CSI Environmental, LLC
Environmental and Remediation Specialists

31 July 2007

United States Environmental
Protection Agency – Region 2
290 Broadway
New York, New York 10007

Subject: Residential Water Sampling Report
NL Industries Superfund Site, Pedricktown, New Jersey

Dear Ms. Gelblat:

On behalf of the Interim Pedricktown Site Group, CSI Environmental, LLC (CSI) prepared this report to summarize the results from the analysis of water samples obtained from the residences and one commercial facility located along U.S. Route 130 near the NL Industries Superfund Site in Pedricktown, New Jersey in April 2007. CSI previously sampled and analyzed water samples from the same locations in January 2004 and June 2006 and reported that groundwater from the NL Industries Superfund Site had not affected the water quality at the residences or the commercial facility.

Following the June 2006 sampling event, the U.S. Environmental Protection Agency (EPA) issued letters to the property owners to advise them that the concentrations of lead and cadmium in their water were either not detected or were significantly below the New Jersey drinking water standards. The EPA subsequently requested that the Interim Pedricktown Site Group (Group) resample the wells to evaluate current conditions. CSI obtained the water samples in accordance with its December 2006 *Residential Water Sampling Plan* approved by the EPA in an 11 January 2007 letter. A site plan showing the NL Industries Superfund Site and surrounding residential properties is provided as Figure 1. A summary of tasks performed and the results obtained are presented herein. EPA's representatives observed sampling activities performed by CSI in April 2007.

Sampling and Analysis

On 24 April 2007, CSI personnel obtained water samples from the locations identified on Table 1. The locations of the properties are shown on Figure 1. CSI temporarily affixed dedicated polyethylene tubing to spigots located at each property. The spigots were opened and water was allowed to flow for approximately 15 minutes to purge the system of possible effects caused by the water delivery system at each location to the degree possible. CSI obtained two grab samples of water from each location that had not passed through any water treatment system. CSI filtered one of the samples using an in-line, disposable 0.45 micron filter. The other sample was not filtered.

The water samples were placed into 500 milliliter plastic containers and preserved with nitric acid. The samples were then immediately placed in a cooler on ice and shipped to Chemtech Laboratories via courier. Chain-of-custody documentation was included with the samples. Chemtech analyzed the filtered water samples for dissolved lead and cadmium using

918 Chesapeake Avenue ♦ Annapolis, Maryland 21403 ♦ Phone: 410- 268-7261 ♦ Fax: 410- 268-0145
www.contactcsi.com

276047

EPA method 200.8 via ICP/MS. Unfiltered samples were analyzed for total lead and cadmium using the same method.

Quality Assurance/Quality Control

During sampling activities, CSI obtained Quality Assurance/Quality Control (QA/QC) samples in addition to the water samples. One duplicate sample and one matrix spike/matrix spike duplicate (MS/MSD) were included with the sample shipment to Chemtech. The duplicate sample was identified as Smith-100 and is a duplicate of Hodge-201.

Upon receipt of the analytical data, CSI personnel reviewed the data for completeness and accuracy. Data validation revealed high relative percent differences between the field duplicate (Smith-100) and its duplicate sample Hodge-201 for the lead results. Therefore, based on the validation guidelines all lead results have been qualified as estimated. The results from the data validation are provided in Attachment A.

Results

The laboratory data for both the June 2006 and April 2007 sampling events are summarized on Table 1 and the laboratory report for the April 2007 event is provided in Attachment A. Using the EPA-specified laboratory method, CLP method ILM 04.1, the laboratory reported no detections of either lead or cadmium in the water samples obtained in the June 2006 event. Because of laboratory issues with matrix interference the ILM 04.1 data from the June 2006 event were confirmed using EPA method 200.8. To avoid similar interference issues during the April 2007 event, EPA method 200.8 was used for all samples.

Using EPA method 200.8, the laboratory apparently detected cadmium in the sample obtained from the commercial facility (i.e. Hodge-201) in the sample obtained in April 2007. The concentrations apparently detected were lower than the NJDEP action level for cadmium and only slightly above the method detection limit. Therefore, if cadmium is present in the sample its concentration is sufficiently low as to pose no risk to human health or the environment.

Lead and cadmium were apparently detected in other samples obtained in April 2007 at very low concentrations, which were reported as estimated quantities. The "J" or "UJ" identifier used in the laboratory report signifies that the apparent concentration was greater than the laboratory detection limit, but less than the laboratory quantitation limit. Otherwise, data were flagged "J" if during data validation the results were found to be imprecise, which is common when attempting to detect constituent concentrations at and near the technical ability to do so. The apparent detections of cadmium and lead in the groundwater samples obtained in the April 2007 sampling event are suspect.

The data obtained in 2007 confirm previous conclusions that the lead and cadmium concentrations were, as stated by the EPA after the April 2006 event, either not detectable or significantly below New Jersey drinking water quality standards. Furthermore, after evaluating the April 2007 groundwater elevation data (shown on Figure 2) it is apparent that shallow groundwater in the vicinity tends to flow towards local surface water bodies as previously reported. These surface water bodies include the west stream, east stream and a series of wet areas located between the NL Industries landfill and the Kucowski-Ahamd and Hodge (Delaware River Landing Company LLC) properties (see Figure 2). These surface water bodies are hydrogeologic barriers to shallow groundwater flow.

The lack of a shallow groundwater pathway to the sampled properties is well demonstrated by the fact that there is no nexus between the constituents in the impacted groundwater at the site and the groundwater at the residences or the commercial facility. Monitoring wells 13, 14, 15, 16 and 17 are located between the site and the sampled properties as shown on Figure 2. More specifically, they stand between the constituents in groundwater on the site and groundwater near the residential wells and the commercial facility. Samples obtained from the monitoring wells were also analyzed for lead and cadmium as part of the on-going groundwater evaluation of the site and were free of cadmium and lead. Data from monitoring wells 13, 14, 15, 16 and 17 are provided in Table 2. As reported on Table 2, neither lead nor cadmium was detected in the samples. Therefore, it is certain that constituents in groundwater on the site are not affecting groundwater quality at the residences or the commercial facility.

Considering historical groundwater quality and the lack of a nexus between the constituents in groundwater on site and the groundwater at the residences and the commercial facility, the apparent detections reported herein for Hodge-201 are not representative of actual groundwater quality. Historically, cadmium has not been detected in any of the residential samples and the apparent cadmium detection for the current Hodge-201 sample is so low that it is on the fringe of the laboratory's ability to detect and quantify the presence of cadmium. Furthermore, there is no connection between it and any cadmium in groundwater on site. The lead results were also comparable with historical results indicating no detection or barely detectable concentrations well below New Jersey drinking water standards. Therefore, CSI recommends no further action regarding groundwater at the residences and the commercial facility.

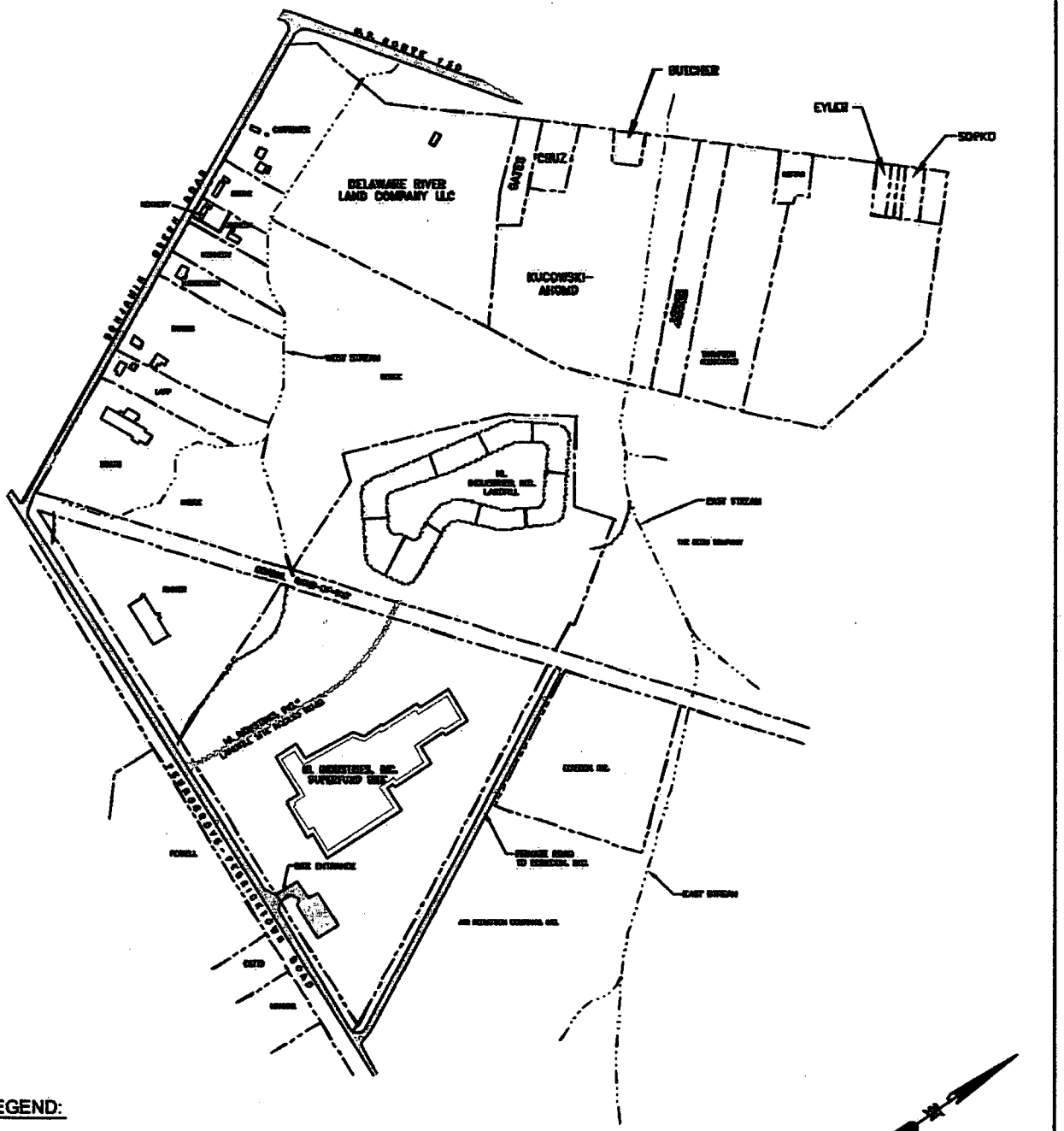
If you have any questions, please feel free to email me at jmoore@contactcsi.com or call me at (410) 268-7261.

Sincerely,
CSI ENVIRONMENTAL, LLC

Jeffrey W. Moore, P.E., P.G.
Principal

Cc: Mr. Paul Harvey, NJDEP
Mr. Jeff Leed, Leed Environmental
Technical Committee, Interim Pedricktown Site Group

FIGURES



LEGEND:

PROPERTY LINE

STREAM

0 300 600

SCALE IN FEET

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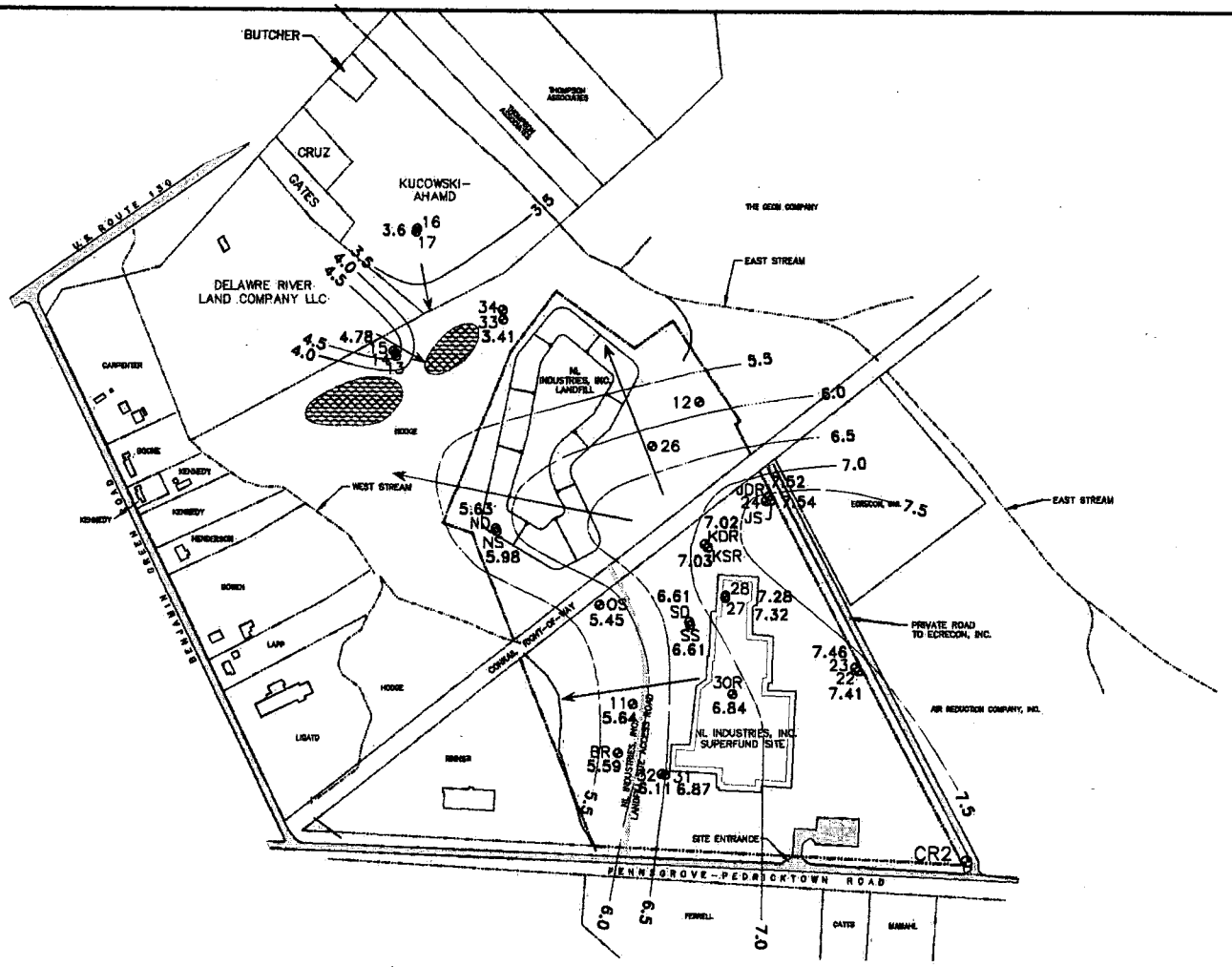
Location Plan

NL Industries Superfund Site
Pedricktown, New Jersey

FIGURE 1

Date\Time : Tue, 30 May 2006 - 4:57pm | Path\Name : C:\LIBRARY\cai\New NL\FIG-1-PW.dwg | APPROVED: C.STEVENS | DRAFTER: J.GOFORTH



LEGEND:

- PROPERTY LINE
- STREAM
- 11 EXISTING WELL (APPROXIMATE)
- 6.0 POTENTIOMETRIC SURFACE CONTOUR
- GENERALIZED GROUNDWATER FLOW DIRECTION
- (7.40) GROUNDWATER ELEVATION
- SURFACE WATER

NOTE:

1. GROUNDWATER ELEVATION DATA COLLECTED IN APRIL 2007.
2. ONLY WATER LEVELS FROM THE SHALLOW UNCONFINED AQUIFER USED FOR THIS FIGURE.

0 200 400
SCALE IN FEET

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Groundwater Elevations and Inferred Flow Direction, April 2007

NL Industries Superfund Site
Pedricktown, New Jersey

FIGURE 2

Date\Time : Sat, 28 Jul 2007 - 1:56pm | Path\Name : C:\LIBRARY\csi\NL\April-2007-R.dwg | CHECKED: CHECKER | APPROVED: MANAGER | DRAFTER: DRAFTER

TABLES

TABLE 1
Residential Well Sampling Results
June 20, 2006 and April 24, 2007
NL Industries Superfund Site
Pedricktown, NJ

	June-06	April-07	June-06	April-07	June-06	April-07	June-06	April-07	June-06	April-07
Sampling Location	Turbidity (NTU)	Turbidity (NTU)	Total Pb (ug/L)	Total Pb (ug/L)	Total Cd (ug/L)	Total Cd (ug/L)	Dissolved Pb (ug/L)	Dissolved Pb (ug/L)	Dissolved Cd (ug/L)	Dissolved Cd (ug/L)
EYLER-167	17.0	12.6	ND	0.83 J	ND	0.47 J	ND	0.26 J	ND	0.34 J
SOPKO-165	14.0	4.2	ND	0.33 J	ND	0.13 J	ND	0.12 J	ND	ND
CRUZ-195	210.0	1.5	ND	0.22 J	ND	ND	ND	ND	ND	ND
BUTCHER-189	150.0	5.0	ND	0.57 J	ND	ND	ND	0.25 J	ND	ND
GATES-197	100.0	7.0	ND	0.61 J	ND	ND	ND	ND	ND	ND
KUCOWSKI-AHAMD-191	5.4	5.7	ND	0.26 J	ND	ND	ND	ND	ND	ND
HODGE-201	3.6	7.2	ND	2.1 J	ND	1.4	ND	1.6 J	ND	1.6
Smith -100*	NA	6.2	NA	0.69 J	NA	1.5	NA	0.53 J	NA	1.6

ND = Not Detected
NA = Not Applicable
J = the positive results for this analyte is a quantitative estimate.
* Smith-100 is a replicate sample of Hodge-201.
Notes: NJDEP Action level for lead and cadmium as of 7 November 2005 is 5 ug/L and 4 ug/L, respectively.
The June 2006 data above was analyzed via CLP method ILM04.1 and the April 2007 data reported above was analyzed using EPA Method 200.8.

Table 2
Data Summary for Groundwater Wells 13-17 for the April 2007 Monitoring Well Sampling
NL Industries Superfund Site
Pedricktown, New Jersey

	Well Number					Comparison Criteria			
Parameter (ug/L)	13	14	15	16	17	RDL	MDL	NJGDWS	EPAMCL
Inorganics									
Total Cadmium	ND	ND	ND	ND	ND	5	0.12	4	5
Dissolved Cadmium	ND	ND	ND	ND	ND	5	0.12	NA	NA
Total Lead	ND	ND	ND	ND	ND	3	0.5	5	15
Dissolved Lead	ND	ND	ND	ND	ND	3	0.5	NA	NA

N/A = Not Applicable
ND = Non Detect
NJDWS = New Jersey Drinking Water Standards
RDL = Required Detection Limit (Contract)
MDL = Method Detection Limit (Instrument)
MCL = Maximum Contaminant Level
Note: The groundwater samples reported above were analyzed using CLP method ILM04.1.

ATTACHMENT A
VALIDATED LABORATORY REPORT

Premier Environmental Services

DATA VALIDATION SUMMARY
OF THE
NL INDUSTRIES SUPERFUND SITE
PEDRICKTOWN, NEW JERSEY

INORGANIC ANALYSES
IN RESIDENTIAL WELL SAMPLES

CHEMTECH LABORATORIES
MOUNTAINSIDE, NEW JERSEY

PROJECT NUMBER: Y2459, Y2472, Y2487

June, 2007

Prepared for
Construction Services Incorporated
Annapolis, Maryland

Prepared by
Premier Environmental Services
2815 Covered Bridge Road
Merrick, New York 11566
(516)223-9761

DATA VALIDATION FOR:	Residential Well Sample Analyses Total and Dissolved Cadmium and Lead
SITE:	NL Industries, Inc. Pedricktown, New Jersey
PROJECT NUMBER:	Y2459, Y2487, Y2472
CONTRACT LAB:	Chemtech Consulting Mountainside, New Jersey
REVIEWER:	Renee Cohen
DATE REVIEW COMPLETED:	June, 2007
MATRIX:	Aqueous

The data validation was performed according to the guidelines in the current SOP No. HW-2 (Revision 13), September, 2005 for the Evaluation of Metal Data for the Contract Laboratory Program. All data are considered valid and acceptable except those analytes which have been rejected "R" (unusable/unreliable). Due to various QC problems some analytes may have been qualified with a "J" (estimated), "N" (presumptive evidence for the presence of he material, "U" (non-detect), or "JN" (presumptive evidence for the presence of the material at an estimated value) flag. All actions are detailed on the attached sheets.

The "R" flag means that the associated value is unusable. In other words, significant data bias is evident and the reported analyte concentration is unreliable.

Appendix A of this report contains a copy of the definitions that may be used in this report. Appendix B of this report contains the qualified data result pages associated with this data set. Appendix C of this report contains a copy of the Chain of Custody (COC) documents that accompanied the samples to the laboratory. Appendix D of this report contains a copy of all unqualified data result pages and the QC summary sheets associated with this data set.

This data assessment is for a total of eight (8) residential well samples listed on the Chain of Custody documents that accompanied the samples to the laboratory. Each of the residential well samples was analyzed for Total and Dissolved metals. The eight (8) residential well samples were collected and reported in three (3) data reports. This data validation report is a summary of the three (3) laboratory reports. A cross-reference between Field Sample ID and Laboratory Sample ID is located in Table 1 of this report.

INORGANIC DATA ASSESSMENT

The samples in Laboratory Report Y2459 were collected on April 24, 2007. The samples were picked up by Chemtech Laboratories and brought to the laboratory on April 24, 2007. The samples were received at Chemtech Consulting, located in Mountainside, New Jersey. The samples were analyzed for the parameters listed on the chain of custody documents.

The samples in Laboratory Report Y2472 were collected on April 24, 2007 and picked up and received by Chemtech Laboratories on April 25, 2007. The samples in were shipped via Federal Express to the laboratory. The samples were received at Chemtech Consulting, located in Mountainside, New Jersey. The samples were received at the laboratory on June 22, 2006. The samples were analyzed for the parameters listed on the chain of custody documents.

The samples in Laboratory Report Y2487 were collected on April 26, 2007. The samples were picked up by Chemtech Laboratories and brought to the laboratory on April 26, 2007. The samples were received at Chemtech Consulting, located in Mountainside, New Jersey. The samples were analyzed for the parameters listed on the chain of custody documents.

1. OVERVIEW

The residential well samples were reported in three (3) laboratory reports. This review incorporates the review of the three data reports. Two (2) aqueous samples are associated with laboratory report Y2459. Five (5) samples are associated with laboratory report Y2472 and one (1) well sample is associated with laboratory report Y2487.

The samples in the three laboratory reports were all prepared in one (1) sample batch. This batch shared all blank and QC sample analysis. The samples and associated QC were all analyzed and reported from one (1) analytical sequence which was analyzed on May 3, 2007. The samples were analyzed using EPA Method 200.8 (ICP/MS).

2. HOLDING TIME

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Metals with the exception of Mercury, are required to be digested and analyzed within 180 days of Verified Time of Sample Receipt (VTSR). Mercury samples are to be digested and analyzed within 26 days of VTSR.

Eight (8) residential well samples were analyzed for both Total and Dissolved Metals using EPA Method 200.8. The aqueous samples were prepared/digested on May 1, 2007. The digestates were analyzed on May 3, 2007. All of the samples in this data set were prepared/digested and analyzed within the proper holding time.

3. CALIBRATION ANALYSIS

Inductively Coupled Plasma (ICP)/MS was utilized for these analyses. The ICP/MS was calibrated using a single point standard as required by the manufacturer. An initial calibration verification (ICV) standard was then analyzed to verify instrument calibration. The Total and Dissolved samples were analyzed in one (1) analytical sequence on May 3, 2007. Recoveries of the ICV standards associated with each analytical sequence met QC criteria. One continuing calibration verification (CCV) standard was then analyzed after each ten (10) field samples. All CCV percent recoveries met QC criteria.

4. CRDL STANDARD

The CRDL standard is used for the verification of instrument linearity near the CRDL. The CRDL standard control limits are 70%-130% recovery. If the CRDL standard falls outside of the control limits, associated data less than or equal to the 2X the CRDL are qualified estimated (J or UJ) or rejected (R) depending on the recovery of the CRDL standard and the concentration of the analyte in the sample. When the CRDL standard exceeds the control limit, indicating a high bias, and the associated sample results are non-detect, no action is taken. When the CRDL standard exceeds the control limit, indicating a high bias positive sample results are qualified estimated (J).

Three (3) CRDL standards are associated with the ICP Total and Dissolved Metal analytical sequence that is associated with the residential samples in this data set. The recovery of Lead and Cadmium in each of the CRDL standards associated with this data set met QC criteria.

5. INTERFERENCE CHECK STANDARD

The Interference Check Standard (ICS) is used to verify the laboratory interelement and background correction factors of the ICP. Two solutions comprise the ICS A and ICS AB. Solution A consists of the interferent metals while solution AB is the group of target analytes and the interferents metals. An ICS analysis consists of analyzing both solutions consecutively for all wavelengths used for each analyte reported by ICP.

All ICSA and ICSAB recoveries associated with these analyses met QC criteria.

6. MATRIX SPIKE ANALYSIS

The spike sample analysis provides information about the effect of the sample matrix upon the digestion and measurement methodology. The spike control limits are 75%-125% when the sample concentration is less than four (4) times the spike added. If the matrix spike recoveries fall in the range of 30%-74%, the sample results are may be biased low and are qualified as estimated (J or UJ). If the matrix spike recoveries fall in the range of 126%-200%, sample results may be biased high. Positive results are qualified estimated (J). If the spike recovery is greater than 125% and the reported sample results are less than the IDL the data point is acceptable for use. If the matrix spike recovery is greater than 200%, the associated sample data are unusable and are rejected (R). If matrix spike results are less than 30%, the associated non-detect results are qualified unusable and rejected (R), and the results reported above the IDL are qualified estimated (J).

Chemtech performed a Total and Dissolved Metal Matrix Spike analysis on sample Smith-100. Laboratory reports Y2459 and Y2472 only reported the results of the Total matrix spike sample analysis. Laboratory report Y2487 reported both the Total and Dissolved matrix spike summary report. A copy of both matrix spike summary report forms is located in Appendix D of this report. The recovery of Cadmium and Lead in sample Smith-100 met QC criteria in both the Total and Dissolved matrix spike sample analysis.

INORGANIC DATA ASSESSMENT

7. POST DIGESTION SPIKE ANALYSIS

The post digestion spike sample analysis provides additional information about the effect of the sample matrix upon the digestion and measurement methodology. The post digestion spike is performed for each analyte that the pre-digestion spike recovery falls outside the 75-125% control limit.

Post digestion spike analysis was not necessary for the Total and Dissolved Lead and Cadmium that is associated with this data set.

8. DUPLICATE SAMPLE ANALYSIS

The duplicate sample analysis is used to evaluate the precision of the methods for each parameter. If the duplicate sample analysis results for a particular analyte fall outside the control windows of 20% RPD or =/- CRDL, whichever is appropriate depending upon the concentration of the sample, the associated sample results are qualified "J" estimated.

Chemtech performed Total and Dissolved laboratory duplicate analysis on sample Smith 100. Laboratory reports Y2459 and Y2472 only reported the results of the Total duplicate sample analysis. Laboratory report Y2487 reported the results of both the Total and Dissolved duplicate analysis. A copy of both the Total and Dissolved duplicate sample analysis is located in Appendix D of this report. The relative percent difference of Cadmium in both the Total and Dissolved sample met QC criteria. The relative percent difference of Lead in both the Total and Dissolved sample exceeded QC criteria. The RPD of Lead in the Total sample analysis was 33.9 and 100.1 in the Dissolved duplicate analysis. Data qualification is not required for the Total Lead sample because both sample results are less than CRQL (1.0 ug/l). The laboratory result in the Dissolved sample was less than the CRQL, the result in the Dissolved duplicate sample was above the CRQL. The RPD was reported as 100.1, however when rechecked it was just 100%. The laboratory qualified this QC data point (*) as required by the method in laboratory reports Y2459 and Y2487. The duplicate RPD was not qualified in laboratory report Y2472 based on it being batch QC analysis. These sample results should have been qualified (*) as well. Data was not rejected based on the sample result being less than 5X the CRQL. This validator has replaced the (*) lab qualifier (when reported) with a "J/UJ" estimated in all of the residential well samples based on the guidelines in the data validation guide.

Qualified data result pages are located in Appendix B of this report.

INORGANIC DATA ASSESSMENT

9. ICP SERIAL DILUTION ANALYSIS

The serial dilution analysis indicates whether significant physical or chemical interference's exist due to the sample matrix. If the concentration of any analyte in the original sample is greater than 50 times the instrument detection limit (IDL), an analysis of a 5-fold dilution samples must yield results which have a percent difference (%D) of less than or equal to 10 with the original sample results. If the %D of the serial dilution exceeds the 10% (and is not greater than 100%) for a particular analyte, all the associated sample results are qualified estimated (J).

Chemtech performed Total and Dissolved ICP Serial Dilution analysis on sample Smith 100. The %Difference of Cadmium was 82.2%. The %Difference of Lead was 76.8%. A review of the analyte method detection limit indicated that the sample results reported were not greater than 50 times the MDL. The laboratory was not required to qualify the sample results, however the validation guidelines indicate that the sample results are to be qualified "J" estimated.

All Total and Dissolved Lead and Cadmium results in this data set have been qualified "J" estimated. Qualified data result pages are located in Appendix B of this report.

10. BLANKS

Blank analyses are assessed to determine the existence and magnitude of contamination problems. The criteria used for the evaluation of blanks applies to all blanks, including but not limited to reagent blanks, method blanks and field blanks. The responsibility for action in the case of an unsuitable blank result depends upon the circumstances and the origin of the blank itself. If the problem with any blank exists, then all associated data must be carefully evaluated to determine whether there is inherent variability in the data for that case, or the problem is an isolated occurrence not effecting other data.

One (1) preparation blank sample is associated with the Total and Dissolved Lead and Cadmium residential well samples in this data set. The preparation blank sample was free from contamination.

All initial and continuing calibration blanks associated with this data set were free from contamination of target analytes.

11. LABORATORY CONTROL SAMPLE ANALYSIS

The laboratory control sample (LCS) analysis provides information about the efficiency of the digestion procedure. If the recovery of any analyte is outside the established control limits (aqueous 80%-120%), then laboratory performance and method accuracy are in question. Professional judgment is used to determine of data should be qualified or rejected.

The aqueous LCS standard associated with both the Total and Dissolved Lead and Cadmium analyses met QC criteria.

INORGANIC DATA ASSESSMENT

12. SAMPLE RESULTS DATA

Eight (8) residential well samples in this data set were analyzed for Total and Dissolved Metals based on the EPA Method 200.8. Data was reviewed using the current USEPA Region 2 Data Review SOP (HW-13).

Total and Dissolved sample results were reviewed for sample concentrations. Data was reported in accordance with the cited method. Laboratory qualifiers were added to results when necessary except in the cases detailed above. Each of the samples was analyzed and reported without dilution. A review of Total and Dissolved sample results was performed. The data results associated with this data set are acceptable for use with the noted data qualifiers.

Qualified data result pages are located in Appendix B of this report.

13. FIELD DUPLICATE DATA

Field duplicate samples are collected and analyzed as an indication of overall precision. These results are expected to have more variability than laboratory duplicate samples. Soil samples will have a greater variance due to the difficulties associated with collecting exact duplicate soil samples than aqueous samples. Data was not qualified based on the results of the field duplicate sample data.

Aqueous field sample Hodge 201 and aqueous field sample Smith 100 are field duplicates. The samples were blind duplicates submitted to the laboratory for analysis.

Total Metal Analyses
Hodge 201(Y2472-4)/Smith 100(Y2487-1)

Analyte	Result ug/l	Result ug/l	RPD%
Cadmium	1.4	1.5	6.9
Lead	2.1	0.69 J	101

Dissolved Metal Analyses
Hodge 201(Y2472-9)/Smith 100(Y2487-4)

Analyte	Result ug/l	Result ug/l	RPD%
Cadmium	1.6	1.6	0
Lead	1.6	0.53 J	100

The high RPD in Lead in both the Total and Dissolved sample is most likely based on the difference in the initial sample collection and the blind field duplicate sample collection. The RPD between the Cadmium results are acceptable. Based on the data validation guidelines the Lead data has been qualified "UJ/J" estimated. The absolute difference between the duplicate results is greater than the CRQL but less than 5X the CRQL. The Lead results have been previously qualified therefore, no further action is required.

Qualified data result ages are located in Appendix B of this report.

INORGANIC DATA ASSESSMENT

14. INSTRUMENT QC DATA

The laboratory is required by the method to perform specific instrument verification tests on a specific timeframe. Based on a review of the QC summary forms included in the data report, Chemtech performed the required studies specified by the method in the correct time-frame.

15. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

This data set included the analysis of eight (8) aqueous samples for Total and Dissolved Lead and Cadmium. Sample results have been reported in accordance with the cited methods.

The samples in this data set were analyzed using EPA Method 200.8. The laboratory used site-specific QC for all three data reports however, only applied data qualifiers to the samples in which the site-specific QC applied. This data validator has applied the appropriate validation qualifiers to all samples in the data set. The details for the applied qualifiers are explained in the above text.

The data associated with this data set is acceptable for use with the noted data qualifiers. Data qualifiers have been applied to this data set based on the guidelines in the cited EPA documents. All qualified data result pages are located in Appendix B of this report.

Appendix D of this data set includes copies of all laboratory report pages that were in each of the final reports. These pages are not qualified. Where duplicate information from each report exists, only one set was provided in this Appendix .

TABLE 1

2815 COVERED BRIDGE ROAD, MERRICK, NEW YORK 11566
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Premier Environmental Services

CLIENT SAMPLE ID	LABORATORY SAMPLE ID
CRUZ-195	Y2459-01
EYLER-167	Y2459-02
CRUZ-195	Y2459-03
EYLER-167	Y2459-04
SMITH-100	Y2487-01
SMITH-100MS	Y2487-02
SMITH-100MSD	Y2487-03
SMITH-100	Y2487-04
SMITH-100MS	Y2487-05
SMITH-100MSD	Y2487-06
BUTCHER-189	Y2472-01
SOPKO-165	Y2472-02
GATES-197	Y2472-03
HODGE-201	Y2472-04
KUCOWSKI-AHAMD-19	Y2472-05
BUTCHER-189	Y2472-06
SOPKO-185	Y2472-07
GATES-197	Y2472-08
HODGE-201	Y2472-09
KUCOWSKI-AHAMD-19	Y2472-10

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APPENDIX A

2815 COVERED BRIDGE ROAD, MERRICK, NEW YORK 11566
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Premier Environmental Services

DATA QUALIFIER DEFINITIONS

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."

NJ - The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R - The sample results are unreliable/unusable. The presence or absence of the analyte cannot be verified.

K – The analyte is present. The reported value may be biased high. The actual value is expected to be lower than reported.

L - The analyte is present. The reported value may be biased low. The actual value is expected to be higher than reported.

UL – The analyte was not detected, and the reported quantitation limit is probably higher than reported.

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APPENDIX B

2815 COVERED BRIDGE ROAD, MERRICK, NEW YORK 11566
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Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

CRUZ-195

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2459

NRAS No.: Y2459 SDG NO.: Y2459

Matrix (soil/water): WATER

Lab Sample ID: Y2459-01

Level (low/med): LOW

Date Received: 04/24/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	0.22	J		MS

J

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EYLER-167

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2459

NRAS No.: Y2459 SDG NO.: Y2459

Matrix (soil/water): WATER

Lab Sample ID: Y2459-02

Level (low/med): LOW

Date Received: 04/24/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.47	J		MS
7439-92-1	Lead	0.53	J		MS

J

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

CRUZ-195

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2459

NRAS No.: Y2459 SDG NO.: Y2459

Matrix (soil/water): WATER

Lab Sample ID: Y2459-03

Level (low/med): LOW

Date Received: 04/24/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	1.0	U	*	MS

UJ

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EYLER-167

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2459

NRAS No.: Y2459 SDG NO.: Y2459

Matrix (soil/water): WATER

Lab Sample ID: Y2459-04

Level (low/med): LOW

Date Received: 04/24/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.34	J		MS
7439-92-1	Lead	0.26	J		MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BUTCHER-189

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-01

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	0.57	J		MS

J

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOPKO-165

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-02

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.13	J		MS
7439-92-1	Lead	0.33	J		MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

GATES-197

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-03

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	0.61	J		MS

J

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

HODGE-201

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-04

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.4			MS
7439-92-1	Lead	2.1			MS J

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

KUCOWSKI-AHAMD-191

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-05

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	0.26	J		MS

J

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BUTCHER-189

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-06

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	0.25	J		MS

J

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOPKO-165

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-07

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	0.12	J		MS

J

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

GATES-197

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-08

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	1.0	U		MS

UJ

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

HODGE-201

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-09

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.6			MS
7439-92-1	Lead	1.6			MS J

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

KUCOWSKI-AHAMD-191

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-10

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	1.0	U		MS

UJ

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMITH-100

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2487 NRAS No.: Y2487 SDG NO.: Y2487

Matrix (soil/water): WATER Lab Sample ID: Y2487-01

Level (low/med): LOW Date Received: 04/26/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.5			MS
7439-92-1	Lead	0.69	J		MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMITH-100

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2487 NRAS No.: Y2487 SDG NO.: Y2487

Matrix (soil/water): WATER Lab Sample ID: Y2487-04

Level (low/med): LOW Date Received: 04/26/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.6			MS
7439-92-1	Lead	0.53	J		MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

APPENDIX C

2815 COVERED BRIDGE ROAD, MERRICK, NEW YORK 11566
(516) 223-9761 • FAX (516) 223-0983

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Y2459

COC Number 064737

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: CST
ADDRESS: 918 Chesapeake Ave
CITY: Annapolis STATE: MD ZIP: 21403
ATTENTION: J. Dustin Ferris
PHONE: 410-268-3077 FAX: 410-2680145

CLIENT PROJECT INFORMATION

PROJECT NAME: NL
PROJECT NO.: 00-0771 LOCATION:
PROJECT MANAGER: Jeff Moore
e-mail: JDFERRIS@CONTRACTCST.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: Same
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: DAYS *
HARD COPY: STD DAYS *
EDD: DAYS *
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ EDD FORMAT
- ☒ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other

ANALYSIS

1 Total Phosph by 200.8
2 Diss Phosph by 200.8
3 4 5 6 7 8 9

PRESERVATIVES

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	1 (B)	2 (B)	3	4	5	6	7	8	9	COMMENTS
1.	CRUZ-195	H_2O		X	4/24/07	0925	2	X	X								
2.	EYLER-167	↓		X	↓	0941	2	X	X								
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A–HCl B–HNO_3
C–H_2SO_4 D–NaOH
E–ICE F–Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 4/24/07 1155	RECEIVED BY: 1. J. Dalton
RELINQUISHED BY: 2.	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: 3. J. Dalton	DATE/TIME: 3:50 4-24-07	RECEIVED FOR LAB BY: 3. Sneha Mehta

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 4°C
Ice In Cooler?: YES

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☒ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH

AIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. Y2472

COC Number 064750

CLIENT INFORMATION — REPORT TO BE SENT TO:

COMPANY: CSI
ADDRESS: 918 Chesapeake Ave
CITY: Annapolis STATE: MD ZIP: 21403
ATTENTION: J. Dustin Ferris
PHONE: 410-268-0145 FAX: 410-268-3077

CLIENT PROJECT INFORMATION

PROJECT NAME: NL
PROJECT NO.: 00771 LOCATION:
PROJECT MANAGER: Jeff Moore
e-mail: JDFERRIS@CONTRACSI.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: Same
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

X: _____ DAYS *
RD COPY: 5D DAYS *
D: _____ DAYS *
O BE APPROVED BY CHEMTECH
TANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ EDD FORMAT
- ☒ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other _____

ANALYSIS

1 Total Pb+Cd by 200.8
2 Diss Pb+Cd by 200.8
3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (B)	2 (B)	3	4	5	6	7	8	9	COMMENTS
G, 1	Butcher-189	H_2O		X	4/24/07	1505	2	X	X								
7 2	Sopko-165	↓		X	↓	1530	2	X	X								
8, 3	Gates-197	↓		X	↓	1800	2	X	X								
9, 4	Hodge-201	↓		X	↓	1827	2	X	X								
0, 5	Kucinski-Ahmed-191	↓		X	↓	1850	2	X	X								

← Specify Preservatives
A-HCl B-HNO_3
C-H_2SO_4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

QUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
[signature]	4/25/07 1330	1. [signature]
QUISHED BY:	DATE/TIME:	RECEIVED BY: 2.
QUISHED BY: [signature]	DATE/TIME: 4:00 4-25-07	RECEIVED FOR LAB BY: 3. [signature]

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 4°C
Ice in Cooler?: YES

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☒ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO: Y2487

COC Number 064694

CLIENT INFORMATION (REPORT TO BE SENT TO:)

COMPANY: CSI
ADDRESS: 918 Chesapeake Ave
CITY: Annapolis STATE: MD ZIP: 21403
ATTENTION: J. Dustin Ferris
PHONE: 410-268-3077 FAX: 410-268-0145

CLIENT PROJECT INFORMATION

PROJECT NAME: NL
PROJECT NO.: 00-0771 LOCATION:
PROJECT MANAGER: Jeff Moore
e-mail: JDFERRIS@CONTACTCSI.COM
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: Same
CITY: STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX: DAYS *
HARD COPY: STD DAYS *
EDD: DAYS *
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ RESULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ EDD FORMAT
- ☒ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other

ANALYSIS

1 Total Pb+Cd by 12006
2 Diss Pb+Cd by 7010
3 4 5 6 7 8 9

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	SMITH-100	H_2O		X	4/26/07	1245	6	X	X								MS/MSD VOL
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl B-HNO_3
C-H_2SO_4 D-NaOH
E-ICE F-Other

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 4/26/07 14:10	RECEIVED BY: 1. [signature]
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY: 2.
RELINQUISHED BY: [signature]	DATE/TIME: 4/26/07 16:20	RECEIVED FOR LAB BY: 3. Sreenal Mehta

Conditions of bottles or coolers at receipt: ☒ Compliant ☐ Non Compliant
MeOH extraction requires an additional 4 oz jar for percent solid.
Comments:

Cooler Temp. 4°C
Ice in Cooler?: Yes

Page 1 of 1

SHIPPED VIA: CLIENT: ☐ HAND DELIVERED ☐ OVERNIGHT
CHEMTECH: ☒ PICKED UP ☐ OVERNIGHT

Shipment Complete: ☒ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Revision 4/2005

APPENDIX D

2815 COVERED BRIDGE ROAD, MERRICK, NEW YORK 11566
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1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

CRUZ-195

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2459 NRAS No.: Y2459 SDG NO.: Y2459

Matrix (soil/water): WATER Lab Sample ID: Y2459-01

~~Level (low/med): LOW~~ ~~Date Received: 04/24/2007~~

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	0.22	J	*	MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EYLER-167

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED

Case No.: Y2459

NRAS No.: Y2459

SDG NO.: Y2459

Matrix (soil/water): WATER

Lab Sample ID: Y2459-02

~~Level (low/med): LOW~~

~~Date Received: 04/24/2007~~

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.47	J		MS
7439-92-1	Lead	0.53	J	*	MS

Color Before: Colourless

Clarity Before: Clear

Texture:

Color After: Colourless

Clarity After: Clear

Artifacts:

Comments:

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

CRUZ-195

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED

Case No.: Y2459

NRAS No.: Y2459

SDG NO.: Y2459

Matrix (soil/water): WATER

Lab Sample ID: Y2459-03

Level (low/med): LOW

Date Received: 04/24/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	1.0	U	*	MS

Color Before: Colourless

Clarity Before: Clear

Texture:

Color After: Colourless

Clarity After: Clear

Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EYLER-167

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2459

NRAS No.: Y2459 SDG NO.: Y2459

Matrix (soil/water): WATER

Lab Sample ID: Y2459-04

Level (low/med): LOW

Date Received: 04/24/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.34	J		MS
7439-92-1	Lead	0.26	J	*	MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BUTCHER-189

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472

NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER

Lab Sample ID: Y2472-01

Level (low/med): LOW

Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	0.57	J		MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOPKO-165

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED

Case No.: Y2472

NRAS No.: Y2472

SDG NO.: Y2472

Matrix (soil/water): WATER

Lab Sample ID: Y2472-02

Level (low/med): LOW

Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	0.13	J		MS
7439-92-1	Lead	0.33	J		MS

Color Before: Colourless

Clarity Before: Clear

Texture:

Color After: Colourless

Clarity After: Clear

Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

GATES-197

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-03

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	0.61	J		MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

HODGE-201

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472

NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER

Lab Sample ID: Y2472-04

Level (low/med): LOW

Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.4			MS
7439-92-1	Lead	2.1			MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

KUCOWSKI-AHAMD-191

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472

NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER

Lab Sample ID: Y2472-05

Level (low/med): LOW

Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	0.26	J		MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

BUTCHER-189

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-06

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	0.25	J		MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SOPKO-165

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED

Case No.: Y2472

NRAS No.: Y2472

SDG NO.: Y2472

Matrix (soil/water): WATER

Lab Sample ID: Y2472-07

Level (low/med): LOW

Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	0.12	J		MS

Color Before: Colourless

Clarity Before: Clear

Texture:

Color After: Colourless

Clarity After: Clear

Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

GATES-197

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-08

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	1.0	U		MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

HODGE-201

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-09

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.6			MS
7439-92-1	Lead	1.6			MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

KUCOWSKI-AHAMD-191

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 NRAS No.: Y2472 SDG NO.: Y2472

Matrix (soil/water): WATER Lab Sample ID: Y2472-10

Level (low/med): LOW Date Received: 04/25/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.0	U		MS
7439-92-1	Lead	1.0	U		MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMITH-100

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2487

NRAS No.: Y2487 SDG NO.: Y2487

Matrix (soil/water): WATER

Lab Sample ID: Y2487-01

Level (low/med): LOW

Date Received: 04/26/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.5			MS
7439-92-1	Lead	0.69	J	*	MS

Color Before: Colourless Clarity Before: Clear Texture:

Color After: Colourless Clarity After: Clear Artifacts:

Comments:

Metals

1A-IN

INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

SMITH-100

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED

Case No.: Y2487

NRAS No.: Y2487

SDG NO.: Y2487

Matrix (soil/water): WATER

Lab Sample ID: Y2487-04

Level (low/med): LOW

Date Received: 04/26/2007

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-43-9	Cadmium	1.6			MS
7439-92-1	Lead	0.53	J	*	MS

Color Before: Colourless

Clarity Before: Clear

Texture:

Color After: Colourless

Clarity After: Clear

Artifacts:

Comments:

Metals

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Cadmium	100.0	97.13	97.1	250.0	252.20	100.9	253.50	101.4	MS
Lead	200.0	202.40	101.2	250.0	252.80	101.1	251.60	100.6	MS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Metals

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Cadmium				250.0	257.70	103.1	260.60	104.2	MS
Lead				250.0	252.00	100.8	256.20	102.5	MS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

Metals

2A
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

Initial Calibration Source: Inorganic Ventures/Fisher

Continuing Calibration Source: SPEX/Fisher

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Cadmium				250.0	258.50	103.4			MS
Lead				250.0	254.10	101.6			MS

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

AA CRDL Standard Source:

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Cadmium				1.0	0.97	97.0	0.93	93.0
Lead				1.0	1.08	108.0	1.06	106.0

Control Limits: no limits have been established by EPA at this time

2B-IN

CRDL STANDARD FOR AA AND ICP

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

AA CRDL Standard Source:

ICP CRDL Standard Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True	Found	%R	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Cadmium				1.0			1.11	111.0
Lead				1.0			1.06	106.0

Control Limits: no limits have been established by EPA at this time

Metals

3

BLANKS

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Cadmium	0.1	U	0.1	U	0.1	U	0.1	U	0.119	U	MS
Lead	0.1	U	0.1	U	0.1	U	0.1	U	0.123	U	MS

Metals

3

BLANKS

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Cadmium			0.1	U	0.1	U					MS
Lead			0.1	U	0.1	U					MS

4

ICP INTERFERENCE CHECK SAMPLE

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

ICP ID Number: MS ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Cadmium	0	20	0.34	20.5	102.5			
Lead	4	25	4.4	25.0	100.0			

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SMITH-100S

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Cadmium	75 - 125	53.2900		1.5210		50.00	103.5		MS
Lead	75 - 125	21.6500		0.6940	J	20.00	104.8		MS

Comments:

5A

SPIKE SAMPLE RECOVERY

SAMPLE NO.

SMITH-100S

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2487 SAS No.: Y2487 SDG No.: Y2487

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Cadmium	75 - 125	52.3800		1.5520		50.00	101.7		MS
Lead	75 - 125	21.1200		0.5270	J	20.00	103.0		MS

Comments:

6

DUPLICATES

SAMPLE NO.

SMITH-100D

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Cadmium	1.0	1.5210		1.6230		6.5		M
Lead		0.6940	J	0.9770	J	33.9		M

6

DUPLICATES

SAMPLE NO.

SMITH-100D

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2487 SAS No.: Y2487 SDG No.: Y2487

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Cadmium	1.0	1.5520		1.5170		2.3		MS
Lead	1.0	0.5270	J	1.5830		100.1	*	MS

7

LABORATORY CONTROL SAMPLE

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

Solid LCS Source:

Aqueous LCS Source: Inorganic Ventures

Analyte	Aqueous (ug/L) True	Found	%R	Solid (mg/kg) True	Found	C	Limits		%R
Cadmium	100.0	97.79	97.8						
Lead	200.0	202.80	101.4						

9

ICP SERIAL DILUTIONS

SAMPLE NO.

SMITH-100L

Lab Name: Chemtech Consulting Group Contract: Constructio

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Cadmium	1.52		0.27	J	82.2		MS
Lead	0.69	J	0.16	J	76.8		MS

9

ICP SERIAL DILUTIONS

SAMPLE NO.

SMITH-100L

Lab Name: Chemtech Consulting Group Contract: Constructio

Lab Code: CHEMED Case No.: Y2487 SAS No.: Y2487 SDG No.: Y2487

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Cadmium	1.55		0.31	J	80.0		MS
Lead	0.53	J	0.14	J	73.6		MS

10

INSTRUMENT DETECTION LIMITS (QUARTERLY)

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

ICP ID Number: MS Date: 2/15/2007

Flame AA ID Number:

Furnace AA ID Number:

Analyte	Isotope	Back-ground	CRQL (ug/L)	MDL (ug/L)	M
Cadmium	111		1	0.12	MS
Lead	208		1	0.12	MS

Comments:

12

ICP LINEAR RANGES (QUARTERLY)

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

ICP ID Number: MS Date: 4/2/2007

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	M
Cadmium	0.100	5000.0	MS
Lead	0.100	4500.0	MS

Comments:

13

PREPARATION LOG

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2459 SAS No.: Y2459 SDG No.: Y2459

Method: MS

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
CRUZ-195	5/1/2007	50.0	50.0
CRUZ-195	5/1/2007	50.0	50.0
EYLER-167	5/1/2007	50.0	50.0
EYLER-167	5/1/2007	50.0	50.0
PB26434BL	5/1/2007	50.0	50.0
PB26434BS	5/1/2007	50.0	50.0
SMITH-100D	5/1/2007	50.0	50.0
SMITH-100S	5/1/2007	50.0	50.0

13

PREPARATION LOG

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2472 SAS No.: Y2472 SDG No.: Y2472

Method: MS

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
BUTCHER-189	5/1/2007	50.0	50.0
BUTCHER-189	5/1/2007	50.0	50.0
GATES-197	5/1/2007	50.0	50.0
GATES-197	5/1/2007	50.0	50.0
HODGE-201	5/1/2007	50.0	50.0
HODGE-201	5/1/2007	50.0	50.0
KUCOWSKI-AHAMD-191	5/1/2007	50.0	50.0
KUCOWSKI-AHAMD-191	5/1/2007	50.0	50.0
PB26434BL	5/1/2007	50.0	50.0
PB26434BS	5/1/2007	50.0	50.0
SMITH-100D	5/1/2007	50.0	50.0
SMITH-100S	5/1/2007	50.0	50.0
SOPKO-165	5/1/2007	50.0	50.0
SOPKO-165	5/1/2007	50.0	50.0

13

PREPARATION LOG

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2487 SAS No.: Y2487 SDG No.: Y2487

Method: MS

EPA Sample No.	Preparation Date	Initial Volume mL	Volume (mL)
PB26434BL	5/1/2007	50.0	50.0
PB26434BS	5/1/2007	50.0	50.0
SMITH-100	5/1/2007	50.0	50.0
SMITH-100	5/1/2007	50.0	50.0
SMITH-100D	5/1/2007	50.0	50.0
SMITH-100D	5/1/2007	50.0	50.0
SMITH-100S	5/1/2007	50.0	50.0
SMITH-100S	5/1/2007	50.0	50.0

Metals

14

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED

Case No.: Y2459

SAS No.: Y2459

SDG No.: Y2459

Instrument ID Number: MS

Method: MS

Start Date: 5/3/2007

End Date: 5/3/2007

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1436							X						X												
S1	1.00	1444							X						X												
S2	1.00	1453							X						X												
S3	1.00	1502							X						X												
S4	1.00	1510							X						X												
S5	1.00	1519							X						X												
ICV01	1.00	1527							X						X												
ICB01	1.00	1536							X						X												
CRI01	1.00	1545							X						X												
ICS-A01	1.00	1554							X						X												
ICS-AB01	1.00	1602							X						X												
CCV01	1.00	1611							X						X												
CCB01	1.00	1620							X						X												
PB26434BL	1.00	1628							X						X												
PB26434BS	1.00	1637							X						X												
CRUZ-195	1.00	1646							X						X												
EYLER-167	1.00	1654							X						X												
CRUZ-195	1.00	1703							X						X												
EYLER-167	1.00	1712							X						X												
ZZZZZZ	1.00	1720																									
ZZZZZZ	1.00	1729																									
ZZZZZZ	1.00	1738																									
ZZZZZZ	1.00	1746																									
CCV02	1.00	1755							X						X												
CCB02	1.00	1804							X						X												
ZZZZZZ	1.00	1812																									
ZZZZZZ	1.00	1821																									
ZZZZZZ	1.00	1830																									
ZZZZZZ	1.00	1838																									
ZZZZZZ	1.00	1847																									
ZZZZZZ	1.00	1856																									
ZZZZZZ	1.00	1904																									
CRI02	1.00	1913							X						X												
CCV03	1.00	1922							X						X												
CCB03	1.00	1930							X						X												
ZZZZZZ	1.00	1939																									
ZZZZZZ	1.00	1948																									
SMITH-100D	1.00	1956							X						X												

Form XIV - IN

Metal

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group
Contract: Construction Services Int.
Lab Code: CHEMED
Case No.: Y2459
SAS No.: Y2459
SDG No.: Y2459
Instrument ID Number: MS
Method: MS
Start Date: 5/3/2007
End Date: 5/3/2007

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SMITH-100S	1.00	2005							X						X												
SMITH-100L	1.00	2014							X						X												
ZZZZZZ	1.00	2022																									
ZZZZZZ	1.00	2031																									
ZZZZZZ	1.00	2040																									
ZZZZZZ	1.00	2048																									
ZZZZZZ	1.00	2057																									
CCV04	1.00	2106							X						X												
CCB04	1.00	2114							X						X												
ZZZZZZ	1.00	2123																									
ZZZZZZ	1.00	2132																									
ZZZZZZ	1.00	2140																									
ZZZZZZ	1.00	2149																									
ZZZZZZ	1.00	2158																									
ZZZZZZ	1.00	2206																									
ZZZZZZ	1.00	2215																									
ZZZZZZ	1.00	2224																									
ZZZZZZ	1.00	2232																									
CRI03	1.00	2241							X						X												
CCV05	1.00	2250							X						X												
CCB05	1.00	2259							X						X												

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group
Contract: Construction Services Int.
Lab Code: CHEMED
Case No.: Y2472
SAS No.: Y2472
SDG No.: Y2472
Instrument ID Number: MS
Method: MS
Start Date: 5/3/2007
End Date: 5/3/2007

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1436							X						X												
S1	1.00	1444							X						X												
S2	1.00	1453							X						X												
S3	1.00	1502							X						X												
S4	1.00	1510							X						X												
S5	1.00	1519							X						X												
ICV01	1.00	1527							X						X												
ICB01	1.00	1536							X						X												
CRI01	1.00	1545							X						X												
ICS-A01	1.00	1554							X						X												
ICS-AB01	1.00	1602							X						X												
CCV01	1.00	1611							X						X												
CCB01	1.00	1620							X						X												
PB26434BL	1.00	1628							X						X												
PB26434BS	1.00	1637							X						X												
ZZZZZZ	1.00	1646																									
ZZZZZZ	1.00	1654																									
ZZZZZZ	1.00	1703																									
ZZZZZZ	1.00	1712																									
BUTCHER-189	1.00	1720							X						X												
SOPKO-165	1.00	1729							X						X												
GATES-197	1.00	1738							X						X												
HODGE-201	1.00	1746							X						X												
CCV02	1.00	1755							X						X												
CCB02	1.00	1804							X						X												
KUCOWSKI-AHAMD-191	1.00	1812							X						X												
BUTCHER-189	1.00	1821							X						X												
SOPKO-165	1.00	1830							X						X												
GATES-197	1.00	1838							X						X												
HODGE-201	1.00	1847							X						X												
ZZZZZZ	1.00	1856																									
ZZZZZZ	1.00	1904																									
CRI02	1.00	1913							X						X												
CCV03	1.00	1922							X						X												
CCB03	1.00	1930							X						X												
KUCOWSKI-AHAMD-191	1.00	1939							X						X												
ZZZZZZ	1.00	1948																									
SMITH-100D	1.00	1956							X						X												

Metals

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ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group

Contract: Construction Services Int.

Lab Code: CHEMED

Case No.: Y2472

SAS No.: Y2472

SDG No.: Y2472

Instrument ID Number: MS

Method: MS

Start Date: 5/3/2007

End Date: 5/3/2007

EPA Sample No.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SMITH-100S	1.00	2005							X						X												
SMITH-100L	1.00	2014							X						X												
ZZZZZZ	1.00	2022																									
ZZZZZZ	1.00	2031																									
ZZZZZZ	1.00	2040																									
ZZZZZZ	1.00	2048																									
ZZZZZZ	1.00	2057																									
CCV04	1.00	2106							X						X												
CCB04	1.00	2114							X						X												
ZZZZZZ	1.00	2123																									
ZZZZZZ	1.00	2132																									
ZZZZZZ	1.00	2140																									
ZZZZZZ	1.00	2149																									
ZZZZZZ	1.00	2158																									
ZZZZZZ	1.00	2206																									
ZZZZZZ	1.00	2215																									
ZZZZZZ	1.00	2224																									
ZZZZZZ	1.00	2232																									
CRI03	1.00	2241							X						X												
CCV05	1.00	2250							X						X												
CCB05	1.00	2259							X						X												

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2487 SAS No.: Y2487 SDG No.: Y2487

Instrument ID Number: MS Method: MS

Start Date: 5/3/2007 End Date: 5/3/2007

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
S0	1.00	1436							X						X												
S1	1.00	1444							X						X												
S2	1.00	1453							X						X												
S3	1.00	1502							X						X												
S4	1.00	1510							X						X												
S5	1.00	1519							X						X												
ICV01	1.00	1527							X						X												
ICB01	1.00	1536							X						X												
CRI01	1.00	1545							X						X												
ICS-A01	1.00	1554							X						X												
ICS-AB01	1.00	1602							X						X												
CCV01	1.00	1611							X						X												
CCB01	1.00	1620							X						X												
PB26434BL	1.00	1628							X						X												
PB26434BS	1.00	1637							X						X												
ZZZZZZ	1.00	1646																									
ZZZZZZ	1.00	1654																									
ZZZZZZ	1.00	1703																									
ZZZZZZ	1.00	1712																									
ZZZZZZ	1.00	1720																									
ZZZZZZ	1.00	1729																									
ZZZZZZ	1.00	1738																									
ZZZZZZ	1.00	1746																									
CCV02	1.00	1755							X						X												
CCB02	1.00	1804							X						X												
ZZZZZZ	1.00	1812																									
ZZZZZZ	1.00	1821																									
ZZZZZZ	1.00	1830																									
ZZZZZZ	1.00	1838																									
ZZZZZZ	1.00	1847																									
ZZZZZZ	1.00	1856																									
ZZZZZZ	1.00	1904																									
CRI02	1.00	1913							X						X												
CCV03	1.00	1922							X						X												
CCB03	1.00	1930							X						X												
ZZZZZZ	1.00	1939																									
SMITH-100	1.00	1948							X						X												
SMITH-100D	1.00	1956							X						X												

ANALYSIS RUN LOG

Lab Name: Chemtech Consulting Group Contract: Construction Services Int.

Lab Code: CHEMED Case No.: Y2487 SAS No.: Y2487 SDG No.: Y2487

Instrument ID Number: MS Method: MS

Start Date: 5/3/2007 End Date: 5/3/2007

EPA Sample No.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SMITH-100S	1.00	2005							X						X												
SMITH-100L	1.00	2014							X						X												
SMITH-100	1.00	2022							X						X												
SMITH-100D	1.00	2031							X						X												
SMITH-100S	1.00	2040							X						X												
SMITH-100L	1.00	2048							X						X												
ZZZZZZ	1.00	2057																									
CCV04	1.00	2106							X						X												
CCB04	1.00	2114							X						X												
ZZZZZZ	1.00	2123																									
ZZZZZZ	1.00	2132																									
ZZZZZZ	1.00	2140																									
ZZZZZZ	1.00	2149																									
ZZZZZZ	1.00	2158																									
ZZZZZZ	1.00	2206																									
ZZZZZZ	1.00	2215																									
ZZZZZZ	1.00	2224																									
ZZZZZZ	1.00	2232																									
CRI03	1.00	2241							X						X												
CCV05	1.00	2250							X						X												
CCB05	1.00	2259							X						X												