

171765



ATTACHMENT A

Laboratory Reduced Deliverables Reports (PDF Version)

Hampton-Clarke, Inc.

veritech laboratories



175 Route 46 West, Unit D
Fairfield, NJ 07004
(973) 244-9770
Federal ID: 222679402

0001

Format: NJDEP-R

Project: OBMUA Soil Cleanup

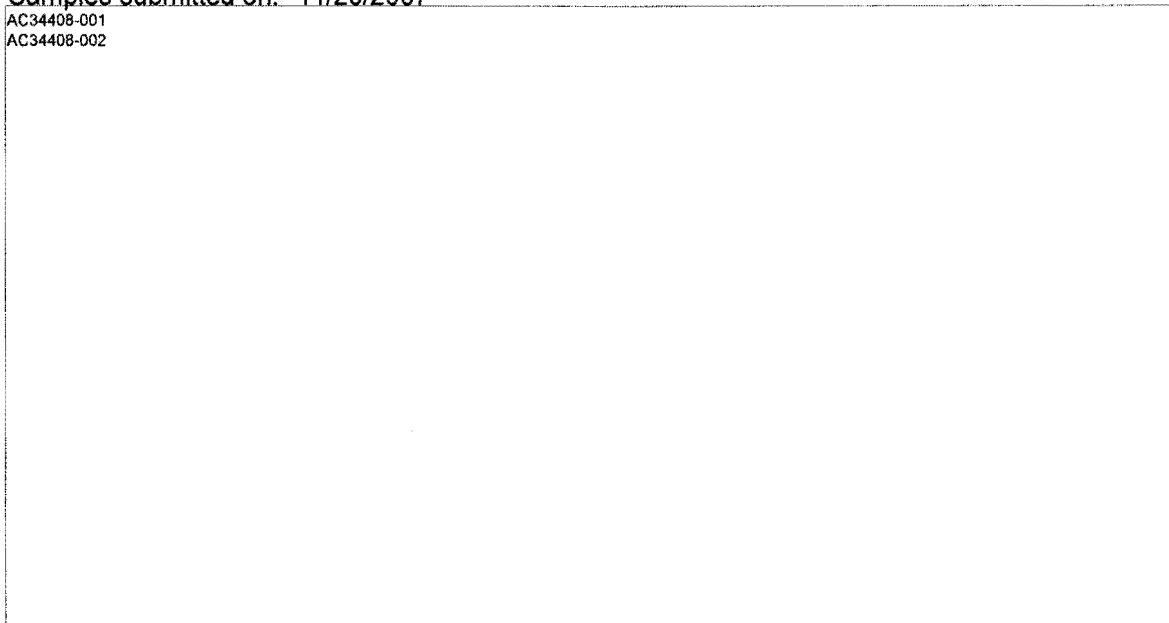
PO Number: IYR00139

Client: Icon Engineering
3759 US Highway 1 South
Suite 100
Monmouth Junction, NJ 08852

Attn: James Sousa

Samples submitted on: 11/20/2007

AC34408-001
AC34408-002



Date: 12/17/2007

HCI Project: 7112019

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.



Jeri Rossi - Quality Assurance Director

Or _____
Stanley Gilewicz - Laboratory Director

CT #: PH-0671 MA #: NJ386 NJ #: 14622 NY #: 11408 PA #: 68-463 WV #: 353 USACE

Veritech Sample Key

17-Dec-07

| Lab# | SampleID |
|-------------|----------|
| AC34408-001 | PE-3 |
| AC34408-002 | FB-1 |

3) Reporting Requirements (please circle)

| | | | | | | |
|--|---|---|--|---|--|---|
| Customer Information | | Project Information | | Turnaround Time | Report type | Electronic Deliv |
| 1a) Customer: <u>ECON Engineering</u> | Address: <u>3759 US HWY 1 South</u> <u>Monmouth Junction, NJ 08852</u> | 2a) Project: <u>ORMUA Soil Cleanup</u> | 2b) Project Manager: <u>Behram Turan</u> | 24-Hour(100%) 48-Hour(75%) 72-Hour(50%) 1-Week(25%) 10 Days(10%) <u>Standard</u> Other: | Data Sum Waste <u>Red-NJ/NY/PA</u> CLP Full/Cat-B Cat-A Other: | Hazsite/Csv Egis <u>Excel-NJCC</u> Excel-Nytagm Excel-PAActII <u>PDF</u> Other: |
| 1b) Email/Cell/Fax/Ph: <u>j.sousa@econ-engineering.com</u> | 1c) Send Invoice To: | 2c) Location (City/State): <u>Old Bridge, NJ</u> | | 2d) Quote#/PO# (If Applicable): <u>EYR00139</u> | | |
| 1d) Send Report To: <u>James Sousa</u> | | Expedited TAT Not always available (Please check with lab!) | | | | |

7) Analysis Request

| FOR LAB USE ONLY | Check if Contingent====> | | | | | | | | | | <====Check if Contingent | | | | | | | | | | |
|------------------|--------------------------|-----------|----------------|---------------|----------|------|---------|----------|-------------|---|--------------------------|--|--|--|--|--|--|--|-----------------|--|----------|
| | Matrix Codes: | | | Composite (C) | Grab (G) | Lead | Arsenic | Antimony | Chromium +6 | | | | | | | | | | 8) # Of Bottles | 9) Methanol Bottle Numbers (If applicable) | Comments |
| | DW-Drinking Water | S-Soil | A-Air | | | | | | | | | | | | | | | | | | |
| Batch# | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | Time | | | | | | | | | | | | | | | | | |
| AC34408 | | | | | | | | | | | | | | | | | | | | | |
| | Lab Sample# | | | | | | | | | | | | | | | | | | | | |
| | -001 | PE-3 | S | 11/19/07 | 11:15 | X | X | X | X | X | | | | | | | | | | | |
| | -002 | FB-1 | AQ | 11/20/07 | 13:50 | X | X | X | X | | | | | | | | | | | | 1 |

| | | | | |
|----------------------|--------------------|----------|------|--|
| 10) Relinquished By: | Accepted By | Date | Time | Comments, Notes, Special Requirements, HAZARDS |
| <i>[Signature]</i> | <i>[Signature]</i> | 11/20/07 | 1452 | |
| <i>[Signature]</i> | <i>[Signature]</i> | 11/20/07 | 1608 | |
| | | | | 11) Sampler: <u>JS/DA</u> |
| | | | | Date: <u>11/19/07</u> |
| | | | | Cooler Temp: <u>3.3°C</u> |

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis

CONDITION UPON RECEIPT

Batch Number AC34408

Entered By: Frantz

Date Entered 11/20/2007 4:15:00 PM

0004

-
- 1 Yes Is there a corresponding COC included with the samples?
 - 2 Yes Are the samples in a container such as a cooler or Ice chest?
 - 3 NO Are the COC seals intact?
 - 4 Yes Please specify the Temperature inside the container
3.3
 - 5 Yes Are the samples refrigerated (where required)/have they arrived on ice?
 - 6 Yes Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
 - 7 Yes Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
 - 8 Yes Are all of the sample labels or numbers legible? If no specify:
 - 9 Yes Do the contents match the COC? If no, specify
 - 10 Yes Is there enough sample sent for the analyses listed on the COC? If no, specify:
 - 11 Yes Are samples preserved correctly?
 - 12 Yes Are all soils preserved in methanol accompanied by dry soil?
 - 13 NA Other comments ...Specify
 - 14 NA Corrective actions (Specify item number and corrective action taken).

PRESERVATION DOCUMENT

Batch Number AC34408

Entered By: Frantz

Date Entered 11/20/2007 4:15:00 PM

| Lab#: | Container Siz | Container Typ | Paramete | Preservative | PH |
|-------------|---------------|---------------|----------|--------------|----|
| AC34408-001 | NA | NA | NA | NA | NA |
| AC34408-002 | 1L | P | METALS | HNO3 | 1 |

0005

Internal Chain of Custody

0000

| Lab#: | DateTime: | Loc or User | Bot Nu | A/ M | Analysis |
|-------------|----------------|-------------|--------|------|----------|
| AC34408-001 | 11/21/07 10:17 | SDL | 1 | A | MIXING |
| AC34408-001 | 11/21/07 14:43 | SRB | 1 | A | ICP |
| AC34408-001 | 11/21/07 15:32 | R12 | 1 | A | NONE |
| AC34408-001 | 11/26/07 07:54 | SDL | 1 | A | MIXING |
| AC34408-001 | 11/26/07 16:17 | R12 | 1 | A | NONE |
| AC34408-001 | 11/27/07 09:17 | SDL | 1 | A | MIXING |
| AC34408-001 | 11/27/07 09:34 | NW | 1 | A | %SOLIDS |
| AC34408-001 | 11/27/07 15:57 | R12 | 1 | A | NONE |
| AC34408-001 | 11/28/07 08:50 | JAD | 1 | A | CR6-SOIL |
| AC34408-001 | 11/28/07 16:08 | R12 | 1 | A | NONE |
| AC34408-002 | 11/21/07 13:57 | SRB | 1 | A | ICP |
| AC34408-002 | 11/21/07 14:03 | R12 | 1 | M | NONE |
| AC34408-002 | 11/21/07 10:20 | JAD | 2 | A | CR6 |
| AC34408-002 | 11/21/07 13:45 | R12 | 2 | A | NONE |

| Lab#: | DateTime: | Loc or User | Bot Nu | A/ M | Analysis |
|-------|-----------|-------------|--------|------|----------|
|-------|-----------|-------------|--------|------|----------|

Laboratory Chronicle

Project #: 7112019

0007

Lab#: AC34408-001 Sample ID: PE-3

TestGroupName % Solids SM2540G
Preparation Method: SM 2540G
Analytical Method: SM 2540G

| Analyte | Prep | | Analysis | |
|----------|----------|---------|----------|---------|
| | Date | By | Date | By |
| % Solids | 11/27/07 | natalie | 11/27/07 | natalie |

TestGroupName Cr (Hexavalent) 7196A
Preparation Method: 3060
Analytical Method: 7196A

| Analyte | Prep | | Analysis | |
|-----------------|----------|-----|----------|-----|
| | Date | By | Date | By |
| Cr (Hexavalent) | 11/28/07 | JAD | 11/29/07 | JAD |

TestGroupName Metals-Three 6010
Preparation Method: 3005&10/3050
Analytical Method: EPA 6010B

| Analyte | Prep | | Analysis | |
|----------|----------|-----|----------|----|
| | Date | By | Date | By |
| Antimony | 11/21/07 | srb | 11/26/07 | SB |
| Arsenic | 11/21/07 | srb | 11/26/07 | SB |
| Lead | 11/21/07 | srb | 11/26/07 | SB |

Lab#: AC34408-002 Sample ID: FB-1

TestGroupName Cr (Hexavalent) 3500-Cr D
Preparation Method: 3500-Cr D
Analytical Method: 3500-Cr D

| Analyte | Prep | | Analysis | |
|-----------------|----------|-----|----------|-----|
| | Date | By | Date | By |
| Cr (Hexavalent) | 11/21/07 | jad | 11/21/07 | jad |

TestGroupName Metals-Three 6010
Preparation Method: 3005&10/3050
Analytical Method: EPA 6010B

| Analyte | Prep | | Analysis | |
|----------|----------|-----|----------|----|
| | Date | By | Date | By |
| Antimony | 11/21/07 | srb | 11/26/07 | SB |
| Arsenic | 11/21/07 | srb | 11/26/07 | SB |
| Lead | 11/21/07 | srb | 11/26/07 | SB |

METALS ANALYSIS NONCONFORMANCE SUMMARY

| | NO | YES |
|---|-------------------------------------|-------------------------------------|
| 1. Calibration summary meets criteria | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. ICP Interference Check Samples Results Summary Submitted, Meet Criteria (exclude Mercury) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Serial Dilution Summary Submitted, Meet Criteria (exclude Mercury) <u>Cu and Zn failed.</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 4. Laboratory Control Sample Summary Submitted (if applicable) Meets Criteria | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Blank Contamination above RL - If Yes, list elements for each blank: _____ _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 6. Matrix Spike / Matrix Spike Duplicate Recoveries Meet Criteria (if not, list those elements which fall outside the acceptable range. The batch passed due to the LCS and LCS MR recoveries.) <u>Pb failed.</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 7. Sample duplicate RPDs Meet Criteria (if not, list those elements which fall outside the acceptable range. The batch passed due to the LCS and LCS MR recoveries.) <u>Ba failed.</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 8. Extraction Holding Time Met (if not, list number of days exceeded for each sample) | <input type="checkbox"/> | <input type="checkbox" value="NA"/> |
| 9. Analysis Holding Time Met (if not, list number of days exceeded for each sample) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Additional Comments:

Metals Supervisor: *Paul Miller* Date: *11/29/07*

Batch: 8546 PeICP1 and HgCv1

WET CHEMISTRY CONFORMANCE/ NONCONFORMANCE SUMMARY

VERITECH

NO YES

1. Blank Contamination? If yes, list the sample and the corresponding concentrations in each blank

2. Batch QC meets criteria? If not, list the Analysis with the batch number and corresponding recovery which falls outside the acceptable range.

3. IR Spectra submitted for all standards, blanks and sample?

4. Extraction Holding Time Met? If not, list number of days exceeded for each sample.

5. Analysis Holding Time Met? If not, list number of days exceeded for each sample.

Additional Comments:

Wet Chemistry Supervisor: *[Signature]*

Date: 12/14/07

Project Number: 7112019

METHOD REFERENCES

| PARAMETER | METHOD | TECHNIQUE | PARAMETER | METHOD | TECHNIQUE |
|---------------------------------------|--------------------------|----------------------------------|---|---------------|---|
| DRINKING WATER PARAMETERS | | | SOLID HAZARDOUS WASTE PARAMETERS | | |
| Total coliform | SM 9221D + E | Presence/Absence | Specific Cond. | SW-846 9050A | Wheatstone Bridge |
| Total coli/E. coli | SM 9222 B/G | Membran Filtration/Enumeration | Phenols | SW-846 9065 | Colorimetric |
| Cyanide | SM 4500-CN-E | DistSpectrophotometric (man.) | Cyanide | SW-846 9014 | Titrimetric/Spectrophotometric |
| Cyanide | EPA 335.4 | Dist/Spectrophotometric (auto) | Chromium VI | SW-846 7196A | Colorimetric |
| VOA | EPA 524.2 | GC/MS | Metals | SW-846 6010B | ICP |
| Metals | EPA 200.8 | ICP/MS | Mercury (liquid) | SW-846 7470A | Manual Cold Vapor |
| Turbidity | EPA 180.1 | Nephelometric | Mercury (solid) | SW-846 7471A | Manual Cold Vapor |
| WATER POLLUTION PARAMETERS | | | EDB/DBCP | SW-846 8011 | Microextraction, GC, ECD |
| Fecal Coliform | SM 9222 D | Membrane Filtration | Alcohols/Glycols | SW-846 8015B | GC |
| Total Coliform | SM 9222 B | Membrane Filtration | Petroleum Organics | OQA QAM 25 | Extraction, GC, FID |
| Heterotrophic PC | SM 9215 B | Pour Plate | DRO | SW-846 8015B | Extraction, GC, FID |
| Acidity | SM 2310 B (4a) | Electrometric | GRO | SW8468015B m | GC/MS, Purge & Trap |
| Alkalinity | SM 2320 B | Electrometric | PCBs | SW-846 8082 | GC, Extraction, ECD |
| Ammonia | SM4500NH3B-18 | Distillation (prep) | Pesticides | SW-846 8081A | GC, Extraction, ECD |
| Ammonia | SM4500NH3C-18 | Nesslerization (analysis) | Herbicides | SW-846 8151A | GC, Extraction, ECD |
| BOD | SM 5210 B | DO Depletion | VOA | SW-846 8260B | GC/MS |
| Bromide | EPA 300.0 | Ion Chromatography | Semi-VOA | SW-846 8270C | Extraction, GC/MS |
| Calcium | EPA 200.7 | Digestion, ICP | Cyanide (T) | SW-846 9012A | Colorimetric (auto) |
| CBOD | SM 5210 B | DO Depletion, N Inhib. | Cyanide (T) | SW-846 9010C | Distillation |
| COD | HACH 8000 | Spectrophotometric, manual | Cyanide (Am) | SW-846 9010C | Distillation |
| Chloride | EPA 300.0 | Ion Chromatography | Sulfides | SW-846 9030B | Redox Titration |
| Cyanide (T) | EPA 335.4 | Dist/Spectrophotometric (auto) | Sulfides | SW-846 9034 | Titration |
| Cyanide (T) | SM4500-CN C/E | DistSpectrophotometric (man.) | Sulfate | SW-846 9056 | Ion Chromatography |
| Cyanide (Am) | SM4500-CN C/G | Distillation, Spectrophotometric | pH | SW-846 9040B | Elect, waste, >20% water |
| Cyanide (Am) | EPA 1677 | Flow Injection/Ligand Exchange | TOC | SW-846 9060 | Infrared Spectrometry |
| Fluoride | EPA 300.0 | Ion Chromatography | Oil & Grease hem | SW-846 1664A | Extraction and Gravimetric |
| Hardness | EPA 200.7 | Ca + Mg Carbonates, ICP | Nitrite | SW-846 9056 | Ion Chromatography |
| Hex Chrom | SM 3500-Cr D | Spectrophotometric | Nitrate | SW-846 9056 | Ion Chromatography |
| Magnesium | EPA 200.7 | Digestion, ICP | Bromide | SW-846 9056 | Ion Chromatography |
| Metals | EPA 200.7 | Digestion, ICP | Chloride | SW-846 9056 | Ion Chromatography |
| Mercury | EPA 245.1 | Manual, Cold Vapor | Fluoride | SW-846 9056 | Ion Chromatography |
| Metals | EPA 200.8 | ICP/MS | Ortho Phosphate | SW-846 9056 | Ion Chromatography |
| Nitrate | EPA 300.0 | Ion Chromatography | SOLID HAZARDOUS WASTE PREP | | |
| Nitrite | EPA 300.0 | Ion Chromatography | Metals, Total& Diss | SW-846 3005A | Acid Dig/Surface&GW,ICP |
| Oil & Grease | EPA 413.1 | Gravimetric | Metals, Total | SW-846 3010A | Acid Dig/Aq Samples, ICP |
| O & G HEM | EPA 1664A | GraV, Hexane Extractable | Metals | SW-846 3050B | Acid Dig, Soil Sediment, Sludge |
| Oil & Grease SGT | EPA 1664A | Grav, Silica Gel Treated, HEM | Metals | SW-846 3060A | Chromium VI Digestion |
| TPH | EPA 418.1 | Spectrophotometric, Infrared | Semi-VO | SW-846 3510C | Separatory Funnel Extraction |
| TOC | SM 5310 B | Combustion | Semi-VO | SW-846 3550B | Ultrasonic Extraction |
| Ortho Phosphate | EPA 300.0 | Ion Chromatography | Semi-VO | SW-846 3520C | Liquid-Liquid Extraction |
| Phenols | EPA 420.1 | Distillation, Colorimetric | Semi-VO | SW-846 3545 | Pressurized Fluid Extraction |
| Total Phosphorus | SM 4500-P B5+E | Persulfate Digestion | VO | SW-846 5030B | Purge & Trap Aqueous |
| Potassium | EPA 200.7 | Digestion, ICP | Organics | SW-846 3580A | Waste Dilution |
| Total Residue | SM 2540 B | Gravimetric, 103-105° C | Organics | SW-846 3585 | Waste Dilution, Volatile Organics |
| TDS | SM 2540 C | Gravimetric, 180° C | VO-low/high conc. | SW-84650351/h | Closed System Purge & Trap |
| TSS | SM 2540 D | Gravimetric, 103-105° C | Semi-VO | SW-846 3611B | Petroleum Waste, Cleanup Alumina |
| Settleable Solids | SM 2540 F | Volumetric, Imhoff Cone | Semi-VO | SW-846 3620B | Cleanup-Florisil |
| Volatile Solids | EPA 160.4 | Gravimetric, 550° C | Semi-VO | SW-846 3640A | Cleanup-Gel Permeation |
| Total,Fix,Vol Sol. | SM 2540 G | Gravimetric, 550° C | Semi-VO | SW-846 3650B | Cleanup-Acid/Base Partition |
| Salinity | SM 2520 B | Electrical Conductivity | Semi-VO | SW-846 3660B | Cleanup-Sulfur Removal |
| Sodium | EPA 200.7 | Digestion, ICP | Semi-VO | SW-846 3665A | Cleanup-Sulfuric Acid/KmnO ₄ |
| Specific Cond. | SM 2510 B | Wheatstone Bridge | CHARACTERISTICS OF HAZARDOUS WASTE | | |
| Sulfate | EPA 300.0 | Ion Chromatography | Ignitability | SW-846 1010 | Pensky Martens |
| Sulfides | SM 4500-S ² F | Titrimetric, Iodine | Corrosivity | SW-846 9040B | Aqueous Waste, Potentiometric |
| Turbidity | SM 2130 B | Nephelometric | Volatile Organics | SW-846 1311 | TCLP, Toxicity Procedure, ZHE |
| Pesticides | EPA 608 | Extraction/GC (ECD) | Metals-Semi VOA | SW-846 1311 | TCLP, Toxicity Procedure, Shaker |
| Herbicides | EPA 608 | Extraction/GC (ECD) | Metals-Organics | SW-846 1310A | EP Toxicity Test |
| Petroleum Org. | OQ QAM 5rev. 6 | Extraction, GC, FID | Metals-Organics | SW-846 1312 | Synthetic PPT Leachate Procedure |
| VOA | EPA 624 | GC/MS | Metals-Organics | SW-846 1320 | Multiple Extraction |
| Semi-VOA | EPA 625 | Extract, GC/MS | SOLID AND CHEMICAL MATERIALS | | |
| | | | Ignitability of Solids | SW-846 1030 | Burn Rate |
| | | | Reactivity | SW-846 7.3 | HCN, HS Release |
| ANALYZE IMMEDIATELY PARAMETERS | | | Cyanide | SW-846 9013 | Extraction, Oils and Solids |
| D.O. | SM 4500-O G | Electrode | EOX | SW-846 9023 | Extraction |
| pH | SM 4500-H ⁺ B | Electrometric | Sulfides-extractable | SW-846 9031 | Water extraction, Distillation |
| Temperature | SM 2550 B | Thermometric | O & G Sludge HEM | SW-846 9071 | Extraction and Gravimetric |
| pH | SW-846 9040B | Aqueous, Electrometric | Free Liquid | SW-846 9095 | Flow-through Paint Filtration (obs) |

Veritech Report Of Analysis

0011

| Lab#: AC34408-001 | Collection Date: 11/19/2007 | | | |
|--------------------------|------------------------------------|-------|----|--------|
| Sample ID: PE-3 | | | | |
| TestGroup/Analyte | DF | Units | RL | Result |

% Solids SM2540G

| | | | | |
|----------|---|---------|--|----|
| % Solids | 1 | percent | | 80 |
|----------|---|---------|--|----|

Cr (Hexavalent) 7196A

| | | | | |
|-----------------|---|-------|-----|----|
| Cr (Hexavalent) | 1 | mg/kg | 1.2 | ND |
|-----------------|---|-------|-----|----|

Metals-Three 6010

| | | | | |
|----------|-----|-------|-----|-----|
| Antimony | 100 | mg/kg | 2.5 | 3.6 |
| Arsenic | 100 | mg/kg | 2.5 | 8.1 |
| Lead | 100 | mg/kg | 6.2 | 400 |

| Lab#: AC34408-002 | Collection Date: 11/20/2007 | | | |
|--------------------------|------------------------------------|-------|----|--------|
| Sample ID: FB-1 | | | | |
| TestGroup/Analyte | DF | Units | RL | Result |

Cr (Hexavalent) 3500-Cr D

| | | | | |
|-----------------|---|------|-------|----|
| Cr (Hexavalent) | 1 | mg/l | 0.025 | ND |
|-----------------|---|------|-------|----|

Metals-Three 6010

| | | | | |
|----------|---|------|----|----|
| Antimony | 1 | ug/l | 20 | ND |
| Arsenic | 1 | ug/l | 20 | ND |
| Lead | 1 | ug/l | 50 | ND |

Form1 Inorganic Analysis Data Sheet

| | | | |
|------------------------|----------------------|--------------------|----------|
| Sample ID: AC34408-001 | % Solid: 80 | Lab Name: Veritech | Nras No: |
| Client Id: PE-3 | Units: MG/KG | Lab Code: | Sdg No: |
| Matrix: SOIL | Date Rec: 11/20/2007 | Contract: | Case No: |
| Level: LOW | | | |

| Cas No. | Analyte | RL | Conc | Dil Fact | Analysis Date: | Prep Batch | File: | Seq Num: | M | Instr |
|-----------|----------|-----|------|----------|----------------|------------|--------|----------|---|--------|
| 7440-36-0 | Antimony | 2.5 | 3.6 | 100 | 11/26/07 | 8546 | S8546A | 34 | P | PEICP1 |
| 7440-38-2 | Arsenic | 2.5 | 8.1 | 100 | 11/26/07 | 8546 | S8546A | 34 | P | PEICP1 |
| 7439-92-1 | Lead | 6.2 | 400 | 100 | 11/26/07 | 8546 | S8546A | 34 | P | PEICP1 |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

Form1 Inorganic Analysis Data Sheet

Sample ID: AC34408-002
 Client Id: FB-1
 Matrix: AQUEOUS
 Level: LOW

% Solid: 0
 Units: UG/L
 Date Rec: 11/20/2007

Lab Name: Veritech
 Lab Code:
 Contract:

Nras No:
 Sdg No:
 Case No:

| Cas No. | Analyte | RL | Conc | Dil Fact | Analysis Date: | Prep Batch | File: | Seq Num: | M | Instr |
|-----------|----------|----|------|----------|----------------|------------|--------|----------|---|--------|
| 7440-36-0 | Antimony | 20 | ND | 1 | 11/26/07 | 8546 | S8546A | 35 | P | PEICP1 |
| 7440-38-2 | Arsenic | 20 | ND | 1 | 11/26/07 | 8546 | S8546A | 35 | P | PEICP1 |
| 7439-92-1 | Lead | 50 | ND | 1 | 11/26/07 | 8546 | S8546A | 35 | P | PEICP1 |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

VERITECH Wet Chem Form1 Analysis Summary

| | |
|-----------------------|---------------------------|
| Lab#: AC34408-001 | Project Number: 7112019 |
| Matrix Soil | Received Date: 11/20/2007 |
| Client SampleID: PE-3 | Collect Date: 11/19/2007 |

| Analysis | TestGroup | Dilution: | Result | Units: | PQL: | Prep Date: | Analysis Date: |
|-----------------|-----------|-----------|--------|--------|------|------------|----------------|
| Cr (Hexavalent) | CR6-SOIL | 1 | ND | mg/kg | 1.2 | 11/28/07 | 11/29/07 |

| | |
|-----------------------|---------------------------|
| Lab#: AC34408-002 | Project Number: 7112019 |
| Matrix Aqueous | Received Date: 11/20/2007 |
| Client SampleID: FB-1 | Collect Date: 11/20/2007 |

| Analysis | TestGroup | Dilution: | Result | Units: | PQL: | Prep Date: | Analysis Date: |
|-----------------|-----------|-----------|--------|--------|-------|------------|----------------|
| Cr (Hexavalent) | CR6-WATER | 1 | ND | mg/l | 0.025 | 11/21/07 | 11/21/07 |

VERITECH Wet Chem Form1 Analysis Summary
% Solids

0015

TestGroupName: % Solids SM2540G
TestGroup: %SOLIDS

Project #:7112019

| Lab# | Client SampleID | Matrix | Dilution: | Result | Units: | PQL | Prep Date | Analysis Date | Received Date | Collect Date |
|-------------|-----------------|--------|-----------|--------|---------|-----|-----------|---------------|---------------|--------------|
| AC34408-001 | PE-3 | Soil | 1 | 80 | Percent | | | 11/27/07 | 11/20/07 | 11/19/07 |

FORM 2 (ICV/CCV Summary)

Date Analyzed: 11/26/07
 Data File: S8546A
 Prep Batch: 8546
 Analytical Method: SW846
 Instrument: PEICP1
 Units: All units in ppm except Hg in ppb
 Project Number: 7112019

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:
 ICV/CCV SOURCE: VHG LABS

| Analyte | Spk Amt | ICV V-34010 (2)-6 | | CCV V-34011-18 | | CCV V-34011-29 | | CCV V-34011-40 | | Rec | Rec | Rec | Rec | Rec | Rec |
|-----------|---------|-------------------|-----|----------------|-----|----------------|-----|----------------|-----|-----|-----|-----|-----|-----|-----|
| | | Rec | Rec | Rec | Rec | Rec | Rec | | | | | | | | |
| Antimony | .5 | 1.00772 | 101 | 0.507892 | 102 | 0.504657 | 101 | 0.492949 | 99 | | | | | | |
| Arsenic | .5 | 1.00724 | 101 | 0.498993 | 100 | 0.500880 | 100 | 0.482481 | 96 | | | | | | |
| Barium | .5 | 0.998116 | 100 | 0.509712 | 102 | 0.499702 | 100 | 0.499482 | 100 | | | | | | |
| Beryllium | .5 | 0.994597 | 99 | 0.510099 | 102 | 0.505517 | 101 | 0.506745 | 101 | | | | | | |
| Cadmium | .5 | 0.998865 | 100 | 0.500275 | 100 | 0.484896 | 97 | 0.479725 | 96 | | | | | | |
| Chromium | .5 | 1.01679 | 102 | 0.501652 | 100 | 0.497046 | 99 | 0.487470 | 97 | | | | | | |
| Copper | .5 | 1.00122 | 100 | 0.511218 | 102 | 0.501314 | 100 | 0.504466 | 101 | | | | | | |
| Lead | .5 | 1.00837 | 101 | 0.507125 | 101 | 0.495981 | 99 | 0.486883 | 97 | | | | | | |
| Nickel | .5 | 1.00025 | 100 | 0.505334 | 101 | 0.503836 | 101 | 0.495685 | 99 | | | | | | |
| Selenium | .5 | 1.00754 | 101 | 0.503410 | 101 | 0.505522 | 101 | 0.497389 | 99 | | | | | | |
| Silver | .1 | 0.200944 | 100 | 0.100094 | 100 | 0.099206 | 99 | 0.098634 | 99 | | | | | | |
| Thallium | .5 | 1.01203 | 101 | 0.519548 | 104 | 0.518699 | 104 | 0.513312 | 103 | | | | | | |
| Zinc | .5 | 0.996135 | 100 | 0.513730 | 103 | 0.514242 | 103 | 0.510276 | 102 | | | | | | |

Notes: a-indicates analyte failed the ICV limits for EPA SW846
 b-indicates analyte failed the ICV limits for EPA 600
 c-indicates analyte failed the CCV limits for EPA600/SW846 (Except HG SW846)
 d-indicates analyte failed the CCV limits for SW846 (HG SW846)
 ICV- Concentration is 2x the CCV concentration except CLP (1.5x).

Qc Limits: ICV - EPA600 : 95-105
 CCV- EPA600/SW846 : 90-110 (Except Hg SW846=80-120)
 ICV - SW846 : 90-110
 CLP ICP ICV/CCV: 90-110
 CLP Hg ICV/CCV: 80-120

FORM 3 (ICB/CCB/MB Summary)

Date Analyzed: 11/26/07
 Data File: S8546A
 Prep Batch: 8546
 Reporting Limits Used: SOIL,SW846
 Instrument: PEICP1
 Units: All units in ppm except Hg in ppb
 Project Number: 7112019

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:

| Analyte | ICB V-34710-7 | CCB-19 | CCB-30 | CCB-41 | MB 8546 (100)- 10 | MB FB (1)-36 | | |
|-----------|---------------|--------|--------|--------|----------------------|--------------|--|--|
| Antimony | .02 U | .02 U | .02 U | .02 U | 2 U | .02 U | | |
| Arsenic | .02 U | .02 U | .02 U | .02 U | 2 U | .02 U | | |
| Barium | .1 U | .1 U | .1 U | .1 U | 10 U | .1 U | | |
| Beryllium | .006 U | .006 U | .006 U | .006 U | .6 U | .006 U | | |
| Cadmium | .006 U | .006 U | .006 U | .006 U | .6 U | .006 U | | |
| Chromium | .05 U | .05 U | .05 U | .05 U | 5 U | .05 U | | |
| Copper | .05 U | .05 U | .05 U | .05 U | 5 U | .05 U | | |
| Lead | .05 U | .05 U | .05 U | .05 U | 5 U | .05 U | | |
| Nickel | .05 U | .05 U | .05 U | .05 U | 5 U | .05 U | | |
| Selenium | .018 U | .018 U | .018 U | .018 U | 1.8 U | .018 U | | |
| Silver | .015 U | .015 U | .015 U | .015 U | 1.5 U | .015 U | | |
| Thallium | .012 U | .012 U | .012 U | .012 U | 1.2 U | .012 U | | |
| Zinc | .1 U | .1 U | .1 U | .1 U | 10 U | .1 U | | |

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
 u-indicates result below reporting limit

FORM 4 (ICSA/ICSAB Summary)

Date Analyzed: 11/26/07
 Data File: S8546A
 Prep Batch: 8546
 Reporting Limits Used: SOIL, SW846
 Instrument: PEICP1
 Units: ppm
 Project Number: 7112019

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:
 ICSA/ICSAB: SOURCE: VHG LABS

| Analyte | Spk Amt | ICSA V-34012-8 | | ICSAB V-34103-9 | | ICSA V-34012-27 | | ICSAB V-34103-28 | | ICSA V-34012-38 | | ICSAB V-34103-39 | | Rec | Rec |
|-----------|---------|----------------|-----|-----------------|-----|-----------------|-----|------------------|-----|-----------------|-----|------------------|-----|-----|-----|
| | | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec | | | | |
| Aluminum | 500 | 500.684 | 100 | 502.04600 | 100 | 487.237 | 97 | 498.48100 | 100 | 482.828 | 97 | 490.20700 | 98 | | |
| Antimony | 1 | U | | 1.00555 | 101 | U | | 1.00925 | 101 | U | | 0.97164 | 97 | | |
| Arsenic | 1 | U | | 1.00840 | 101 | U | | 0.98980 | 99 | U | | 0.98768 | 99 | | |
| Barium | .5 | U | | 0.47116 | 94 | U | | 0.47610 | 95 | U | | 0.47075 | 94 | | |
| Beryllium | .5 | U | | 0.49545 | 99 | U | | 0.50378 | 101 | U | | 0.50161 | 100 | | |
| Cadmium | 1 | U | | 0.91329 | 91 | U | | 0.89598 | 90 | U | | 0.87969 | 88 | | |
| Calcium | 500 | 465.63 | 93 | 467.28400 | 93 | 466.049 | 93 | 476.84600 | 95 | 467.388 | 93 | 474.35300 | 95 | | |
| Chromium | .5 | U | | 0.50670 | 101 | U | | 0.50691 | 101 | U | | 0.50009 | 100 | | |
| Copper | .5 | U | | 0.50725 | 101 | U | | 0.51660 | 103 | U | | 0.51714 | 103 | | |
| Iron | 200 | 184.654 | 92 | 183.85000 | 92 | 177.054 | 89 | 181.99000 | 91 | 176.85 | 88 | 179.25200 | 90 | | |
| Lead | 1 | U | | 0.94874 | 95 | U | | 0.93252 | 93 | U | | 0.90727 | 91 | | |
| Magnesium | 500 | 511.661 | 102 | 510.15100 | 102 | 507.639 | 102 | 524.38700 | 105 | 515.509 | 103 | 524.10300 | 105 | | |
| Nickel | 1 | U | | 0.91391 | 91 | U | | 0.91386 | 91 | U | | 0.90639 | 91 | | |
| Selenium | 1 | U | | 0.95049 | 95 | U | | 0.93893 | 94 | U | | 0.94242 | 94 | | |
| Silver | 1 | U | | 1.03364 | 103 | U | | 1.04093 | 104 | U | | 1.03343 | 103 | | |
| Thallium | 1 | U | | 0.94063 | 94 | U | | 0.92650 | 93 | U | | 0.94090 | 94 | | |
| Zinc | 1 | U | | 0.87953 | 88 | U | | 0.90184 | 90 | U | | 0.89974 | 90 | | |

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
 b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
 c-indicates the recovery failed the Qc Criteria in the ICSAB
 u-indicates the absolute value of the concentration was below the reporting limit

FORM 5/FORM 7 SPIKE/LCS RECOVERY

Date Analyzed: 11/26/07
 Data File: S8546A
 Prep Batch: 8546
 Analytical Method: SW846
 Instrument: PEICP1
 Units: All units in ppm except Hg in ppb
 Project Number: 7112019
 MATRIX SPIKE SOURCE: VHG LABS

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:
 Matrix: SOIL
 Level: Low

| Analyte | Spike Amts | | LCS Soil/Aqueous Rec Limits | Non Spike Conc AC34395- 001-13 | | %REC OR Conc | AC34395- 001-15-1X | %REC OR Conc | LCS 100- 11-1X | %REC OR Conc | LCS 100 MR-12-1X | %REC OR Conc | LCSW-37- 1X | %REC OR Conc | |
|-----------|-----------------------------|-------------------|-----------------------------------|---|---|--------------------|-----------------------|--------------------|-------------------|--------------------|---------------------|--------------------|----------------|--------------------|-----|
| | MS-Tclp MS-Aq MS-soil | LCS Soil Aq | | | | | | | | | | | | | |
| Antimony | .5000 | 0.500 | 75 - 125 | 0.02 | U | 0.402213 | 80 | 0.384816 | 77 | 1.90034 | 1.9 | 1.90077 | 1.9 | 0.474806 | 95 |
| Arsenic | .5000 | 0.500 | 75 - 125 | 0.0282392 | | 0.501119 | 95 | 0.489565 | 92 | 2.90033 | 2.9 | 2.82784 | 2.83 | 0.474014 | 95 |
| Barium | 0.500 | 0.500 | 75 - 125 | 0.429507 | | 0.947814 | 104 | 0.976786 | 109 | 5.38441 | 5.38 | 5.3238 | 5.32 | 0.504116 | 101 |
| Beryllium | .5000 | 0.500 | 75 - 125 | 0.006 | U | 0.4941 | 99 | 0.480803 | 96 | 0.526881 | .527 | 0.522593 | .523 | 0.483646 | 97 |
| Cadmium | .5000 | 0.500 | 75 - 125 | 0.006 | U | 0.473288 | 95 | 0.464873 | 93 | 1.89764 | 1.9 | 1.88271 | 1.88 | 0.472653 | 95 |
| Chromium | .5000 | 0.500 | 75 - 125 | 0.134777 | | 0.654335 | 104 | 0.631649 | 99 | 1.61478 | 1.61 | 1.56715 | 1.57 | 0.488307 | 98 |
| Copper | .5000 | 0.500 | 75 - 125 | 0.302939 | | 0.76816 | 93 | 0.793014 | 98 | 1.38404 | 1.38 | 1.3584 | 1.36 | 0.520435 | 104 |
| Lead | 0.500 | 0.500 | 75 - 125 | 0.837655 | | 1.20155 | 73 a | 1.36034 | 105 | 0.777969 | .778 | 0.756671 | .757 | 0.488191 | 98 |
| Nickel | .5000 | 0.500 | 75 - 125 | 0.180383 | | 0.639559 | 92 | 0.642296 | 92 | 1.63926 | 1.64 | 1.64021 | 1.64 | 0.490104 | 98 |
| Selenium | .5000 | 0.500 | 75 - 125 | 0.018 | U | 0.471138 | 94 | 0.464003 | 93 | 1.64493 | 1.64 | 1.63904 | 1.64 | 0.469861 | 94 |
| Silver | 0.100 | 0.100 | 75 - 125 | 0.015 | U | 0.101268 | 101 | 0.0985828 | 99 | 1.34797 | 1.35 | 1.31822 | 1.32 | 0.097676 | 98 |
| Thallium | .5000 | 0.500 | 75 - 125 | 0.012 | U | 0.5014 | 100 | 0.49262 | 99 | 2.0181 | 2.02 | 2.05517 | 2.06 | 0.526749 | 105 |
| Zinc | .5000 | 0.500 | 75 - 125 | 0.551327 | | 1.00812 | 91 | 1.01139 | 92 | 3.67296 | 3.67 | 3.65896 | 3.66 | 0.511127 | 102 |

MS Qc Limits:

| EPA600: | SW846 | CLP |
|------------|---|-----------|
| MS: 70-130 | MS TCLP: >50% MS soil/aqueous:75-125 | MS:75-125 |

Flags:

- U: Conc < Reporting Limit
- a: Recovery Failed Specified Limit
- b: Recovery Failed Specified Limit but Non Spike concentration > 4* spike amount

Note: All Elements analyzed by ICP(P) except Mercury(CV)

FORM6/FORM9 RPDS

Date Analyzed: 11/26/07
 Data File: S8546A
 Prep Batch: 8546
 Analytical Method: SW846
 Instrument: PEICP1
 Units: All units in ppm except Hg in ppb
 Project Number: 7112019

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:

| Analyte | Qc Limits | | Sample | | | LCS | | | LCS MR | | | Sample | | Serial Dil | | %Diff |
|-----------|-----------|------|----------------|----------------|-------|------------|---------------|-----|----------------|----------------|--|--------|--------|------------|--|-------|
| | LCS/MR | SD | AC34395-001-13 | AC34395-001-14 | RPD | LCS 100-11 | LCS 100 MR-12 | RPD | AC34395-002-20 | AC34395-002-21 | | | | | | |
| | | | | | | | | | | | | | | | | |
| Antimony | <=20 | <=10 | 0.02 U | 0.02 U | --- | | | | 0.00357 U | 0.0225385 | | | --- | | | |
| Arsenic | <=20 | <=10 | 0.0282392 | 0.0247179 | 13 | | | | 0.0063592 | 0.0143 U | | | --- | | | |
| Barium | <=20 | <=10 | 0.429507 | 0.566116 | 27 Na | 5.38441 | 5.32380 | 1.1 | 0.123859 | 0.122602 | | | 1 | | | |
| Beryllium | <=20 | <=10 | 0.006 U | 0.006 U | --- | | | | 0.0016539 | 0.0014165 | | | 14 Sb | | | |
| Cadmium | <=20 | <=10 | 0.006 U | 0.006 U | --- | | | | 0.000114 U | 0.00057 U | | | --- | | | |
| Chromium | <=20 | <=10 | 0.134777 | 0.139153 | 3.2 | | | | 0.0876890 | 0.0964245 | | | 10 | | | |
| Copper | <=20 | <=10 | 0.302939 | 0.309457 | 2.1 | | | | 0.0995379 | 0.1174995 | | | 18 Sa | | | |
| Lead | <=20 | <=10 | 0.837655 | 0.877526 | 4.6 | | | | 0.148682 | 0.1542765 | | | 3.8 | | | |
| Nickel | <=20 | <=10 | 0.180383 | 0.167970 | 7.1 | | | | 0.252151 | 0.2517125 | | | 0.17 | | | |
| Selenium | <=20 | <=10 | 0.018 U | 0.018 U | --- | | | | 0.0083119 | 0.017436 | | | 110 Sb | | | |
| Silver | <=20 | <=10 | 0.015 U | 0.015 U | --- | | | | 0.000608 U | 0.00304 U | | | --- | | | |
| Thallium | <=20 | <=10 | 0.012 U | 0.012 U | --- | | | | 0.00175 U | 0.00875 U | | | --- | | | |
| Zinc | <=20 | <=10 | 0.551327 | 0.553220 | 0.34 | | | | 0.130415 | 0.167372 | | | 28 Sa | | | |

Flags:

Na: Method Rep outside of Qc Limits
 Nb: Method Rep out but concentrations < 5* Reporting Limits
 U: Conc < Reporting Limit (Method Rep) or < IDL (serial Dilution)
 Lm: Lcs Rpd Out

Sa: Serial Dilution outside of qc limits
 Sb: Serial dilution out but concentration < 10 * IDL
 E: Serial Dilution outside of qc limits CLP

MDL / RL SUMMARY
SOIL SW846
PE ICP 1

| ELEMENT | MDL | Reporting Limits (Mg/Kg) |
|---------|-----------|-----------------------------|
| Al | 0.054 | 200 |
| Sb | 0.00557 | 2 |
| As | 0.00238 | 2 |
| Ba | 0.000255 | 10 |
| Be | 0.0000856 | 0.6 |
| Cd | 0.000186 | 0.6 |
| Ca | 0.0266 | 1000 |
| Cr | 0.00347 | 5 |
| Co | 0.000404 | 2.5 |
| Cu | 0.00313 | 5 |
| Fe | 0.138 | 200 |
| Pb | 0.00505 | 5 |
| Mg | 0.0414 | 500 |
| Mn | 0.012 | 10 |
| Mo | 0.000598 | 2.5 |
| Ni | 0.00154 | 5 |
| Se | 0.00484 | 1.8 |
| Ag | 0.000591 | 1.5 |
| Tl | 0.00459 | 1.2 |
| Sn | 0.00974 | 5.7 |
| Ti | 0.000314 | 35 |
| V | 0.000249 | 10 |
| Zn | 0.00374 | 10 |

Analysis Type: SOLIDS-S

Batch Number: SOLIDS-S-1178

Units: Percent

Calibration Curve Information

Qc Summary Results

| Qc Type | Qc Name | SpkAmt | Rec Lim | Rpd Lim | Raw Result | Recov | Rpd | Flags |
|---------|-------------|--------|---------|---------|------------|-------|-----|-------|
| DUP | AC34399-011 | NA | NA | 5 | 76.79709 | NA | 1.1 | |

0022

| Sam # | Type | MB | Result | Per Mdl | Per Sol | Raw Result | Tare Wt Wet | Tare Dry | Prep Date | Prep By | Anal Date | Anal By |
|-------------|--------|----|--------|---------|---------|------------|-------------|----------|-----------|---------|-----------|---------|
| AC34399-011 | DUP | | 77 | | | 76.797 | 1.06 | 12.05 | | | 11/27/07 | natalie |
| AC34274-003 | Sample | | 88 | | | 87.975 | 1.05 | 12.36 | | | 11/27/07 | natalie |
| AC34386-001 | Sample | | 94 | | | 93.591 | 1.05 | 12.44 | | | 11/27/07 | natalie |
| AC34386-002 | Sample | | 86 | | | 85.623 | 1.07 | 12.06 | | | 11/27/07 | natalie |
| AC34386-003 | Sample | | 91 | | | 90.502 | 1.1 | 12.05 | | | 11/27/07 | natalie |
| AC34395-007 | Sample | | 85 | | | 84.691 | 1.08 | 12.25 | | | 11/27/07 | natalie |
| AC34399-011 | Sample | | 76 | | | 75.972 | 1.13 | 12.45 | | | 11/27/07 | natalie |
| AC34399-012 | Sample | | 78 | | | 77.858 | 1.07 | 12.09 | | | 11/27/07 | natalie |
| AC34399-013 | Sample | | 76 | | | 76.178 | 1.06 | 12.52 | | | 11/27/07 | natalie |
| AC34399-014 | Sample | | 75 | | | 75.358 | 1.09 | 12.25 | | | 11/27/07 | natalie |
| AC34401-001 | Sample | | 90 | | | 90 | 1.1 | 12.3 | | | 11/27/07 | natalie |
| AC34401-002 | Sample | | 92 | | | 91.689 | 1.04 | 12.35 | | | 11/27/07 | natalie |
| AC34401-003 | Sample | | 90 | | | 89.686 | 1.06 | 12.21 | | | 11/27/07 | natalie |
| AC34401-004 | Sample | | 89 | | | 89.352 | 1.07 | 12.34 | | | 11/27/07 | natalie |
| AC34401-006 | Sample | | 79 | | | 79.197 | 1.09 | 12.05 | | | 11/27/07 | natalie |
| AC34408-001 | Sample | | 80 | | | 80 | 1.09 | 12.34 | | | 11/27/07 | natalie |
| AC34412-001 | Sample | | 96 | | | 95.525 | 1.05 | 11.33 | | | 11/27/07 | natalie |
| AC34412-002 | Sample | | 90 | | | 89.894 | 1.05 | 12.33 | | | 11/27/07 | natalie |
| AC34412-003 | Sample | | 96 | | | 95.996 | 1.04 | 12.28 | | | 11/27/07 | natalie |
| AC34412-004 | Sample | | 84 | | | 84.307 | 1.06 | 12.02 | | | 11/27/07 | natalie |

Handwritten signature
11/27/07

Hex-Cr Soil

| Hex-Cr Soil | | | | Q.C. DATA | | | | | | | |
|-----------------------|----------|----------|-----------|-------------|---------------|---------------|-----------------|----------------|--------------|-----------------|-----------------|
| Batch# | 180 | | | | | | | | | | |
| Date | 11/28/07 | | | | Spike Amount | Result | Theoretical | % REC | Limits | | |
| Analyst | jad | | | | PPM | PPM | PPM | | | | |
| | | | | MBS | 20.00 | 17.97 | 20.00 | 90% | 80-120% | | |
| | | | | MS | 24.69 | 20.32 | 24.69 | 82% | 75-125% | | |
| | | | | MSD | 24.69 | 21.25 | 24.69 | 86% | 75-125% | | |
| | | | | PVS | 49.38 | 44.71 | 49.38 | 91% | 85-115% | | |
| | | | | Sample | AC34391-001QC | 0.66 | | | | | |
| Lead Chromate Added : | 0.016 | g | | Sample Dup | | 0.87 | RPD | NA | 20% | | |
| | | | | Insoluble | 1271.24 | 1101.87 | 1271.24 | 87% | 75-125% | | |
| ***** | | | | | | | | | | | |
| ICV Data | ABS | Turb ABS | Crct. ABS | PPM | Solid Factor | Sample wt (g) | Dilution Factor | Final vol (mL) | Hex-Cr (ppm) | True Value(ppm) | % REC (90-110%) |
| ICV V-11860 | 0.185 | 0.000 | 0.185 | 0.273941962 | 1 | 1 | 1 | 1 | 0.274 | 0.284 | 96 |
| Samples # | ABS | Turb ABS | Crct. ABS | PPM | Solid Factor | Sample wt (g) | Dilution Factor | Final vol (mL) | Hex-Cr (ppm) | MDL | |
| CCB | 0.002 | 0.000 | 0.002 | 0.008952212 | 1 | 1 | 1 | 1 | 0.009 | | |
| MB | 0.002 | 0.000 | 0.002 | 0.008952212 | 1 | 2.5 | 1 | 100 | 0.358 | 1.000 | |
| MBS | 0.306 | 0.000 | 0.306 | 0.449153764 | 1 | 2.5 | 1 | 100 | 17.966 | 1.000 | |
| AC34391-001QC | 0.041 | 0.036 | 0.005 | 0.013296306 | 0.81 | 2.5 | 1 | 100 | 0.657 | 1.235 | |
| AC34391-001DUP | 0.047 | 0.039 | 0.008 | 0.0176404 | 0.81 | 2.5 | 1 | 100 | 0.871 | 1.235 | |
| AC34391-001MS | 0.325 | 0.045 | 0.280 | 0.411504947 | 0.81 | 2.5 | 1 | 100 | 20.321 | 1.235 | |
| AC34391-001MSD | 0.335 | 0.042 | 0.293 | 0.430329356 | 0.81 | 2.5 | 1 | 100 | 21.251 | 1.235 | |
| AC34391-001PVS | 0.653 | 0.032 | 0.621 | 0.905283662 | 0.81 | 2.5 | 1 | 100 | 44.705 | 1.235 | |
| ACI34391-001NSOL | 0.309 | 0.005 | 0.304 | 0.448257701 | 0.81 | 2.5 | 50 | 100 | 1101.871 | 61.728 | |
| AC34391-002 | 0.024 | 0.019 | 0.005 | 0.013296306 | 0.83 | 2.5 | 1 | 100 | 0.641 | 1.205 | |
| AC34408-001 | 0.097 | 0.090 | 0.007 | 0.016192369 | 0.8 | 2.5 | 1 | 100 | 0.810 | 1.250 | |
| CCV | 0.310 | 0.000 | 0.310 | 0.45494569 | 1 | 2.5 | 1 | 100 | 18.198 | 1.000 | 91 |
| CCB | 0.002 | 0.000 | 0.002 | 0.008952212 | 1 | 2.5 | 1 | 100 | 0.358 | 1.000 | |
| AC33814-010 | 0.355 | 0.006 | 0.349 | 0.511419115 | 0.99 | 2.5 | 10 | 100 | 206.634 | 10.101 | |
| CCV | 0.315 | 0.000 | 0.315 | 0.462186047 | 1 | 2.5 | 1 | 100 | 18.487 | 1.000 | 92 |
| CCB | 0.002 | 0.000 | 0.002 | 0.008952212 | 1 | 2.5 | 1 | 100 | 0.358 | 1.000 | |

11/30/07

Hex-Cr Soil

| Cr6 soil curve | Date | 11/28/2007 | Batch # 180 | | | | | |
|------------------------------|---------------------|-----------------------|---------------|----------------|-----------------------|------------------|--------------------|--------------------|
| STD ppm | | ABS | | | | | | |
| 0 | | 0.002 | | Intercept | Constant | -0.004182333 | | |
| 0.025 | | 0.018 | | | | | | |
| 0.05 | | 0.036 | | Slope | X Coefficients | 0.690592749 | | |
| 0.25 | | 0.156 | | | | | | |
| 0.5 | | 0.329 | | | | | | |
| 0.75 | | 0.510 | | | | | | |
| 1 | | 0.698 | | | | | | |
| ***** | | | | | | | | |
| STD mg/L | | ABS | | PPM | DIFF | | | |
| 0 | | 0.002 | | 0.008952212 | -0.008952212 | | | |
| 0.025 | | 0.018 | | 0.032120715 | -0.007120715 | | | |
| 0.05 | | 0.036 | | 0.05818528 | -0.00818528 | | | |
| 0.25 | | 0.156 | | 0.231949051 | 0.018050949 | | | |
| 0.5 | | 0.338 | | 0.49549077 | 0.00450923 | | | |
| 0.75 | | 0.510 | | 0.744552174 | 0.005447826 | | | |
| 1 | | 0.698 | | 1.016782081 | -0.016782081 | | | |
| ***** | | | | | | | | |
| SUMMARY OUTPUT | | | | | | | | |
| <i>Regression Statistics</i> | | | | | | | | |
| Multiple R | 0.999386797 | | | | | | | |
| R Square | 0.99877397 | | | | | | | |
| Adjusted R Square | 0.998528763 | | | | | | | |
| Standard Error | 0.010440081 | | | | | | | |
| Observations | 7 | | | | | | | |
| <i>ANOVA</i> | | | | | | | | |
| | <i>df</i> | <i>SS</i> | <i>MS</i> | <i>F</i> | <i>Significance F</i> | | | |
| Regression | 1 | 0.443959881 | 0.443959881 | 4073.202054 | 1.78781E-08 | | | |
| Residual | 5 | 0.000544977 | 0.000108995 | | | | | |
| Total | 6 | 0.444504857 | | | | | | |
| | <i>Coefficients</i> | <i>Standard Error</i> | <i>t Stat</i> | <i>P-value</i> | <i>Lower 95%</i> | <i>Upper 95%</i> | <i>Lower 95.0%</i> | <i>Upper 95.0%</i> |
| Intercept | -0.004182333 | 0.005604892 | -0.746193233 | 0.489126516 | -0.018590143 | 0.010225478 | -0.018590143 | 0.010225478 |
| X Variable 1 | 0.690592749 | 0.010820667 | 63.82164252 | 1.78781E-08 | 0.662777384 | 0.718408114 | 0.662777384 | 0.718408114 |

MS
11/30/07

Calibration Curve Information

Qc Summary Results

Table with columns: Concentration, Abs/Area, Slope: 0.8160253, Intercept: -0.0010379, Rsquared: 0.9999986, Date Performed: 10/25/07. Rows show concentration values from 0 to 1 and corresponding Abs/Area values.

Table with columns: Qc Type, Qc Name, SpkAmt, Rec Lim, Rpd Lim, Raw Result, Recov, Rpd, Flags. Lists various quality control samples like CAI-01, CCV, and MRS with their respective results and flags.

Main data table with columns: Sam #, Type, MB, Result, Mdl, Per Sol, Raw ABS Result, Turb Abs, DF, Sam Vol, Fin Vol, Prep Date, Prep By, Anal Date, Anal By. Contains numerous rows of sample data with various identifiers and results.

Handwritten signature and date: 12/7/07

Flag Codes: Ra - Recovery failed specified criteria (PVS/MBS/MS/MSD/ICV/CAL)

Rp - RPD failed specified criteria.

Na - Not Applicable

Nc - Not Checked either one or both values =ND

**HEXAVALENT CHROMIUM PREPARATION DATA SHEET
(SOIL SAMPLES ONLY)**

Batch: 180

Method ~~3060A~~
Reviewed By: [Signature]

Date: 11/30/07

| Laboratory Sample No. | Sample Wt (g) | Final Vol (ml) | pH 7.5 ± 0.5 | Digestion Time (Start / Finish) | Hot Plate Temp. 1 | Hot Plate Temp. 2 | Date | Analyst |
|------------------------|---------------|----------------|-----------------|------------------------------------|-------------------|-------------------|----------|---------|
| MB | 2.5 | 100 | 7.67 | 11:30 - 12:30 | 92.5 | 93.4 | 11-26-07 | JAD |
| MBS | ↓ | ↓ | 7.25 | ↓ | ↓ | ↓ | ↓ | ↓ |
| QC Sample 34391-001 | ↓ | ↓ | 7.34 | ↓ | ↓ | ↓ | ↓ | ↓ |
| DUP | ↓ | ↓ | 7.53 | ↓ | ↓ | ↓ | ↓ | ↓ |
| MS | ↓ | ↓ | 7.81 | ↓ | ↓ | ↓ | ↓ | ↓ |
| MSD | ↓ | ↓ | 7.92 | ↓ | ↓ | ↓ | ↓ | ↓ |
| BVS | ↓ | ↓ | 7.43 | ↓ | ↓ | ↓ | ↓ | ↓ |
| INS | ↓ | ↓ | 7.52 | ↓ | ↓ | ↓ | ↓ | ↓ |
| 34391-002 | ↓ | ↓ | 7.35 | ↓ | ↓ | ↓ | ↓ | ↓ |
| 34408-001 | ↓ | ↓ | 7.41 | ↓ | ↓ | ↓ | ↓ | ↓ |
| 33814-010 | ↓ | ↓ | 7.25 | ↓ | ↓ | ↓ | ↓ | ↓ |
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Spike Volume lml & Lot #
V- 36325

| Reagent | Lot #: |
|--------------------------|----------|
| Digestion Solution | V- 35299 |
| Phosphate Buffer | V- 35547 |
| MgCl ₂ | # 2836 |
| Lead Chromate (PbCr) | # 1488 |
| Weight of PbCr (10-20mg) | 16 mg |

PVS Volume 2 ml
Sample chosen for PVS should be
Spiked at 40 mg/Kg. If sample is
>40 mg/Kg, use 2X.

HEXAVALENT CHROMIUM PREPARATION DATA SHEET (AQUEOUS SAMPLES ONLY)

SM3500-Cr D

BATCH No. 83

| | Sample Volume (ml) |
|--------------|--------------------|
| Method Blank | 100 |
| Method Blank | 100 |
| Method Blank | 100 |
| Method Blank | 100 |
| Method Blank | 100 |

| | Sample Volume (ml) | Date | Prepared By |
|--------------------|--------------------|----------|-------------|
| Method Blank Spike | 100 | 10-26-07 | JAD |
| Method Blank Spike | 100 | 11-9-07 | JAD |
| Method Blank Spike | 100 | 11-14-07 | JAD |
| Method Blank Spike | 100 | 11/15/07 | RS |
| Method Blank Spike | 100 | 11-21-07 | JAD |

| Laboratory Sample No. | Sample Volume (ml) | Date | Prepared By |
|---------------------------|--------------------|----------|-------------|
| Matrix Spike | 100 | 10-26-07 | JAD |
| Matrix Spike Dup (MDS) AB | ↓ | ↓ | ↓ |
| Sample Dup 33452-002 | ↓ | ↓ | ↓ |
| 1. 33852-002 | ↓ | ↓ | ↓ |
| 2. 34158-001 | 100 | 11-9-07 | JAD |
| 3. -002 | ↓ | ↓ | ↓ |
| 4. -003 | ↓ | ↓ | ↓ |
| 5. 34171-001 | ↓ | ↓ | ↓ |
| 6. -002 | ↓ | ↓ | ↓ |
| 7. -003 | ↓ | ↓ | ↓ |
| 8. -004 | ↓ | ↓ | ↓ |
| 9. 34245-001 | 100 | 11-14-07 | JAD |
| 10. 34224-002 | ↓ | ↓ | ↓ |

| Laboratory Sample No. | Sample Volume (ml) | Date | Prepared By |
|-----------------------|--------------------|----------|-------------|
| 11. 34224-006 | 100 | 11-14-07 | JAD |
| 12. -011 | ↓ | ↓ | ↓ |
| 13. 34295-01 | 100 | 11/15/07 | RS |
| 14. 34287-01 | ↓ | ↓ | ↓ |
| 15. -02 | ↓ | ↓ | ↓ |
| 16. 34408-002 | 100 | 11-21-07 | JAD |
| 17. | | | |
| 18. | | | |
| 19. | | | |
| 20. 34189-01 | 100 | 11/9/07 | RS |
| | | | |
| | | | |
| | | | |

| Spike Volume 1 ml |
|-------------------------|
| 247 10-26-07 & Lot # |
| V- 23130 30325 |
| V- 36325 |
| V- 30325 |
| V- 30325 |
| V- 36325 |

| Diphenylcarbazide |
|-------------------|
| 247 |
| V- (247) 35542 |
| V- (247) 35543 |
| V- 2836 35544 |
| V- 35097 |
| V- 35097 |

| 0.2 N H2SO4 |
|-------------|
| V- 25661 |
| V- 25661 |
| V- 33172 |
| V- 33172 |
| V- 33172 |

Reviewed by: [Signature] Date: 12/7/07

HEXAVALENT CHROMIUM ANALYSIS DATA SHEET (AQUEOUS SAMPLES ONLY)

Reviewed by: M. J. [Signature]

Date: 12/7/07

Calibration Curve: 10-25-07

Batch: 83

Analyst: JAD Date 10-26-07

Calibration Curve: _____

Batch: _____

Analyst: _____ Date _____

| ID | Dilution Factor | Absorbance (540nm) | Turbidity (540nm) |
|--------------------|-----------------|----------------------------|-------------------|
| Low Std. | <u>1x</u> | <u>0.366⁴¹⁰</u> | <u>—</u> |
| High Std. | | <u>0.807</u> | <u>—</u> |
| Method Blank | | <u>0.004</u> | <u>—</u> |
| Method Blank Spike | | <u>0.413</u> | <u>—</u> |
| <u>33852-2</u> | | <u>0.697</u> | <u>0.605</u> |
| <u>Dup</u> | | <u>0.690</u> | <u>0.675</u> |
| <u>MS</u> | | <u>1.027</u> | <u>0.685</u> |
| <u>MSD</u> | <u>↓</u> | <u>1.019</u> | <u>0.696</u> |
| <u>CCV</u> | <u>↓</u> | <u>0.412</u> | <u>—</u> |
| <u>MS</u> | <u>2x</u> | <u>0.524</u> | <u>0.334</u> |
| <u>MSD</u> | <u>2x</u> | <u>0.507</u> | <u>0.326</u> |
| <u>CCV</u> | <u>1x</u> | <u>0.410</u> | <u>—</u> |
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| ID | Dilution Factor | Absorbance (540nm) | Turbidity (540nm) |
|--------------------|-----------------|--------------------|-------------------|
| Low Std. | | | |
| High Std. | | | |
| Method Blank | | | |
| Method Blank Spike | | | |
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| Standard | Lot #: |
|---------------|----------------|
| Low Std., CCV | W-HexCr- 33967 |
| High Std. | W-HexCr- 33968 |

| Standard | Lot #: |
|---------------|----------|
| Low Std., CCV | W-HexCr- |
| High Std. | W-HexCr- |

HEXAVALENT CHROMIUM ANALYSIS DATA SHEET (AQUEOUS SAMPLES ONLY)

SM3500-Cr D

Batch #: 63

Calibration Curve: 10-25-07

Analyst: JAD

Date: 11-21-07

| SAMPLE ID | DILUTION FACTOR | ABSORBANCE (540 nm) | TURBIDITY (540nm) |
|----------------------|---------------------|---------------------|-------------------|
| Low Std. | <u>0.422 1x</u> | 0.422 | — |
| High Std. <i>JAD</i> | 0.422 | 0.808 | — |
| Method Blank | 0.001 | 0.001 | — |
| Method Blank Spike | 0.415 | 0.415 | — |
| 34406-002 CCV | 0.808 1x | 0.003 | 0.002 |
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| CCV | | | |
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| | | | |
| CCV | | | |

| Standard | Lot #: |
|---------------|---------------------|
| Low Std., CCV | V- 35406 |
| High Std. | V- 35398 |

JAD
11-21-07

Reviewed by: *M. S. [Signature]*

35399

Date: 12/7/07

104-1

HEXAVALENT CHROMIUM AQUEOUS CALIBRATION DATA SHEET

SM3500-Cr D

Reviewed by: Mary Smith Date: 10/25/07

Initial Calibration Date: 10/25/07

Analyst: JAD

| Std Conc. (mg/L) | Absorbance (540 nm) | Source HCl # | Dilution Factor | Calc. Conc. (mg/L) | Confidence Limits (+ 10%) |
|---------------------|---------------------|--------------|-----------------|--------------------|---------------------------|
| 0.0 | 0.000 | — | | | |
| 0.025 | 0.019 | V-34869 | | | |
| 0.05 | 0.039 | 870 | | | |
| 0.25 | 0.203 | 871 | | | |
| 0.50 | 0.407 | 872 | | | |
| 0.75 | 0.611 | 873 | | | |
| 1.0 | 0.815 | 874 | | | |
| ICV (T.V. = 0.284) | 0.224 | 875 | 1X | 0.276 | 0.256-0.312 |

Verification Limits

| Concentration | Limit | Range |
|---------------|-------|-------|
| 0.5 ppm | 10% | |
| 1.0 ppm | 10% | |
| MBS | 25% | |

Reviewed by: _____ Date: _____

Initial Calibration Date: _____

Analyst: _____

| Std Conc. (mg/L) | Absorbance (540 nm) | Source HCl # | Dilution Factor | Calc. Conc. (mg/L) | Confidence Limits (+ 10%) |
|------------------|---------------------|--------------|-----------------|--------------------|---------------------------|
| 0.0 | | | | | |
| 0.025 | | | | | |
| 0.05 | | | | | |
| 0.25 | | | | | |
| 0.50 | | | | | |
| 0.75 | | | | | |
| 1.0 | | | | | |
| ICV (T.V. =) | | | | | |

Verification Limits

| Concentration | Limit | Range |
|---------------|-------|-------|
| 0.5 ppm | 10% | |
| 1.0 ppm | 10% | |
| MBS | 25% | |

Veritech Standard Receipt Log

0032

Veritech Control/Receipt Number: 1488

| |
|---------------|
| Description |
| Lead Chromate |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| EM Science | LX0145-1 | 41141130 | 12/20/05 | 12/19/08 | Miller, Gael E. | 1 | 500g | neat | neat |

Veritech Control/Receipt Number: 2836

| |
|--------------------|
| Description |
| Magnesium Chloride |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Fisher | M35-212 | 066067 | 11/01/07 | 10/31/10 | Miller, Gael E. | 1 | 2.5kg | neat | neat |

Veritech Internally Prepared Standard Log

0033

Veritech Lot Number: V-25861

| Prepared By: Ozcan, Asim | | Department: WetChem | | |
|----------------------------|---------------------------|-----------------------|-------------|------------|
| Description: 10 % H2SO4 | | BatchNumber: | | |
| Prep Date: 5/2/2007 | | Concentration: 10 % | | |
| Expiration Date: 11/1/2007 | | Final Volume: 1000 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2063 | Sulfuric Acid | 100 ml | neat neat | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-30325

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------|---------------------------|-----------------------|-------------|------------|
| Description: 50 ppm Hex Cr | | BatchNumber: | | |
| Prep Date: 8/10/2007 | | Concentration: 50 ppm | | |
| Expiration Date: 2/9/2008 | | Final Volume: 1000 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1382 | Potassium Dichromate | .1414 g | neat neat | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-33172

| Prepared By: Fields, Quasheeda R. | | Department: WetChem | | |
|-----------------------------------|---------------------------|-----------------------|-------------|------------|
| Description: 10 % H2SO4 | | BatchNumber: | | |
| Prep Date: 10/9/2007 | | Concentration: 10 % | | |
| Expiration Date: 4/8/2008 | | Final Volume: 1000 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2498 | Sulfuric Acid | 100 ml | NEAT neat | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-33395

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------------|---------------------------|--------------------------------|-------------|------------|
| Description: Cr6 digestion solution | | BatchNumber: | | |
| Prep Date: 10/12/2007 | | Concentration: Reagent reagent | | |
| Expiration Date: 4/12/2008 | | Final Volume: 2000 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2307 | Sodium Carbonate | 60 g | neat neat | |
| 2709 | sodium hydroxide | 40 g | neat neat | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-33967

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|----------------------------------|---------------------------|------------------------|-------------|------------|
| Description: 0.5 ppm Hex Cr Std. | | BatchNumber: | | |
| Prep Date: 10/26/2007 | | Concentration: 0.5 ppm | | |
| Expiration Date: 10/26/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-30325 | 50 ppm Hex Cr | 1 ml | 50 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Internally Prepared Standard Log

0034

Veritech Lot Number: V-33968

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|----------------------------------|---------------------------|-------------------------|-------------|------------|
| Description: 1.00 ppm Hex Cr Std | | BatchNumber: | | |
| Prep Date: 10/26/2007 | | Concentration: 1.00 ppm | | |
| Expiration Date: 10/26/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-30325 | 50 ppm Hex Cr | 2 ml | 50 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-34104

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------------|---------------------------|--------------------------------|-------------|------------|
| Description: Cr6 digestion solution | | BatchNumber: | | |
| Prep Date: 10/30/2007 | | Concentration: Reagent reagent | | |
| Expiration Date: 4/24/2008 | | Final Volume: 2000 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2307 | Sodium Carbonate | 60 g | neat neat | |
| 2709 | sodium hydroxide | 40 g | neat neat | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-34868

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------------|---------------------------|----------------------|-------------|------------|
| Description: 5 ppm working solution | | BatchNumber: | | |
| Prep Date: 10/25/2007 | | Concentration: 5 ppm | | |
| Expiration Date: 10/25/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-30325 | 50 ppm Hex Cr | 10 ml | 50 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-34869

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------|---------------------------|--------------------------|-------------|------------|
| Description: 0.025 ppm | | BatchNumber: | | |
| Prep Date: 10/25/2007 | | Concentration: 0.025 ppm | | |
| Expiration Date: 10/25/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1016 | DI water (fill to volume) | | | |
| V-34868 | 5 ppm working solution | .5 ml | 5 ppm | |

Veritech Lot Number: V-34870

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|-------------------------|-------------|------------|
| Description: 0.05 ppm | | BatchNumber: | | |
| Prep Date: 10/25/2007 | | Concentration: 0.05 ppm | | |
| Expiration Date: 10/25/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-34868 | 5 ppm working solution | 1 ml | 5 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-34871

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------|---------------------------|-------------------------|-------------|------------|
| Description: 0.25 ppm | | BatchNumber: | | |
| Prep Date: 10/25/2007 | | Concentration: 0.25 ppm | | |
| Expiration Date: 10/25/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-34868 | 5 ppm working solution | 5 ml | 5 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-34872

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|------------------------|-------------|------------|
| Description: 0.5 ppm | | BatchNumber: | | |
| Prep Date: 10/25/2007 | | Concentration: 0.5 ppm | | |
| Expiration Date: 10/25/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1016 | DI water (fill to volume) | | | |
| V-34868 | 5 ppm working solution | 10 ml | 5 ppm | |

Veritech Lot Number: V-34873

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|-------------------------|-------------|------------|
| Description: 0.75 ppm | | BatchNumber: | | |
| Prep Date: 10/25/2007 | | Concentration: 0.75 ppm | | |
| Expiration Date: 10/25/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-34868 | 5 ppm working solution | 15 ml | 5 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-34874

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|----------------------|--------------|------------|
| Description: 1 ppm | | BatchNumber: | | |
| Prep Date: 10/25/2007 | | Concentration: 1 ppm | | |
| Expiration Date: 10/25/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-34104 | Cr6 digestion solution | 50 ml | Reagent reag | |
| V-33395 | Cr6 digestion solution | 20 ml | Reagent reag | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-34875

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|--------------------------|-------------|------------|
| Description: icv | | BatchNumber: | | |
| Prep Date: 10/25/2007 | | Concentration: 0.284 ppm | | |
| Expiration Date: 10/25/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2685 | Hexavalent Cr ICV | .5 ml | neat neat | |
| 1016 | DI water (fill to volume) | | | |

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-35299

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------------|---------------------------|--------------------------------|-------------|------------|
| Description: Cr6 digestion solution | | BatchNumber: | | |
| Prep Date: 11/20/2007 | | Concentration: Reagent reagent | | |
| Expiration Date: 5/19/2008 | | Final Volume: 2000 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2307 | Sodium Carbonate | 60 g | neat neat | |
| 2709 | sodium hydroxide | 40 g | neat neat | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-35399

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|----------------------------------|---------------------------|------------------------|-------------|------------|
| Description: 0.5 ppm Hex Cr Std. | | BatchNumber: | | |
| Prep Date: 11/21/2007 | | Concentration: 0.5 ppm | | |
| Expiration Date: 11/14/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-30325 | 50 ppm Hex Cr | 1 ml | 50 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-35400

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|----------------------------------|---------------------------|-------------------------|-------------|------------|
| Description: 1.00 ppm Hex Cr Std | | BatchNumber: | | |
| Prep Date: 11/21/2007 | | Concentration: 1.00 ppm | | |
| Expiration Date: 11/9/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1016 | DI water (fill to volume) | | | |
| V-30325 | 50 ppm Hex Cr | 2 ml | 50 ppm | |

Veritech Lot Number: V-35542

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|--------------------------------|-----------------------|--------------------------------|-------------|------------|
| Description: Cr6 Color Reagent | | BatchNumber: | | |
| Prep Date: 10/26/2007 | | Concentration: Reagent reagent | | |
| Expiration Date: 11/25/2007 | | Final Volume: 50 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2117 | 1,5 Diphenylcarbazine | 50 ml | neat neat | |
| 2786 | Acetone | | neat neat | |

Veritech Lot Number: V-35543

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|--------------------------------|-----------------------|--------------------------------|-------------|------------|
| Description: Cr6 Color Reagent | | BatchNumber: | | |
| Prep Date: 11/9/2007 | | Concentration: Reagent reagent | | |
| Expiration Date: 12/8/2007 | | Final Volume: 50 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2117 | 1,5 Diphenylcarbazine | 50 ml | neat neat | |
| 2786 | Acetone | | neat neat | |

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-35544

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|--------------------------------|-----------------------|--------------------------------|-------------|------------|
| Description: Cr6 Color Reagent | | BatchNumber: | | |
| Prep Date: 11/14/2007 | | Concentration: Reagent reagent | | |
| Expiration Date: 12/13/2007 | | Final Volume: 50 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2786 | Acetone | | neat neat | |
| 2835 | 1,5-Diphenylcarbazine | 50 ml | neat neat | |

Veritech Lot Number: V-35547

| Prepared By: Mehta, Prashant P. | | Department: WetChem | | |
|---------------------------------|-------------------------------|--------------------------------|-------------|------------|
| Description: Phosphate Buffer | | BatchNumber: | | |
| Prep Date: 11/27/2007 | | Concentration: Reagent reagent | | |
| Expiration Date: 5/26/2008 | | Final Volume: 500 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1396 | Potassium Phosphate Monobasic | 34.02 g | neat neat | |
| 1318 | Potassium Phosphate | 43.545 g | neat neat | |

Veritech Lot Number: V-35638

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------------|---------------------------|----------------------|-------------|------------|
| Description: 5 ppm working solution | | BatchNumber: | | |
| Prep Date: 11/28/2007 | | Concentration: 5 ppm | | |
| Expiration Date: 11/28/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1016 | DI water (fill to volume) | | | |
| V-30325 | 50 ppm Hex Cr | 10 ml | 50 ppm | |

Veritech Lot Number: V-35709

| Prepared By: Trivedi, Beena | | Department: WetChem | | |
|-------------------------------------|---------------------------|--------------------------------|-------------|------------|
| Description: Cr6 digestion solution | | BatchNumber: | | |
| Prep Date: 11/28/2007 | | Concentration: Reagent reagent | | |
| Expiration Date: 5/28/2008 | | Final Volume: 2000 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2499 | Sodium Carbonate | 60 g | neat neat | |
| 2709 | sodium hydroxide | 40 g | neat neat | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-35719

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|--------------------------|-----------------|------------|
| Description: 0.025 ppm | | BatchNumber: | | |
| Prep Date: 11/28/2007 | | Concentration: 0.025 ppm | | |
| Expiration Date: 11/28/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-35638 | 5 ppm working solution | .5 ml | 5 ppm | |
| 1016 | DI water (fill to volume) | | | |
| V-35709 | Cr6 digestion solution | 50 ml | Reagent reagent | |

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-35720

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|-------------------------|--------------|------------|
| Description: 0.05 ppm | | BatchNumber: | | |
| Prep Date: 11/28/2007 | | Concentration: 0.05 ppm | | |
| Expiration Date: 11/28/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-35709 | Cr6 digestion solution | 50 ml | Reagent reag | |
| V-35638 | 5 ppm working solution | 1 ml | 5 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-35721

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------|---------------------------|-------------------------|-------------|------------|
| Description: 0.25 ppm | | BatchNumber: | | |
| Prep Date: 11/28/2007 | | Concentration: 0.25 ppm | | |
| Expiration Date: 11/28/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1016 | DI water (fill to volume) | | | |
| V-35638 | 5 ppm working solution | 5 ml | 5 ppm | |

Veritech Lot Number: V-35722

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|------------------------|-------------|------------|
| Description: 0.5 ppm | | BatchNumber: | | |
| Prep Date: 11/28/2007 | | Concentration: 0.5 ppm | | |
| Expiration Date: 11/28/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1016 | DI water (fill to volume) | | | |
| V-35638 | 5 ppm working solution | 10 ml | 5 ppm | |

Veritech Lot Number: V-35723

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|-------------------------|--------------|------------|
| Description: 0.75 ppm | | BatchNumber: | | |
| Prep Date: 11/28/2007 | | Concentration: 0.75 ppm | | |
| Expiration Date: 11/28/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-35638 | 5 ppm working solution | 15 ml | 5 ppm | |
| V-35709 | Cr6 digestion solution | 50 ml | Reagent reag | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-35724

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------|---------------------------|------------------------|-------------|------------|
| Description: 1 ppm | | BatchNumber: | | |
| Prep Date: 11/28/2007 | | Concentration: 1.0 ppm | | |
| Expiration Date: 11/28/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1016 | DI water (fill to volume) | | | |
| V-35638 | 5 ppm working solution | 20 ml | 5 ppm | |

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-35725

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|------------------------|-----------------|------------|
| Description: icv | | BatchNumber: | | |
| Prep Date: 11/28/2007 | | Concentration: 0.5 ppm | | |
| Expiration Date: 11/28/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2622 | Hex Cr ICV | .5 ml | 0.5 ppm | |
| 1016 | Dl water (fill to volume) | | | |
| V-35709 | Cr6 digestion solution | 50 ml | Reagent reagent | |

Veritech Standard Receipt Log

0700

Veritech Control/Receipt Number: 1016

| |
|---------------------------|
| Description |
| DI water (fill to volume) |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-------------|-------------|--------------|-------|--------|
| US Filter | na | na | 02/28/05 | | Smith, Greg | 1 | 0 | | |

Veritech Control/Receipt Number: 1318

| |
|---------------------|
| Description |
| Potassium Phosphate |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Fisher | P288-500 | 044343 | 09/26/05 | 09/25/08 | Miller, Gael E. | 1 | 500 g | neat | neat |

Veritech Control/Receipt Number: 1382

| |
|----------------------|
| Description |
| Potassium Dichromate |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|-------------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Acros | 424115000 | A0207311001 | 10/28/05 | 10/27/08 | Miller, Gael E. | 1 | 500g | neat | neat |

Veritech Control/Receipt Number: 1396

| |
|-------------------------------|
| Description |
| Potassium Phosphate Monobasic |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Fisher | P285-500 | 053351 | 11/07/05 | 11/06/08 | Miller, Gael E. | 1 | 500g | neat | neat |

Veritech Control/Receipt Number: 2063

| |
|---------------|
| Description |
| Sulfuric Acid |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Fisher | A510SK212 | 3106040 | 11/28/06 | 11/27/07 | Miller, Gael E. | 6 | 2.5L | neat | neat |

Veritech Control/Receipt Number: 2117

| |
|-----------------------|
| Description |
| 1,5 Diphenylcarbazine |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Fisher | D85-25 | 065518 | 12/19/06 | 12/18/07 | Miller, Gael E. | 1 | 25g | neat | neat |

Veritech Control/Receipt Number: 2307

| |
|------------------|
| Description |
| Sodium Carbonate |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Fisher | S263-1 | 061061 | 03/26/07 | 03/25/10 | Miller, Gael E. | 1 | 1kg | neat | neat |

Veritech Standard Receipt Log

0041

Veritech Control/Receipt Number: 2498

| |
|---------------|
| Description |
| Sulfuric Acid |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-------------|-------------|--------------|-------|--------|
| FISHER | A510SK-212 | 3106040 | 05/15/07 | 05/09/09 | Lopez, Jose | 6 | 2.5L | NEAT | NEAT |

Veritech Control/Receipt Number: 2499

| |
|------------------|
| Description |
| Sodium Carbonate |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|----------------|-------------|--------------|-------|--------|
| fisher | S263-1 | 061061 | 05/15/07 | 05/14/10 | Miller,Gael E. | 1 | 1kg | neat | neat |

Veritech Control/Receipt Number: 2622

| |
|-------------|
| Description |
| Hex Cr ICV |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|-------------|-----------|-----------|-------------|-------------|--------------|-------|--------|
| NYDOH | 0032 | AC31400-001 | 01/17/07 | 01/16/08 | Smith, Greg | 1 | 40 ml | 0.5 | ppm |

Veritech Control/Receipt Number: 2685

| |
|-------------------|
| Description |
| Hexavalent Cr ICV |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|----------------|-------------|--------------|-------|--------|
| ERA | 984 | P140-984 | 08/13/07 | 12/31/08 | Miller,Gael E. | 3 | 14ml | neat | neat |

Veritech Control/Receipt Number: 2709

| |
|------------------|
| Description |
| sodium hydroxide |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-------------|-------------|--------------|-------|--------|
| fisher | S318-10 | 070241 | 08/23/07 | 08/23/09 | Lopez, Jose | 4 | 10kg | neat | neat |

Veritech Control/Receipt Number: 2786

| |
|-------------|
| Description |
| Acetone |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-------------|-------------|--------------|-------|--------|
| fisher | A40-4 | 064467 | 10/04/07 | 10/03/09 | Lopez, Jose | 4 | 4l | neat | neat |

Veritech Control/Receipt Number: 2835

| |
|-----------------------|
| Description |
| 1,5-Diphenylcarbazide |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|----------------|-------------|--------------|-------|--------|
| Fisher | D85-25 | 067626 | 11/01/07 | 10/31/10 | Miller,Gael E. | 1 | 25 g | neat | neat |

| | <u>PAGE NOS.</u> |
|--|------------------|
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Hampton-Clarke, Inc.

veritech laboratories



175 Route 46 West, Unit D
Fairfield, NJ 07004
(973) 244-9770
Federal ID: 222679402

0001

Format: NJDEP-R

Project: OBMUA Soil Cleanup

PO Number: IYR00139

Client: Icon Engineering
3759 US Highway 1 South
Suite 100
Monmouth Junction, NJ 08852

Attn: James Sousa

Samples submitted on: 11/30/2007

AC34557-001
AC34557-002
AC34557-003
AC34557-004

Date: 12/21/2007

HCI Project: 7113024

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.



Jeri Rossi - Quality Assurance Director

Or

Stanley Gilewicz - Laboratory Director

CT #: PH-0671 MA #: NJ386 NJ #: 14622 NY #: 11408 PA #: 68-463 WV #: 353 USACE

Veritech Sample Key

21-Dec-07

| Lab# | SampleID |
|-------------|--------------|
| AC34557-001 | PE-6(12-18) |
| AC34557-002 | PE-10(8-14) |
| AC34557-003 | PE-16(0-6) |
| AC34557-004 | PE-21(12-18) |

175 US Hwy 46 West, Fairfield, New Jersey 07004

Ph: 800-426-9992 fax:973-439-1458

7113024

3) Reporting Requirements(please circle)

| | | | | | | |
|---|----------------|--|--|---|---|--|
| Customer Information | | Project Information | | Turnaround Time | Report type | Electronic Deliv |
| 1a) Customer: <u>ICON ENGINEERING</u> | Address: _____ | 2a) Project: <u>OBMUA Soil Cleanup</u> | 2b) Project Manager: <u>Behram Turan</u> | 24-Hour(100%) 48-Hour(75%) 72-Hour(50%) 1-Week(25%) 10 Days(10%) <u>Standard</u> Other: _____ | Data Sum Waste <u>Red-NJNY/PA</u> CLP Full/Cat-B Cat-A Other: _____ | Hazsite/Csv Equis <u>Excel-NJCC</u> Excel-Nytagm Excel-PAActII <u>PDP</u> Other: _____ |
| 1b) Email/Cell/Fax/Ph: <u>jsousa@icon-engineering.com</u> | | 2c) Location (City/State): <u>Old Bridge, NJ</u> | | | | |
| 1c) Send Invoice To: <u>Behram Turan</u> | | 2d) Quote#/PO# (If Applicable): <u>IYR00139</u> | | | | |
| 1d) Send Report To: <u>James Sousa</u> | | | | | | |

Expedited TAT Not always available (Please check with lab)!

7) Analysis Request

| FOR LAB USE ONLY ↓ Batch# | Check if Contingent====> | | | | | | | | | | <====Check if Contingent | | | | | | | 9) Methanol Bottle Numbers (If applicable) Comments | | | | |
|---------------------------------|--------------------------|-----------|----------------|-------------|---------------|----------|------|---------|----------|------------|--------------------------|-----------------|--------|------|-----|-------|------|--|--------|--|--|--|
| | Matrix Codes: | | | Sample Type | Composite (C) | Grab (G) | Lead | Arsenic | Antimony | Chromium+6 | None | 8) # Of Bottles | | | | | | | | | | |
| | DW-Drinking Water | S-Soil | A-Air | | | | | | | | | MeOH | Encore | NaOH | HCl | H2SO4 | HNO3 | | Other: | | | |
| AC34557 | DW-Drinking Water | S-Soil | A-Air | | | | | | | | | | | | | | | | | | | |
| | GW-Ground Water | SL-Sludge | Ot-Other | | | | | | | | | | | | | | | | | | | |
| | WW-Waste Water | O-Oil | | | | | | | | | | | | | | | | | | | | |
| Lab Sample# | 4) Customer Sample ID | 5) Matrix | 6) Sample Date | Time | | | | | | | | | | | | | | | | | | |
| -001 | PE-6(12-18) | S | 11/20/07 | 14:00 | X | X | X | X | X | | | | | | | | | | | | | |
| -002 | PE-10(8-14) | S | 11/21/07 | 14:25 | X | X | X | X | X | | | | | | | | | | | | | |
| -003 | PE-16(0-6) | S | 11/27/07 | 08:30 | X | X | X | X | X | | | | | | | | | | | | | |
| -004 | PE-21(12-18) | S | 11/30/07 | 11:30 | X | X | X | X | X | | | | | | | | | | | | | |

| | | | | |
|----------------------|----------------------|----------|-------|---|
| 10) Relinquished By: | Accepted By | Date | Time | Comments, Notes, Special Requirements, HAZARDS |
| <u>Icon</u> | <u>Janet Edwards</u> | 11/30/07 | 15:07 | Test each sample for lead, arsenic, antimony, and hexavalent chromium |
| <u>Janet Edwards</u> | <u>Janet Edwards</u> | 11/30/07 | 16:10 | |
| | | | | 11) Sampler: <u>JS/DA</u> Date: <u>11/30/07</u> |

Cooler Temp
30

Please note NUMBERED items. If not completed your analytical work may be delayed.
A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis

CONDITION UPON RECEIPT

Batch Number AC34557

Entered By: children

Date Entered 11/30/2007 5:12:00 PM

0004

-
- 1 Yes Is there a corresponding COC included with the samples?
 - 2 Yes Are the samples in a container such as a cooler or Ice chest?
 - 3 Yes Are the COC seals intact?
 - 4 Yes Please specify the Temperature inside the container
3.2
 - 5 Yes Are the samples refrigerated (where required)/have they arrived on ice?
 - 6 Yes Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
 - 7 Yes Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
 - 8 Yes Are all of the sample labels or numbers legible? If no specify:
 - 9 Yes Do the contents match the COC? If no, specify
 - 10 Yes Is there enough sample sent for the analyses listed on the COC? If no, specify:
 - 11 Yes Are samples preserved correctly?
 - 12 Yes Are all soils preserved in methanol accompanied by dry soil?
 - 13 NA Other comments ...Specify
 - 14 NA Corrective actions (Specify item number and corrective action taken).

Internal Chain of Custody

0005

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|-------------|----------------|-------------|--------|-----|----------|
| AC34557-001 | 12/03/07 09:19 | SRB | 1 | A | ICP |
| AC34557-001 | 12/03/07 10:20 | SRB | 1 | M | TDSI |
| AC34557-001 | 12/03/07 16:22 | R12 | 1 | A | NONE |
| AC34557-001 | 12/05/07 07:07 | NW | 1 | A | %SOLIDS |
| AC34557-001 | 12/05/07 14:09 | R12 | 1 | A | NONE |
| AC34557-001 | 12/06/07 09:13 | JAD | 1 | A | cr6-s |
| AC34557-001 | 12/06/07 09:48 | R12 | 1 | A | NONE |
| AC34557-002 | 12/03/07 09:19 | SRB | 1 | A | ICP |
| AC34557-002 | 12/03/07 10:20 | SRB | 1 | M | TDSI |
| AC34557-002 | 12/03/07 16:22 | R12 | 1 | A | NONE |
| AC34557-002 | 12/05/07 07:07 | NW | 1 | A | %SOLIDS |
| AC34557-002 | 12/05/07 14:09 | R12 | 1 | A | NONE |
| AC34557-002 | 12/06/07 09:13 | JAD | 1 | A | cr6-s |
| AC34557-002 | 12/06/07 09:48 | R12 | 1 | A | NONE |
| AC34557-003 | 12/03/07 09:19 | SRB | 1 | A | ICP |
| AC34557-003 | 12/03/07 10:20 | SRB | 1 | M | TDSI |
| AC34557-003 | 12/03/07 16:22 | R12 | 1 | A | NONE |
| AC34557-003 | 12/05/07 07:07 | NW | 1 | A | %SOLIDS |
| AC34557-003 | 12/05/07 14:09 | R12 | 1 | A | NONE |
| AC34557-003 | 12/06/07 09:13 | JAD | 1 | A | cr6-s |
| AC34557-003 | 12/06/07 09:48 | R12 | 1 | A | NONE |
| AC34557-004 | 12/03/07 09:19 | SRB | 1 | A | ICP |
| AC34557-004 | 12/03/07 10:20 | SRB | 1 | M | TDSI |
| AC34557-004 | 12/03/07 16:22 | R12 | 1 | A | NONE |
| AC34557-004 | 12/05/07 07:07 | NW | 1 | A | %SOLIDS |
| AC34557-004 | 12/05/07 14:09 | R12 | 1 | A | NONE |
| AC34557-004 | 12/06/07 09:13 | JAD | 1 | A | cr6-s |
| AC34557-004 | 12/06/07 09:48 | R12 | 1 | A | NONE |

| Lab#: | DateTime: | Loc or User | Bot Nu | A/M | Analysis |
|-------|-----------|-------------|--------|-----|----------|
|-------|-----------|-------------|--------|-----|----------|

Laboratory Chronicle

Project #: 7113024

0000

Lab#: AC34557-001 Sample ID: PE-6(12-18)

TestGroupName % Solids SM2540G
 Preparation Method: SM 2540G
 Analytical Method: SM 2540G

| Analyte | Prep | | Analysis | |
|----------|----------|---------|----------|---------|
| | Date | By | Date | By |
| % Solids | 12/05/07 | natalie | 12/05/07 | natalie |

TestGroupName Cr (Hexavalent) 7196A
 Preparation Method: 3060
 Analytical Method: 7196A

| Analyte | Prep | | Analysis | |
|-----------------|----------|-----|----------|-----|
| | Date | By | Date | By |
| Cr (Hexavalent) | 12/06/07 | jad | 12/07/07 | jad |

TestGroupName Metals-Three 6010
 Preparation Method: 3005&10/3050
 Analytical Method: EPA 6010B

| Analyte | Prep | | Analysis | |
|----------|----------|-----|----------|----|
| | Date | By | Date | By |
| Antimony | 12/03/07 | srb | 12/04/07 | SB |
| Arsenic | 12/03/07 | srb | 12/04/07 | SB |
| Lead | 12/03/07 | srb | 12/04/07 | SB |

Lab#: AC34557-002 Sample ID: PE-10(8-14)

TestGroupName % Solids SM2540G
 Preparation Method: SM 2540G
 Analytical Method: SM 2540G

| Analyte | Prep | | Analysis | |
|----------|----------|---------|----------|---------|
| | Date | By | Date | By |
| % Solids | 12/05/07 | natalie | 12/05/07 | natalie |

TestGroupName Cr (Hexavalent) 7196A
 Preparation Method: 3060
 Analytical Method: 7196A

| Analyte | Prep | | Analysis | |
|-----------------|----------|-----|----------|-----|
| | Date | By | Date | By |
| Cr (Hexavalent) | 12/06/07 | jad | 12/07/07 | jad |

TestGroupName Metals-Three 6010
 Preparation Method: 3005&10/3050
 Analytical Method: EPA 6010B

| Analyte | Prep | | Analysis | |
|----------|----------|-----|----------|----|
| | Date | By | Date | By |
| Antimony | 12/03/07 | srb | 12/04/07 | SB |
| Arsenic | 12/03/07 | srb | 12/04/07 | SB |
| Lead | 12/03/07 | srb | 12/04/07 | SB |

Lab#: AC34557-003 Sample ID: PE-16(0-6)

TestGroupName % Solids SM2540G
 Preparation Method: SM 2540G
 Analytical Method: SM 2540G

| Analyte | Prep | | Analysis | |
|----------|----------|---------|----------|---------|
| | Date | By | Date | By |
| % Solids | 12/05/07 | natalie | 12/05/07 | natalie |

TestGroupName Cr (Hexavalent) 7196A
 Preparation Method: 3060
 Analytical Method: 7196A

| Analyte | Prep | | Analysis | |
|-----------------|----------|-----|----------|-----|
| | Date | By | Date | By |
| Cr (Hexavalent) | 12/06/07 | jad | 12/07/07 | jad |

TestGroupName Metals-Three 6010
 Preparation Method: 3005&10/3050
 Analytical Method: EPA 6010B

| Analyte | Prep | | Analysis | |
|----------|----------|-----|----------|----|
| | Date | By | Date | By |
| Antimony | 12/03/07 | srb | 12/04/07 | SB |
| Arsenic | 12/03/07 | srb | 12/04/07 | SB |
| Lead | 12/03/07 | srb | 12/04/07 | SB |

Lab#: AC34557-004 Sample ID: PE-21(12-18)

Lab#: AC34557-004 Sample ID: PE-21(12-18)

TestGroupName % Solids SM2540G
 Preparation Method: SM 2540G
 Analytical Method: SM 2540G

| Analyte | Prep | | Analysis | |
|----------|----------|---------|----------|---------|
| | Date | By | Date | By |
| % Solids | 12/05/07 | natalie | 12/05/07 | natalie |

TestGroupName Cr (Hexavalent) 7196A
 Preparation Method: 3060
 Analytical Method: 7196A

| Analyte | Prep | | Analysis | |
|-----------------|----------|-----|----------|-----|
| | Date | By | Date | By |
| Cr (Hexavalent) | 12/06/07 | jad | 12/07/07 | jad |

TestGroupName Metals-Three 6010
 Preparation Method: 3005&10/3050
 Analytical Method: EPA 6010B

| Analyte | Prep | | Analysis | |
|----------|----------|-----|----------|----|
| | Date | By | Date | By |
| Antimony | 12/03/07 | srb | 12/04/07 | SB |
| Arsenic | 12/03/07 | srb | 12/04/07 | SB |
| Lead | 12/03/07 | srb | 12/04/07 | SB |

METALS ANALYSIS NONCONFORMANCE SUMMARY

0007

- | | NO | YES |
|--|-------------------------------------|-------------------------------------|
| 1. Calibration summary meets criteria | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. ICP Interference Check Samples Results Summary Submitted, Meet Criteria (exclude Mercury) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Serial Dilution Summary Submitted, Meet Criteria (exclude Mercury) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <hr/> <hr/> | | |
| 4. Laboratory Control Sample Summary Submitted (if applicable) Meets Criteria | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Blank Contamination above RL - If Yes, list elements for each blank: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <hr/> <hr/> <hr/> | | |
| 6. Matrix Spike / Matrix Spike Duplicate Recoveries Meet Criteria (if not, list those elements which fall outside the acceptable range. The batch passed due to the LCS and LCS MR recoveries.) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <hr/> <hr/> <hr/> | | |
| 7. Sample duplicate RPDs Meet Criteria (if not, list those elements which fall outside the acceptable range. The batch passed due to the LCS and LCS MR recoveries.) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <hr/> <hr/> <hr/> | | |
| 8. Extraction Holding Time Met (if not, list number of days exceeded for each sample) | <input type="checkbox"/> | <input type="checkbox" value="NA"/> |
| <hr/> <hr/> <hr/> | | |
| 9. Analysis Holding Time Met (if not, list number of days exceeded for each sample) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <hr/> <hr/> <hr/> | | |

Additional Comments:

Metals Supervisor: Charles Miller Date: 12/16/07

Batch: 8581-8582 PeICP1

WET CHEMISTRY CONFORMANCE/ NONCONFORMANCE SUMMARY

VERITECH

NO YES

1. Blank Contamination? If yes, list the sample and the corresponding concentrations in each blank


2. Batch QC meets criteria? If not, list the Analysis with the batch number and corresponding recovery which falls outside the acceptable range.

3. IR Spectra submitted for all standards, blanks and sample?

4. Extraction Holding Time Met? If not, list number of days exceeded for each sample.

5. Analysis Holding Time Met? If not, list number of days exceeded for each sample.

Additional Comments:

Wet Chemistry Supervisor: 

Date: 12/19/07

Project Number: 7113024

METHOD REFERENCES

0009

| PARAMETER | METHOD | TECHNIQUE | PARAMETER | METHOD | TECHNIQUE |
|---------------------------------------|--------------------------|----------------------------------|---|--------------|---|
| DRINKING WATER PARAMETERS | | | SOLID HAZARDOUS WASTE PARAMETERS | | |
| Total coliform | SM 9221D + E | Presence/Absence | Specific Cond. | SW-846 9050A | Wheatstone Bridge |
| Total coli/E. coli | SM 9222 B/G | Membran Filtration/Enumeration | Phenols | SW-846 9065 | Colorimetric |
| Cyanide | SM 4500-CN-E | DistSpectrophotometric (man.) | Cyanide | SW-846 9014 | Titrimetric/Spectrophotometric |
| Cyanide | EPA 335.4 | Dist/Spectrophotometric (auto) | Chromium VI | SW-846 7196A | Colorimetric |
| VOA | EPA 524.2 | GC/MS | Metals | SW-846 6010B | ICP |
| Metals | EPA 200.8 | ICP/MS | Mercury (liquid) | SW-846 7470A | Manual Cold Vapor |
| Turbidity | EPA 180.1 | Nephelometric | Mercury (solid) | SW-846 7471A | Manual Cold Vapor |
| WATER POLLUTION PARAMETERS | | | EDB/DBCP | SW-846 8011 | Microextraction, GC, ECD |
| Fecal Coliform | SM 9222 D | Membrane Filtration | Alcohols/Glycols | SW-846 8015B | GC |
| Total Coliform | SM 9222 B | Membrane Filtration | Petroleum Organics | OQA QAM 25 | Extraction, GC, FID |
| Heterotrophic PC | SM 9215 B | Pour Plate | DRO | SW-846 8015B | Extraction, GC, FID |
| Acidity | SM 2310 B (4a) | Electrometric | GRO | SW8468015B m | GC/MS, Purge & Trap |
| Alkalinity | SM 2320 B | Electrometric | PCBs | SW-846 8082 | GC, Extraction, ECD |
| Ammonia | SM4500NH3B-18 | Distillation (prep) | Pesticides | SW-846 8081A | GC, Extraction, ECD |
| Ammonia | SM4500NH3C-18 | Nesslerization (analysis) | Herbicides | SW-846 8151A | GC, Extraction, ECD |
| BOD | SM 5210 B | DO Depletion | VOA | SW-846 8260B | GC/MS |
| Bromide | EPA 300.0 | Ion Chromatography | Semi-VOA | SW-846 8270C | Extraction, GC/MS |
| Calcium | EPA 200.7 | Digestion, ICP | Cyanide (T) | SW-846 9012A | Colorimetric (auto) |
| CBOD | SM 5210 B | DO Depletion, N Inhib. | Cyanide (T) | SW-846 9010C | Distillation |
| COD | HACH 8000 | Spectrophotometric, manual | Cyanide (Am) | SW-846 9010C | Distillation |
| Chloride | EPA 300.0 | Ion Chromatography | Sulfides | SW-846 9030B | Redox Titration |
| Cyanide (T) | EPA 335.4 | Dist/Spectrophotometric (auto) | Sulfides | SW-846 9034 | Titration |
| Cyanide (T) | SM4500-CN C/E | DistSpectrophotometric (man.) | Sulfate | SW-846 9056 | Ion Chromatography |
| Cyanide (Am) | SM4500-CN C/G | Distillation, Spectrophotometric | pH | SW-846 9040B | Elect, waste, >20% water |
| Cyanide (Am) | EPA 1677 | Flow Injection/Ligand Exchange | TOC | SW-846 9060 | Infrared Spectrometry |
| Fluoride | EPA 300.0 | Ion Chromatography | Oil & Grease hem | SW-846 1664A | Extraction and Gravimetric |
| Hardness | EPA 200.7 | Ca + Mg Carbonates, ICP | Nitrite | SW-846 9056 | Ion Chromatography |
| Hex Chrom | SM 3500-Cr D | Spectrophotometric | Nitrate | SW-846 9056 | Ion Chromatography |
| Magnesium | EPA 200.7 | Digestion, ICP | Bromide | SW-846 9056 | Ion Chromatography |
| Metals | EPA 200.7 | Digestion, ICP | Chloride | SW-846 9056 | Ion Chromatography |
| Mercury | EPA 245.1 | Manual, Cold Vapor | Fluoride | SW-846 9056 | Ion Chromatography |
| Metals | EPA 200.8 | ICP/MS | Ortho Phosphate | SW-846 9056 | Ion Chromatography |
| Nitrate | EPA 300.0 | Ion Chromatography | SOLID HAZARDOUS WASTE PREP | | |
| Nitrite | EPA 300.0 | Ion Chromatography | Metals, Total& Diss | SW-846 3005A | Acid Dig/Surface&GW, ICP |
| Oil & Grease | EPA 413.1 | Gravimetric | Metals, Total | SW-846 3010A | Acid Dig/Aq Samples, ICP |
| O & G HEM | EPA 1664A | Grav., Hexane Extractable | Metals | SW-846 3050B | Acid Dig, Soil Sediment, Sludge |
| Oil & Grease SGT | EPA 1664A | Grav., Silica Gel Treated, HEM | Metals | SW-846 3060A | Chromium VI Digestion |
| TPH | EPA 418.1 | Spectrophotometric, Infrared | Semi-VO | SW-846 3510C | Separatory Funnel Extraction |
| TOC | SM 5310 B | Combustion | Semi-VO | SW-846 3550B | Ultrasonic Extraction |
| Ortho Phosphate | EPA 300.0 | Ion Chromatography | Semi-VO | SW-846 3520C | Liquid-Liquid Extraction |
| Phenols | EPA 420.1 | Distillation, Colorimetric | Semi-VO | SW-846 3545 | Pressurized Fluid Extraction |
| Total Phosphorus | SM 4500-P B5+E | Persulfate Digestion | VO | SW-846 5030B | Purge & Trap Aqueous |
| Potassium | EPA 200.7 | Digestion, ICP | Organics | SW-846 3580A | Waste Dilution |
| Total Residue | SM 2540 B | Gravimetric, 103-105° C | Organics | SW-846 3585 | Waste Dilution, Volatile Organics |
| TDS | SM 2540 C | Gravimetric, 180° C | VO-low/high conc. | SW-8465035/h | Closed System Purge & Trap |
| TSS | SM 2540 D | Gravimetric, 103-105° C | Semi-VO | SW-846 3611B | Petroleum Waste, Cleanup Alumina |
| Settleable Solids | SM 2540 F | Volumetric, Imhoff Cone | Semi-VO | SW-846 3620B | Cleanup-Florisil |
| Volatile Solids | EPA 160.4 | Gravimetric, 550° C | Semi-VO | SW-846 3640A | Cleanup-Gel Permeation |
| Total, Fix, Vol Sol. | SM 2540 G | Gravimetric, 550° C | Semi-VO | SW-846 3650B | Cleanup-Acid/Base Partition |
| Salinity | SM 2520 B | Electrical Conductivity | Semi-VO | SW-846 3660B | Cleanup-Sulfur Removal |
| Sodium | EPA 200.7 | Digestion, ICP | Semi-VO | SW-846 3665A | Cleanup-Sulfuric Acid/KmnO ₄ |
| Specific Cond. | SM 2510 B | Wheatstone Bridge | CHARACTERISTICS OF HAZARDOUS WASTE | | |
| Sulfate | EPA 300.0 | Ion Chromatography | Ignitability | SW-846 1010 | Pensky Martens |
| Sulfides | SM 4500-S ² F | Titrimetric, Iodine | Corrosivity | SW-846 9040B | Aqueous Waste, Potentiometric |
| Turbidity | SM 2130 B | Nephelometric | Volatile Organics | SW-846 1311 | TCLP, Toxicity Procedure, ZHE |
| Pesticides | EPA 608 | Extraction/GC (ECD) | Metals-Semi VOA | SW-846 1311 | TCLP, Toxicity Procedure, Shaker |
| Herbicides | EPA 608 | Extraction/GC (ECD) | Metals-Organics | SW-846 1310A | EP Toxicity Test |
| Petroleum Org. | OQ QAM 5rev. 6 | Extraction, GC, FID | Metals-Organics | SW-846 1312 | Synthetic PPT Leachate Procedure |
| VOA | EPA 624 | GC/MS | Metals-Organics | SW-846 1320 | Multiple Extraction |
| Semi-VOA | EPA 625 | Extract, GC/MS | SOLID AND CHEMICAL MATERIALS | | |
| | | | Ignitability of Solids | SW-846 1030 | Burn Rate |
| | | | Reactivity | SW-846 7.3 | HCN, HS Release |
| ANALYZE IMMEDIATELY PARAMETERS | | | Cyanide | SW-846 9013 | Extraction, Oils and Solids |
| D.O. | SM 4500-O G | Electrode | EOX | SW-846 9023 | Extraction |
| pH | SM 4500-H ⁺ B | Electrometric | Sulfides-extractable | SW-846 9031 | Water extraction, Distillation |
| Temperature | SM 2550 B | Thermometric | O & G Sludge HEM | SW-846 9071 | Extraction and Gravimetric |
| pH | SW-846 9040B | Aqueous, Electrometric | Free Liquid | SW-846 9095 | Flow-through Paint Filtration (obs) |

Veritech Report Of Analysis

0010

| | |
|-------------------------------|------------------------------------|
| Lab#: AC34557-001 | Collection Date: 11/20/2007 |
| Sample ID: PE-6(12-18) | |

| TestGroup/Analyte | DF | Units | RL | Result |
|------------------------------|-----|---------|-----|--------|
| % Solids SM2540G | | | | |
| % Solids | 1 | percent | | 91 |
| Cr (Hexavalent) 7196A | | | | |
| Cr (Hexavalent) | 1 | mg/kg | 1.1 | ND |
| Metals-Three 6010 | | | | |
| Antimony | 100 | mg/kg | 2.2 | 4.7 |
| Arsenic | 100 | mg/kg | 2.2 | 10 |
| Lead | 100 | mg/kg | 5.6 | 300 |

| | |
|-------------------------------|------------------------------------|
| Lab#: AC34557-002 | Collection Date: 11/21/2007 |
| Sample ID: PE-10(8-14) | |

| TestGroup/Analyte | DF | Units | RL | Result |
|------------------------------|-----|---------|-----|--------|
| % Solids SM2540G | | | | |
| % Solids | 1 | percent | | 92 |
| Cr (Hexavalent) 7196A | | | | |
| Cr (Hexavalent) | 1 | mg/kg | 1.1 | ND |
| Metals-Three 6010 | | | | |
| Antimony | 100 | mg/kg | 2.2 | ND |
| Arsenic | 100 | mg/kg | 2.2 | 7.7 |
| Lead | 100 | mg/kg | 5.4 | 110 |

| | |
|------------------------------|------------------------------------|
| Lab#: AC34557-003 | Collection Date: 11/27/2007 |
| Sample ID: PE-16(0-6) | |

| TestGroup/Analyte | DF | Units | RL | Result |
|------------------------------|-----|---------|-----|--------|
| % Solids SM2540G | | | | |
| % Solids | 1 | percent | | 82 |
| Cr (Hexavalent) 7196A | | | | |
| Cr (Hexavalent) | 1 | mg/kg | 1.2 | ND |
| Metals-Three 6010 | | | | |
| Antimony | 100 | mg/kg | 2.4 | ND |
| Arsenic | 100 | mg/kg | 2.4 | 3.0 |
| Lead | 100 | mg/kg | 6.1 | 17 |

| | |
|--------------------------------|------------------------------------|
| Lab#: AC34557-004 | Collection Date: 11/30/2007 |
| Sample ID: PE-21(12-18) | |

| TestGroup/Analyte | DF | Units | RL | Result |
|------------------------------|-----|---------|-----|--------|
| % Solids SM2540G | | | | |
| % Solids | 1 | percent | | 77 |
| Cr (Hexavalent) 7196A | | | | |
| Cr (Hexavalent) | 1 | mg/kg | 1.3 | ND |
| Metals-Three 6010 | | | | |
| Antimony | 100 | mg/kg | 2.6 | ND |
| Arsenic | 100 | mg/kg | 2.6 | 17 |
| Lead | 100 | mg/kg | 6.5 | 180 |

Form1 Inorganic Analysis Data Sheet

Sample ID: AC34557-001
 Client Id: PE-6(12-18)
 Matrix: SOIL
 Level: LOW

% Solid: 91
 Units: MG/KG
 Date Rec: 11/30/2007

Lab Name: Veritech
 Lab Code:
 Contract:

Nras No:
 Sdg No:
 Case No:

| Cas No. | Analyte | RL | Conc | Dil Fact | Analysis Date: | Prep Batch | File: | Seq Num: | M | Instr |
|-----------|----------|-----|------|----------|----------------|------------|--------|----------|---|--------|
| 7440-36-0 | Antimony | 2.2 | 4.7 | 100 | 12/04/07 | 8582 | S8582A | 24 | P | PEICP1 |
| 7440-38-2 | Arsenic | 2.2 | 10 | 100 | 12/04/07 | 8582 | S8582A | 24 | P | PEICP1 |
| 7439-92-1 | Lead | 5.5 | 300 | 100 | 12/04/07 | 8582 | S8582A | 24 | P | PEICP1 |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

Form1

Inorganic Analysis Data Sheet

Sample ID: AC34557-002
 Client Id: PE-10(8-14)
 Matrix: SOIL
 Level: LOW

% Solid: 92
 Units: MG/KG
 Date Rec: 11/30/2007

Lab Name: Veritech
 Lab Code:
 Contract:

Nras No:
 Sdg No:
 Case No:

| Cas No. | Analyte | RL | Conc | Dil Fact | Analysis Date: | Prep Batch | File: | Seq Num: | M | Instr |
|-----------|----------|-----|------|----------|----------------|------------|--------|----------|---|--------|
| 7440-36-0 | Antimony | 2.2 | ND | 100 | 12/04/07 | 8582 | S8582A | 25 | P | PEICP1 |
| 7440-38-2 | Arsenic | 2.2 | 7.7 | 100 | 12/04/07 | 8582 | S8582A | 25 | P | PEICP1 |
| 7439-92-1 | Lead | 5.4 | 110 | 100 | 12/04/07 | 8582 | S8582A | 25 | P | PEICP1 |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

Form1 Inorganic Analysis Data Sheet

Sample ID: AC34557-003
 Client Id: PE-16(0-6)
 Matrix: SOIL
 Level: LOW

% Solid: 82
 Units: MG/KG
 Date Rec: 11/30/2007

Lab Name: Veritech
 Lab Code:
 Contract:

Nras No:
 Sdg No:
 Case No:

| Cas No. | Analyte | RL | Conc | Dil Fact | Analysis Date: | Prep Batch | File: | Seq Num: | M | Instr |
|-----------|----------|-----|------|----------|----------------|------------|--------|----------|---|--------|
| 7440-36-0 | Antimony | 2.4 | ND | 100 | 12/04/07 | 8582 | S8582A | 28 | P | PEICP1 |
| 7440-38-2 | Arsenic | 2.4 | 3.0 | 100 | 12/04/07 | 8582 | S8582A | 28 | P | PEICP1 |
| 7439-92-1 | Lead | 6.1 | 17 | 100 | 12/04/07 | 8582 | S8582A | 28 | P | PEICP1 |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

Form1
Inorganic Analysis Data Sheet

Sample ID: AC34557-004
Client Id: PE-21(12-18)
Matrix: SOIL
Level: LOW

% Solid: 77
Units: MG/KG
Date Rec: 11/30/2007

Lab Name: Veritech
Lab Code:
Contract:

Nras No:
Sdg No:
Case No:

| Cas No. | Analyte | RL | Conc | Dil Fact | Analysis Date: | Prep Batch | File: | Seq Num: | M | Instr |
|-----------|----------|-----|------|----------|----------------|------------|--------|----------|---|--------|
| 7440-36-0 | Antimony | 2.6 | ND | 100 | 12/04/07 | 8582 | S8582A | 29 | P | PEICP1 |
| 7440-38-2 | Arsenic | 2.6 | 17 | 100 | 12/04/07 | 8582 | S8582A | 29 | P | PEICP1 |
| 7439-92-1 | Lead | 6.5 | 180 | 100 | 12/04/07 | 8582 | S8582A | 29 | P | PEICP1 |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit

VERITECH Wet Chem Form1 Analysis Summary

| | |
|------------------------------|---------------------------|
| Lab#: AC34557-001 | Project Number: 7113024 |
| Matrix Soil | Received Date: 11/30/2007 |
| Client SampleID: PE-6(12-18) | Collect Date: 11/20/2007 |

| Analysis | TestGroup | Dilution: | Result | Units: | PQL: | Prep Date: | Analysis Date: |
|-----------------|-----------|-----------|--------|--------|------|------------|----------------|
| Cr (Hexavalent) | CR6-SOIL | 1 | ND | mg/kg | 1.1 | 12/06/07 | 12/07/07 |

| | |
|------------------------------|---------------------------|
| Lab#: AC34557-002 | Project Number: 7113024 |
| Matrix Soil | Received Date: 11/30/2007 |
| Client SampleID: PE-10(8-14) | Collect Date: 11/21/2007 |

| Analysis | TestGroup | Dilution: | Result | Units: | PQL: | Prep Date: | Analysis Date: |
|-----------------|-----------|-----------|--------|--------|------|------------|----------------|
| Cr (Hexavalent) | CR6-SOIL | 1 | ND | mg/kg | 1.1 | 12/06/07 | 12/07/07 |

| | |
|-----------------------------|---------------------------|
| Lab#: AC34557-003 | Project Number: 7113024 |
| Matrix Soil | Received Date: 11/30/2007 |
| Client SampleID: PE-16(0-6) | Collect Date: 11/27/2007 |

| Analysis | TestGroup | Dilution: | Result | Units: | PQL: | Prep Date: | Analysis Date: |
|-----------------|-----------|-----------|--------|--------|------|------------|----------------|
| Cr (Hexavalent) | CR6-SOIL | 1 | ND | mg/kg | 1.2 | 12/06/07 | 12/07/07 |

| | |
|-------------------------------|---------------------------|
| Lab#: AC34557-004 | Project Number: 7113024 |
| Matrix Soil | Received Date: 11/30/2007 |
| Client SampleID: PE-21(12-18) | Collect Date: 11/30/2007 |

| Analysis | TestGroup | Dilution: | Result | Units: | PQL: | Prep Date: | Analysis Date: |
|-----------------|-----------|-----------|--------|--------|------|------------|----------------|
| Cr (Hexavalent) | CR6-SOIL | 1 | ND | mg/kg | 1.3 | 12/06/07 | 12/07/07 |

VERITECH Wet Chem Form1 Analysis Summary
% Solids

0016

TestGroupName: % Solids SM2540G
TestGroup: %SOLIDS

Project #: 7113024

| Lab# | Client SampleID | Matrix | Dilution: | Result | Units: | PQL | Prep Date | Analysis Date | Received Date | Collect Date |
|-------------|-----------------|--------|-----------|--------|---------|-----|-----------|---------------|---------------|--------------|
| AC34557-001 | PE-6(12-18) | Soil | 1 | 91 | Percent | | | 12/05/07 | 11/30/07 | 11/20/07 |
| AC34557-002 | PE-10(8-14) | Soil | 1 | 92 | Percent | | | 12/05/07 | 11/30/07 | 11/21/07 |
| AC34557-003 | PE-16(0-6) | Soil | 1 | 82 | Percent | | | 12/05/07 | 11/30/07 | 11/27/07 |
| AC34557-004 | PE-21(12-18) | Soil | 1 | 77 | Percent | | | 12/05/07 | 11/30/07 | 11/30/07 |

FORM 2 (ICV/CCV Summary)

Date Analyzed: 12/04/07
 Data File: S8582A
 Prep Batch: 8582
 Analytical Method: 6010B(ICP)/7470A,7471A(Hg)
 Instrument: PEICP1
 Units: All units in ppm except Hg and icp-ms in ppb
 Project Number: 7113024

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:
 ICV/CCV SOURCE: VHG LABS

| Analyte | Spk Amt | ICV V- | CCV V- | CCV V- | CCV V- | | | | | | | | | | | | |
|----------|------------|----------------|----------|----------|----------|----------|-----|----------|-----|-----|-----|-----|-----|-----|-----|--|--|
| | | 34010 (2)-6 | 34011-18 | 34011-26 | 34011-35 | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec | | |
| Antimony | .5 | 1.00500 | 100 | 0.518675 | 104 | 0.517882 | 104 | 0.512351 | 102 | | | | | | | | |
| Arsenic | .5 | 0.990312 | 99 | 0.506965 | 101 | 0.507697 | 102 | 0.502539 | 101 | | | | | | | | |
| Lead | .5 | 0.997939 | 100 | 0.523748 | 105 | 0.522330 | 104 | 0.516103 | 103 | | | | | | | | |

Notes: a-indicates analyte failed the ICV limits for 6010B
 b-indicates analyte failed the ICV limits for 200.7 or 200.8
 c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B (Except Hg 7470A,7471A)
 d-indicates analyte failed the CCV limits for 6010B
 ICV- Concentration is 2x the CCV concentration except CLP (1.5x).

Qc Limits: ICV - 200.7 : 95-105
 CCV- 200.7/200.8/6010B/245.1 : 90-110 (Except Hg 7470A/ 7471A=80-120)
 ICV -6010B/200.8 : 90-110
 CLP ICP ICV/CCV: 90-110
 CLP Hg ICV/CCV: 80-120

FORM 3 (ICB/CCB/MB Summary)

Date Analyzed: 12/04/07
 Data File: S8582A
 Prep Batch: 8582
 Reporting Limits Used: AQUEOUS,6010B(ICP)/7470A,7471A(Hg)
 Instrument: PEICP1
 Units: All units in ppm except Hg and icp-ms in ppb
 Project Number: 7113024

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:

| Analyte | ICB V-34710-7 | CCB-19 | CCB-27 | CCB-36 | MB 8582 (100)- 10 | MB FB (1)-30 | | |
|----------|---------------|--------|--------|--------|----------------------|--------------|--|--|
| Antimony | .02 U | .02 U | .02 U | .02 U | 2 U | .02U | | |
| Arsenic | .02 U | .02 U | .02 U | .02 U | 2 U | .02U | | |
| Lead | .05 U | .05 U | .05 U | .05 U | 5 U | .05U | | |

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
 u-indicates result below reporting limit

FORM 4 (ICSA/ICSAB Summary)

Date Analyzed: 12/04/07
 Data File: S8582A
 Prep Batch: 8582
 Reporting Limits Used: AQUEOUS,6010B(ICP)/7470A,7471A(Hg)
 Instrument: PEICP1
 Units: ppm
 Project Number: 7113024

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:
 ICSA/ICSAB: SOURCE: VHG LABS

| Analyte | Spk Amt | ICSA V-34012-8 | | ICSAB V-34103-9 | | ICSA V-34012-33 | | ICSAB V-34103-34 | | Rec | Rec | Rec | Rec |
|-----------|---------|----------------|-----|-----------------|-----|-----------------|-----|------------------|-----|-----|-----|-----|-----|
| | | Rec | Rec | Rec | Rec | Rec | Rec | | | | | | |
| Aluminum | 500 | 453.897 | 91 | 474.05700 | 95 | 461.722 | 92 | 474.34000 | 95 | | | | |
| Antimony | 1 | U | | 0.98143 | 98 | U | | 1.00272 | 100 | | | | |
| Arsenic | 1 | U | | 0.97854 | 98 | U | | 0.99844 | 100 | | | | |
| Calcium | 500 | 433.14 | 87 | 443.72200 | 89 | 425.304 | 85 | 434.76100 | 87 | | | | |
| Iron | 200 | 171.884 | 86 | 177.72800 | 89 | 175.1 | 88 | 179.20900 | 90 | | | | |
| Lead | 1 | U | | 0.90577 | 91 | U | | 0.91481 | 91 | | | | |
| Magnesium | 500 | 478.653 | 96 | 493.57400 | 99 | 469.549 | 94 | 483.17300 | 97 | | | | |

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
 b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
 c-indicates the recovery failed the Qc Criteria in the ICSAB
 u-indicates the absolute value of the concentration was below the reporting limit

FORM 5/FORM 7 SPIKE/LCS RECOVERY

Date Analyzed: 12/04/07
 Data File: S8582A
 Prep Batch: 8582
 Analytical Method: 6010B(ICP)/7470A,7471A(Hg)
 Instrument: PEICP1
 Units: All units in ppm except Hg and icp-ms in ppb
 Project Number: 7113024
 MATRIX SPIKE SOURCE: VHG LABS

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:
 Matrix: SOIL
 Level: Low

| Analyte | Spike Amts | | LCS Soil/Aqueous Rec Limits | Non Spike Conc AC34576- 025-13 | AC34576- 025-15-1X | %REC OR Conc | AC34576- 025-16-1X | %REC OR Conc | LCS 100- 11-1X | %REC OR Conc | LCS 100 MR-12-1X | %REC OR Conc | LCSW-31- 1X | %REC OR Conc |
|----------|-----------------------------|-------------------|-----------------------------------|---|-----------------------|--------------------|-----------------------|--------------------|-------------------|--------------------|---------------------|--------------------|----------------|--------------------|
| | MS-Tclp MS-Aq MS-soil | LCS Soil Aq | | | | | | | | | | | | |
| Antimony | .5000 | 0.500 | 75 - 125 | 0.02 U | 0.416699 | 83 | 0.418903 | 84 | 1.82065 | 1.82 | 1.78023 | 1.78 | 0.491325 | 98 |
| Arsenic | .5000 | 0.500 | 75 - 125 | 0.0867422 | 0.58665 | 100 | 0.57814 | 98 | 2.87912 | 2.88 | 2.80684 | 2.81 | 0.481315 | 96 |
| Lead | 0.500 | 0.500 | 75 - 125 | 0.06572 | 0.584541 | 104 | 0.581105 | 103 | 0.776896 | .777 | 0.735302 | .735 | 0.506121 | 101 |

MS Qc Limits:

| EPA600: | SW846 | CLP |
|------------|---|-----------|
| MS: 70-130 | MS TCLP: >50% MS soil/aqueous:75-125 | MS:75-125 |

Flags:

U: Conc < Reporting Limit
 a: Recovery Failed Specified Limit
 b: Recovery Failed Specified Limit but Non Spike
 concentration > 4* spike amount

Note: All Elements analyzed by ICP(P) or ICP-MS except Mercury(CV)

FORM6/FORM9 RPDS

Date Analyzed: 12/04/07
 Data File: S8582A
 Prep Batch: 8582
 Analytical Method: 6010B(ICP)/7470A,7471A(Hg)
 Instrument: PEICP1
 Units: All units in ppm except Hg and icp-ms in ppb
 Project Number: 7113024

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:

| Analyte | Qc Limits | | Sample | Method Rep | | LCS | LCS MR | | Sample | Serial Dil | |
|----------|-----------|------|----------------|----------------|-----|------------|---------------|-----|----------------|----------------|-------|
| | LCS/MR | SD | AC34576-025-13 | AC34576-025-14 | RPD | LCS 100-11 | LCS 100 MR-12 | RPD | AC34576-026-20 | AC34576-026-21 | %Diff |
| Antimony | <=20 | <=10 | 0.02 U | 0.02 U | --- | | | | 0.00357 U | 0.01785 U | --- |
| Arsenic | <=20 | <=10 | 0.0867422 | 0.0933014 | 7.3 | | | | 0.179069 | 0.1887715 | 5.4 |
| Lead | <=20 | <=10 | 0.0657200 | 0.0602828 | 8.6 | | | | 0.0875328 | 0.082015 | 6.3 |

Flags:

Na: Method Rep outside of Qc Limits
 Nb: Method Rep out but concentrations < 5* Reporting Limits
 U: Conc < Reporting Limit (Method Rep) or < IDL (serial Dilution)
 Lm: Lcs Rpd Out

Sa: Serial Dilution outside of qc limits
 Sb: Serial dilution out but concentration < 10 * IDL
 E: Serial Dilution outside of qc limits CLP

MDL / RL SUMMARY
SOIL SW846
PE ICP 1

| ELEMENT | MDL | Reporting Limits (Mg/Kg) |
|----------------|------------|-------------------------------------|
| Al | 0.0287 | 200 |
| Sb | 0.0032 | 2 |
| As | 0.00536 | 2 |
| Ba | 0.00022 | 10 |
| Be | 0.0000485 | 0.6 |
| Cd | 0.000142 | 0.6 |
| Ca | 0.037 | 1000 |
| Cr | 0.000693 | 5 |
| Co | 0.000394 | 2.5 |
| Cu | 0.00116 | 5 |
| Fe | 0.0168 | 200 |
| Pb | 0.00292 | 5 |
| Mg | 0.0208 | 500 |
| Mn | 0.0011 | 10 |
| Mo | 0.000467 | 2.5 |
| Ni | 0.000556 | 5 |
| Se | 0.0029 | 1.8 |
| Ag | 0.000516 | 1.5 |
| Tl | 0.00363 | 1.2 |
| Sn | 0.00506 | 5.7 |
| Ti | 0.000172 | 35 |
| V | 0.000456 | 10 |
| Zn | 0.00105 | 10 |

Sb, Co, Cu, Ni, Ti, Zn analyzed on 11/07/07. Ca and V analyzed on 11/08/07. Mn analyzed on 11/13/07. Mg, Mo, Fe analyzed on 11/15/07. All other elements analyzed 11/06/07.

Calibration Curve Information

Qc Summary Results

| Qc Type | Qc Name | SpkAmt | Rec Lim | Rpd Lim | Raw Result | Recov | Rpd | Flags |
|---------|-------------|--------|---------|---------|------------|-------|-----|-------|
| DUP | AC34376-001 | NA | NA | 5 | 81.22807 | NA | 2.3 | |

0023

| Sam # | Type | MB | Result | Per Mdl | Sol | Raw Result | Tare Wt | Tare Wet | Tare Dry | Prep Date | Prep By | Anal Date | Anal By |
|-------------|--------|----|--------|---------|-----|------------|---------|----------|----------|-----------|---------|-----------|---------|
| AC34376-001 | DUP | | 81 | | | 81.228 | 1.09 | 12.49 | 10.35 | | | 12/05/07 | natalie |
| AC34376-001 | Sample | | 79 | | | 79.343 | 1.07 | 12.64 | 10.25 | | | 12/05/07 | natalie |
| AC34513-001 | Sample | | 86 | | | 85.939 | 1.05 | 12.5 | 10.89 | | | 12/05/07 | natalie |
| AC34513-002 | Sample | | 88 | | | 88.398 | 1.08 | 12.63 | 11.29 | | | 12/05/07 | natalie |
| AC34513-003 | Sample | | 86 | | | 85.613 | 1.05 | 12.38 | 10.75 | | | 12/05/07 | natalie |
| AC34513-004 | Sample | | 88 | | | 87.576 | 1.12 | 12.63 | 11.2 | | | 12/05/07 | natalie |
| AC34554-001 | Sample | | 93 | | | 93.143 | 1.1 | 12.33 | 11.56 | | | 12/05/07 | natalie |
| AC34554-002 | Sample | | 94 | | | 93.794 | 1.1 | 12.38 | 11.68 | | | 12/05/07 | natalie |
| AC34557-001 | Sample | | 91 | | | 90.893 | 1.05 | 12.14 | 11.13 | | | 12/05/07 | natalie |
| AC34557-002 | Sample | | 92 | | | 91.878 | 1.07 | 12.52 | 11.59 | | | 12/05/07 | natalie |
| AC34557-003 | Sample | | 82 | | | 81.74 | 1.06 | 12.67 | 10.55 | | | 12/05/07 | natalie |
| AC34557-004 | Sample | | 77 | | | 76.642 | 1.07 | 12.03 | 9.47 | | | 12/05/07 | natalie |
| AC34558-001 | Sample | | 51 | | | 50.95 | 1.02 | 12.6 | 6.92 | | | 12/05/07 | natalie |
| AC34559-001 | Sample | | 75 | | | 75.226 | 1.06 | 12.12 | 9.38 | | | 12/05/07 | natalie |
| AC34559-002 | Sample | | 78 | | | 78.4 | 1.05 | 12.3 | 9.87 | | | 12/05/07 | natalie |
| AC34559-003 | Sample | | 72 | | | 71.936 | 1.1 | 12.36 | 9.2 | | | 12/05/07 | natalie |
| AC34559-004 | Sample | | 75 | | | 75.225 | 1.07 | 12.17 | 9.42 | | | 12/05/07 | natalie |
| AC34559-005 | Sample | | 68 | | | 67.614 | 1.05 | 12.66 | 8.9 | | | 12/05/07 | natalie |
| AC34559-006 | Sample | | 65 | | | 65.351 | 1.06 | 12.46 | 8.51 | | | 12/05/07 | natalie |
| AC34560-001 | Sample | | 80 | | | 80.218 | 1.08 | 12.1 | 9.92 | | | 12/05/07 | natalie |
| AC34560-002 | Sample | | 91 | | | 91.011 | 1.06 | 12.63 | 11.59 | | | 12/05/07 | natalie |

NW
12/5

Hex-Cr Soil

| Hex-Cr Soil | | | | Q.C. DATA | | | | | | | |
|-----------------------|----------|----------|-----------|--------------|---------------|---------------|-----------------|----------------|--------------|-----------------|-----------------|
| Batch# | 183 | | | | | | | | | | |
| Date | 12/06/07 | | | | | Spike Amount | Result | Theoretical | % REC | Limits | |
| Analyst | jad | | | | | PPM | PPM | PPM | | | |
| | | | | MBS | 20.00 | 17.44 | 20.00 | 87% | 80-120% | | |
| | | | | MS | 21.98 | 18.08 | 21.98 | 82% | 75-125% | | |
| | | | | MSD | 21.98 | 18.01 | 21.98 | 82% | 75-125% | | |
| | | | | PVS | 43.96 | 39.95 | 43.96 | 91% | 85-115% | | |
| | | | | Sample | AC34557-001QC | -0.27 | | | | | |
| Lead Chromate Added : | 0.0184 | g | | Sample Dup | | -0.21 | RPD | NA | 20% | | |
| | | | | Insoluble | 1301.27 | 1080.23 | 1301.27 | 83% | 75-125% | | |
| ----- | | | | | | | | | | | |
| ICV Data | ABS | Turb ABS | Crct. ABS | PPM | Solid Factor | Sample wt (g) | Dilution Factor | Final vol (mL) | Hex-Cr (ppm) | True Value(ppm) | % REC (90-110%) |
| ICV V-11860 | 0.210 | 0.000 | 0.210 | 0.290083352 | 1 | 1 | 1 | 1 | 0.290 | 0.284 | 102 |
| Samples # | ABS | Turb ABS | Crct. ABS | PPM | Solid Factor | Sample wt (g) | Dilution Factor | Final vol (mL) | Hex-Cr (ppm) | MDL | |
| CCB | 0.002 | 0.000 | 0.002 | -0.013505496 | 1 | 1 | 1 | 1 | -0.014 | | |
| MB | 0.004 | 0.000 | 0.004 | -0.010586373 | 1 | 2.5 | 1 | 100 | -0.423 | 1.000 | |
| MBS | 0.310 | 0.000 | 0.310 | 0.436039528 | 1 | 2.5 | 1 | 100 | 17.442 | 1.000 | |
| AC34557-001QC | 0.025 | 0.018 | 0.007 | -0.006207687 | 0.91 | 2.5 | 1 | 100 | -0.273 | 1.099 | |
| AC34557-001DUP | 0.028 | 0.020 | 0.008 | -0.004748126 | 0.91 | 2.5 | 1 | 100 | -0.209 | 1.099 | |
| AC34557-001MS | 0.311 | 0.018 | 0.293 | 0.411226978 | 0.91 | 2.5 | 1 | 100 | 18.076 | 1.099 | |
| AC34557-001MSD | 0.310 | 0.018 | 0.292 | 0.409767416 | 0.91 | 2.5 | 1 | 100 | 18.012 | 1.099 | |
| AC34557-001PVS | 0.650 | 0.016 | 0.634 | 0.908937541 | 0.91 | 2.5 | 1 | 100 | 39.953 | 1.099 | |
| AC34557-001INSOL | 0.360 | 0.012 | 0.348 | 0.491502875 | 0.91 | 2.5 | 50 | 100 | 1080.226 | 54.945 | |
| AC34557-002 | 0.024 | 0.017 | 0.007 | -0.006207687 | 0.92 | 2.5 | 1 | 100 | -0.270 | 1.087 | |
| AC34557-003 | 0.020 | 0.013 | 0.007 | -0.006207687 | 0.82 | 2.5 | 1 | 100 | -0.303 | 1.220 | |
| CCV | 0.330 | 0.000 | 0.330 | 0.465230764 | 1 | 2.5 | 1 | 100 | 18.609 | 1.000 | 93 |
| CCB | 0.002 | 0.000 | 0.002 | -0.013505496 | 1 | 2.5 | 1 | 100 | -0.540 | 1.000 | |
| AC34557-004 | 0.067 | 0.040 | 0.027 | 0.022983548 | 0.77 | 2.5 | 1 | 100 | 1.194 | 1.299 | |
| AC34558-001 | 0.066 | 0.060 | 0.006 | -0.007667249 | 0.51 | 2.5 | 1 | 100 | -0.601 | 1.961 | |
| AC34567-001 | 0.018 | 0.016 | 0.002 | -0.013505496 | 0.83 | 2.5 | 1 | 100 | -0.651 | 1.205 | |
| CCV | 0.325 | 0.000 | 0.325 | 0.457932955 | 1 | 2.5 | 1 | 100 | 18.317 | 1.000 | 92 |
| CCB | 0.002 | 0.000 | 0.002 | -0.013505496 | 1 | 2.5 | 1 | 100 | -0.540 | 1.000 | |

18
12/11/07

Hex-Cr Soil

| Cr6 soil curve | Date | 12/6/2007 | Batch # 183 | | | | | | |
|------------------------------|--------------|----------------|----------------|-------------|----------------|-------------|-------------|-------------|-------------|
| STD ppm | ABS | | | | | | | | |
| 0 | 0.005 | Intercept | Constant | 0.011253117 | | | | | |
| 0.025 | 0.030 | Slope | X Coefficients | 0.685137157 | | | | | |
| 0.05 | 0.050 | | | | | | | | |
| 0.25 | 0.185 | | | | | | | | |
| 0.5 | 0.351 | | | | | | | | |
| 0.75 | 0.525 | | | | | | | | |
| 1 | 0.697 | | | | | | | | |
| ***** | | | | | | | | | |
| STD mg/L | ABS | | PPM | DIFF | | | | | |
| 0 | 0.005 | -0.009126811 | 0.009126811 | | | | | | |
| 0.025 | 0.030 | 0.027362233 | -0.002362233 | | | | | | |
| 0.05 | 0.050 | 0.056553469 | -0.006553469 | | | | | | |
| 0.25 | 0.185 | 0.253594307 | -0.003594307 | | | | | | |
| 0.5 | 0.351 | 0.495881561 | 0.004118439 | | | | | | |
| 0.75 | 0.525 | 0.749845308 | 0.000154692 | | | | | | |
| 1 | 0.697 | 1.000889932 | -0.000889932 | | | | | | |
| ***** | | | | | | | | | |
| SUMMARY OUTPUT | | | | | | | | | |
| <i>Regression Statistics</i> | | | | | | | | | |
| Multiple R | 0.999912717 | | | | | | | | |
| R Square | 0.999825442 | | | | | | | | |
| Adjusted R Square | 0.99979053 | | | | | | | | |
| Standard Error | 0.003906162 | | | | | | | | |
| Observations | 7 | | | | | | | | |
| ANOVA | | | | | | | | | |
| | df | SS | MS | F | Significance F | | | | |
| Regression | 1 | 0.436973138 | 0.436973138 | 28638.75596 | 1.36696E-10 | | | | |
| Residual | 5 | 7.62905E-05 | 1.52581E-05 | | | | | | |
| Total | 6 | 0.437049429 | | | | | | | |
| | Coefficients | Standard Error | t Stat | P-value | Lower 95% | Upper 95% | Lower 95.0% | Upper 95.0% | Upper 95.0% |
| Intercept | 0.011253117 | 0.002097074 | 5.366105027 | 0.003024277 | 0.005862427 | 0.016643808 | 0.005862427 | 0.016643808 | 0.016643808 |
| X Variable 1 | 0.685137157 | 0.004048559 | 169.2298909 | 1.36696E-10 | 0.674730023 | 0.695544292 | 0.674730023 | 0.695544292 | 0.695544292 |

MS
12/11/07

HEXAVALENT CHROMIUM PREPARATION DATA SHEET
(SOIL SAMPLES ONLY)

Method 3060A

Batch: 143

Reviewed By: [Signature]

Date: 12/11/07

| Laboratory Sample No. | Sample Wt (g) | Final Vol (ml) | pH 7.5 ± 0.5 | Digestion Time (Start / Finish) | Hot Plate Temp. 1 | Hot Plate Temp. 2 | Date | Analyst |
|-----------------------|---------------|----------------|-----------------|------------------------------------|-------------------|-------------------|---------|---------|
| MB | 2.5 | 100 | 7.25 | 13:00 - 14:00 | 91.2 | 94.6 | 12-6-07 | JAD |
| MBS | ↓ | ↓ | 8.00 | ↓ | ↓ | ↓ | ↓ | ↓ |
| QC Sample | | | 7.72 | | | | | |
| 34557-001 | | | 7.56 | | | | | |
| DUP | | | 7.34 | | | | | |
| MS | | | 7.52 | | | | | |
| MSD | | | 7.67 | | | | | |
| PVS | | | 7.23 | | | | | |
| INS | | | 7.05 | | | | | |
| 34557-002 | | | 7.35 | | | | | |
| -003 | | | 7.42 | | | | | |
| -004 | 7.36 | | | | | | | |
| 34556-001 | ↓ | ↓ | 7.54 | ↓ | ↓ | ↓ | ↓ | |
| 34567-001 | ↓ | ↓ | | ↓ | ↓ | ↓ | ↓ | |
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Spike Volume 1ml & Lot #
v- 30325

| Reagent | Lot #: |
|--------------------------|----------|
| Digestion Solution | v- 35709 |
| Phosphate Buffer | v- 35547 |
| MgCl ₂ | # 20360 |
| Lead Chromate (PbCr) | # 1488 |
| Weight of PbCr (10-20mg) | 14.4 mg |

PVS Volume 2 ml
Sample chosen for PVS should be
Spiked at 40 mg/Kg. If sample is
>40 mg/Kg, use 2X.

HEXAVALENT CHROMIUM ANALYSIS DATA SHEET (SOIL SAMPLES ONLY)

Method 7196A

Calibration Curve

Table with 6 columns: Conc., Abs, Abs pH, Turb, Turb pH, Lot #. Rows include 0.0 to 1.0 concentration, ICV, and CCB values.

Batch # 163

Analyst JH

Date 12-7-07

Reviewed by [Signature]

Date 12/11/07

ICV/CCV (T.V. = 294) D.F. 1

Main data table with columns: ID, D.F., Abs 540nm, Abs pH, Turb Blank, Turb Blank pH. Contains sample IDs 34557-001 to 34567-001 and control samples CCV and CCB.

Empty data table with columns: ID, D.F., Abs 540nm, Abs pH, Turb Blank, Turb Blank pH.

Veritech Standard Receipt Log

0028

Veritech Control/Receipt Number: 1488

| |
|---------------|
| Description |
| Lead Chromate |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| EM Science | LX0145-1 | 41141130 | 12/20/05 | 12/19/08 | Miller, Gael E. | 1 | 500g | neat | neat |

Veritech Control/Receipt Number: 2836

| |
|--------------------|
| Description |
| Magnesium Chloride |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Fisher | M35-212 | 066067 | 11/01/07 | 10/31/10 | Miller, Gael E. | 1 | 2.5kg | neat | neat |

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-30325

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------|---------------------------|-----------------------|-------------|------------|
| Description: 50 ppm Hex Cr | | BatchNumber: | | |
| Prep Date: 8/10/2007 | | Concentration: 50 ppm | | |
| Expiration Date: 2/9/2008 | | Final Volume: 1000 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1382 | Potassiu Dichromate | .1414 g | neat neat | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-35547

| Prepared By: Mehta, Prashant P. | | Department: WetChem | | |
|---------------------------------|-------------------------------|--------------------------------|-------------|------------|
| Description: Phosphate Buffer | | BatchNumber: | | |
| Prep Date: 11/27/2007 | | Concentration: Reagent reagent | | |
| Expiration Date: 5/26/2008 | | Final Volume: 500 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1396 | Potassium Phosphate Monobasic | 34.02 g | neat neat | |
| 1318 | Potassium Phosphate | 43.545 g | neat neat | |

Veritech Lot Number: V-35709

| Prepared By: Trivedi, Beena | | Department: WetChem | | |
|-------------------------------------|---------------------------|--------------------------------|-------------|------------|
| Description: Cr6 digestion solution | | BatchNumber: | | |
| Prep Date: 11/28/2007 | | Concentration: Reagent reagent | | |
| Expiration Date: 5/28/2008 | | Final Volume: 2000 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2499 | Sodium Carbonate | 60 g | neat neat | |
| 2709 | sodium hydroxide | 40 g | neat neat | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-36145

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------------|---------------------------|----------------------|-------------|------------|
| Description: 5 ppm working solution | | BatchNumber: | | |
| Prep Date: 12/6/2007 | | Concentration: 5 ppm | | |
| Expiration Date: 12/6/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1016 | DI water (fill to volume) | | | |
| V-30325 | 50 ppm Hex Cr | 10 ml | 50 ppm | |

Veritech Lot Number: V-36263

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|--------------------------|-----------------|------------|
| Description: 0.025 ppm | | BatchNumber: | | |
| Prep Date: 12/6/2007 | | Concentration: 0.025 ppm | | |
| Expiration Date: 12/6/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-36145 | 5 ppm working solution | .5 ml | 5 ppm | |
| 1016 | DI water (fill to volume) | | | |
| V-35709 | Cr6 digestion solution | 50 ml | Reagent reagent | |

Veritech Internally Prepared Standard Log

0030

Veritech Lot Number: V-36264

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|-------------------------|--------------|------------|
| Description: 0.05 ppm | | BatchNumber: | | |
| Prep Date: 12/6/2007 | | Concentration: 0.05 ppm | | |
| Expiration Date: 12/6/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-35709 | Cr6 digestion solution | 50 ml | Reagent reag | |
| V-36145 | 5 ppm working solution | 1 ml | 5 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-36265

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------|---------------------------|-------------------------|-------------|------------|
| Description: 0.25 ppm | | BatchNumber: | | |
| Prep Date: 12/6/2007 | | Concentration: 0.25 ppm | | |
| Expiration Date: 12/6/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-36145 | 5 ppm working solution | 5 ml | 5 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-36266

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|------------------------|--------------|------------|
| Description: 0.5 ppm | | BatchNumber: | | |
| Prep Date: 12/6/2007 | | Concentration: 0.5 ppm | | |
| Expiration Date: 12/6/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-35709 | Cr6 digestion solution | 50 ml | Reagent reag | |
| 1016 | DI water (fill to volume) | | | |
| V-36145 | 5 ppm working solution | 10 ml | 5 ppm | |

Veritech Lot Number: V-36267

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|-------------------------|--------------|------------|
| Description: 0.75 ppm | | BatchNumber: | | |
| Prep Date: 12/6/2007 | | Concentration: 0.75 ppm | | |
| Expiration Date: 12/6/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-36145 | 5 ppm working solution | 15 ml | 5 ppm | |
| V-35709 | Cr6 digestion solution | 50 ml | Reagent reag | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-36268

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------|---------------------------|------------------------|-------------|------------|
| Description: 1 ppm | | BatchNumber: | | |
| Prep Date: 12/6/2007 | | Concentration: 1.0 ppm | | |
| Expiration Date: 12/6/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1016 | DI water (fill to volume) | | | |
| V-36145 | 5 ppm working solution | 20 ml | 5 ppm | |

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-36269

| Prepared By: Dowbnia, James A Description: icv Prep Date: 12/6/2007 Expiration Date: 12/6/2007 | | Department: Wet Lab BatchNumber: Concentration: 0.5 ppm Final Volume: 100 ml | | |
|---|---------------------------|---|-----------------|------------|
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2622 | Hex Cr ICV | .5 ml | 0.5 ppm | |
| 1016 | DI water (fill to volume) | | | |
| V-35709 | Cr6 digestion solution | 50 ml | Reagent reagent | |

Veritech Standard Receipt Log

0032

Veritech Control/Receipt Number: 1016

| |
|---------------------------|
| Description |
| DI water (fill to volume) |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-------------|-------------|--------------|-------|--------|
| US Filter | na | na | 02/28/05 | | Smith, Greg | 1 | 0 | | |

Veritech Control/Receipt Number: 1318

| |
|---------------------|
| Description |
| Potassium Phosphate |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Fisher | P288-500 | 044343 | 09/26/05 | 09/25/08 | Miller, Gael E. | 1 | 500 g | neat | neat |

Veritech Control/Receipt Number: 1382

| |
|----------------------|
| Description |
| Potassium Dichromate |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|-------------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Acros | 424115000 | A0207311001 | 10/28/05 | 10/27/08 | Miller, Gael E. | 1 | 500g | neat | neat |

Veritech Control/Receipt Number: 1396

| |
|-------------------------------|
| Description |
| Potassium Phosphate Monobasic |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Fisher | P285-500 | 053351 | 11/07/05 | 11/06/08 | Miller, Gael E. | 1 | 500g | neat | neat |

Veritech Control/Receipt Number: 2499

| |
|------------------|
| Description |
| Sodium Carbonate |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| fisher | S263-1 | 061061 | 05/15/07 | 05/14/10 | Miller, Gael E. | 1 | 1kg | neat | neat |

Veritech Control/Receipt Number: 2622

| |
|-------------|
| Description |
| Hex Cr ICV |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|-------------|-----------|-----------|-------------|-------------|--------------|-------|--------|
| NYDOH | 0032 | AC31400-001 | 01/17/07 | 01/16/08 | Smith, Greg | 1 | 40 ml | 0.5 | ppm |

Veritech Control/Receipt Number: 2709

| |
|------------------|
| Description |
| sodium hydroxide |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-------------|-------------|--------------|-------|--------|
| fisher | S318-10 | 070241 | 08/23/07 | 08/23/09 | Lopez, Jose | 4 | 10kg | neat | neat |

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VERITECH LABORATORY RESULTS

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Hampton-Clarke, Inc.

veritech laboratories



175 Route 46 West, Unit D
Fairfield, NJ 07004
(973) 244-9770
Federal ID: 222679402

0001

Format: NJDEP-R

Project: OBMUA

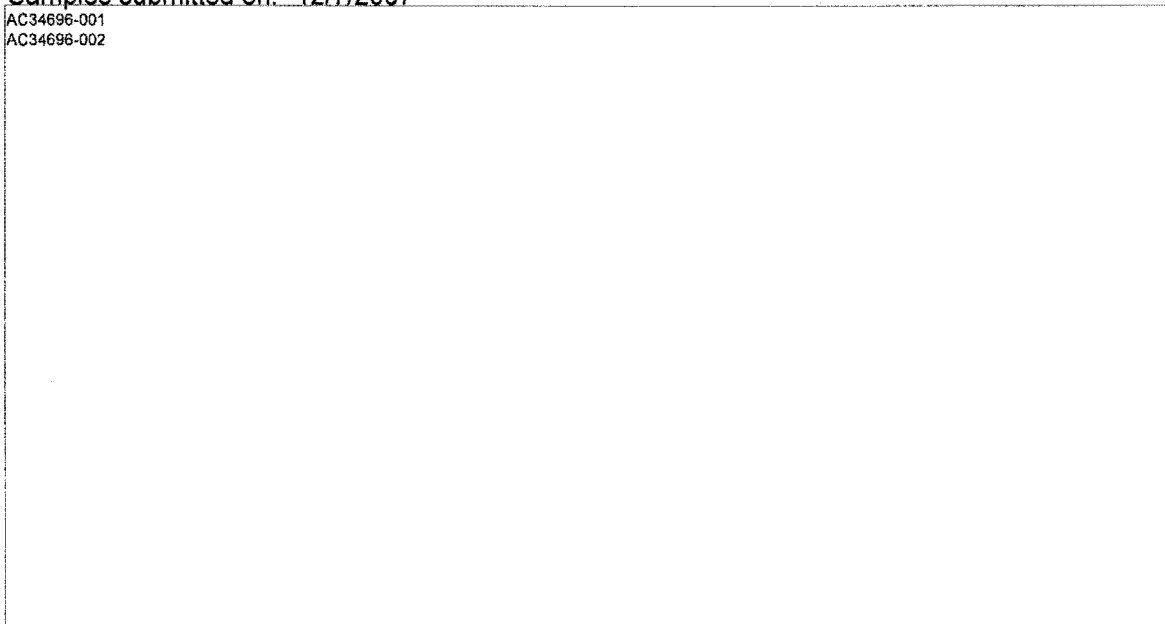
PO Number: 1YR00139

Client: Icon Engineering
3759 US Highway 1 South
Suite 100
Monmouth Junction, NJ 08852

Attn: James Sousa

Samples submitted on: 12/7/2007

AC34696-001
AC34696-002



Date: 1/3/2008

HCI Project: 7120720

This report is a true report of results obtained from our tests of this material. In lieu of a formal contract document, the total aggregate liability of Veritech to all parties shall not exceed Veritech's total fee for analytical services rendered.


Jeri Rossi - Quality Assurance Director

Or _____
Stanley Gilewicz - Laboratory Director

CT #: PH-0671 MA #: NJ386 NJ #: 14622 NY #: 11408 PA #: 68-463 WV #: 353 USACE

Veritech Sample Key

03-Jan-08

| Lab# | SampleID |
|-------------|----------|
| AC34696-001 | PE-22 |
| AC34696-002 | PE-23 |

3) Reporting Requirements(please circle)

Customer Information

1a) Customer: Icon Engineering
 Address: 3759 US Hwy 1 South - Suite 100
Monmouth Junction, NJ 08852

1b) Email/Cell/Fax/Ph: 732-951-2101

1c) Send Invoice To: Behram Turan

1d) Send Report To: James Sousa

Project Information

2a) Project: OBMVA Soil Cleanup

2b) Project Manager: Behram Turan

2c) Location (City/State): Old Bridge, NJ

2d) Quote#/PO# (If Applicable): LYR 00139

| Turnaround Time | Report type | Electronic Deliv |
|---|--|--|
| 24-Hour(100%) 48-Hour(75%) 72-Hour(50%) 1-Week(25%) 10 Days(10%) <u>Standard</u> Other: | Data Sum Waste <u>Red-NJ/NY/PA</u> CLP Full/Cat-B Cat-A Other: | Hazsite/Csv Equis <u>Excel-NJCC</u> Excel-Nytagm Excel-PAActII <u>PDF</u> Other: |

Expedited TAT Not always available (Please check with lab!)

7) Analysis Request

| FOR LAB USE ONLY ↓ | Check if Contingent====> | | | | | | | | | | <====Check if Contingent | | | | | | | | 9) Methanol Bottle Numbers (If applicable) Comments | | | | |
|-----------------------|--------------------------|-------------------|---------------------|-------|-----------------|-----------|----------|----------------|----------|------------|--------------------------|---------|-----------------|----------|------------|-------|------|--------|--|------|-----|-------|------|
| | Matrix Codes: | | | | | | | | | | Composite(C) | Grab(G) | 8) # Of Bottles | | | | | | | | | | |
| | Batch# | DW-Drinking Water | S-Soil | A-Air | GW-Ground Water | SL-Sludge | Ot-Other | WW-Waste Water | O-Oil | Lead | | | Arsenic | Antimony | Chromium 6 | None | MeOH | Encore | | NaOH | HCl | H2SO4 | HNO3 |
| Lab Sample# | 4) Customer Sample ID | 5) Matrix | 6) Sample Date Time | | Composite(C) | Grab(G) | Lead | Arsenic | Antimony | Chromium 6 | None | MeOH | Encore | NaOH | HCl | H2SO4 | HNO3 | Other: | | | | | |
| AC34696 | | | | | | | | | | | | | | | | | | | | | | | |
| -001 | PE-22 | S | 12/5/07 | 12:45 | X | X | X | X | X | | | | | | | | | | | | | | |
| -002 | PE-23 | S | 12/5/07 | 3:00 | X | X | X | X | X | | | | | | | | | | | | | | |

| 10) Relinquished By: | Accepted By | Date | Time |
|----------------------|---------------------|----------------|--------------|
| <u>H Cogler</u> | <u>John Bouwell</u> | <u>12/7/07</u> | <u>10:00</u> |
| <u>John Bouwell</u> | <u>R Arena</u> | <u>12/7/07</u> | <u>15:27</u> |

Comments, Notes, Special Requirements, HAZARDS

Test each sample for lead, arsenic, antimony, and hexavalent chromium.

11) Sampler: DA Date: 12/5/07

Please note NUMBERED items. If not completed your analytical work may be delayed.
 A fee of \$5/sample will be assessed for storage should sample not be activated for any analysis

Cogler Tmp: 3.2

CONDITION UPON RECEIPT

Batch Number AC34696

Entered By: children

Date Entered 12/7/2007 4:30:00 PM

0004

-
- 1 Yes Is there a corresponding COC included with the samples?
 - 2 Yes Are the samples in a container such as a cooler or Ice chest?
 - 3 Yes Are the COC seals intact?
 - 4 Yes Please specify the Temperature inside the container
3.2
 - 5 Yes Are the samples refrigerated (where required)/have they arrived on ice?
 - 6 Yes Are the samples within the holding times for the parameters listed on the COC? IF no, list parameters and samples:
 - 7 Yes Are all of the sample bottles intact? If no, specify sample numbers broken/leaking
 - 8 Yes Are all of the sample labels or numbers legible? If no specify:
 - 9 Yes Do the contents match the COC? If no, specify
 - 10 Yes Is there enough sample sent for the analyses listed on the COC? If no, specify:
 - 11 Yes Are samples preserved correctly?
 - 12 Yes Are all soils preserved in methanol accompanied by dry soil?
 - 13 NA Other comments ...Specify
 - 14 NA Corrective actions (Specify item number and corrective action taken).

Internal Chain of Custody

0005

| Lab#: | DateTime: | Loc or User | Bot Nu | A/ M | Analysis |
|-------------|----------------|-------------|--------|------|----------|
| AC34696-001 | 12/10/07 10:22 | PA | 1 | A | MIXING |
| AC34696-001 | 12/10/07 10:52 | NW | 1 | A | %solids |
| AC34696-001 | 12/10/07 12:44 | R12 | 1 | A | NONE |
| AC34696-001 | 12/10/07 12:54 | SRB | 1 | A | TDSI |
| AC34696-001 | 12/10/07 17:32 | R12 | 1 | A | NONE |
| AC34696-001 | 12/19/07 08:50 | JAD | 1 | A | CR6-S |
| AC34696-001 | 12/19/07 10:21 | R12 | 1 | A | NONE |
| AC34696-002 | 12/10/07 10:22 | PA | 1 | A | MIXING |
| AC34696-002 | 12/10/07 10:52 | NW | 1 | A | %solids |
| AC34696-002 | 12/10/07 12:44 | R12 | 1 | A | NONE |
| AC34696-002 | 12/10/07 12:54 | SRB | 1 | A | TDSI |
| AC34696-002 | 12/10/07 17:32 | R12 | 1 | A | NONE |
| AC34696-002 | 12/19/07 08:50 | JAD | 1 | A | CR6-S |
| AC34696-002 | 12/19/07 10:21 | R12 | 1 | A | NONE |

| Lab#: | DateTime: | Loc or User | Bot Nu | A/ M | Analysis |
|-------|-----------|-------------|--------|------|----------|
|-------|-----------|-------------|--------|------|----------|

Laboratory Chronicle

Project #: 7120720

0006

Lab#: AC34696-001 Sample ID: PE-22

TestGroupName % Solids SM2540G
Preparation Method: SM 2540G
Analytical Method: SM 2540G

| Analyte | Prep | | Analysis | |
|----------|----------|---------|----------|---------|
| | Date | By | Date | By |
| % Solids | 12/10/07 | natalie | 12/10/07 | natalie |

TestGroupName Cr (Hexavalent) 7196A
Preparation Method: 3060
Analytical Method: 7196A

| Analyte | Prep | | Analysis | |
|-----------------|----------|-----|----------|-----|
| | Date | By | Date | By |
| Cr (Hexavalent) | 12/19/07 | JAD | 12/20/07 | JAD |

TestGroupName Metals-Three 6010
Preparation Method: 3005&10/3050
Analytical Method: EPA 6010B

| Analyte | Prep | | Analysis | |
|----------|----------|-----|----------|----|
| | Date | By | Date | By |
| Antimony | 12/10/07 | srb | 12/11/07 | SB |
| Arsenic | 12/10/07 | srb | 12/11/07 | SB |
| Lead | 12/10/07 | srb | 12/11/07 | SB |

Lab#: AC34696-002 Sample ID: PE-23

TestGroupName % Solids SM2540G
Preparation Method: SM 2540G
Analytical Method: SM 2540G

| Analyte | Prep | | Analysis | |
|----------|----------|---------|----------|---------|
| | Date | By | Date | By |
| % Solids | 12/10/07 | natalie | 12/10/07 | natalie |

TestGroupName Cr (Hexavalent) 7196A
Preparation Method: 3060
Analytical Method: 7196A

| Analyte | Prep | | Analysis | |
|-----------------|----------|-----|----------|-----|
| | Date | By | Date | By |
| Cr (Hexavalent) | 12/19/07 | JAD | 12/20/07 | JAD |

TestGroupName Metals-Three 6010
Preparation Method: 3005&10/3050
Analytical Method: EPA 6010B

| Analyte | Prep | | Analysis | |
|----------|----------|-----|----------|----|
| | Date | By | Date | By |
| Antimony | 12/10/07 | srb | 12/11/07 | SB |
| Arsenic | 12/10/07 | srb | 12/11/07 | SB |
| Lead | 12/10/07 | srb | 12/11/07 | SB |

METALS ANALYSIS NONCONFORMANCE SUMMARY

- | | NO | YES |
|---|-------------------------------------|-------------------------------------|
| 1. Calibration summary meets criteria | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. ICP Interference Check Samples Results Summary Submitted, Meet Criteria (exclude Mercury) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 3. Serial Dilution Summary Submitted, Meet Criteria (exclude Mercury) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <hr/> <u>Co failed.</u> <hr/> | | |
| 4. Laboratory Control Sample Summary Submitted (if applicable) Meets Criteria | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Blank Contamination above RL - If Yes, list elements for each blank: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <hr/> <hr/> <hr/> | | |
| 6. Matrix Spike / Matrix Spike Duplicate Recoveries Meet Criteria (if not, list those elements which fall outside the acceptable range. The batch passed due to the LCS and LCS MR recoveries.) Sb and Mn failed. | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| <hr/> <hr/> <hr/> | | |
| 7. Sample duplicate RPDs Meet Criteria (if not, list those elements which fall outside the acceptable range. The batch passed due to the LCS and LCS MR recoveries.) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <hr/> <hr/> <hr/> | | |
| 8. Extraction Holding Time Met (if not, list number of days exceeded for each sample) | <input type="checkbox"/> | <input type="checkbox"/> NA |
| <hr/> <hr/> <hr/> | | |
| 9. Analysis Holding Time Met (if not, list number of days exceeded for each sample) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| <hr/> <hr/> <hr/> | | |

Additional Comments:

Metals Supervisor: *Chad Myrtle*

Date: *12/18/07*

Batch: 8608 PeICP1 and HgCv1

WET CHEMISTRY CONFORMANCE/ NONCONFORMANCE SUMMARY

VERITECH

NO Yes

1. Blank Contamination? If yes, list the sample and the corresponding concentrations in each blank

2. Batch QC meets criteria? If not, list the Analysis with the batch number and corresponding recovery which falls outside the acceptable range.

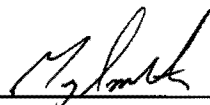
3. IR Spectra submitted for all standards, blanks and sample?

4. Extraction Holding Time Met? If not, list number of days exceeded for each sample.

5. Analysis Holding Time Met? If not, list number of days exceeded for each sample.

Additional Comments:

Wet Chemistry Supervisor:



Date:

1/2/08

Project Number: 7120720

METHOD REFERENCES

0009

| PARAMETER | METHOD | TECHNIQUE | PARAMETER | METHOD | TECHNIQUE |
|---------------------------------------|--------------------------|----------------------------------|---|---------------|---|
| DRINKING WATER PARAMETERS | | | SOLID HAZARDOUS WASTE PARAMETERS | | |
| Total coliform | SM 9221 D + E | Presence/Absence | Specific Cond. | SW-846 9050A | Wheatstone Bridge |
| Total coli/E. coli | SM 9222 B/G | Membran Filtration/Enumeration | Phenols | SW-846 9065 | Colorimetric |
| Cyanide | SM 4500-CN-E | DistSpectrophotometric (man.) | Cyanide | SW-846 9014 | Titrimetric/Spectrophotometric |
| Cyanide | EPA 335.4 | Dist/Spectrophotometric (auto) | Chromium VI | SW-846 7196A | Colorimetric |
| VOA | EPA 524.2 | GC/MS | Metals | SW-846 6010B | ICP |
| Metals | EPA 200.8 | ICP/MS | Mercury (liquid) | SW-846 7470A | Manual Cold Vapor |
| Turbidity | EPA 180.1 | Nephelometric | Mercury (solid) | SW-846 7471A | Manual Cold Vapor |
| WATER POLLUTION PARAMETERS | | | EDB/DBCP | SW-846 8011 | Microextraction, GC, ECD |
| Fecal Coliform | SM 9222 D | Membrane Filtration | Alcohols/Glycols | SW-846 8015B | GC |
| Total Coliform | SM 9222 B | Membrane Filtration | Petroleum Organics | OQA QAM 25 | Extraction, GC, FID |
| Heterotrophic PC | SM 9215 B | Pour Plate | DRO | SW-846 8015B | Extraction, GC, FID |
| Acidity | SM 2310 B (4a) | Electrometric | GRO | SW8468015B m | GC/MS, Purge & Trap |
| Alkalinity | SM 2320 B | Electrometric | PCBs | SW-846 8082 | GC, Extraction, ECD |
| Ammonia | SM4500NH3B-18 | Distillation (prep) | Pesticides | SW-846 8081A | GC, Extraction, ECD |
| Ammonia | SM4500NH3C-18 | Nesslerization (analysis) | Herbicides | SW-846 8151A | GC, Extraction, ECD |
| BOD | SM 5210 B | DO Depletion | VOA | SW-846 8260B | GC/MS |
| Bromide | EPA 300.0 | Ion Chromatography | Semi-VOA | SW-846 8270C | Extraction, GC/MS |
| Calcium | EPA 200.7 | Digestion, ICP | Cyanide (T) | SW-846 9012A | Colorimetric (auto) |
| CBOD | SM 5210 B | DO Depletion, N Inhib. | Cyanide (T) | SW-846 9010C | Distillation |
| COD | HACH 8000 | Spectrophotometric, manual | Cyanide (Am) | SW-846 9010C | Distillation |
| Chloride | EPA 300.0 | Ion Chromatography | Sulfides | SW-846 9030B | Redox Titration |
| Cyanide (T) | EPA 335.4 | Dist/Spectrophotometric (auto) | Sulfides | SW-846 9034 | Titration |
| Cyanide (T) | SM4500-CN C/E | DistSpectrophotometric (man.) | Sulfate | SW-846 9056 | Ion Chromatography |
| Cyanide (Am) | SM4500-CN C/G | Distillation, Spectrophotometric | pH | SW-846 9040B | Elect, waste, >20% water |
| Cyanide (Am) | EPA 1677 | Flow Injection/Ligand Exchange | TOC | SW-846 9060 | Infrared Spectrometry |
| Fluoride | EPA 300.0 | Ion Chromatography | Oil & Grease hem | SW-846 1664A | Extraction and Gravimetric |
| Hardness | EPA 200.7 | Ca + Mg Carbonates, ICP | Nitrite | SW-846 9056 | Ion Chromatography |
| Hex Chrom | SM 3500-Cr D | Spectrophotometric | Nitrate | SW-846 9056 | Ion Chromatography |
| Magnesium | EPA 200.7 | Digestion, ICP | Bromide | SW-846 9056 | Ion Chromatography |
| Metals | EPA 200.7 | Digestion, ICP | Chloride | SW-846 9056 | Ion Chromatography |
| Mercury | EPA 245.1 | Manual, Cold Vapor | Fluoride | SW-846 9056 | Ion Chromatography |
| Metals | EPA 200.8 | ICP/MS | Ortho Phosphate | SW-846 9056 | Ion Chromatography |
| Nitrate | EPA 300.0 | Ion Chromatography | SOLID HAZARDOUS WASTE PREP | | |
| Nitrite | EPA 300.0 | Ion Chromatography | Metals, Total& Diss | SW-846 3005A | Acid Dig/Surface&GW, ICP |
| Oil & Grease | EPA 413.1 | Gravimetric | Metals, Total | SW-846 3010A | Acid Dig/Aq Samples, ICP |
| O & G HEM | EPA 1664A | Grav., Hexane Extractable | Metals | SW-846 3050B | Acid Dig, Soil Sediment, Sludge |
| Oil & Grease SGT | EPA 1664A | Grav., Silica Gel Treated, HEM | Metals | SW-846 3060A | Chromium VI Digestion |
| TPH | EPA 418.1 | Spectrophotometric, Infrared | Semi-VO | SW-846 3510C | Separatory Funnel Extraction |
| TOC | SM 5310 B | Combustion | Semi-VO | SW-846 3550B | Ultrasonic Extraction |
| Ortho Phosphate | EPA 300.0 | Ion Chromatography | Semi-VO | SW-846 3520C | Liquid-Liquid Extraction |
| Phenols | EPA 420.1 | Distillation, Colorimetric | Semi-VO | SW-846 3545 | Pressurized Fluid Extraction |
| Total Phosphorus | SM 4500-P B5+E | Persulfate Digestion | VO | SW-846 5030B | Purge & Trap Aqueous |
| Potassium | EPA 200.7 | Digestion, ICP | Organics | SW-846 3580A | Waste Dilution |
| Total Residue | SM 2540 B | Gravimetric, 103-105° C | Organics | SW-846 3585 | Waste Dilution, Volatile Organics |
| TDS | SM 2540 C | Gravimetric, 180° C | VO-low/high conc. | SW-84650351/h | Closed System Purge & Trap |
| TSS | SM 2540 D | Gravimetric, 103-105° C | Semi-VO | SW-846 3611B | Petroleum Waste, Cleanup Alumina |
| Settleable Solids | SM 2540 F | Volumetric, Imhoff Cone | Semi-VO | SW-846 3620B | Cleanup-Florisil |
| Volatile Solids | EPA 160.4 | Gravimetric, 550° C | Semi-VO | SW-846 3640A | Cleanup-Gel Permeation |
| Total, Fix, Vol Sol. | SM 2540 G | Gravimetric, 550° C | Semi-VO | SW-846 3650B | Cleanup-Acid/Base Partition |
| Salinity | SM 2520 B | Electrical Conductivity | Semi-VO | SW-846 3660B | Cleanup-Sulfur Removal |
| Sodium | EPA 200.7 | Digestion, ICP | Semi-VO | SW-846 3665A | Cleanup-Sulfuric Acid/KmnO ₄ |
| Specific Cond. | SM 2510 B | Wheatstone Bridge | CHARACTERISTICS OF HAZARDOUS WASTE | | |
| Sulfate | EPA 300.0 | Ion Chromatography | Ignitability | SW-846 1010 | Pensky Martens |
| Sulfides | SM 4500-S ² F | Titrimetric, Iodine | Corrosivity | SW-846 9040B | Aqueous Waste, Potentiometric |
| Turbidity | SM 2130 B | Nephelometric | Volatile Organics | SW-846 1311 | TCLP, Toxicity Procedure, ZHE |
| Pesticides | EPA 608 | Extraction/GC (ECD) | Metals-Semi VOA | SW-846 1311 | TCLP, Toxicity Procedure, Shaker |
| Herbicides | EPA 608 | Extraction/GC (ECD) | Metals-Organics | SW-846 1310A | EP Toxicity Test |
| Petroleum Org. | OQ QAM 5rev. 6 | Extraction, GC, FID | Metals-Organics | SW-846 1312 | Synthetic PPT Leachate Procedure |
| VOA | EPA 624 | GC/MS | Metals-Organics | SW-846 1320 | Multiple Extraction |
| Semi-VOA | EPA 625 | Extract, GC/MS | SOLID AND CHEMICAL MATERIALS | | |
| | | | Ignitability of Solids | SW-846 1030 | Burn Rate |
| | | | Reactivity | SW-846 7.3 | HCN, HS Release |
| ANALYZE IMMEDIATELY PARAMETERS | | | Cyanide | SW-846 9013 | Extraction, Oils and Solids |
| D.O. | SM 4500-O G | Electrode | EOX | SW-846 9023 | Extraction |
| pH | SM 4500-H ⁺ B | Electrometric | Sulfides-extractable | SW-846 9031 | Water extraction, Distillation |
| Temperature | SM 2550 B | Thermometric | O & G Sludge HEM | SW-846 9071 | Extraction and Gravimetric |
| pH | SW-846 9040B | Aqueous, Electrometric | Free Liquid | SW-846 9095 | Flow-through Paint Filtration (obs) |

Veritech Report Of Analysis

0010

| Lab#: AC34696-001 | | Collection Date: 12/5/2007 | | |
|--------------------------|----|-----------------------------------|----|--------|
| Sample ID: PE-22 | | | | |
| TestGroup/Analyte | DF | Units | RL | Result |

% Solids SM2540G

% Solids 1 percent 92

Cr (Hexavalent) 7196A

Cr (Hexavalent) 1 mg/kg 1.1 ND

Metals-Three 6010

Antimony 100 mg/kg 2.2 ND

Arsenic 100 mg/kg 2.2 4.4

Lead 100 mg/kg 6.4 120

| Lab#: AC34696-002 | | Collection Date: 12/5/2007 | | |
|--------------------------|----|-----------------------------------|----|--------|
| Sample ID: PE-23 | | | | |
| TestGroup/Analyte | DF | Units | RL | Result |

% Solids SM2540G

% Solids 1 percent 87

Cr (Hexavalent) 7196A

Cr (Hexavalent) 1 mg/kg 1.1 ND

Metals-Three 6010

Antimony 100 mg/kg 2.3 ND

Arsenic 100 mg/kg 2.3 6.2

Lead 100 mg/kg 5.7 240

Form1 Inorganic Analysis Data Sheet

Sample ID: AC34696-001
 Client Id: PE-22
 Matrix: SOIL
 Level: LOW

% Solid: 92
 Units: MG/KG
 Date Rec: 12/7/2007

Lab Name: Veritech
 Lab Code:
 Contract:

Nras No:
 Sdg No:
 Case No:

| Cas No. | Analyte | RL | Conc | Dil Fact | Analysis Date: | Prep Batch | File: | Seq Num: | M | Instr |
|-----------|----------|-----|------|----------|----------------|------------|--------|----------|---|--------|
| 7440-36-0 | Antimony | 2.2 | ND | 100 | 12/11/07 | 8608 | S8608A | 31 | P | PEICP1 |
| 7440-38-2 | Arsenic | 2.2 | 4.4 | 100 | 12/11/07 | 8608 | S8608A | 31 | P | PEICP1 |
| 7439-92-1 | Lead | 5.4 | 120 | 100 | 12/11/07 | 8608 | S8608A | 31 | P | PEICP1 |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
 P - ICP-AES
 CV - Cold Vapor
 MS - ICP-MS

Form1
Inorganic Analysis Data Sheet

Sample ID: AC34696-002
Client Id: PE-23
Matrix: SOIL
Level: LOW

% Solid: 87
Units: MG/KG
Date Rec: 12/7/2007

Lab Name: Veritech
Lab Code:
Contract:

Nras No:
Sdg No:
Case No:

| Cas No. | Analyte | RL | Conc | Dil Fact | Analysis Date: | Prep Batch | File: | Seq Num: | M | Instr |
|-----------|----------|-----|------|----------|----------------|------------|--------|----------|---|--------|
| 7440-36-0 | Antimony | 2.3 | ND | 100 | 12/11/07 | 8608 | S8608A | 32 | P | PEICP1 |
| 7440-38-2 | Arsenic | 2.3 | 6.2 | 100 | 12/11/07 | 8608 | S8608A | 32 | P | PEICP1 |
| 7439-92-1 | Lead | 5.7 | 240 | 100 | 12/11/07 | 8608 | S8608A | 32 | P | PEICP1 |

Comments: _____

Flag Codes:

U or ND - Indicates Compound was not found above the detection/reporting limit
P - ICP-AES
CV -ColdVapor
MS - ICP-MS

VERITECH Wet Chem Form1 Analysis Summary

| | |
|--|--|
| Lab#: AC34696-001 Matrix Soil Client SampleID: PE-22 | Project Number: 7120720 Received Date: 12/7/2007 Collect Date: 12/5/2007 |
|--|--|

| Analysis | TestGroup | Dilution: | Result | Units: | PQL: | Prep Date: | Analysis Date: |
|-----------------|-----------|-----------|--------|--------|------|------------|----------------|
| Cr (Hexavalent) | CR6-SOIL | 1 | ND | mg/kg | 1.1 | 12/19/07 | 12/20/07 |

| | |
|--|--|
| Lab#: AC34696-002 Matrix Soil Client SampleID: PE-23 | Project Number: 7120720 Received Date: 12/7/2007 Collect Date: 12/5/2007 |
|--|--|

| Analysis | TestGroup | Dilution: | Result | Units: | PQL: | Prep Date: | Analysis Date: |
|-----------------|-----------|-----------|--------|--------|------|------------|----------------|
| Cr (Hexavalent) | CR6-SOIL | 1 | ND | mg/kg | 1.1 | 12/19/07 | 12/20/07 |

VERITECH Wet Chem Form1 Analysis Summary
% Solids

0014

TestGroupName: % Solids SM2540G
TestGroup: %SOLIDS

Project #: 7120720

| Lab# | Client SampleID | Matrix | Dilution: | Result | Units: | PQL | Prep Date | Analysis Date | Received Date | Collect Date |
|-------------|-----------------|--------|-----------|--------|---------|-----|-----------|---------------|---------------|--------------|
| AC34696-001 | PE-22 | Soil | 1 | 92 | Percent | | | 12/10/07 | 12/07/07 | 12/05/07 |
| AC34696-002 | PE-23 | Soil | 1 | 87 | Percent | | | 12/10/07 | 12/07/07 | 12/05/07 |

FORM 2 (ICV/CCV Summary)

Date Analyzed: 12/11/07
 Data File: S8608A
 Prep Batch: 8608
 Analytical Method: 6010B(ICP)/7470A,7471A(Hg)
 Instrument: PEICP1
 Units: All units in ppm except Hg and icp-ms in ppb
 Project Number: 7120720

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:
 ICV/CCV SOURCE: VHG LABS

| Analyte | ICV/CCV Amt | ICV V-34714 (2)-6 | | CCV V-34715-18 | | CCV V-34715-29 | | CCV V-34715-38 | | CCV V-34715-47 | | Rec | Rec | Rec | Rec | Rec |
|-----------|-------------|-------------------|-----|----------------|-----|----------------|-----|----------------|-----|----------------|-----|-----|-----|-----|-----|-----|
| | | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec | | | | | | | |
| Antimony | 1/5 | 1.03186 | 103 | 0.507411 | 101 | 0.508107 | 102 | 0.501449 | 100 | 0.502700 | 101 | | | | | |
| Arsenic | 1/5 | 1.02546 | 103 | 0.502363 | 100 | 0.502962 | 101 | 0.494369 | 99 | 0.496774 | 99 | | | | | |
| Barium | 1/5 | 1.02656 | 103 | 0.506054 | 101 | 0.503954 | 101 | 0.499954 | 100 | 0.501689 | 100 | | | | | |
| Beryllium | 1/5 | 1.01132 | 101 | 0.510683 | 102 | 0.514044 | 103 | 0.508749 | 102 | 0.514627 | 103 | | | | | |
| Cadmium | 1/5 | 1.00404 | 100 | 0.503125 | 101 | 0.495409 | 99 | 0.490881 | 98 | 0.489309 | 98 | | | | | |
| Chromium | 1/5 | 1.02990 | 103 | 0.500467 | 100 | 0.498954 | 100 | 0.495116 | 99 | 0.496241 | 99 | | | | | |
| Cobalt | 1/5 | 1.03071 | 103 | 0.514962 | 103 | 0.520051 | 104 | 0.515501 | 103 | 0.523489 | 105 | | | | | |
| Copper | 1/5 | 1.02169 | 102 | 0.499989 | 100 | 0.500619 | 100 | 0.498089 | 100 | 0.499892 | 100 | | | | | |
| Lead | 1/5 | 1.02714 | 103 | 0.502096 | 100 | 0.501685 | 100 | 0.494542 | 99 | 0.495093 | 99 | | | | | |
| Manganese | 1/5 | 1.01681 | 102 | 0.516414 | 103 | 0.517306 | 103 | 0.513097 | 103 | 0.519121 | 104 | | | | | |
| Nickel | 1/5 | 1.01678 | 102 | 0.507111 | 101 | 0.507356 | 101 | 0.502877 | 101 | 0.505101 | 101 | | | | | |
| Selenium | 1/5 | 1.02837 | 103 | 0.505753 | 101 | 0.506807 | 101 | 0.502689 | 101 | 0.512676 | 103 | | | | | |
| Silver | 0.2/1 | 0.205444 | 103 | 0.099844 | 100 | 0.098929 | 99 | 0.098280 | 98 | 0.098459 | 98 | | | | | |
| Thallium | 1/5 | 1.05210 | 105 | 0.513218 | 103 | 0.518116 | 104 | 0.511299 | 102 | 0.516683 | 103 | | | | | |
| Vanadium | 1/5 | 1.00291 | 100 | 0.500482 | 100 | 0.502424 | 100 | 0.497085 | 99 | 0.501096 | 100 | | | | | |
| Zinc | 1/5 | 1.01635 | 102 | 0.507769 | 102 | 0.514331 | 103 | 0.517306 | 103 | 0.519703 | 104 | | | | | |

Notes: a-indicates analyte failed the ICV limits for 6010B
 b-indicates analyte failed the ICV limits for 200.7 or 200.8
 c-indicates analyte failed the CCV limits for 200.7/200.8/245.1/6010B (Except Hg 7470A,7471A)
 d-indicates analyte failed the CCV limits Hg 7470A/7471A

Qc Limits: ICV - 200.7 : 95-105
 CCV- 200.7/200.8/6010B/245.1 : 90-110 (Except Hg 7470A/ 7471A=80-120)
 ICV -6010B/200.8 : 90-110

CLP ICP ICV/CCV: 90-110
 CLP Hg ICV/CCV: 80-120

FORM 3 (ICB/CCB/MB Summary)

Date Analyzed: 12/11/07
 Data File: S8608A
 Prep Batch: 8608
 Reporting Limits Used: TCLP,6010B(ICP)/7470A,7471A(Hg)
 Instrument: PEICP1
 Units: All units in ppm except Hg and icp-ms in ppb
 Project Number: 7120720

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:

| Analyte | ICB V-35416-7 | CCB-19 | CCB-30 | CCB-39 | CCB-48 | MB 8608 (100)- 10 | | |
|-----------|---------------|--------|--------|--------|--------|----------------------|--|--|
| Antimony | .02 U | .02 U | .02 U | .02 U | .02 U | 2U | | |
| Arsenic | .02 U | .02 U | .02 U | .02 U | .02 U | 2U | | |
| Barium | .1 U | .1 U | .1 U | .1 U | .1 U | 10U | | |
| Beryllium | .006 U | .006 U | .006 U | .006 U | .006 U | .6U | | |
| Cadmium | .006 U | .006 U | .006 U | .006 U | .006 U | .6U | | |
| Chromium | .05 U | .05 U | .05 U | .05 U | .05 U | 5U | | |
| Cobalt | .025 U | .025 U | .025 U | .025 U | .025 U | 2.5U | | |
| Copper | .05 U | .05 U | .05 U | .05 U | .05 U | 5U | | |
| Lead | .05 U | .05 U | .05 U | .05 U | .05 U | 5U | | |
| Manganese | .1 U | .1 U | .1 U | .1 U | .1 U | 10U | | |
| Nickel | .05 U | .05 U | .05 U | .05 U | .05 U | 5U | | |
| Selenium | .018 U | .018 U | .018 U | .018 U | .018 U | 1.8U | | |
| Silver | .015 U | .015 U | .015 U | .015 U | .015 U | 1.5U | | |
| Thallium | .012 U | .012 U | .012 U | .012 U | .012 U | 1.2U | | |
| Vanadium | .1 U | .1 U | .1 U | .1 U | .1 U | 10U | | |
| Zinc | .1 U | .1 U | .1 U | .1 U | .1 U | 10U | | |

Notes: a-indicates absolute value of result found above the reporting limits in CCB/ICB or result found above reporting limit in the MB
 u-indicates result below reporting limit

FORM 4 (ICSA/ICSAB Summary)

Date Analyzed: 12/11/07
 Data File: S8608A
 Prep Batch: 8608
 Reporting Limits Used: TCLP,6010B(ICP)/7470A,7471A(Hg)
 Instrument: PEICP1
 Units: ppm
 Project Number: 7120720

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:
 ICSA/ICSAB: SOURCE: VHG LABS

| Analyte | Spk Amt | ICSA V-34722-8 | | ICSAB V-34723-9 | | ICSA V-34722-27 | | ICSAB V-34723-28 | | ICSA V-34722-45 | | ICSAB V-34723-46 | | Rec | Rec |
|-----------|---------|----------------|-----|-----------------|-----|-----------------|-----|------------------|-----|-----------------|-----|------------------|-----|-----|-----|
| | | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec | Rec | | | | |
| Aluminum | 500 | 466.139 | 93 | 479.29300 | 96 | 470 | 94 | 476.84400 | 95 | 461.601 | 92 | 470.40100 | 94 | | |
| Antimony | 1 | U | | 0.97329 | 97 | U | | 0.95959 | 96 | U | | 0.96392 | 96 | | |
| Arsenic | 1 | U | | 0.99175 | 99 | U | | 0.98912 | 99 | U | | 0.97488 | 97 | | |
| Barium | .5 | U | | 0.46311 | 93 | U | | 0.46196 | 92 | U | | 0.46173 | 92 | | |
| Beryllium | .5 | U | | 0.48874 | 98 | U | | 0.49272 | 99 | U | | 0.49125 | 98 | | |
| Cadmium | 1 | U | | 0.88602 | 89 | U | | 0.87643 | 88 | U | | 0.86428 | 86 | | |
| Calcium | 500 | 451.713 | 90 | 466.66300 | 93 | 462.09 | 92 | 472.46900 | 94 | 461.785 | 92 | 472.70000 | 95 | | |
| Chromium | .5 | U | | 0.48808 | 98 | U | | 0.48713 | 97 | U | | 0.48417 | 97 | | |
| Cobalt | .5 | U | | 0.44092 | 88 | U | | 0.44602 | 89 | U | | 0.45396 | 91 | | |
| Copper | .5 | U | | 0.50587 | 101 | U | | 0.50847 | 102 | U | | 0.50530 | 101 | | |
| Iron | 200 | 173.286 | 87 | 178.26200 | 89 | 172.87 | 86 | 176.69700 | 88 | 171.253 | 86 | 174.18700 | 87 | | |
| Lead | 1 | U | | 0.92153 | 92 | U | | 0.91475 | 91 | U | | 0.90979 | 91 | | |
| Magnesium | 500 | 490.861 | 98 | 507.55100 | 102 | 498.806 | 100 | 514.79300 | 103 | 503.615 | 101 | 514.39700 | 103 | | |
| Manganese | .5 | U | | 0.45531 | 91 | U | | 0.46143 | 92 | U | | 0.46096 | 92 | | |
| Nickel | 1 | U | | 0.88266 | 88 | U | | 0.87614 | 88 | U | | 0.87864 | 88 | | |
| Selenium | 1 | U | | 0.91148 | 91 | U | | 0.91812 | 92 | U | | 0.93012 | 93 | | |
| Silver | 1 | U | | 1.02370 | 102 | U | | 1.02138 | 102 | U | | 1.00912 | 101 | | |
| Thallium | 1 | U | | 0.89865 | 90 | U | | 0.89674 | 90 | U | | 0.91914 | 92 | | |
| Vanadium | .5 | U | | 0.45046 | 90 | U | | 0.45274 | 91 | U | | 0.45114 | 90 | | |
| Zinc | 1 | U | | 0.86951 | 87 | U | | 0.88454 | 88 | U | | 0.89580 | 90 | | |

Notes: a-indicates absolute value of the concentration > 2 * Reporting Limits In the ICSA
 b-indicates absolute value of the concentration above Reporting Limits but < 2 * Reporting Limits in the ICSA
 c-indicates the recovery failed the Qc Criteria in the ICSAB
 u-indicates the absolute value of the concentration was below the reporting limit

FORM 5/FORM 7 SPIKE/LCS RECOVERY

Date Analyzed: 12/11/07
 Data File: S8608A
 Prep Batch: 8608
 Analytical Method: 6010B(ICP)/7470A,7471A(Hg)
 Instrument: PEICP1
 Units: All units in ppm except Hg and icp-ms in ppb
 Project Number: 7120720
 MATRIX SPIKE SOURCE: VHG LABS

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:
 Matrix: TCLP
 Level: Low

| Analyte | Spike Amts | | | LCS Rec Limits | Non Spike Conc AC34678- 002-13 | AC34678- 002-15-1X | %REC OR Conc | AC34678- 002-16-1X | %REC OR Conc | LCS 100- 11-1X | %REC OR Conc | LCS 100 MR-12-1X | %REC OR Conc | %REC OR Conc |
|-----------|-----------------------------|-------------|-----------|----------------------|---|-----------------------|--------------------|-----------------------|--------------------|-------------------|--------------------|---------------------|--------------------|--------------------|
| | MS-Tclp MS-Aq MS-soil | LCS Soil | LCS Aq | | | | | | | | | | | |
| Antimony | .5000 | 1.27 | | .02 - 2.6 | 0.02 | U | 0.266282 | 53 a | 0.276102 | 55 a | 1.3825 | 1.38 | 1.36382 | 1.36 |
| Arsenic | .5000 | 2.80 | | .26 - 3.3 | 0.02 | U | 0.467944 | 94 | 0.469625 | 94 | 2.68117 | 2.68 | 2.65993 | 2.66 |
| Barium | 0.500 | 5.20 | | .30 - 6.0 | 0.366977 | | 0.897939 | 106 | 0.861886 | 99 | 5.27273 | 5.27 | 4.87056 | 4.87 |
| Beryllium | .5000 | 0.51 | | .124 - 0.5 | 0.006 | U | 0.470564 | 94 | 0.470927 | 94 | 0.489543 | .49 | 0.485151 | .485 |
| Cadmium | .5000 | 1.82 | | .49 - 2.1 | 0.006 | U | 0.458651 | 92 | 0.459011 | 92 | 1.7533 | 1.75 | 1.72981 | 1.73 |
| Chromium | .5000 | 1.42 | | .15 - 1.7 | 0.475401 | | 1.02718 | 110 | 1.03129 | 111 | 1.38637 | 1.39 | 1.38271 | 1.38 |
| Cobalt | .5000 | 1.10 | | .904 - 1.1 | 0.0939294 | | 0.569797 | 95 | 0.56571 | 94 | 1.13277 | 1.13 | 1.14303 | 1.14 |
| Copper | .5000 | 1.32 | | .10 - 1.5 | 0.471835 | | 0.937574 | 93 | 0.942026 | 94 | 1.31642 | 1.32 | 1.28458 | 1.28 |
| Lead | 0.500 | 0.722 | | .591 - 0.8 | 0.05 | U | 0.490815 | 98 | 0.490407 | 98 | 0.692223 | .692 | 0.701161 | .701 |
| Manganese | .5000 | 3.31 | | .70 - 3.9 | 1.7382 | | 3.05068 | 262 a | 2.24824 | 102 | 3.16216 | 3.16 | 3.26093 | 3.26 |
| Nickel | .5000 | 1.55 | | .28 - 1.8 | 0.163323 | | 0.63331 | 94 | 0.629736 | 93 | 1.55611 | 1.56 | 1.5624 | 1.56 |
| Selenium | .5000 | 1.65 | | .28 - 2.0 | 0.018 | U | 0.444435 | 89 | 0.443147 | 89 | 1.5284 | 1.53 | 1.54097 | 1.54 |
| Silver | 0.100 | 1.26 | | .837 - 1.1 | 0.0433768 | | 0.13601 | 93 | 0.131853 | 88 | 1.22321 | 1.22 | 1.2072 | 1.21 |
| Thallium | .5000 | 1.84 | | .42 - 2.2 | 0.012 | U | 0.473514 | 95 | 0.475479 | 95 | 1.87883 | 1.88 | 1.84855 | 1.85 |
| Vanadium | .5000 | 1.86 | | .44 - 2.2 | 0.370193 | | 0.830436 | 92 | 0.839962 | 94 | 1.7246 | 1.72 | 1.69123 | 1.69 |
| Zinc | .5000 | 3.46 | | .73 - 4.1 | 0.159047 | | 0.621063 | 92 | 0.616594 | 92 | 3.46493 | 3.46 | 3.42289 | 3.42 |

MS Qc Limits:

| EPA600: | SW846 | CLP |
|------------|---|-----------|
| MS: 70-130 | MS TCLP: >50% MS soil/aqueous:75-125 | MS:75-125 |

Flags:

U: Conc < Reporting Limit
 a: Recovery Failed Specified Limit
 b: Recovery Failed Specified Limit but Non Spike concentration > 4* spike amount

Note: All Elements analyzed by ICP(P) or ICP-MS except Mercury(CV)

FORM6/FORM9 RPDS

Date Analyzed: 12/11/07
 Data File: S8608A
 Prep Batch: 8608
 Analytical Method: 6010B(ICP)/7470A,7471A(Hg)
 Instrument: PEICP1
 Units: All units in ppm except Hg and icp-ms in ppb
 Project Number: 7120720

Lab Name: Veritech
 Lab Code:
 Contract:
 Nras No:
 Sdg No:
 Case No:

| Analyte | Qc Limits | | Sample | Method Rep | | LCS | LCS MR | | Sample | Serial Dil | |
|-----------|-----------|------|----------------|----------------|------|------------|---------------|-----|----------------|----------------|-------|
| | LCS/MR | SD | AC34678-002-13 | AC34678-002-14 | RPD | LCS 100-11 | LCS 100 MR-12 | RPD | AC34678-001-20 | AC34678-001-21 | %Diff |
| | | | | | | | | | | | |
| Antimony | <=20 | <=10 | 0.02 U | 0.02 U | --- | | | | 0.00357 U | 0.01785 U | --- |
| Arsenic | <=20 | <=10 | 0.02 U | 0.02 U | --- | | | | 0.0429862 | 0.031611 | 26 Sb |
| Barium | <=20 | <=10 | 0.366977 | 0.367370 | 0.11 | | | | 0.301399 | 0.302197 | 0.26 |
| Beryllium | <=20 | <=10 | 0.006 U | 0.006 U | --- | | | | 0.0005253 | 0.000313 U | --- |
| Cadmium | <=20 | <=10 | 0.006 U | 0.006 U | --- | | | | 0.000114 U | 0.00057 U | --- |
| Chromium | <=20 | <=10 | 0.475401 | 0.465635 | 2.1 | | | | 0.192074 | 0.190634 | 0.75 |
| Cobalt | <=20 | <=10 | 0.0939294 | 0.0777234 | 19 | | | | 0.0444002 | 0.030691 | 31 Sa |
| Copper | <=20 | <=10 | 0.471835 | 0.450605 | 4.6 | | | | 0.670563 | 0.65947 | 1.7 |
| Lead | <=20 | <=10 | 0.050 U | 0.050 U | --- | | | | 0.856252 | 0.851605 | 0.54 |
| Manganese | <=20 | <=10 | 1.73820 | 1.60123 | 8.2 | | | | 1.75958 | 1.810855 | 2.9 |
| Nickel | <=20 | <=10 | 0.163323 | 0.160892 | 1.5 | | | | 0.114358 | 0.1175355 | 2.8 |
| Selenium | <=20 | <=10 | 0.018 U | 0.018 U | --- | | | | 0.00316 U | 0.0158 U | --- |
| Silver | <=20 | <=10 | 0.0433768 | 0.0442276 | 1.9 | | | | 0.0796254 | 0.0774145 | 2.8 |
| Thallium | <=20 | <=10 | 0.012 U | 0.012 U | --- | | | | 0.00175 U | 0.00875 U | --- |
| Vanadium | <=20 | <=10 | 0.370193 | 0.355723 | 4 | | | | 0.180888 | 0.1728775 | 4.4 |
| Zinc | <=20 | <=10 | 0.159047 | 0.154334 | 3 | | | | 0.709459 | 0.721805 | 1.7 |

Flags:

Na: Method Rep outside of Qc Limits
 Nb: Method Rep out but concentrations < 5* Reporting Limits
 U: Conc < Reporting Limit (Method Rep) or < IDL (serial Dilution)
 Lm: Lcs Rpd Out

Sa: Serial Dilution outside of qc limits
 Sb: Serial dilution out but concentration < 10 * IDL
 E: Serial Dilution outside of qc limits CLP

MDL / RL SUMMARY
SOIL SW846
PE ICP 1

| ELEMENT | MDL | Reporting Limits (Mg/Kg) |
|----------------|------------|-------------------------------------|
| Al | 0.0287 | 200 |
| Sb | 0.0032 | 2 |
| As | 0.00536 | 2 |
| Ba | 0.00022 | 10 |
| Be | 0.0000485 | 0.6 |
| Cd | 0.000142 | 0.6 |
| Ca | 0.037 | 1000 |
| Cr | 0.000693 | 5 |
| Co | 0.000394 | 2.5 |
| Cu | 0.00116 | 5 |
| Fe | 0.0168 | 200 |
| Pb | 0.00292 | 5 |
| Mg | 0.0208 | 500 |
| Mn | 0.0011 | 10 |
| Mo | 0.000467 | 2.5 |
| Ni | 0.000556 | 5 |
| Se | 0.0029 | 1.8 |
| Ag | 0.000516 | 1.5 |
| Tl | 0.00363 | 1.2 |
| Sn | 0.00506 | 5.7 |
| Ti | 0.000172 | 35 |
| V | 0.000456 | 10 |
| Zn | 0.00105 | 10 |

Sb, Co, Cu, Ni, Ti, Zn analyzed on 11/07/07. Ca and V analyzed on 11/08/07. Mn analyzed on 11/13/07. Mg, Mo, Fe analyzed on 11/15/07. All other elements analyzed 11/06/07.

Calibration Curve Information

Qc Summary Results

| Qc Type | Qc Name | SpkAmt | Rec Lim | Rpd Lim | Raw Result | Recov | Rpd | Flags |
|---------|-------------|--------|---------|---------|------------|-------|------|-------|
| DUP | AC34699-001 | NA | NA | 5 | 85.60071 | NA | 0.64 | |

| Sam # | Type | MB | Result | Mdl | Sol | Per Result | Raw Tare Wt | Tare Wet | Tare Dry | Prep Date | Prep By | Anal Date | Anal By |
|-------------|--------|----|--------|-----|-----|------------|-------------|----------|----------|-----------|---------|-----------|---------|
| AC34699-001 | DUP | | 86 | | | | 85.601 | 1.08 | 12.4 | | | 12/10/07 | natalie |
| AC34688-005 | Sample | | 90 | | | | 90.295 | 1.03 | 12.57 | | | 12/10/07 | natalie |
| AC34688-006 | Sample | | 91 | | | | 90.869 | 1.08 | 12.36 | | | 12/10/07 | natalie |
| AC34691-001 | Sample | | 77 | | | | 77.171 | 1.08 | 12.25 | | | 12/10/07 | natalie |
| AC34691-002 | Sample | | 79 | | | | 79.289 | 1.03 | 12.57 | | | 12/10/07 | natalie |
| AC34692-001 | Sample | | 96 | | | | 96.089 | 1.08 | 12.33 | | | 12/10/07 | natalie |
| AC34692-002 | Sample | | 98 | | | | 97.758 | 1.08 | 12.23 | | | 12/10/07 | natalie |
| AC34692-003 | Sample | | 97 | | | | 96.667 | 1.09 | 12.19 | | | 12/10/07 | natalie |
| AC34695-001 | Sample | | 85 | | | | 84.615 | 1.05 | 12.1 | | | 12/10/07 | natalie |
| AC34695-002 | Sample | | 85 | | | | 85.231 | 1.05 | 12.29 | | | 12/10/07 | natalie |
| AC34695-003 | Sample | | 87 | | | | 87.282 | 1.06 | 12.54 | | | 12/10/07 | natalie |
| AC34695-004 | Sample | | 86 | | | | 86.448 | 1.07 | 12.36 | | | 12/10/07 | natalie |
| AC34695-005 | Sample | | 86 | | | | 86.194 | 1.05 | 12.06 | | | 12/10/07 | natalie |
| AC34695-006 | Sample | | 91 | | | | 90.981 | 1.06 | 12.48 | | | 12/10/07 | natalie |
| AC34695-007 | Sample | | 89 | | | | 89.165 | 1.06 | 12.32 | | | 12/10/07 | natalie |
| AC34696-001 | Sample | | 92 | | | | 92.052 | 1.03 | 12.48 | | | 12/10/07 | natalie |
| AC34696-002 | Sample | | 87 | | | | 87.23 | 1.05 | 12.17 | | | 12/10/07 | natalie |
| AC34697-001 | Sample | | 94 | | | | 94.435 | 1.1 | 12.6 | | | 12/10/07 | natalie |
| AC34698-001 | Sample | | 84 | | | | 84.339 | 1.1 | 12.53 | | | 12/10/07 | natalie |
| AC34699-001 | Sample | | 85 | | | | 85.052 | 1.04 | 12.48 | | | 12/10/07 | natalie |

ns
12/10/07

Hex-Cr Soil

| Hex-Cr Soil | | Q.C. DATA | | | | | | | | | |
|-----------------------|----------|-----------|------------|---------------|--------------|---------------|-----------------|----------------|--------------|-----------------|-----------------|
| Batch# | 184 | | | | | | | | | | |
| Date | 12/18/07 | | | Spike Amount | Result | Theoretical | % REC | Limits | | | |
| Analyst | jad | | | PPM | PPM | PPM | | | | | |
| | | | MBS | 20.00 | 18.80 | 20.00 | 94% | 80-120% | | | |
| | | | MS | 21.74 | 19.98 | 21.74 | 92% | 75-125% | | | |
| | | | MSD | 21.74 | 19.45 | 21.74 | 89% | 75-125% | | | |
| | | | PVS | 43.48 | 39.96 | 43.48 | 92% | 85-115% | | | |
| | | | Sample | AC34696-001QC | -0.08 | | | | | | |
| Lead Chromate Added : | 0.0185 | g | Sample Dup | | 0.12 | RPD | NA | 20% | | | |
| | | | Insoluble | 1294.12 | 1383.36 | 1294.12 | 107% | 75-125% | | | |
| ***** | | | | | | | | | | | |
| ICV Data | ABS | Turb ABS | Crct. ABS | PPM | Solid Factor | Sample wt (g) | Dilution Factor | Final vol (mL) | Hex-Cr (ppm) | True Value(ppm) | % REC (90-110%) |
| ICV V-11860 | 0.190 | 0.000 | 0.190 | 0.279513365 | 1 | 1 | 1 | 1 | 0.280 | 0.284 | 98 |
| Samples # | ABS | Turb ABS | Crct. ABS | PPM | Solid Factor | Sample wt (g) | Dilution Factor | Final vol (mL) | Hex-Cr (ppm) | MDL | |
| CCB | 0.002 | 0.000 | 0.002 | -0.004741919 | 1 | 1 | 1 | 1 | -0.005 | | |
| MB | 0.006 | 0.000 | 0.006 | 0.001306065 | 1 | 2.5 | 1 | 100 | 0.052 | 1.000 | |
| MBS | 0.316 | 0.000 | 0.316 | 0.470024886 | 1 | 2.5 | 1 | 100 | 18.801 | 1.000 | |
| AC34696-001QC | 0.015 | 0.011 | 0.004 | -0.001717927 | 0.92 | 2.5 | 1 | 100 | -0.075 | 1.087 | |
| AC34696-001DUP | 0.017 | 0.010 | 0.007 | 0.002818062 | 0.92 | 2.5 | 1 | 100 | 0.123 | 1.087 | |
| AC34696-001MS | 0.320 | 0.011 | 0.309 | 0.459440912 | 0.92 | 2.5 | 1 | 100 | 19.976 | 1.087 | |
| AC34696-001MSD | 0.312 | 0.011 | 0.301 | 0.447344943 | 0.92 | 2.5 | 1 | 100 | 19.450 | 1.087 | |
| AC34696-001PVS | 0.625 | 0.012 | 0.613 | 0.919087756 | 0.92 | 2.5 | 1 | 100 | 39.960 | 1.087 | |
| AC34696-001INSOL | 0.435 | 0.009 | 0.426 | 0.636344467 | 0.92 | 2.5 | 50 | 100 | 1383.358 | 54.348 | |
| AC34696-002 | 0.025 | 0.013 | 0.012 | 0.010378043 | 0.87 | 2.5 | 1 | 100 | 0.477 | 1.149 | |
| CCV | 0.315 | 0.000 | 0.315 | 0.46851289 | 1 | 2.5 | 1 | 100 | 18.741 | 1.000 | 94 |
| CCB | 0.002 | 0.000 | 0.002 | -0.004741919 | 1 | 2.5 | 1 | 100 | -0.190 | 1.000 | |

12/21/07

Hex-Cr Soil

| Cr6 soil curve | Date | 12/20/2007 | | Batch # 184 | | | | |
|------------------------------|---------------------|-----------------------|---------------|----------------|------------------|------------------|--------------------|--------------------|
| STD ppm | | ABS | | Intercept | Constant | 0.005136198 | | |
| 0 | | 0.005 | | | | | | |
| 0.025 | | 0.025 | | | | | | |
| 0.05 | | 0.045 | | Slope | X Coefficients | 0.661377326 | | |
| 0.25 | | 0.173 | | | | | | |
| 0.5 | | 0.311 | | | | | | |
| 0.75 | | 0.505 | | | | | | |
| 1 | | 0.675 | | | | | | |
| ***** | | | | | | | | |
| STD mg/L | | ABS | PPM | DIFF | | | | |
| 0 | | 0.005 | -0.000205931 | 0.000205931 | | | | |
| 0.025 | | 0.025 | 0.030033993 | -0.005033993 | | | | |
| 0.05 | | 0.045 | 0.060273917 | -0.010273917 | | | | |
| 0.25 | | 0.173 | 0.25380943 | -0.00380943 | | | | |
| 0.5 | | 0.338 | 0.503288802 | -0.003288802 | | | | |
| 0.75 | | 0.505 | 0.755792167 | -0.005792167 | | | | |
| 1 | | 0.675 | 1.01283152 | -0.01283152 | | | | |
| ***** | | | | | | | | |
| SUMMARY OUTPUT | | | | | | | | |
| <i>Regression Statistics</i> | | | | | | | | |
| Multiple R | 0.999060011 | | | | | | | |
| R Square | 0.998120905 | | | | | | | |
| Adjusted R Square | 0.997745086 | | | | | | | |
| Standard Error | 0.012382174 | | | | | | | |
| Observations | 7 | | | | | | | |
| <i>ANOVA</i> | | | | | | | | |
| | df | SS | MS | F | Significance F | | | |
| Regression | 1 | 0.407191123 | 0.407191123 | 2655.85566 | 5.20047E-08 | | | |
| Residual | 5 | 0.000766591 | 0.000153318 | | | | | |
| Total | 6 | 0.407957714 | | | | | | |
| | <i>Coefficients</i> | <i>Standard Error</i> | <i>t Stat</i> | <i>P-value</i> | <i>Lower 95%</i> | <i>Upper 95%</i> | <i>Lower 95.0%</i> | <i>Upper 95.0%</i> |
| Intercept | 0.005136198 | 0.00664753 | 0.7726476 | 0.474651051 | -0.011951794 | 0.022224189 | -0.011951794 | 0.022224189 |
| X Variable 1 | 0.661377326 | 0.012833558 | 51.53499452 | 5.20047E-08 | 0.62838767 | 0.694366982 | 0.62838767 | 0.694366982 |

12/21/07

**HEXAVALENT CHROMIUM PREPARATION DATA SHEET
(SOIL SAMPLES ONLY)**

Method 3060A

Batch: 144

Reviewed By: MS/MSD

Date: 12/21/07

| Laboratory Sample No. | Sample Wt (g) | Final Vol (ml) | pH 7.5 ± 0.5 | Digestion Time (Start / Finish) | Hot Plate Temp. 1 | Hot Plate Temp. 2 | Date | Analyst |
|-------------------------------|---------------|----------------|-----------------|------------------------------------|----------------------|----------------------|----------|---------|
| MB | 2.9 | 100 | 7.25 | 12:45 - 13:45 | 92.7 | 95.0 | 12-16-07 | MSD |
| MBS | | | 7.10 | ↓ | ↓ | ↓ | ↓ | ↓ |
| QC Sample <u>34696-001</u> | | | 8.00 | ↓ | ↓ | ↓ | ↓ | ↓ |
| DUP | | | 7.93 | ↓ | ↓ | ↓ | ↓ | ↓ |
| MS | | | 7.65 | ↓ | ↓ | ↓ | ↓ | ↓ |
| MSD | | | 7.32 | ↓ | ↓ | ↓ | ↓ | ↓ |
| PVS | | | 7.14 | ↓ | ↓ | ↓ | ↓ | ↓ |
| INS | | | 7.25 | ↓ | ↓ | ↓ | ↓ | ↓ |
| <u>34696-002</u> | | | 7.42 | ↓ | ↓ | ↓ | ↓ | ↓ |
| | | | | - | | | | |
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| |
|---|
| Spike Volume 1ml & Lot # v- <u>30325</u> |
|---|

| Reagent | Lot #: |
|--------------------------|-----------------|
| Digestion Solution | v- <u>35945</u> |
| Phosphate Buffer | v- <u>35547</u> |
| MgCl ₂ | # <u>2836</u> |
| Lead Chromate (PbCr) | # <u>1488</u> |
| Weight of PbCr (10-20mg) | <u>18.5</u> mg |

| |
|---|
| PVS Volume <u>2</u> ml |
| Sample chosen for PVS should be Spiked at 40 mg/Kg. If sample is >40 mg/Kg, use 2X. |

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-30325

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------|---------------------------|-----------------------|-------------|------------|
| Description: 50 ppm Hex Cr | | BatchNumber: | | |
| Prep Date: 8/10/2007 | | Concentration: 50 ppm | | |
| Expiration Date: 2/9/2008 | | Final Volume: 1000 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1382 | Potassium Dichromate | .1414 g | neat neat | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-35547

| Prepared By: Mehta, Prashant P. | | Department: WetChem | | |
|---------------------------------|-------------------------------|--------------------------------|-------------|------------|
| Description: Phosphate Buffer | | BatchNumber: | | |
| Prep Date: 11/27/2007 | | Concentration: Reagent reagent | | |
| Expiration Date: 5/26/2008 | | Final Volume: 500 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 1396 | Potassium Phosphate Monobasic | 34.02 g | neat neat | |
| 1318 | Potassium Phosphate | 43.545 g | neat neat | |

Veritech Lot Number: V-35995

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------------|---------------------------|--------------------------------|-------------|------------|
| Description: Cr6 digestion solution | | BatchNumber: | | |
| Prep Date: 12/4/2007 | | Concentration: Reagent reagent | | |
| Expiration Date: 6/3/2008 | | Final Volume: 2000 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2898 | Sodium Carbonate | 60 g | neat neat | |
| 2709 | sodium hydroxide | 40 g | neat neat | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-36901

| Prepared By: Rivera, Erica | | Department: WetChem | | |
|-------------------------------------|---------------------------|----------------------|-------------|------------|
| Description: 5 ppm working solution | | BatchNumber: | | |
| Prep Date: 12/18/2007 | | Concentration: 5 ppm | | |
| Expiration Date: 12/18/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-30325 | 50 ppm Hex Cr | 10 ml | 50 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-37023

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|--------------------------|-----------------|------------|
| Description: 0.025 ppm | | BatchNumber: | | |
| Prep Date: 12/18/2007 | | Concentration: 0.025 ppm | | |
| Expiration Date: 12/18/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-36901 | 5 ppm working solution | .5 ml | 5 ppm | |
| 1016 | DI water (fill to volume) | | | |
| V-35995 | Cr6 digestion solution | 50 ml | Reagent reagent | |

Veritech Internally Prepared Standard Log

Veritech Lot Number: V-37024

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|-------------------------|--------------|------------|
| Description: 0.05 ppm | | BatchNumber: | | |
| Prep Date: 12/18/2007 | | Concentration: 0.05 ppm | | |
| Expiration Date: 12/18/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-35995 | Cr6 digestion solution | 50 ml | Reagent reag | |
| V-36901 | 5 ppm working solution | 1 ml | 5 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-37025

| Prepared By: Dowbnia, James A | | Department: WetChem | | |
|-------------------------------|---------------------------|-------------------------|-------------|------------|
| Description: 0.25 ppm | | BatchNumber: | | |
| Prep Date: 12/18/2007 | | Concentration: 0.25 ppm | | |
| Expiration Date: 12/18/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-36901 | 5 ppm working solution | 5 ml | 5 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-37026

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|------------------------|--------------|------------|
| Description: 0.5 ppm | | BatchNumber: | | |
| Prep Date: 12/18/2007 | | Concentration: 0.5 ppm | | |
| Expiration Date: 12/18/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-35995 | Cr6 digestion solution | 50 ml | Reagent reag | |
| 1016 | DI water (fill to volume) | | | |
| V-36901 | 5 ppm working solution | 10 ml | 5 ppm | |

Veritech Lot Number: V-37027

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|-------------------------|--------------|------------|
| Description: 0.75 ppm | | BatchNumber: | | |
| Prep Date: 12/18/2007 | | Concentration: 0.75 ppm | | |
| Expiration Date: 12/18/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-36901 | 5 ppm working solution | 15 ml | 5 ppm | |
| V-35995 | Cr6 digestion solution | 50 ml | Reagent reag | |
| 1016 | DI water (fill to volume) | | | |

Veritech Lot Number: V-37028

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|----------------------|--------------|------------|
| Description: 1 ppm | | BatchNumber: | | |
| Prep Date: 12/18/2007 | | Concentration: 1 ppm | | |
| Expiration Date: 12/18/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| V-35995 | Cr6 digestion solution | 50 ml | Reagent reag | |
| V-36901 | 5 ppm working solution | 20 ml | 5 ppm | |
| 1016 | DI water (fill to volume) | | | |

Veritech Internally Prepared Standard Log

0028

Veritech Lot Number: V-37029

| Prepared By: Dowbnia, James A | | Department: Wet Lab | | |
|-------------------------------|---------------------------|------------------------|--------------|------------|
| Description: icv | | BatchNumber: | | |
| Prep Date: 12/18/2007 | | Concentration: 0.5 ppm | | |
| Expiration Date: 12/18/2007 | | Final Volume: 100 ml | | |
| Veritech Lot# /Rec# | Lot Description | Amount Used | Conc of Std | Final Conc |
| 2622 | Hex Cr ICV | .5 ml | 0.5 ppm | |
| 1016 | DI water (fill to volume) | | | |
| V-35995 | Cr6 digestion solution | 50 ml | Reagent reag | |

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 1016

| |
|---------------------------|
| Description |
| DI water (fill to volume) |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-------------|-------------|--------------|-------|--------|
| US Filter | na | na | 02/28/05 | | Smith, Greg | 1 | 0 | | |

Veritech Control/Receipt Number: 1318

| |
|---------------------|
| Description |
| Potassium Phosphate |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Fisher | P288-500 | 044343 | 09/26/05 | 09/25/08 | Miller, Gael E. | 1 | 500 g | neat | neat |

Veritech Control/Receipt Number: 1382

| |
|----------------------|
| Description |
| Potassium Dichromate |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|-------------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Acros | 424115000 | A0207311001 | 10/28/05 | 10/27/08 | Miller, Gael E. | 1 | 500g | neat | neat |

Veritech Control/Receipt Number: 1396

| |
|-------------------------------|
| Description |
| Potassium Phosphate Monobasic |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Fisher | P285-500 | 053351 | 11/07/05 | 11/06/08 | Miller, Gael E. | 1 | 500g | neat | neat |

Veritech Control/Receipt Number: 2622

| |
|-------------|
| Description |
| Hex Cr ICV |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|-------------|-----------|-----------|-------------|-------------|--------------|-------|--------|
| NYDOH | 0032 | AC31400-001 | 01/17/07 | 01/16/08 | Smith, Greg | 1 | 40 ml | 0.5 | ppm |

Veritech Control/Receipt Number: 2709

| |
|------------------|
| Description |
| sodium hydroxide |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-------------|-------------|--------------|-------|--------|
| fisher | S318-10 | 070241 | 08/23/07 | 08/23/09 | Lopez, Jose | 4 | 10kg | neat | neat |

Veritech Control/Receipt Number: 2898

| |
|------------------|
| Description |
| Sodium Carbonate |

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|-----------------|-------------|--------------|-------|--------|
| Fisher | S263-1 | 071162 | 11/29/07 | 11/28/10 | Miller, Gael E. | 1 | 1kg | neat | neat |

Veritech Standard Receipt Log

Veritech Control/Receipt Number: 1488

Description

Lead Chromate

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|----------------|-------------|--------------|-------|--------|
| EM Science | LX0145-1 | 41141130 | 12/20/05 | 12/19/08 | Miller,Gael E. | 1 | 500g | neat | neat |

Veritech Control/Receipt Number: 2836

Description

Magnesium Chloride

| Manufacturer | Catalog Num: | Lot Num: | Date Rec: | Exp Date: | Rec By: | Num of Cont | Volume /Cont | Conc: | Units: |
|--------------|--------------|----------|-----------|-----------|----------------|-------------|--------------|-------|--------|
| Fisher | M35-212 | 066067 | 11/01/07 | 10/31/10 | Miller,Gael E. | 1 | 2.5kg | neat | neat |

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