ | Yes | S2BVE |
| Manganese | 163 | ug/L | 1 | E | J | Yes | S2BVE |
| Nickel | 2.3 | ug/L | 1 | J | J | Yes | S2BVE |
| Potassium | 5000 | ug/L | 1 | J | U | Yes | S2BVE |
| Selenium | 35.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Silver | 10.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Sodium | 7490 | ug/L | 1 | | J+ | Yes | S2BVE |
| Thallium | 25.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Vanadium | 50.0 | ug/L | 1 | J | U | Yes | S2BVE |
| Zinc | 60.0 | ug/L | 1 | J | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P15 | Method: | Hg | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-05D | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 13:15:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.22 | ug/L | 1 | | | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P15 | Method: | CN | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-05D | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 13:15:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 10.0 | ug/L | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P16 | Method: | Hg | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-06 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 16:50:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Mercury | 0.20 | ug/L | 1 | U | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P16 | Method: | CN | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-06 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 16:50:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 10.0 | ug/L | 1 | U | UJ | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P16 | Method: | ICP_AES | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-06 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 16:50:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Aluminum | 69.4 | ug/L | 1 | J | J | Yes | S2BVE |
| Antimony | 60.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Arsenic | 6.4 | ug/L | 1 | J | J | Yes | S2BVE |
| Barium | 778 | ug/L | 1 | E | J | Yes | S2BVE |
| Beryllium | 5.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Cadmium | 0.16 | ug/L | 1 | J | J | Yes | S2BVE |
| Calcium | 104000 | ug/L | 1 | E | J | Yes | S2BVE |
| Chromium | 10.0 | ug/L | 1 | J | U | Yes | S2BVE |
| Cobalt | 50.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Copper | 210 | ug/L | 1 | | | Yes | S2BVE |
| Iron | 100 | ug/L | 1 | J | U | Yes | S2BVE |
| Lead | 3.2 | ug/L | 1 | J | J | Yes | S2BVE |
| Magnesium | 5000 | ug/L | 1 | JE | UJ | Yes | S2BVE |
| Manganese | 104 | ug/L | 1 | E | J | Yes | S2BVE |
| Nickel | 1.4 | ug/L | 1 | J | J | Yes | S2BVE |
| Potassium | 5000 | ug/L | 1 | J | U | Yes | S2BVE |
| Selenium | 35.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Silver | 1.1 | ug/L | 1 | J | J | Yes | S2BVE |
| Sodium | 5000 | ug/L | 1 | J | U | Yes | S2BVE |
| Thallium | 25.0 | ug/L | 1 | U | U | Yes | S2BVE |
| Vanadium | 50.0 | ug/L | 1 | J | U | Yes | S2BVE |
| Zinc | 60.0 | ug/L | 1 | J | U | Yes | S2BVE |

| | | | | | | | |
|------------------|--------|-----------|----------|--------------|----------|--------------|----------|
| Case No: | 41861 | Contract: | EPW09038 | SDG No: | ME3P10 | Lab Code: | CHEM |
| Sample Number: | ME3P17 | Method: | CN | Matrix: | Water | MA Number: | DEFAULT |
| Sample Location: | MW-07 | pH: | 2 | Sample Date: | 10112011 | Sample Time: | 18:45:00 |
| % Moisture : | | | | % Solids : | | | |

| Analyte Name | Result | Units | Dilution Factor | Lab Flag | Validation | Reportable | Validation Level |
|--------------|--------|-------|-----------------|----------|------------|------------|------------------|
| Cyanide | 10.0 | ug/L | 1 | U | UJ | Yes | S2BVE |