

# RCRA FACILITY INVESTIGATION (RFI) RESULTS OF OFF-SITE SUPPLEMENTAL LEAD INVESTIGATION ATTICA, INDIANA USEPA ID# IND00810754

Prepared for

C&D Technologies 1400 Union Meeting Road Blue Bell, Pennsylvania 19422-0858

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# **List of Acronyms**

AERMAP AERMET	American Meteorological Society/EPA Regulatory Model Terrain Preprocessor AERMOD meteorological preprocessor
AERMOD	American Meteorological Society/EPA Regulatory Model
ASOS	Automated Surface Observing System
BEEST	AERMOD Modeling Software
bgs	Below Ground Surface
C&D	C&D Technologies
COC	Chain of Custody
EPC	Exposure Point Concentration
IDEM	Indiana Department of Environmental Management
IEUBK	Integrated Uptake Biokinetic (model)
LCS	Laboratory Control Sample
mg/kg	milligrams per kilogram
NED	National Elevation Dataset
OZ	Ounce
PTE	Potential to Emit
PVC	Poly Vinyl Chloride
QAPP	Quality Assurance Project Plan
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
SDG	Sample Delivery Group
SV	Screening Value
UCL	Upper Confidence Limit
URS	URS Corporation
U.S. EPA	United States Environmental Protection Agency
USGS	United States Geological Survey
UTM	Universal Transverse Mercator (coordinate system)
XRF	X-ray Fluorescence

# 1.1 BACKGROUND

C&D Technologies (C&D) retained URS Corporation (URS) to develop and implement an environmental investigative program for C&D's Attica Indiana Facility located at 200 West Main Street, Attica, Fountain County, Indiana (the Site or Facility).

On June 21, 2011, C&D Technologies received a letter from the U.S. Environmental Protection Agency (EPA), Region 5 requesting additional work due to the preliminary results from the RCRA facility investigation that was conducted by C&D. The RCRA investigation included collecting off site soil samples from 4 locations in a commercial area north of the property and 16 locations in the rights of way in nearby residential areas. Although the results from the investigation indicated that residential lead levels did not exceed Indiana Department of Environmental Management (IDEM) Residential Soil Direct Closure Levels (URS, 2008, 2009), EPA concluded that there was a potential for lead contamination in the residential area due to its close proximity to the facility. As a result, EPA requested that C&D further assess the potential migration of lead from battery manufacturing operations in order to add certainty to the RCRA investigation.

On behalf of C&D, URS developed a Supplemental Lead Sampling Plan (URS, 2011) in order to address the residential area adjacent to the facility. The Sampling Plan proposed to collect soil samples on the actual homeowner's property (not in easement or town-owned right of way) in order to obtain a more accurate lead exposure potential. The Sampling Plan proposed to conduct the sampling in two phases: the first phase (Phase 1) would address 10 to 12 properties near the facility; while Phase 2 of the soil sampling investigation (if needed) would be performed at up to 20 properties located beyond the initial 10 to 12, dependent upon the results of the Phase 1 soil samples.

The following report summarizes the results from Phase 1 of the soil sampling investigation that was conducted on December 19 and 20, 2011. Included in this report is an explanation on how the soil sampling sites were selected, what sampling procedures were employed, followed by the results from the soil sampling investigation.

# 1.2 SITE SELECTION

In concert with EPA's request to sample additional properties near the C&D facility, EPA offered the following recommendations to aid in the selection of future sampling locations in order to obtain a more accurate assessment of lead in residential soil. Specifically, the recommendations for analysis were:

- Additional sampling of residential areas that are actually on homeowner property (not in easement or town-owned right of way) to obtain a more accurate lead exposure potential.
- Sampling locations should be based on air dispersion modeling and/or monitored air data. The sampling locations should be conducted in the areas focusing on the susceptible receptors. Applicable areas include residential lots, parks, play areas, and day care centers.

• Use air dispersion modeling to aid in predicting the spatial extent of the lead emission in the offsite area.

The following section describes the process URS followed in order to identify the residential areas and properties to be sampled.

# 2.1 AIR DISPERSION MODELING STUDY

URS prepared a modeling analysis for lead emissions released from the C&D facility located in Attica, Indiana. The modeling procedures used to conduct the analysis were based on recommendations given in the EPA Guideline on Air Quality Models (EPA, 2005). The American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) modeling system was employed in the C&D modeling analysis. AERMOD is identified as the "preferred" model in the EPA Guideline on Air Quality Models.

# 2.1.1 UTM Coordinates

As recommended in AERMOD Guidelines, all coordinates should be in the Universal Transverse Mercator (UTM) coordinate system. Summarized in the Input Parameters table (refer to Appendix A) are the UTM coordinates for each stack and building; note that the datum which the coordinates are based is WGS84.

# 2.1.2 Meteorological Data

Meteorological data used in AERMOD were obtained through the IDEM Air Dispersion Modeling section, which included both surface and profile data for 2006 – 2010 for Fountain County, IN [1-min Automated Surface Observing System (ASOS)]. As specified by EPA's modeling guidance and support document, the use of the pre-processed meteorological data set precludes the need to run AERMET which was used by IDEM when preparing the 2006-2010 dataset.

# 2.1.3 AERMAP Elevations

AERMAP has been revised (beginning with BEEST version 9.84) to support processing of terrain elevations from the National Elevation Dataset (NED) developed by the U.S. Geological Survey (USGS, 2002). An important component of the NED data is that it is being actively supported and checked for quality; therefore, NED represents a more up-to-date and improved resource for terrain elevations for use with AERMAP. In order to accommodate the large area being modeled, the NED data set utilized included the following Indiana towns; Mellott, Stone Bluff, Covington, Attica, Williamsport, West Lebanon, Chatterton, Pine Village and Tab.

# 2.1.4 Receptor Grid

As recommended in the AERMOD Guidelines, the C&D Air Dispersion model incorporated a 50 meter spacing along the facility boundary line, and a 100 meter spacing extending 5,000 meters.

# 2.1.5 Sources

EPA ARCHIVE DOCUMEN

Included in Appendix A is a summary of the modeling input parameters that were utilized in the C&D Air Dispersion Model. Figure 2-1 provides a detailed site map with the locations of the stacks, building and facility boundary line.

The input parameters such as stack height, temperature, velocity and diameter, as well as building dimensions and facility boundary were provided by C&D Technology personnel. Lead emissions associated with each stack were obtained from the most recent stack test that was conducted for the unit. In cases where the stack did not have any stack test results, the model incorporated the unit's Potential to Emit (PTE) emission factor in order to provide a conservative air dispersion result.

There were no fugitives sources identified at the facility, as the facility does not store lead products or materials outside which could result in fugitive lead emissions.

In addition, the facility does not operate 24 hours/day, 7 days/week, 52 weeks/year; therefore, operating restrictions were incorporated into the C&D Air Dispersion Model.

# 2.1.6 Deposition Modeling

Deposition modeling, also referred to as Method 1 in AERMOD, can be used when a significant fraction (greater than approximately 10 percent) of the total particulate mass has a diameter of 10 microns ( $\mu$ m) or larger. Due to the type of collectors utilized (baghouse or scrubbers) on most of the larger emitting stacks at this facility, the majority of the emissions are expected to be less than 10  $\mu$ m and therefore minimizing the applicability of this model. In addition, the particle size distribution must also be known reasonably well in order to use Method 1. Currently, C&D has conducted particle size distribution analysis on only one (1) stack at the facility. Therefore, due to the lack of data currently available, URS was unable to perform a deposition analysis that would be representative of the facility's emissions.

# 2.2 SUMMARY OF MODELING RESULTS

The purpose of the air dispersion modeling analysis was to estimate the spatial extent of lead emissions in the off-site area. There were no other air monitoring data to compare the air dispersion modeling results to. URS has prepared two drawings (Figures 2-1 and 2-2 in Appendix A); Figure 2-1 provides a detailed site map with the locations of the stacks, building and facility boundary line, while Figure 2-2 provides the spatial extent of lead emissions in the near off-site area. URS compared the output from all 5 years that were modeled (2006-2010) and delineated three (3) areas; these include:

- Level 1: Lead concentration approximately 0.04 microgram/cubic meter (µg/m<sup>3</sup>)
- Level 2: Lead concentration approximately 0.03  $\mu$ g/m<sup>3</sup>
- Level 3: Lead concentration approximately 0.02 μg/m<sup>3</sup>

Soil sample locations were selected utilizing air dispersion modeling to define the area of greatest potential for lead impacts. Figure 2-2 (Appendix A) depicts the areas of potential lead impact, with Level 1 (potential lead air concentration of 0.04  $\mu$ g/m<sup>3</sup>) being the area of greatest potential. As part of the Phase 1 soil sampling investigation, URS focused on the nearest properties to C&D which fell within the areas with the potential for lead impacts. Only one residential property (304 W. Yount Street) immediately northeast of the facility falls within the Level 1 area. Four sampled properties east and northeast fall within the Level 2 area, and six sampled properties further east and northeast fall within the Level 3 area.

# 3.1 SOIL SAMPLE COLLECTION

Prior to conducting soil sampling activities, access to the residential property was obtained from the property owner; it should be noted that access obtained from tenants or renters was not sufficient. In order to obtain access to the homeowner's property in a timely manner, URS prepared an Access Action Plan (Newsletter), which served to inform the residents of the proposed soil sampling investigation. The Newsletter also included background information pertaining to historical soil sampling investigations completed to-date as well as an explanation as to why additional testing was required in the area. The Newsletter was distributed by C&D personnel during the week of November 14, 2011, and most access agreements were signed and returned by the week of December 5, 2011. One resident approached URS personnel and John Kapellach of C&D during sample collection activities that were being conducted at a neighboring house and requested samples be collected on her property. Mr. Kapellach informed the property owner that samples would be collected on her property located at 304 N. Water Street.

During the Phase 1 soil sampling investigation, 1 to 3 sets of 5 soil samples from 2 depth intervals were collected and composited from each selected property. The 5-sample sets were collected from similar areas (e.g., side yard, front yard) and were composited into 1 sample from each depth interval, representing the area of collection (e.g., side yard, front yard). It should be noted that the number of sets of soil samples collected was dependent on the property size, access to certain parts of the property (locked fences/gates), and non-traditional yard features not apparent in satellite imagery (e.g., grassy areas now used for parking/gravel driveways/dogs in fenced areas). Refer to Table 1 on the next page for a summary of the properties that were sampled.

Property Address	Date Sampling Performed	Number of Samples	Sample ID	Notes
204 N. Yount Street	12/19/2011	6	CD:204:NY:NW CD:204NY:W CD:204:NY:SE	Front (W) and both side yards (NW & SE) sampled. No back yard present.
304 W. Yount Street	12/19/2011	7	CD:304:WY:S CD:304:WY:E CD:304:WY:W	Front (E) and both side yards (S & W) sampled. An additional interval (6"-12") taken on south side.
307 N. Union Street	12/19/2011	6	CD:307:NU:N CD:307:NU:E CD:307:NU:W	Front (W), side (N) and back (E) yards sampled.
304 Third Street	12/20/2011	6	CD:304:NT:N CD:304:NT:W CD:304:NT:E	Front (E), side (N) and back (W) yards sampled.
404 Third Street	12/20/2011	2	CD:404:NT:W	Side (W) yard sampled. Front yard was a gravel parking area adjacent to road. Back Yard is fenced in garden with no access except the back door of the home. No one answered the door to allow access.
403 Third Street	12/20/2011	2	CD:403:NT:S	Side (S) yard sampled. Front yard was a gravel parking area and back yard was occupied with a shed and large 12'x12' non- play sand storage area.
204 W. Columbia	12/19/2011	6	CD:204:WC:N CD:204:WC:S CD:204:WC:E	Front (S) and both side (N &E) yards sampled. No back yard present.
300 W. Columbia	12/19/2011	6	CD:300:WC:N CD:300:WC:E CD:300:WC:S	Front (E), side (S) and back (N) yards sampled. Side yard samples taken from around child's play area. Back yard samples taken around above ground swimming pool.
106 W. Columbia	12/20/2011	4	CD:106:WC:E CD:106:WC:S	Front (S) and side (E) yards sampled. No backyard present due to large wooden deck and other side yard was filled with garage and storage shed.
105 W. Columbia	12/20/2011	4	CD:105:WC:N CD:105:WC:W	Front (W) and side (N) yards sampled. Back yard was fenced with two large dogs present and homeowner would not answer door to move dogs.
304 N. Water Street	12/19/2011	6	CD:304:NW:N CD:304:NW:W CD:304:NW:E	Front (E), side (N) and back (W) yards sampled.

# **TABLE 1 – Summary of Properties Sampled**

Soil samples were collected from 0-2 inches and 2-6 inches below ground surface (bgs) using a stainless steel trowel. At one residence (304 W. Yount), Ms. Bhooma Sundar of the US EPA requested an additional sample depth (6-12 inches) be collected with the 5-sample set from the southwest side of the residence (immediately across the street from the C&D facility) to further vertically delineate potential impacts.

To the extent possible, surface vegetation and root matter were removed prior to the sample collection. A top surface "plug" of vegetation was removed prior to advancing the trowel and collecting the sample from the selected interval. Each interval was collected first in a single use zip-closure bag and homogenized. At each location, the X-ray fluorescence (XRF) field meter (see Section 3.2) was utilized to identify approximate lead concentrations in the field. Approximately 8 ounces (oz) of soil were then taken out of the bag and placed into laboratory provided sample containers, which were submitted to an independent analytical laboratory for further analysis. Once the soil sampling was complete, URS replaced the soil taken from the hole with potting soil, then replaced the top "plug" of vegetation that was initially removed. All excess soil from sampling activities was deposited into a single drum inside the C&D facility for proper disposal following receipt of analytical results.

Soil samples were collected using a clean trowel and new nitrile gloves at each sample location to prevent potential cross contamination of the sample. The trowel was decontaminated between each soil sample location using a mixture of water and soap to scrub off soil and a final rinse of deionized water. Decontamination water was containerized in a five gallon bucket. The decontamination water was disposed into the industrial sewer system at the C&D facility upon completion of the subsurface soil investigation.

Sample quality assurance in the field was assessed through the use of field (equipment) blanks and through the adherence to sample handling, preservation and holding times. Field sampling precision was assessed through the collection and measurement of field duplicates at a rate of at least 1 field duplicate for every 10 analytical samples for each analytical group. Each field duplicate was collected as a separate sample, so that each field duplicate required its own separate set of sample containers. Laboratory precision was assessed through the analysis of MS/MSD samples at the rate of 1 MS/MSD per 20 analytical samples, and also through the analysis of field duplicate samples collected in accordance to Section 3.1-2 of the Quality Assurance Project Plan (QAPP) (URS, 2007).

# 3.2 XRF PROCEDURES

The XRF meter was operated using the cup measurement method. The composited soil sample was placed in a new zip-closure bag and homogenized. The XRF operator took an aliquot from the zip-closure bag and placed it into a new plastic cup with Mylar covering. The cup containing the soil sample was placed into a tray for analysis by the XRF meter. The window of the meter was opened for approximately 60 seconds to obtain an accurate reading (EPA, 2009). Once the XRF results were recorded, the operator emptied the soil sample from the single use Mylar cup into the laboratory provided 8 oz glass container and mixed in additional homogenized soil from the zip-closure bag, prior to shipping the sample to the laboratory for analysis.

Limitations for the XRF meter involving interference that could potentially affect data quality include sample preparation error, spectral interferences, and chemical matrix interferences. The preparation error was mitigated with proper sample homogenization and analysis (EPA, 2009). Spectral interference as well as chemical matrix interference cannot be controlled by the operator but would be noted if lab and field results differ greatly.

Another limitation of the XRF meter is the presence of excessive soil moisture. Soil moisture in the range of 15% - 25% are routinely reported to display values that are only 70% to 80% of what an analytical laboratory would find in the same sample (EPA, 2009). Soil moisture was noted in the field log when recording the field results to identify possible causes for discrepancies between field screening values and analytical data.

4-1

# 4.1 XRF SAMPLING RESULTS

As requested by EPA, composited soil samples were field screened for lead using XRF technology. Because the XRF meter is utilized primarily as a field screening tool, each of the soil samples were sent to a laboratory for further analysis in order to establish a correlation between XRF readings and actual laboratory data for lead concentrations.

XRF meter results for the soil samples collected on December 19-20, 2011 are summarized in Appendix B, which demonstrate a correlation to the laboratory lead results of r = 0.785.

# 4.2 SOIL SAMPLING RESULTS

As part of the Phase 1 soil sampling investigation, a total of 11 residential properties gave written access permission and were sampled on December 19 and 20, 2011; a total of 55 soil samples were collected (27 samples at 0-2 inches and 27 samples at 2-6 inches). In addition, per the EPA's request to collect one sample at 6-12 inches, an additional soil sample was collected at 304 W. Yount Street. In order to assess whether the soil samples collected from the residential properties exceeded the IDEM screening value for lead (400 mg/kg); for each sample site, an average concentration was calculated for all 0-2 inch depth samples, and an average concentration was calculated for all 2-6 inch depth samples. Refer to Table 2 for a summary of the results.

Sample Address	Average Lead Concentration at 0-2" Depth (mg/kg)	Average Lead Concentration at 2-6" Depth (mg/kg)	Lead Concentration at 6-12" Depth* (mg/kg)
ZOXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	177	194	
XXXXXXXXXXXXXXXXXXXXX	333	340	340
XXXXXXXXXXXXXXXXXXX	230	150	
XIII COMPANY	142	160	
XIIIIXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	160**	200**	
X403CKXXRM2CSR26K	350**	340**	
XXXXXXXXXXXXXX	283	260	
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	114	109	
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	204	173	
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	155	140	
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	297	320	

# TABLE 2 – Average Lead Concentration

\*One sample collected at 6-12 inches, per EPA on-site request.

\*\* Single composite, not averaged.

The use of the maximum concentration in an exposure area as Exposure Point Concentration (EPC) is not recommended by the EPA because it assumes the receptor spends all of his/her time at the one sampling location. An exposure area is defined as a location within which an exposed receptor may reasonably be assumed to move at random and where contact with an

environmental medium (e.g., soil) is equally likely at all sub-locations. Therefore, an estimate of the average concentration was incorporated for use as the EPC for an exposure area.

For chemicals other than lead, the EPC is a high-end estimate of the arithmetic mean (i.e., the 95th percentile upper confidence limit of the arithmetic mean concentration (95% UCL)). When evaluating risk from lead at residential properties, the yard is the exposure area and the EPC input to the Integrated Exposure Uptake Biokinetic (IEUBK) model is typically the arithmetic mean concentration rather than the 95% UCL. Validation studies have shown good agreement between blood lead concentration (PbB) distributions predicted by the IEUBK model and observed PbBs at Superfund sites, when the inputs to the model are arithmetic means of the exposure concentrations (Hogan et al. 1998).

The concentration term should represent a central estimate of the lead concentration in soils that a child is likely to ingest. In general, the arithmetic mean concentration for a residential yard or specific play area(s) provides an appropriate concentration term for risk assessment. The use of the arithmetic mean is predicated on the presumption that, in the absence of detailed child-specific data, a reasonable assumption is that a child will have equal contact with soils throughout a residential lot. This soil contact is assumed to occur on a routine, repeated basis. In the assessment of a residential environment, site-specific measurement data on soil concentrations in a child's yard or other exposure unit are necessary" (White et al. 1998).

Based on the results presented in Table 1, the average lead concentration found at depth 0 - 2 inches at the properties tested ranged from 114 mg/kg – 350 mg/kg. Similarly, the average lead concentration found at depth 2 - 6 inches ranged from 109 mg/kg – 340 mg/kg. Since only one sample was taken at depth 6 - 12 inches, an average lead concentration was not generated; however when compared to the soil sample taken directly above the 6 - 12 inch sample, the average lead concentration at depth 2 - 6 inches was the same concentration (340 mg/kg) found at depth 6 - 12 inches.

Of the 11 residential properties that were sampled during the December 2011 soil sampling investigation, only one (1) property was identified as having two areas designated for child's play (refer to Appendix C, Figure 1-G). These two areas were sampled and results from the soil sampling analysis revealed lead concentrations of 110 mg/kg and 162 mg/kg at depth 0 - 2 inches, and lead concentrations of 110 mg/kg and 140 mg/kg at depth 2 - 6 inches.

Results obtained from the December 2011 soil sampling investigation revealed that the average lead concentration found at each sample site fell well below the IDEM screening value of 400 mg/kg. It should be noted that no apparent trend was observed between the average lead concentration in the soil and the relative proximity to the plant. However, the highest individual composite concentrations were observed at properties within 250 ft of the facility boundary. Included in Appendix C are detailed site maps of the 11 residential properties, depicting the soil sampling locations, along with the corresponding lead concentrations.

# **SECTIONFOUR**

As a result of the findings from the Phase 1 soil sampling investigation, the requirement to conduct additional Phase 2 soil sampling at more distant properties does not seem necessary based on the results summarized in this report.

# 4.3 DATA QUALITY REVIEW

The laboratory submitted two Sample Delivery Groups (SDGs) containing analytical results for lead in residential soil samples taken from around the C&D Technologies site in Attica, Indiana. The samples were collected December 19 and 20, 2011 by URS personnel. The samples were analyzed by Test America North Canton, using Methods 3050/6010B for the lead analyses, and percent moisture. The laboratory reports contained summary QC data, but did not include raw data or instrument calibrations. A data review was conducted to verify that the results met QC limit parameters (see Appendix E attached to this report). The sample analysis was found to have met all relevant laboratory batch QC parameters for both precision and accuracy without qualifications, and the data were 100% complete. Six blind field duplicates were also sent to the laboratory, and all met project field duplicate criteria (maximum for soils was 50% RPD between the parent sample and field duplicate).

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Hogan, K., A. Marcus, R. Smith, and White, P. 1998. Integrated Exposure, Uptake, Biokinetic Model for Lead in Children: Empirical Comparison with Epidemiologic Data. Environmental Health Perspectives. 106 (6): 1557-1567.

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White PD, Van Leeuwen P, Davis BD, Maddaloni M, Hogan KA, Marcus AH, Elias RW. 1998. The Conceptual Structure of the Integrated Exposure Uptake Biokinetic Model for Lead in Children. Environ Health Perspect. 106 Suppl 6: 1513-30.

# **APPENDIX** A

Input Parameters, Detailed Site Map and Air Dispersion Modeling Results



140       3PO-L plate assembly       47863.65       4460679.46       164       36       83.6       48.00       1.50       0.0066000       Dust coll         141       3PO-L plate assembly       478702.06       4460682.49       164       36       83.6       48.00       1.50       0.0002100       Dust coll         151       3PO-plate processing       478728.19       4460655.74       164       36       83.6       48.00       1.50       0.00012000       Dust coll         152       3PO-plate processing       478730.92       4460655.74       164       36       75.8       66.00       1.50       0.0003400       Dust coll         155       Ryander manufacturing       478653.95       4460649.40       164       36       75.8       66.00       1.50       0.0001300       Dust coll         166       3PO-L plate assembly       478793.28       4460649.40       164       30       61.0       33.00       2.00       0.001300       Dust coll         178       Formation       478748.34       4460649.39       164       30       61.0       37.00       1.00       0.000300       None         179       Natural gas-fired universal curing oven       478748.45       4460655.70	C&D TECHNOLOGIES, INC. ATTICA, IN											
Model D         Eu Description         East UTM         North UTM         Elevation         Stack Height         Stack Temp         Valoat/V Veloat/V         Diameter Diameter         Lead Emission Rate         Controls National Patholic         OTFS           18         Electric Sovema plate curing ovens         47378.06.0         4460533.0         164         28         140.0         25.00         1.00         0.0000074         None           20         Electric Sovema plate curing ovens         47378.157         4460537.20         164         28         140.0         25.00         1.00         0.0000074         None           20         Electric Sovema plate curing ovens         47371.57         4460537.33         164         30         146.8         8.00         0.50         0.0000230         None           212         Pholeta processing and 3PO-MP assembly         47372.53         446057.84         164         27         144.8         150         0.0000230         None         Includes emissions from 113, 124, 225           140         3PO-L plate sasembly         47372.53         446055.43         164         35         77.0         40.00         1.00         0.0001200         Dut coll           143         3PO-L plate sasembly         47372.00         4460655.41 </th <th colspan="9">INPUT PARAMETERS</th>	INPUT PARAMETERS											
18         Electric Sovema plate curing ovens         477876.06         446033.90         164         28         140.0         26.00         1.00         0.000074         None           19         Electric Sovema plate curing ovens         477878.37         4460637.43         164         28         140.0         26.00         1.00         0.0000074         None           20         Electric Sovema plate curing oven         477871.87         4460637.20         164         28         140.0         26.00         1.00         0.0000074         None           24         Natural gas-fired bone dry oven         477879.157         4460647.83         164         30         146.8         8.00         0.50         0.0000230         None           127         3PO-plate processing and 3PO-MP assembly         478724.83         4460637.46         164         20         83.9         64.00         2.00         0.0000300         Dust coll         Includes emissions from 13.124,124           140         3PO-L plate assembly         478728.37         4460654.99         164         35         77.0         40.00         1.50         0.001200         Dust coll         Includes emissions from 13.124,124           141         3PO-L plate assembly         478728.34         4460654.99 <th>Iodel ID</th> <th>EU Description</th> <th>East UTM</th> <th>North UTM</th> <th>Elevation</th> <th></th> <th></th> <th></th> <th></th> <th>Lead Emission</th> <th>Controls</th> <th>NOTES</th>	Iodel ID	EU Description	East UTM	North UTM	Elevation					Lead Emission	Controls	NOTES
19         Electric Sovema plate curing ovens         478733.97         4460637.20         164         28         140.0         26.00         1.00         0.000074         None           20         Electric Sovema plate curing ovens         478781.87         4466637.20         164         28         140.0         26.00         1.00         0.0000274         None           24         Natural gas-fired bone dry oven         478791.57         4460654.03         164         30         146.8         8.00         0.50         0.0000230         None           131         Central vacuum         478764.33         4460625.43         164         27         144.8         18.00         0.75         0.000030         Dust coll         Includes emissions from 13.124,125           141         3PO-L plate somethy         478762.45         4460654.93         164         35         77.0         40.00         1.00         0.0002100         Dust coll           142         3PO-L plate assembly         47872.81         4460655.43         164         36         8.36         48.00         1.50         0.001000         Dust coll           153         3PO-L plate assembly         478782.19         4460654.93         164         30         61.0         33.00		· · · · · · · · · · · · · · · · · · ·		an and a					and the second sec			
D0         Electric Soverna plate curring ovens         473781.87         4460657.20         104         28         140.0         26.00         1.00         0.000074         None           24         Natural gas-fired bone dry oven         478791.57         4460657.43         164         30         146.8         8.00         0.50         0.0000230         None           127         3PO-plate processing and 3PO-MP assembly         47874.33         4460622.64         164         20         83.9         64.00         2.00         0.0000890         Dust coll         Includes emissions from 113, 124, 125           131         Central vacuum         478727.33         4460657.44         164         35         77.0         40.00         1.00         0.000600         Dust coll         Includes emissions from 113, 124, 125           141         3PO-L plate assembly         47872.83         4460655.74         164         35         77.0         40.00         1.00         0.0002100         Dust coll         1.51           152         3PO-plate processing         47873.02         4460655.74         164         35         62.6         56.20         2.00         0.0012000         Dust coll         1.52           153         3PO-plate processing         47873.02		×										
24         Natural gas-fired bone dry oven         478791.57         4460650.43         164         30         146.8         8.00         0.50         0.000230         None           25         Natural gas-fired bone dry oven         478794.93         4460622.64         164         30         146.8         8.00         0.50         0.000230         None           27         3PC-plate processing and 3PC-MP assembly         478743.41         4460622.64         164         20         83.9         64.00         2.00         0.000230         Dust coll         Includes emissions from 113, 124, 122           141         3PO-L plate processing         478720.26         4460652.44         164         35         77.0         40.00         1.00         0.0002100         Dust coll           142         3PO-L plate processing         478728.19         4460655.74         164         35         62.6         56.200         2.00         0.001200         Dust coll         1.53           153         SPO-plate processing         478728.19         4460655.41         164         36         63.6         48.00         1.50         0.001200         Dust coll         1.54         30         1.64         36         62.6         56.200         2.00         0.001200						£						
25         Natural gas-fired bone dry oven         478794.93         4460647.83         164         20         146.8         8.00         0.50         0.000220         None           127         3PO-plate processing and 3PO-MP assembly         478784.31         4460622.64         164         20         83.9         64.00         2.00         0.0002800         Dust cell         Includes emissions from 113, 124, 125           140         3PO-L plate assembly         478727.33         14646622.64         164         35         83.6         48.00         1.50         0.0066000         Dust cell         Includes emissions from 113, 124, 125           141         3PO-L plate assembly         478728.07         4460664.98         164         36         83.6         48.00         1.50         0.0016000         HEPA           151         3PO-plate processing         478728.07         4460664.98         164         36         83.6         48.00         1.50         0.0012000         Dust cell         Includes emissions from 113, 124, 125           153         3PO-plate processing         478728.07         4460664.98         164         36         83.6         48.00         1.50         0.0012000         Dust cell         Includes emissions from 113, 124, 125           154												
127       3PO-plate processing and 3PO-MP assembly       478784.31       4460622.64       164       20       83.9       64.00       2.00       0.0008900       Dust coll         131       Central vacuum       478727.53       4460635.43       164       27       144.8       18.00       0.75       0.0001301       Dust coll       Dust coll         140       3PO-L plate assembly       478663.64       466067.96       164       35       77.0       40.00       1.00       0.0002100       Dust coll         142       3PO-L plate assembly       478728.07       4460665.74       164       35       62.6       56.200       2.00       0.0012000       Dust coll         152       3PO-plate processing       478730.92       4460655.74       164       36       68.6       0.00       2.50       0.0003400       Dust coll         152       3PO-plate processing       478730.92       4460654.90       164       30       146.8       8.00       0.50       0.0001300       Dust coll         155       Natural gas-fired bone dry oven       47873.28       4460664.93       164       30       61.0       33.00       2.00       0.001300       Dust coll         166       3PO-L plate assembly       4												
131       Central vacuum       478727.53       4466635.43       164       27       144.8       18.00       0.75       0.0001301       Dust coll       Includes emissions from 113, 124, 125         140       3PO-L plate assembly       478663.65       4460673.46       164       36       83.6       48.00       1.50       0.006600       Dust coll         142       3PO-L plate assembly       478728.07       4460665.94       164       35       77.0       40.00       1.00       0.002100       Dust coll          152       3PO-plate processing       478728.07       4460655.74       164       35       62.6       562.00       2.00       0.001200       Dust coll          152       3PO-plate processing       478730.24       4460643.40       164       36       76.8       68.00       1.50       0.0001300       Dust coll          165       Natural gas-fred one dry oven       478732.8       4460643.40       164       30       165.8       8.00       0.50       0.0001300       Dust coll          178       Formation       47878.34       446068.53       164       30       61.0       33.00       2.00       0.0001300       Dust coll											····	
140       3PO-L plate assembly       478663.65       4460679.46       164       36       83.6       48.00       1.50       0.0066000       Dust coll         141       3PO-L plate assembly       478702.06       4460682.49       164       36       83.6       48.00       1.50       0.0002100       Dust coll         142       3PO-L plate assembly       478728.19       4460655.74       164       35       62.6       562.00       2.00       0.0012000       Dust coll         151       3PO-plate processing       478730.92       4460655.74       164       35       72.6       48.00       1.50       0.0003400       Dust coll         152       3PO-plate processing       478730.92       44606649.40       164       36       75.8       68.00       1.50       0.0003400       Dust coll         165       Natural gas-fired bone dry oven       478793.38       44606649.40       164       30       161.0       37.00       2.00       0.0013000       Dust coll         178       Formation       478748.34       44606655.70       164       30       61.0       47.00       1.30       0.0000300       None         180       Natural gas-fired universal curing oven       4787813.7       44606					·							
141       3PO-L cell cover insert       478702.06       4460682.49       164       35       77.0       40.00       1.00       0.0002100       Dust coll         142       3PO-L plate assembly       478728.07       4460655.74       164       36       83.6       48.00       1.50       0.0016000       HEPA         152       3PO-plate processing       478730.92       4460659.62       164       50       92.5       48.00       2.50       0.0003400       Dust coll         155       Expander manufacturing       47858.95       4460649.40       164       36       76.8       68.00       1.50       0.0003200       Dust coll         166       3PO-L plate assembly       478680.30       4460664.59       164       30       61.0       33.00       2.00       0.0013000       Dust coll         178       Formation       478748.34       4460655.70       164       30       61.0       47.00       1.33       0.0000390       None         180       Natural gas-fired universal curing oven       478748.54       4460655.70       164       45       110.0       9.00       1.10       0.000390       None         183       3PO-MCT plate assembly       478748.54       4460655.7       1												Includes emissions from 113, 124, 129, 130, 224
142       3PO-L plate assembly       478728.07       4460664.98       164       36       83.6       48.00       1.50       0.0016000       HEPA         151       3PO-plate processing       478728.19       4460655.74       164       35       62.6       552.00       2.00       0.0012000       Dust coll         152       3PO-plate processing       478728.19       4460639.62       164       50       92.5       48.00       2.50       0.0003400       Dust coll         159       Expander manufacturing       478658.35       4460649.40       164       30       146.8       8.00       0.50       0.0001300       Dust coll         166       3PO-L plate assembly       478680.30       4460664.59       164       30       61.0       33.00       2.00       0.001300       Dust coll         178       Formation       478748.34       4460665.30       164       45       11.00       9.00       1.10       0.000330       None         188       3PO-MCT plate assembly       478713.72       4460655.70       164       45       10.0       9.00       1.10       0.000390       None         188       3PO-MCT plate assembly       478713.72       4460637.61       164       25												
151       3PO-plate processing       478728.19       4460655.74       164       35       62.6       562.00       2.00       0.0012000       Dust coll         152       3PO-plate processing       478730.92       4460659.62       164       50       92.5       48.00       2.50       0.0003400       Dust coll         159       Expander manufacturing       478730.92       4460649.40       164       30       145.8       8.00       0.50       0.000230       None         165       Natural gas-fired bone dry oven       478738.28       4460649.40       164       30       145.8       8.00       0.50       0.000230       None         166       3PO-L plate assembly       478688.03       4460649.40       164       30       61.0       33.00       2.00       0.001300       Dust coll         178       Formation       478778.0.0       4460655.30       164       45       110.0       9.00       1.10       0.000330       None         180       Natural gas-fired universal curing oven       47876.8.5       4460657.48       164       35       102.1       76.00       3.20       0.0002000       None         188       3PO-MCT plate assembly       478713.72       4460637.48								· · · · · · · · · · · · · · · · · · ·				
152       3PO-plate processing       478730.92       4460659.62       164       50       92.5       48.00       2.50       0.0003400       Dust coll         159       Expander manufacturing       47858.95       4460649.40       164       36       76.8       68.00       1.50       0.0001300       Dust coll         165       Natural gas-fired bone dry oven       478733.28       4460649.40       164       30       146.8       8.00       0.50       0.0000300       None         166       3PO-L plate assembly       478678.30       4460668.93       164       30       61.0       33.00       2.00       0.000300       None         178       Formation       478748.34       4460668.93       164       45       110.0       9.00       1.10       0.000300       None         180       Natural gas-fired universal curing oven       478768.65       446055.70       164       45       110.0       9.00       1.10       0.000300       None         188       3PO-MCT plate assembly       47878.65       446065.70       164       35       102.1       76.00       3.20       0.0006700       Dust coll         195       Small parts flaming       478848.00       4460693.61       16												
159         Expander manufacturing         478658.95         4460649.40         164         36         76.8         68.00         1.50         0.0001300         Dust coll           165         Natural gas-fired bone dry oven         478793.28         44606649.40         164         30         146.8         8.00         0.50         0.000230         None           166         3PO-L plate assembly         478680.30         4460664.99         164         30         61.0         33.00         2.00         0.001300         Dust coll           178         Formation         478783.28         4460664.93         164         30         61.0         47.00         1.33         0.0000300         None           179         Natural gas-fired universal curing oven         478768.65         4460657.0         164         45         110.0         9.00         1.10         0.000300         None           180         Natural gas-fired universal curing oven         478768.65         4460576.70         164         45         110.0         9.00         1.10         0.000300         None           188         3PO-MCT plate assembly         478786.52         4460587.48         164         25         86.9         67.00         2.80         0.002800									the second se			
165       Natural gas-fired bone dry oven       478793.28       4460649.40       164       30       146.8       8.00       0.50       0.000230       None         166       3PO-L plate assembly       478680.30       4460664.59       164       30       61.0       33.00       2.00       0.0013000       Dust coll         178       Formation       478748.34       4460668.33       164       30       61.0       47.00       1.33       0.0000300       None         179       Natural gas-fired universal curing oven       478770.40       4460655.30       164       45       110.0       9.00       1.10       0.0000390       None         180       Natural gas-fired universal curing oven       478768.65       446056.70       164       45       110.0       9.00       1.10       0.0000390       None         188       3PO-MCT plate assembly       478713.72       4460684.11       164       35       102.1       76.00       3.20       0.0002000       Dust coll         195       Small parts flaming       478848.00       4460696.57       164       30       177.7       48.30       3.40       0.0400000       None         226       Natural gas-fired grid curing oven       478804.27												
166       3PO-L plate assembly       478680.30       4460664.59       164       30       61.0       33.00       2.00       0.0013000       Dust coll         178       Formation       478748.34       4460668.93       164       30       61.0       47.00       1.33       0.0000300       None         179       Natural gas-fired universal curing oven       478770.40       4460655.30       164       45       110.0       9.00       1.10       0.000390       None         180       Natural gas-fired universal curing oven       478768.65       4460657.00       164       45       110.0       9.00       1.10       0.000390       None         188       3PO-MCT plate assembly       478713.72       4460657.48       164       25       86.9       67.00       2.80       0.002800       Dust coll         195       Small parts flaming       478848.00       4460736.11       164       35       102.1       76.00       3.20       0.0006700       Dust coll         196       Grid casting operation       478806.52       4460688.25       164       19       125.0       194.9       0.33       0.0000000       None         227       Natural gas-fired grid curing oven       478793.52       4												· · · · · · · · · · · · · · · · · · ·
178Formation478748.344460668.931643061.047.001.330.0000300None179Natural gas-fired universal curing oven478770.404460655.3016445110.09.001.100.0000390None180Natural gas-fired universal curing oven478768.654460656.7016445110.09.001.100.0000390None1883PO-MCT plate assembly478713.724460637.481642586.967.002.800.0002000Dust coll195Small parts flaming478848.004460736.1116435102.176.003.200.0006700Dust coll196Grid casting operation478806.524460694.1316419125.0194.90.330.0000000None226Natural gas-fired grid curing oven478816.704460688.2516419125.0194.90.330.0000400None228Natural gas-fired grid curing oven478794.254460688.2516419125.0194.90.330.0001400Scrubber230Grid pasting and pasted plate processing machines478771.904460688.411643585.4283.60.670.00026402ScrubberIncludes emissions from 249 and 250231Paste mixing system478771.904460688.411643585.4283.60.670.0001490Dust coll232Binvent478766.734460688.57<												
179       Natural gas-fired universal curing oven       478770.40       4460655.30       164       45       110.0       9.00       1.10       0.000390       None         180       Natural gas-fired universal curing oven       478768.65       4460656.70       164       45       110.0       9.00       1.10       0.000390       None         188       3PO-MCT plate assembly       478713.72       4460637.48       164       25       86.9       67.00       2.80       0.0028000       Dust coll         195       Small parts flaming       478848.00       4460736.11       164       35       102.1       76.00       3.20       0.0006700       Dust coll         196       Grid casting operation       478804.37       4460694.13       164       19       125.0       194.9       0.33       0.000000       None         226       Natural gas-fired grid curing oven       478804.37       4460688.25       164       19       125.0       194.9       0.33       0.0001400       None         227       Natural gas-fired grid curing oven       478804.37       4460688.25       164       19       125.0       194.9       0.33       0.0001400       None         230       Grid pasting and pasted plate processing												
180         Natural gas-fired universal curing oven         478768.65         4460556.70         164         45         110.0         9.00         1.10         0.000390         None           188         3PO-MCT plate assembly         478713.72         4460637.48         164         25         86.9         67.00         2.80         0.0028000         Dust coll           195         Small parts flaming         478848.00         4460736.11         164         35         102.1         76.00         3.20         0.0006700         Dust coll           196         Grid casting operation         478806.52         4460696.57         164         30         177.7         48.30         3.40         0.0400000         None           226         Natural gas-fired grid curing oven         478804.74         4460698.13         164         19         125.0         194.9         0.33         0.00001400         None           227         Natural gas-fired grid curing oven         478816.70         4460688.25         164         19         125.0         194.9         0.33         0.0000400         Scruber           228         Natural gas-fired grid curing oven         47874.25         4460688.25         164         19         125.0         194.9         0.											None	
188       3PO-MCT plate assembly       478713.72       4460637.48       164       25       86.9       67.00       2.80       0.0028000       Dust coll         195       Small parts flaming       478848.00       4460736.11       164       35       102.1       76.00       3.20       0.0006700       Dust coll         196       Grid casting operation       478806.52       4460696.57       164       30       177.7       48.30       3.40       0.0400000       None         226       Natural gas-fired grid curing oven       478806.47       4460694.13       164       19       125.0       194.9       0.33       0.000000       None         227       Natural gas-fired grid curing oven       478816.70       4460688.25       164       19       125.0       194.9       0.33       0.0000400       Scrubber         230       Grid pasting and pasted plate processing machines       478744.25       4460682.52       164       45       66.0       1,418.2       0.67       0.0026402       Scrubber       Includes emissions from 249 and 250         231       Paste mixing system       478771.90       4460688.41       164       35       85.4       283.6       0.67       0.00026402       Scrubber       Includes emissions f		<u> </u>		4460655.30								
195       Small parts flaming       478848.00       4460736.11       164       35       102.1       76.00       3.20       0.0006700       Dust coll         196       Grid casting operation       478806.52       4460696.57       164       30       177.7       48.30       3.40       0.0400000       None         226       Natural gas-fired grid curing oven       478804.47       4460694.13       164       19       125.0       194.9       0.33       0.000050       None         227       Natural gas-fired grid curing oven       478816.70       4460688.25       164       19       125.0       194.9       0.33       0.0001400       None         228       Natural gas-fired grid curing oven       478743.25       4460688.25       164       19       125.0       194.9       0.33       0.000400       Scrubber         230       Grid pasting and pasted plate processing machines       478744.25       4460682.52       164       45       66.0       1,418.2       0.67       0.0026402       Scrubber       Includes emissions from 249 and 250         231       Paste mixing system       478771.90       4460688.41       164       25       120.0       64.2       0.42       0.0001200       Dust coll       333			478768.65	4460656.70	164		110.0	9.00	1.10		None	
196         Grid casting operation         478806.52         4460696.57         164         30         177.7         48.30         3.40         0.040000         None           226         Natural gas-fired grid curing oven         478804.47         4460694.13         164         19         125.0         194.9         0.33         0.000050         None           227         Natural gas-fired grid curing oven         478816.70         4460688.25         164         19         125.0         194.9         0.33         0.0001400         None           228         Natural gas-fired grid curing oven         478793.52         4460658.90         164         19         125.0         194.9         0.33         0.0000400         Scrubber           230         Grid pasting and pasted plate processing machines         478771.90         4460688.25         164         45         66.0         1,418.2         0.67         0.0026402         Scrubber         Includes emissions from 249 and 250           231         Paste mixing system         478771.90         4460688.41         164         25         120.0         64.2         0.42         0.0007200         Dust coll           232         Binvent         478766.73         4460655.70         164         25 <td< td=""><td></td><td></td><td></td><td>4460637.48</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Dust coll</td><td></td></td<>				4460637.48							Dust coll	
226         Natural gas-fired grid curing oven         478804.47         4460694.13         164         19         125.0         194.9         0.33         0.000050         None           227         Natural gas-fired grid curing oven         478816.70         4460688.25         164         19         125.0         194.9         0.33         0.0001400         None           228         Natural gas-fired grid curing oven         478793.52         4460658.90         164         19         125.0         194.9         0.33         0.0001400         None           230         Grid pasting and pasted plate processing machines         47874.25         4460682.52         164         45         66.0         1,418.2         0.67         0.0026402         Scrubber         Includes emissions from 249 and 250           231         Paste mixing system         478771.90         4460688.41         164         35         85.4         283.6         0.67         0.0007200         Dust coll           232         Binvent         47876.73         4460688.41         164         25         120.0         64.2         0.42         0.0001490         None           233         Binvent         478796.73         4460655.70         164         25         78.0 <t< td=""><td>95</td><td>Small parts flaming</td><td></td><td>4460736.11</td><td>164</td><td>35</td><td>102.1</td><td>76.00</td><td>3.20</td><td>0.0006700</td><td>Dust coll</td><td></td></t<>	95	Small parts flaming		4460736.11	164	35	102.1	76.00	3.20	0.0006700	Dust coll	
227         Natural gas-fired grid curing oven         478816.70         4460688.25         164         19         125.0         194.9         0.33         0.0001400         None           228         Natural gas-fired grid curing oven         478793.52         4460658.90         164         19         125.0         194.9         0.33         0.0000400         Scrubber           230         Grid pasting and pasted plate processing machines         47874.25         4460682.52         164         45         66.0         1,418.2         0.67         0.0026402         Scrubber         Includes emissions from 249 and 250           231         Paste mixing system         478771.90         4460688.41         164         35         85.4         283.6         0.67         0.0007200         Dust coll           232         Binvent         478766.73         4460684.61         164         25         120.0         64.2         0.42         0.001400         None           233         Binvent         478795.28         4460655.70         164         25         78.0         145         0.42         0.001200         None           234         Natural gas-fired OSI universal oven         478796.28         4460654.54         164         20         125.0	96	Grid casting operation	478806.52	4460696.57	164	30	177.7	48.30	3.40	0.0400000	None	
228         Natural gas-fired grid curing oven         478793.52         4460658.90         164         19         125.0         194.9         0.33         0.000400         Scrubber           230         Grid pasting and pasted plate processing machines         478744.25         4460682.52         164         45         66.0         1,418.2         0.67         0.0026402         Scrubber         Includes emissions from 249 and 250           231         Paste mixing system         478771.90         4460688.41         164         35         85.4         283.6         0.67         0.0007200         Dust coll           232         Binvent         478767.3         4460655.70         164         25         120.0         64.2         0.42         0.001490         Dust coll           233         Binvent         478795.73         4460655.70         164         25         78.0         145         0.42         0.001200         Dust coll           233         Binvent         478795.28         4460655.70         164         25         78.0         145         0.42         0.001200         None           234         Natural gas-fired OSI universal oven         478796.28         164         20         125.0         194.9         0.33 <td< td=""><td></td><td>Natural gas-fired grid curing oven</td><td>478804.47</td><td>4460694.13</td><td>164</td><td>19</td><td>125.0</td><td>194.9</td><td>0.33</td><td>0.0000050</td><td>None</td><td></td></td<>		Natural gas-fired grid curing oven	478804.47	4460694.13	164	19	125.0	194.9	0.33	0.0000050	None	
230         Grid pasting and pasted plate processing machines         478744.25         4460682.52         164         45         66.0         1,418.2         0.67         0.0026402         Scrubber         Includes emissions from 249 and 250           231         Paste mixing system         478771.90         4460688.41         164         35         85.4         283.6         0.67         0.0007200         Dust coll           232         Binvent         478766.73         4460684.61         164         25         120.0         64.2         0.42         0.0001490         Dust coll           233         Binvent         478794.73         4460655.70         164         25         78.0         145         0.42         0.0012000         None           234         Natural gas-fired OSI universal oven         478796.28         4460654.54         164         20         125.0         194.9         0.33         0.0000788         None         From stack test results for 237           235         Natural gas-fired OSI universal oven         478798.27         4460652.83         164         20         125.0         194.9         0.33         0.000079         None			1	4460688.25	164	19	125.0	194.9	0.33		None	
231         Paste mixing system         478771.90         4460688.41         164         35         85.4         283.6         0.67         0.0007200         Dust coll           232         Binvent         478766.73         4460688.41         164         25         120.0         64.2         0.42         0.0001490         Dust coll           233         Binvent         478794.73         4460655.70         164         25         78.0         145         0.42         0.0012000         None           234         Natural gas-fired OSI universal oven         478796.28         4460654.54         164         20         125.0         194.9         0.33         0.0000788         None         From stack test results for 237           235         Natural gas-fired OSI universal oven         478798.27         4460652.83         164         20         125.0         194.9         0.33         0.000079         None	28	Natural gas-fired grid curing oven	478793.52	4460658.90	164	19	125.0	194.9	0.33	0.0000400	Scrubber	
232         Binvent         478766.73         4460684.61         164         25         120.0         64.2         0.42         0.0001490         Dust coll           233         Binvent         478794.73         446055.70         164         25         78.0         145         0.42         0.0012000         None           234         Natural gas-fired OSI universal oven         478796.28         4460554.54         164         20         125.0         194.9         0.33         0.0000788         None         From stack test results for 237           235         Natural gas-fired OSI universal oven         478798.27         4460652.83         164         20         125.0         194.9         0.33         0.000079         None	30	Grid pasting and pasted plate processing machines	478744.25	4460682.52	164	45	66.0	1,418.2	0.67	0.0026402	Scrubber	Includes emissions from 249 and 250
233         Binvent         478794.73         4460655.70         164         25         78.0         145         0.42         0.0012000         None           234         Natural gas-fired OSI universal oven         478796.28         4460654.54         164         20         125.0         194.9         0.33         0.0000788         None         From stack test results for 237           235         Natural gas-fired OSI universal oven         478798.27         4460652.83         164         20         125.0         194.9         0.33         0.000079         None	31	Paste mixing system	478771.90	4460688.41	164	35	85.4	283.6	0.67	0.0007200	Dust coll	
234         Natural gas-fired OSI universal oven         478796.28         4460654.54         164         20         125.0         194.9         0.33         0.0000788         None         From stack test results for 237           235         Natural gas-fired OSI universal oven         478798.27         4460652.83         164         20         125.0         194.9         0.33         0.0000798         None         From stack test results for 237	32	Binvent	478766.73	4460684.61	164	25	120.0	64.2	0.42	0.0001490	Dust coll	
235 Natural gas-fired OSI universal oven 478798.27 4460652.83 164 20 125.0 194.9 0.33 0.0000079 None	33	Binvent	478794.73	4460655.70	164	25	78.0	145	0.42	0.0012000	None	
	34	Natural gas-fired OSI universal oven	478796.28	4460654.54	164	20	125.0	194.9	0.33	0.0000788	None	From stack test results for 237
	35	Natural gas-fired OSI universal oven	478798.27	4460652.83	164	20	125.0	194.9	0.33	0.0000079	None	
237 Natural gas-fired OSI universal oven 478799.87 4460651.79 164 20 125.0 194.9 0.33 0.0000200 None	37	Natural gas-fired OSI universal oven	478799.87	4460651.79	164	20	125.0	194.9	0.33	0.0000200	None	
238 Natural gas-fired OSI universal oven 478679.93 4460649.41 164 20 125.0 194.9 0.33 0.0000788 Dust coll From stack test results for 237	38	Natural gas-fired OSI universal oven	478679.93	4460649.41	164	20	125.0	194.9	0.33	0.0000788	Dust coll	From stack test results for 237
244 LCT 1700 assembly with two jigs 478728.40 4460612.40 164 31 125.0 71.4 2.67 0.0005500 Dust coll	44	LCT 1700 assembly with two jigs	478728.40	4460612.40	164	31	125.0	71.4	2.67	0.0005500	Dust coll	
246 LCT 1700 battery curing ovens 478704.07 4460629.46 164 11 107.0 25.5 1.00 0.000027 None	46	LCT 1700 battery curing ovens	478704.07	4460629.46	164	11	107.0	25.5	1.00	0.0000027	None	
247 3PO-plate processing and 3PO-JC/D assembly 478728.40 4460612.40 164 25 79.5 48.7 4.67 0.0067000 Dust coll	47	3PO-plate processing and 3PO-JC/D assembly	478728.40	4460612.40	164	25	79.5	48.7	4.67	0.0067000	Dust coll	

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# CUMEN ARCHIVE π



# **APPENDIX B**

XRF Sampling Results and Correlation with Analytical Laboratory Reports



# C&D TECHNOLOGIES, ATTICA, IN XRF Soil Sampling Results December 19-20, 2011

0-2" Sampling Depth						
Sample ID	Laboratory Lead Levels	XRF Readings	XRF ± Reading			
CD:204:NY:NW 0-2	180	162	13			
CD:204:NY:W 0-2	220	189	14			
CD:204:NY:SE 0-2	130	114	11			
CD:304:WY:S: 0-2	400	324	18			
CD:304:WY:E: 0-2	280	209	13			
CD:304:WY:W: 0-2	320	178	13			
CD:304:NW:N: 0-2	320	335	17			
CD:304:NW:W: 0-2	200	145	12			
CD:304:NW:E: 0-2	370	305	16			
CD:307:NU:N: 0-2	410	185	13			
CD:307:NU:E: 0-2	120	133	11			
CD:307:NU:W: 0-2	160	138	11			
CD:304:NT:N: 0-2	220	200	13			
CD:304:NT:W: 0-2	180	132	11			
CD:304:NT:E: 0-2	25	44	8			
CD:204:WC:N: 0-2	330	223	13			
CD:204:WC:S: 0-2	350	308	16			
CD:204:WC:E: 0-2	170	175	13			
CD:105:WC:N: 0-2	160	123	11			
CD:105:WC:W: 0-2	150	107	10			
CD:300:WC:N: 0-2	71	63	9			
CD:300:WC:E: 0-2	162	144	11			
CD:300:WC:S: 0-2	110	97	11			
CD:106:WC:E: 0-2	68	66	9			
CD:106:WC:S: 0-2	340	158	12			
CD:403:NT:S: 0-2	350	281	15			
CD:404:NT:W: 0-2	160	140	12			

# C&D TECHNOLOGIES, ATTICA, IN XRF Soil Sampling Results December 19-20, 2011

2-6" Sampling Depth						
Sample ID	Laboratory Lead Levels	XRF Readings	XRF ± Reading			
CD:204:NY:NW 2-6	310	164	12			
CD:204:NY:W 2-6	180	204	14			
CD:204:NY:SE 2-6	91	202	11			
CD:304:WY:S: 2-6	440	354	19			
CD:304:WY:E: 2-6	160	254	15			
CD:304:WY:W: 2-6	420	251	15			
CD:304:NW:N: 2-6	290	268	16			
CD:304:NW:W: 2-6	180	121	11			
CD:304:NW:E: 2-6	490	335	17			
CD:307:NU:N: 2-6	190	159	12			
CD:307:NU:E: 2-6	110	103	10			
CD:307:NU:W: 2-6	150	125	11			
CD:304:NT:N: 2-6	190	207	14			
CD:304:NT:W: 2-6	170	160	12			
CD:304:NT:E: 2-6	120	133	11			
CD:204:WC:N: 2-6	290	229	15			
CD:204:WC:S: 2-6	150	289	16			
CD:204:WC:E: 2-6	340	193	14			
CD:105:WC:N: 2-6	170	124	11			
CD:105:WC:W: 2-6	110	114	12			
CD:300:WC:N: 2-6	78	96	11			
CD:300:WC:E: 2-6	140	138	11			
CD:300:WC:S: 2-6	110	115	12			
CD:106:WC:E: 2-6	96	70	9			
CD:106:WC:S: 2-6	250	325	18			
CD:403:NT:S: 2-6	340	369	18			
CD:404:NT:W: 2-6	200	167	13			

# C&D TECHNOLOGIES, ATTICA, IN XRF Soil Sampling Results December 19-20, 2011

6-12" Sampling Depth						
Sample ID	Laboratory Lead Levels	XRF Readings	XRF ± Reading			
CD:304:WY:S: 6-12	340	315	17			

The correlation coefficient (r) for the entire data set was calculated to be 0.785 which is indicative of a positive linear relationship between the XRF results and the laboratory correlation results.

# APPENDIX C Residential Soil Sampling Sites and Analytical Laboratory Results

# URS

# **APPENDIX D**

Analytical Laboratory Reports

# URS



THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica North Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

TestAmerica Job ID: 240-7149-1 Client Project/Site: ATTICA C&D

# For:

URS Corporation 1000 Corp Centre Drive One Corp Centre Ste Franklin, Tennessee 37067

Attn: Mr. Craig Bernhoft

Authorized for release by: 12/30/2011 4:57:30 PM

John McFadden Project Manager I john.mcfadden@testamericainc.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

DOCUMEN п EPA ARCHIV

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# Client: URS Corporation Project/Site: ATTICA C&D

3

# Qualifiers Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not
	applicable.
U	Indicates the analyte was analyzed for but not detected.

# Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
<del>\$</del>	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CNF	Contains no Free Liquid	·
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
EDL	Estimated Detection Limit	
EPA	United States Environmental Protection Agency	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
ND	Not detected at the reporting limit (or MDL or EDL if shown)	
PQL	Practical Quantitation Limit	
QC	Quality Control	
RL	Reporting Limit	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	

Client: URS Corporation Project/Site: ATTICA C&D

### Job ID: 240-7149-1

### Laboratory: TestAmerica North Canton

Narrative

# CASE NARRATIVE

# **Client: URS Corporation**

# Project: ATTICA C&D

# Report Number: 240-7149-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

### RECEIPT

The samples were received on 12/21/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.8 and 1.2 C.

### TOTAL METALS (ICP)

Samples CD:204:NY:NW 0-2 (240-7149-1), CD:204:NY:W 0-2 (240-7149-2), CD:204:NY:SE 0-2 (240-7149-3), CD:204:NY:NW 2-6 (240-7149-5), CD:204:NY:SE 2-6 (240-7149-6), CD:304:WY:S 0-2 (240-7149-7), CD:304:WY:E 0-2 (240-7149-8), CD:304:WY:W 0-2 (240-7149-9), CD:304:WY:S 2-6 (240-7149-10), CD:304:WY:E 2-6 (240-7149-11), CD:304:WY:W 2-6 (240-7149-12), CD:304:WY:S 6-12 (240-7149-13), CD:304:NW:N 0-2 (240-7149-14), CD:304:NW:W 0-2 (240-7149-15), CD:304:NW:E 0-2 (240-7149-16), CD:304:NW:N 2-6 (240-7149-17), CD:304:NW:N 0-2 (240-7149-16), CD:304:NW:N 2-6 (240-7149-17), CD:304:NW:W 2-6 (240-7149-18), CD:300:WC:E 2-6 (240-7149-19), CD:300:WC:N 0-2 (240-7149-20), CD:300:WC:E 0-2 (240-7149-21), CD:300:WC:S 0-2 (240-7149-22), CD:300:WC:E 2-6 (240-7149-23), CD:300:WC:N 2-6 (240-7149-24), CD:300:WC:S 2-6 (240-7149-25), CD:DUP 1 (240-7149-26), CD:DUP 2 (240-7149-27), CD:204:WC:N 0-2 (240-7149-28), CD:204:WC:S 0-2 (240-7149-29), CD:204:WC:E 0-2 (240-7149-30), CD:204:WC:N 2-6 (240-7149-31), CD:204:WC:S 2-6 (240-7149-33), CD:204:WC:E 0-2 (240-7149-30), CD:307:NU:N 0-2 (240-7149-31), CD:307:NU:E 0-2 (240-7149-36), CD:307:NU:W 0-2 (240-7149-37), CD:307:NU:N 2-6 (240-7149-35), CD:307:NU:W 2-6 (240-7149-36), CD:307:NU:W 0-2 (240-7149-37), CD:307:NU:N 2-6 (240-7149-38), CD:307:NU:E 2-6 (240-7149-39), CD:307:NU:W 2-6 (240-7149-40) and CD:DUP 4 (240-7149-41) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/22/2011, 12/23/2011, 12/27/2011 and 12/28/2011 and analyzed on 12/27/2011, 12/28/2011 and 12/30/2011.

Lead failed the recovery criteria low for the MSD of sample CD:204:WC:N 0-2MSD (240-7149-28) in batch 240-28487.

### Job ID: 240-7149-1 (Continued)

### Laboratory: TestAmerica North Canton (Continued)

The presence of the '4' qualifier in the data indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

No other difficulties were encountered during the metals analyses. All other quality control parameters were within the acceptance limits.

### PERCENT SOLIDS

Samples CD:204:NY:NW 0-2 (240-7149-1), CD:204:NY:W 0-2 (240-7149-2), CD:204:NY:SE 0-2 (240-7149-3), CD:204:NY:NW 2-6 (240-7149-4), CD:204:NY:W 2-6 (240-7149-5), CD:204:NY:SE 2-6 (240-7149-6), CD:304:WY:S 0-2 (240-7149-7), CD:304:WY:E 0-2 (240-7149-8), CD:304:WY:W 0-2 (240-7149-9), CD:304:WY:S 2-6 (240-7149-10), CD:304:WY:E 2-6 (240-7149-11), CD:304:WY:W 2-6 (240-7149-12), CD:304:WY:S 6-12 (240-7149-13), CD:304:NW:N 0-2 (240-7149-14), CD:304:NW:W 0-2 (240-7149-15), CD:304:NW:E 0-2 (240-7149-16), CD:304:NW:N 2-6 (240-7149-17), CD:304:NW:W 2-6 (240-7149-18), CD:304:NW:W 0-2 (240-7149-19), CD:300:WC:N 0-2 (240-7149-20), CD:300:WC:E 0-2 (240-7149-21), CD:300:WC:S 0-2 (240-7149-22), CD:300:WC:E 2-6 (240-7149-23), CD:300:WC:N 2-6 (240-7149-24), CD:300:WC:S 2-6 (240-7149-25), CD:DUP 1 (240-7149-26), CD:DUP 2 (240-7149-27), CD:204:WC:N 0-2 (240-7149-28), CD:204:WC:S 0-2 (240-7149-29), CD:204:WC:E 0-2 (240-7149-30), CD:307:NU:N 0-2 (240-7149-31), CD:307:NU:E 0-2 (240-7149-33), CD:307:NU:N 0-2 (240-7149-33), CD:307:NU:N 0-2 (240-7149-35), CD:307:NU:E 0-2 (240-7149-34), CD:307:NU:N 0-2 (240-7149-35), CD:307:NU:W 2-6 (240-7149-36), CD:307:NU:W 0-2 (240-7149-37), CD:307:NU:N 0-2 (240-7149-36), CD:307:NU:W 0-2 (240-7149-37), CD:307:NU:N 0-2 (240-7149-36), CD:307:NU:W 0-2 (240-7149-37), CD:307:NU:N 2-6 (240-7149-38), CD:307:NU:E 2-6 (240-7149-39), CD:307:NU:W 2-6 (240-7149-40) and CD:DUP 4 (240-7149-41) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 12/23/2011.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

# **Method Summary**

# Client: URS Corporation Project/Site: ATTICA C&D

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Method	Method Description	Protocol	Laboratory
6010B	Metais (ICP)	SW846	TAL NC
Moisture	Percent Moisture	EPA	TAL NC

### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

### Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# Client: URS Corporation Project/Site: ATTICA C&D

TestAmerica Job ID: 240-7149-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-7149-1	CD:204:NY:NW 0-2	Solid	12/19/11 10:00	12/21/11 11:10
240-7149-2	CD:204:NY:W 0-2	Solid	12/19/11 10:05	12/21/11 11:10
240-7149-3	CD:204:NY:SE 0-2	Solid	12/19/11 10:10	12/21/11 11:10
240-7149-4	CD:204:NY:NW 2-6	Solid	12/19/11 10:05	12/21/11 11:10
240-7149-5	CD:204:NY:W 2-6	Solid	12/19/11 10:10	12/21/11 11:10
240-7149-6	CD:204:NY:SE 2-6	Solid	12/19/11 10:15	12/21/11 11:10
240-7149-7	CD:304:WY:S 0-2	Solid	12/19/11 11:20	12/21/11 11:10
240-7149-8	CD:304:WY:E 0-2	Solid	12/19/11 11:25	12/21/11 11:10
240-7149-9	CD:304:WY:W 0-2	Solid	12/19/11 11:30	12/21/11 11:10
240-7149-10	CD:304:WY:S 2-6	Solid	12/19/11 11:20	12/21/11 11:10
240-7149-11	CD:304:WY:E 2-6	Solid	12/19/11 11:25	12/21/11 11:10
240-7149-12	CD:304:WY:W 2-6	Solid	12/19/11 11:30	12/21/11 11:10
240-7149-13	CD:304:WY:S 6-12	Solid	12/19/11 12:00	12/21/11 11:10
240-7149-14	CD:304:NW:N 0-2	Solid	12/19/11 13:40	12/21/11 11:10
240-7149-15	CD:304:NW:W 0-2	Solid	12/19/11 13:45	12/21/11 11:10
240-7149-16	CD:304:NW:E 0-2	Solid	12/19/11 13:50	12/21/11 11:10
240-7149-17	CD:304:NW:N 2-6	Solid	12/19/11 13:40	12/21/11 11:10
240-7149-18	CD:304:NW:W 2-6	Solid	12/19/11 13:45	12/21/11 11:10
240-7149-19	CD:304:NW:E 2-6	Solid	12/19/11 13:50	12/21/11 11:10
240-7149-20	CD:300:WC:N 0-2	Solid	12/19/11 14:30	12/21/11 11:10
240-7149-21	CD:300:WC:E 0-2	Solid	12/19/11 14:35	12/21/11 11:10
240-7149-22	CD:300:WC:\$ 0-2	Solid	12/19/11 14:40	12/21/11 11:10
240-7149-23	CD:300:WC:E 2-6	Solid	12/19/11 14:35	12/21/11 11:10
240-7149-24	CD:300:WC:N 2-6	Solid	12/19/11 14:30	12/21/11 11:10
240-7149-25	CD:300:WC:S 2-6	Solid	12/19/11 14:40	12/21/11 11:10
240-7149-26	CD:DUP 1	Solid	12/19/11 00:00	12/21/11 11:10
240-7149-27	CD:DUP 2	Solid	12/19/11 00:00	12/21/11 11:10
240-7149-28	CD:204:WC:N 0-2	Solid	12/19/11 15:35	12/21/11 11:10
240-7149-29	CD:204:WC:S 0-2	Solid	12/19/11 15:40	12/21/11 11:10
240-7149-30	CD:204:WC:E 0-2	Solid	12/19/11 15:45	12/21/11 11:10
240-7149-31	CD:204:WC:N 2-6	Solid	12/19/11 15:35	12/21/11 11:10
240-7149-32	CD:204:WC:S 2-6	Solid	12/19/11 15:40	12/21/11 11:10
240-7149-33	CD:204:WC:E 2-6	Solid	12/19/11 15:45	12/21/11 11:10
240-7149-34	CD:DUP 3	Solid	12/19/11 00:00	12/21/11 11:10
240-7149-35	CD:307:NU:N 0-2	Solid	12/19/11 16:45	12/21/11 11:10
240-7149-36	CD:307:NU:E 0-2	Solid	12/19/11 16:50	12/21/11 11:10
240-7149-37	CD:307:NU:W 0-2	Solid	12/19/11 16:55	12/21/11 11:10
240-7149-38	CD:307:NU:N 2-6	Solid	12/19/11 16:45	12/21/11 11:10
240-7149-39	CD:307:NU:E 2-6	Solid	12/19/11 16:50	12/21/11 11:10
240-7149-40	CD:307:NU:W 2-6	Solid	12/19/11 16:55	12/21/11 11:10
240-7149-41	CD:DUP 4	Solid	12/19/11 00:00	12/21/11 11:10

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# **Detection Summary**

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

				1.0.00			-		
Analyte Lead	Result 180	Qualifier	0.39		Unit mg/Kg	Dil Fac	D	Method 6010B	Prep Type Total/NA
Leau	100		0.55	0.25	myrky			00105	ICIAINA
Client Sample ID: CD:2	204:NY:W 0-2						al	Sample	D: 240-7149-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	220		0.35	0.22	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD:2	204:NY:SE 0-2						al	o Sample	D: 240-7149-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	130		0.33	0.21	mg/Kg	1	ø	6010B	Total/NA
Client Sample ID: CD:2	204:NY:NW 2-6					1	at	o Sample I	D: 240-7149-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	310		0.36		mg/Kg	1	-	6010B	Total/NA
Client Sample ID: CD:2	04:NY:W 2-6					- 11	at	Sample I	D: 240-7149-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	180		0.33		mg/Kg	1	-	6010B	Total/NA
Client Sample ID: CD:2	04:NY:SE 2-6					1	at	o Sample I	D: 240-7149-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	91		0.35	0.22	mg/Kg	1	\$	6010B	Total/NA
Client Sample ID: CD:3	04:WY:S 0-2					1	ak	Sample I	D: 240-7149-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Lead	400	-	0.31	0.19	mg/Kg	1	\$	6010B	Total/NA
Client Sample ID: CD:3	04:WY:E 0-2					1	.ak	Sample I	D: 240-7149-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	280		0.35	0.22	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD:3	04:WY:W 0-2					L	ak	Sample I	D: 240-7149-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	320		0.31	0.19	mg/Kg	1	¢	6010B	Total/NA
Client Sample ID: CD:3	04:WY:S 2-6					La	ab	Sample ID	): 240-7149-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac		Method	Prep Type
Lead	440		0.36	0.23	mg/Kg	1	¢	6010B	Total/NA
Client Sample ID: CD:3	04:WY:E 2-6					La	ab	Sample ID	): 240-7149-1
Analyte	Result	Qualifier	RL	MDL	Unit			Method	Prep Type
Lead	160		0.35		mg/Kg	1	$\overline{\alpha}$	6010B	Total/NA

TestAmerica North Canton 12/30/2011

# **Detection Summary**

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD	:304:WY:W 2-6 (Co	ntinued)				La	ab	Sample II	D: 240-7149-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	420		0.25	0.16	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD	:304:WY:S 6-12					La	ab	Sample II	D: 240-7149-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	340		0.30	0.19	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD	:304:NW:N 0-2					La	ab	Sample II	D: 240-7149-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	320		0.31	0.20	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD	:304:NW:W 0-2				_	La	b	Sample II	D: 240-7149-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	200		0.31	0.20	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD:	:304:NW:E 0-2					La	b	Sample II	D: 240-7149-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	370		0.28	0.18	mg/Kg	1	Ŕ	6010B	Total/NA
Client Sample ID: CD:	304:NW:N 2-6					La	b	Sample II	D: 240-7149-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	290		0.32	0.20	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD:	304:NW:W 2-6					La	b	Sample II	0: 240-7149-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	180		0.34	0.21	mg/Kg	1	\$	6010B	Total/NA
Client Sample ID: CD:	304:NW:E 2-6					La	b	Sample ID	): 240-7149-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	490		0.34	0.22	mg/Kg	1	\$	6010B	Total/NA
Client Sample ID: CD:	300:WC:N 0-2					La	b	Sample ID	): 240-7149-2
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	71		0.26	0.17	mg/Kg	1	\$	6010B	Total/NA
Client Sample ID: CD:	300:WC:E 0-2					La	b	Sample ID	0: 240-7149-2
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	160		0.36	0.23	mg/Kg	1	ä	6010B	Total/NA
Client Sample ID: CD:	300:WC:S 0-2					La	b	Sample ID	): 240-7149-2
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	110		0.32	0.20	mg/Kg	1	TT I	6010B	Total/NA

Lab Sample ID: 240-7149-23

# **Detection Summary**

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD	:300:WC:E 2-6 (Cor	itinuea)				L	an	Sample	D: 240-7149-23
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	140		0.31	0.20	mg/Kg	1	ä	6010B	Total/NA
Client Sample ID: CD	:300:WC:N 2-6					La	ab	Sample II	D: 240-7149-24
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	78		0.34	0.21	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD	:300:WC:S 2-6					La	ab	Sample II	D: 240-7149-25
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	110		0.33	0.21	mg/Kg	1		6010B	Total/NA
Client Sample ID: CD	:DUP 1					La	ab	Sample II	D: 240-7149-26
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Lead	160		0.38	0.24	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD	:DUP 2					La	ab	Sample II	D: 240-7149-27
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	130		0.33	0.21	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD	:204:WC:N 0-2					La	ab	Sample II	D: 240-7149-28
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac		Method	Ргер Туре
Lead	330		0.38	0.24	mg/Kg	1	ø	6010B	Total/NA
Client Sample ID: CD	:204:WC:S 0-2					La	ab	Sample II	D: 240-7149-29
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Lead	350	S	0.32	0.20	mg/Kg	1		6010B	Total/NA
Client Sample ID: CD	:204:WC:E 0-2					La	ab	Sample II	D: 240-7149-30
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	170		0.37	0.23	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD:	:204:WC:N 2-6					La	ab	Sample II	D: 240-7149-31
Analyte	Result	Qualifier	RL	MDL	Unit			Method	Ргер Туре
Lead	290		0.31	0.19	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD:	:204:WC:S 2-6					La	ab	Sample II	D: 240-7149-32
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Lead	150		0.28	0.18	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD:	:204:WC:E 2-6					La	ab	Sample II	D: 240-7149-33
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac			Prep Type
Lead	340		0.31	0.20	mg/Kg	1	Ø	6010B	Total/NA

Client Sample ID: CD:DUP 3

Lab Sample ID: 240-7149-34
#### **Detection Summary**

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CI	D:DUP 3 (Continued)	0				La	ab	Sample II	0: 240-7149-34
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Lead	330		0.33	0.21	mg/Kg	1	ø	6010B	Total/NA
Client Sample ID: CI	D:307:NU:N 0-2					La	ab	Sample II	): 240-7149-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Lead	410		0.38	0.24	mg/Kg	1	\$	6010B	Total/NA
Client Sample ID: CD	0:307:NU:E 0-2					La	ab	Sample ID	): 240-7149-36
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Lead	120		0.35	0.22	mg/Kg	1	ø	6010B	Total/NA
Client Sample ID: CD	0:307:NU:W 0-2					La	ab	Sample ID	): 240-7149-37
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	160		0.36	0.23	mg/Kg	1	-	6010B	Total/NA
Client Sample ID: CD	0:307:NU:N 2-6					La	ab	Sample ID	): 240-7149-38
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	190		0.34	0.21	mg/Kg	1	\$	6010B	Total/NA
Client Sample ID: CD	0:307:NU:E 2-6					La	b	Sample ID	): 240-7149-39
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	110		0.34	0.22	mg/Kg	1	¢	6010B	Total/NA
Client Sample ID: CD	):307:NU:W 2-6			_		La	b	Sample ID	): 240-7149-40
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	150		0.31	0.20	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD	D:DUP 4					La	b	Sample IE	): 240-7149-41
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
Lead	250		0.38	0.24	mg/Kg	1	Ø	6010B	Total/NA

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

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#### Client Sample ID: CD:204:NY:NW 0-2 Date Collected: 12/19/11 10:00 Date Received: 12/21/11 11:10 Percent Solids: 72.9

Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	180	1	0.39	0.25	mg/Kg	ø	12/22/11 10:29	12/28/11 15:58	1

Client: URS Corporation Project/Site: ATTICA C&D

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# Client Sample ID: CD:204:NY:W 0-2 Date Collected: 12/19/11 10:05 Date Received: 12/21/11 11:10 Method: 5010R Metals (ICR)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	220		0.35	0.22	mg/Kg	¢	12/22/11 10:29	12/28/11 16:02	1

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:204:NY:	SE 0-2						Lab Sar	mple ID: 240-	7149-3
Date Collected: 12/19/11 10:10								Matri	x: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 75.9
Method: 6010B - Metals (ICP)									
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:204:NY:I	W 2-6						Lab Sar	nple ID: 240-	7149-4
Date Collected: 12/19/11 10:05								Matri	x: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 78.8
Method: 6010B - Metals (ICP)	. 5		27				a	. A sugar	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	310		0.36	0.23	mg/Kg	\$	12/22/11 10:29	12/28/11 16:18	

Client: URS Corporation Project/Site: ATTICA C&D

Client Sample ID: CD:204:NY:\	N 2-6						Lab San	nple ID: 240-	7149-5
Date Collected: 12/19/11 10:10								Matri	x: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 80.0
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	180		0.33	0.21	mg/Kg	<u> </u>	12/22/11 10:29	12/28/11 16:22	

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

8

Client Sample ID: CD:204:NY:	SE 2-6						Lab Sar	nple ID: 240-	7149-6
Date Collected: 12/19/11 10:15								Matri	x: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 83.5
Method: 6010B - Metals (ICP)	2.3	5.050			15			Linkenst	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
					mg/Kg	Ø	12/22/11 10:29	12/28/11 16:27	

TestAmerica North Canton 12/30/2011

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

8

# Client Sample ID: CD:304:WY:S 0-2 Date Collected: 12/19/11 11:20 Date Received: 12/21/11 11:10 Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	400	-	0.31	0.19	mg/Kg	ä	12/23/11 09:50	12/27/11 20:51	1

Client Sample ID: CD:304:WY:	E 0-2						Lab San	nple ID: 240-	7149-8
Date Collected: 12/19/11 11:25								Matri	x: Soli
Date Received: 12/21/11 11:10								Percent Soli	ds: 73.1
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	280		0.35	0.22	mg/Kg		12/23/11 09:50	12/27/11 20:56	

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

8

Client Sample ID: CD:304:WY:	W 0-2						Lab San	nple ID: 240-	7149-9
Date Collected: 12/19/11 11:30								Matri	x: Solic
Date Received: 12/21/11 11:10								Percent Soli	ds: 79.1
Method: 6010B - Metals (ICP)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	320		0.31	0.19	mg/Kg	¢	12/23/11 09:50	12/27/11 21:02	1

TestAmerica North Canton 12/30/2011

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

ent Sample ID: CD:304:WY:S 2-6 te Collected: 12/19/11 11:20 te Received: 12/21/11 11:10							Lab Sam	ple ID: 240-7 Matri	149-10 x: Solic
Date Received: 12/21/11 11:10								Percent Soli	ds: 78.7
Method: 6010B - Metals (ICP) Analyte	Popult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
		Quanner	NL.	NIDL	Unit	0	Fiepaleu	Analyzeu	Diria

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:304:WY:	E 2-6						Lab Sam	ple ID: 240-7	149-11
Date Collected: 12/19/11 11:25								Matri	x: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 79.7
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	160		0.35	0.22	mg/Kg	- <del>-</del>	12/23/11 09:50	12/27/11 21:13	

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:304:WY: Date Collected: 12/19/11 11:30	W 2-6						Lab Sam	ple ID: 240-7 Matri	149-12 x: Solic
Date Received: 12/21/11 11:10								Percent Soli	
Method: 6010B - Metals (ICP)								-	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	420		0.25	0.40	mg/Kg	Ċ.	12/23/11 09:50	12/27/11 21:19	

Client: URS Corporation Project/Site: ATTICA C&D

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#### Lab Sample ID: 240-7149-13 Client Sample ID: CD:304:WY:S 6-12 Date Collected: 12/19/11 12:00 Matrix: Solid Date Received: 12/21/11 11:10 Percent Solids: 81.9 Method: 6010B - Metals (ICP) Dil Fac Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed T Lead 340 0.30 0.19 mg/Kg 12/23/11 09:50 12/27/11 21:25 1

Client: URS Corporation Project/Site: ATTICA C&D

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#### Lab Sample ID: 240-7149-14 Client Sample ID: CD:304:NW:N 0-2 Date Collected: 12/19/11 13:40 Matrix: Solid Percent Solids: 76.2 Date Received: 12/21/11 11:10 Method: 6010B - Metals (ICP) Analyte RL MDL Unit Prepared Analyzed Dil Fac **Result** Qualifier D 0.31 0.20 mg/Kg -12/23/11 09:50 12/27/11 21:42 Lead 320 1

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

8

# Client Sample ID: CD:304:NW:W 0-2 Lab Sample ID: 240-7149-15 Date Collected: 12/19/11 13:45 Matrix: Solid Date Received: 12/21/11 11:10 Percent Solids: 78.0

Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	200		0.31	0.20	mg/Kg	ø	12/23/11 09:50	12/27/11 21:47	1

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:304:NW: Date Collected: 12/19/11 13:50	E 0-2						Lab Sam	ple ID: 240-7 Matri	149-16 ix: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 73.0
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	370		0.28	0.18	mg/Kg	ø	12/23/11 09:50	12/27/11 21:53	

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:304:NW:	N 2-6						Lab Sam	ple ID: 240-7	149-17
Date Collected: 12/19/11 13:40								Matri	x: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 77.9
Method: 6010B - Metals (ICP)									-
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
					mg/Kg		12/23/11 09:50	12/27/11 21:59	

Client: URS Corporation	
Project/Site: ATTICA C&D	

Client Sample ID: CD:304:NW:	W 2-6						Lab Sam	ple ID: 240-7	
Date Collected: 12/19/11 13:45								Matri	x: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 78.5
Method: 6010B - Metals (ICP) Analyte	Pogult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyto	Result	Qualifier	RL .		mg/Kg		12/23/11 09:50		DirFac
Lead			0.34			a		12/27/11 22:05	

Client: URS Corporation Project/Site: ATTICA C&D

Lead

TestAmerica Job ID: 240-7149-1

12/27/11 22:10

1

8

ø

0.22 mg/Kg

12/23/11 09:50

Client Sample ID: CD:304:NW: Date Collected: 12/19/11 13:50	E 2-6				Lab Sam	ple ID: 240-7 Mat	7149-19 rix: Solid
Date Received: 12/21/11 11:10						Percent So	
Method: 6010B - Metals (ICP) Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

0.34

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:300:WC:	N 0-2						Lab Sam	ple ID: 240-7	149-20
Date Collected: 12/19/11 14:30								Matri	x: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 87.4
Method: 6010B - Metals (ICP)	200				4.6				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	71		0.26	0.47	mg/Kg	24	12/23/11 09:50	12/27/11 22:16	

Client: URS Corporation Project/Site: ATTICA C&D

Client Sample ID: CD:300:WC:	E 0-2						Lab Sam	ple ID: 240-7	149-21
Date Collected: 12/19/11 14:35								Matri	x: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 73.2
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	160		0.36	0.23	mg/Kg	<del>¤</del>	12/23/11 09:50	12/27/11 22:22	1

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:300:WC: Date Collected: 12/19/11 14:40	S 0-2						Lab Sam	ple ID: 240-7 Matri	149-22 ix: Solid
Date Received: 12/21/11 11:10								Percent Soli	
Method: 6010B - Metals (ICP)		0							0115-
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		0.32	0.20	mg/Kg	\$	12/23/11 09:50	12/27/11 22:27	1

Client: URS Corporation Project/Site: ATTICA C&D

Lead

#### Client Sample ID: CD:300:WC:E 2-6 Date Collected: 12/19/11 14:35 Date Received: 12/21/11 11:10 Method: 6010B - Metals (ICP) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

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e	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	140		0.31	0.20	mg/Kg	ġ.	12/23/11 09:50	12/27/11 22:33	1

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

ient Sample ID: CD:300:WC:N 2-6						Lab Sample ID: 240-7149-2					
ate Collected: 12/19/11 14:30								Matri	x: Solie		
Date Received: 12/21/11 11:10								Percent Soli	ds: 86.8		
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa		
Lead	78		0.34	0.21	mg/Kg	- 7	12/27/11 09:49	12/28/11 22:49			

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:300:WC:S 2-6						Lab Sample ID: 240-7149					
ate Collected: 12/19/11 14:40								Matri	x: Solid		
Date Received: 12/21/11 11:10								Percent Soli	ds: 80.9		
Method: 6010B - Metals (ICP)		The second second									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Lead	110		0.33	0.04	mg/Kg	12	12/27/11 09:49	12/28/11 22:55			

Client: URS Corporation Project/Site: ATTICA C&D

#### TestAmerica Job ID: 240-7149-1

8

lient Sample ID: CD:DUP 1							Lab Sample ID: 240-7149-20					
Date Collected: 12/19/11 00:00								Matri	ix: Soli			
Date Received: 12/21/11 11:10								Percent Soli	ds: 70.			
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa			
Lead	160		0.38	0.24	mg/Kg	ā	12/27/11 09:49	12/28/11 23:00				

TestAmerica North Canton 12/30/2011

Client: URS Corporation Project/Site: ATTICA C&D

#### TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:DUP 2							Lab Sam	ple ID: 240-7	149-27
ate Collected: 12/19/11 00:00								Matri	ix: Soli
Date Received: 12/21/11 11:10								Percent Soli	ds: 76.3
Method: 6010B - Metals (ICP)			21		5 - A		2		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	130		0.33	0.21	mg/Kg	12	12/27/11 09:49	12/28/11 23:06	

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

8

lient Sample ID: CD:204:WC:N 0-2							Lab Sample ID: 240-7149-2					
ate Collected: 12/19/11 15:35								Matri	x: Solid			
Date Received: 12/21/11 11:10								Percent Soli	ds: 73.2			
Method: 6010B - Metals (ICP)								5.5.1.2.1				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Lead	330		0.38	0.24	mg/Kg	Ø	12/27/11 09:49	12/28/11 22:15				

TestAmerica North Canton 12/30/2011

Client: URS Corporation	
Project/Site: ATTICA C&D	

lient Sample ID: CD:204:WC:S 0-2						Lab Sample ID: 240-7149-2					
Date Collected: 12/19/11 15:40								Matri	x: Solid		
Date Received: 12/21/11 11:10								Percent Soli	ds: 78.0		
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Lead	350		0.32	0.20	mg/Kg		12/27/11 09:49	12/28/11 23:12	1		

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

lient Sample ID: CD:204:WC:E 0-2						Lab Sample ID: 240-7149-				
Date Collected: 12/19/11 15:45								Matri	x: Solid	
Date Received: 12/21/11 11:10								Percent Soli	ds: 74.8	
Method: 6010B - Metals (ICP)								1.0.2		
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Analyte	Result									

Client: URS Corporation Project/Site: ATTICA C&D

lient Sample ID: CD:204:WC:N 2-6							Lab Sample ID: 240-7149-31				
ate Collected: 12/19/11 15:35								Matri	x: Solid		
Date Received: 12/21/11 11:10								Percent Soli	ds: 82.2		
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Lead	290		0.31	0.19	mg/Kg	ġ	12/27/11 09:49	12/28/11 23:23	1		

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

ient Sample ID: CD:204:WC:S 2-6							Lab Sample ID: 240-7149-33					
Date Collected: 12/19/11 15:40								Matri	x: Soli			
Date Received: 12/21/11 11:10								Percent Soli	ds: 89.1			
Method: 6010B - Metals (ICP)	Browth	Qualifian	ы	MDI	Unit	P	Droppered	Analyzad	Dil Fac			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Direa			
Lead	150		0.28	0.18	mg/Kg	12	12/27/11 09:49	12/28/11 23:29				

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:204:WC:					Lab Sam	ple ID: 240-7	149-33		
ate Collected: 12/19/11 15:45								Matri	ix: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 85.7
Method: 6010B - Metals (ICP)						14			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	340		0.31	0.20	mg/Kg	<b>\$</b>	12/27/11 09:49	12/28/11 23:46	1

Client: URS Corporation Project/Site: ATTICA C&D

#### Client Sample ID: CD:DUP 3 Date Collected: 12/19/11 00:00 Date Received: 12/21/11 11:10

# TestAmerica Job ID: 240-7149-1

8

# Lab Sample ID: 240-7149-34 Matrix: Solid Percent Solids: 77.6

Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	330		0.33	0.21	mg/Kg	Ø	12/27/11 09:49	12/28/11 23:52	1

Client: URS Corporation Project/Site: ATTICA C&D

Lead

#### TestAmerica Job ID: 240-7149-1

12/28/11 23:57

1

8

a

0.24 mg/Kg

12/27/11 09:49

# Client Sample ID: CD:307:NU:N 0-2 Date Collected: 12/19/11 16:45 Date Received: 12/21/11 11:10 Method: 6010B - Metals (ICP) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

0.38
Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:307:NU:E	0-2					Lab Sample ID: 240-7149-36			
Date Collected: 12/19/11 16:50								Matri	ix: Solie
Date Received: 12/21/11 11:10								Percent Soli	ds: 76.2
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120		0.35	0.22	mg/Kg	- <del>a</del>	12/28/11 11:36	12/30/11 02:03	

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

	ient Sample ID: CD:307:NU:W 0-2 te Collected: 12/19/11 16:55						Lab Sam	ple ID: 240-7	149-37 ix: Solic
Date Received: 12/21/11 11:10								Percent Soli	
Method: 6010B - Metals (ICP)		61			a .			and the	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	160		0.36	0.23	mg/Kg	\$	12/28/11 11:36	12/30/11 02:09	

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:307:NU:	V 2-6					Lab Sample ID: 240-7149-38				
Date Collected: 12/19/11 16:45								Matri	x: Soli	
Date Received: 12/21/11 11:10								Percent Soli	ds: 79.	
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa	
Lead	190	-	0.34	0.21	mg/Kg	ġ	12/28/11 11:36	12/30/11 02:15		

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

Client Sample ID: CD:307:NU:E	2-6						Lab Sam	ple ID: 240-7	149-39
Date Collected: 12/19/11 16:50								Matri	x: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 81.0
Method: 6010B - Metals (ICP)		0					Descend	Analysis	Dil For
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	110		0.34	0.22	mg/Kg	12	12/28/11 11:36	12/30/11 00:55	1

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7149-1

8

#### Client Sample ID: CD:307:NU:W 2-6 Lab Sample ID: 240-7149-40 Date Collected: 12/19/11 16:55 Matrix: Solid Date Received: 12/21/11 11:10 Percent Solids: 77.7 Method: 6010B - Metals (ICP) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <del>a</del> Lead 150 0.31 0.20 mg/Kg 12/28/11 11:36 12/30/11 02:21 1

TestAmerica North Canton 12/30/2011 Client: URS Corporation Project/Site: ATTICA C&D

### TestAmerica Job ID: 240-7149-1

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#### **Client Sample ID: CD:DUP 4** Lab Sample ID: 240-7149-41 Date Collected: 12/19/11 00:00 Matrix: Solid Date Received: 12/21/11 11:10 Percent Solids: 75.2 Method: 6010B - Metals (ICP) Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared n Lead 250 0.38 0.24 mg/Kg 12/28/11 11:36 12/30/11 02:26 1

													10000		
Lab Sample ID: MB 240-27888/1-A											C	lient Sa	mple ID: M	ethod	Blan
Matrix: Solid													Prep Ty	be: To	otal/N
Analysis Batch: 28464													Prep E	atch:	2788
		MB	MB												
Analyte	F	Result	Qualifier		RL	M	IDL	Unit		D	Pre	pared	Analyzed	L	Dil Fa
Lead		0.19	U		0.30	0	.19	mg/Kg		-	12/22/	11 10:29	12/28/11 14	:24	
Lab Sample ID: LCS 240-27888/2-A	5-1 C									C	ient S	ample	D: Lab Con	trol S	Sample
Matrix: Solid													Prep Typ		
Analysis Batch: 28464													Prep B	atch:	2788
				Spike		LCS	LCS	S					%Rec.		
Analyte				Added		Result	Qua	alifier	Unit		D	%Rec	Limits		
Lead				50.0	1	46.3			mg/Kg	Ĩ.		93	80 - 120		-
															-
Lab Sample ID: MB 240-28037/1-A											C	lient Sa	mple ID: M		
Matrix: Solid													Prep Typ		
Analysis Batch: 28312		1.1	1.1.1										Prep B	atch:	2803
			MB												
Analyte	F		Qualifier		RL		IDL		_	D		bared	Analyzed	_	Dil Fa
Lead		0.19	U		0.30	0	.19	mg/Kg			12/23/	11 09:50	12/27/11 19	:54	
Lab Cample ID: 1 CC 240 28027/2 A										-	lant C	ample	Du Lab Car	tral C	amal
Lab Sample ID: LCS 240-28037/2-A										U	ient 5	ample	D: Lab Con		
Matrix: Solid													Prep Typ		
Analysis Batch: 28312				Cultur			1.00						Prep B	atcn:	2803
				Spike		LCS					141		%Rec.		
Analyte		-		Added		Result	Qua	alifier	Unit		D	%Rec	Limits		
Lead				50.0		50.8	2.1		mg/Kg			102	80 - 120		
Lab Sample ID: MB 240-28198/1-A											C	liont Ca	mple ID: Me	thad	Plan
Matrix: Solid												lient Ja	Prep Typ		
Analysis Batch: 28487														. IU	Laini
Analysis Daton. 20407															2910
		MB	MB										Prep B		2819
Analyte	R	MB	MB		PI	м	DI	Unit		D	Pror	ared	Prep B	atch:	
	R	esult	Qualifier		RL		DL	- X.V.		D		ared	Prep B Analyzed	atch:	Dil Fa
Analyte Lead	R		Qualifier		RL 0.30		_	Unit mg/Kg		D		bared	Prep B	atch:	Dil Fa
Lead		esult	Qualifier				_	- X.V.		-	12/27/1	1 09:49	Prep B Analyzed 12/28/11 22	atch:	Dil Fa
Lead Lab Sample ID: LCS 240-28198/2-A		esult	Qualifier	-			_	- X.V.		-	12/27/1	1 09:49	Prep B Analyzed 12/28/11 22 D: Lab Con	o3 trol S	Dil Fa
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid		esult	Qualifier				_	- X.V.		-	12/27/1	1 09:49	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ	03 trol S be: To	Dil Fa
Lead Lab Sample ID: LCS 240-28198/2-A		esult	Qualifier	Soike		0	.19	mg/Kg		-	12/27/1	1 09:49	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B	03 trol S be: To	Dil Fa Sample stal/N/
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487		esult	Qualifier	Spike		0 LCS	.19 LCS	mg/Kg	Unit	-	12/27/1	1 09:49 ample I	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec.	03 trol S be: To	Dil Fa
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487 Analyte		esult	Qualifier	Added		0 LCS Result	.19 LCS	mg/Kg	Unit	-	12/27/1	1 09:49 ample I %Rec	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec. Limits	03 trol S be: To	Dil Fa
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487		esult	Qualifier			0 LCS	.19 LCS	mg/Kg	Unit mg/Kg	-	12/27/1	1 09:49 ample I	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec.	03 trol S be: To	Dil Fa
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487 Analyte Lead		esult	Qualifier	Added		0 LCS Result	.19 LCS	mg/Kg		-	12/27/1 ient S	1 09:49 ample I %Rec 99	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec. Limits 80 - 120	oo3 trol S be: To atch:	Dil Fa Sample tal/N/ 2819
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MS		esult	Qualifier	Added		0 LCS Result	.19 LCS	mg/Kg		-	12/27/1 ient S	1 09:49 ample I %Rec 99	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec. Limits 80 - 120 e ID: CD:20	oo3 trol S be: To atch:	Dil Fa Sample otal/N/ 2819 :N 0-:
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MS Matrix: Solid		esult	Qualifier	Added		0 LCS Result	.19 LCS	mg/Kg		-	12/27/1 ient S	1 09:49 ample I %Rec 99	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec. Limits 80 - 120 de ID: CD:20 Prep Typ	atch: 03 trol S be: To atch: 04:WC	Dil Fa Sample Stal/N/ 2819 2819 2819 2819
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MS		esult 0.19	Qualifier U	Added 50.0		0 LCS Result 49.3	.19 LCS	mg/Kg		-	12/27/1 ient S	1 09:49 ample I %Rec 99	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec. Limits 80 - 120 de ID: CD:20 Prep Typ Prep B	atch: 03 trol S be: To atch: 04:WC	Dil Fa Sample Stal/NA 28191 28191
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MS Matrix: Solid Analysis Batch: 28487		Sam	Qualifier U	Added		0 LCS Result 49.3	LCS Qua	mg/Kg S alifier		-	12/27/1 ient S	1 09:49 ample I %Rec 99	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec. Limits 80 - 120 de ID: CD:20 Prep Typ	atch: 03 trol S be: To atch: 04:WC	Dil Fa Sample Stal/N/ 2819 2819 2819 2819
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MS Matrix: Solid Analysis Batch: 28487 Analyte	Sample	Sam	Qualifier U	Added 50.0 Spike		0 LCS Result 49.3 MS	.19 LCS Qua	mg/Kg S alifier	mg/Kg	-	12/27/1 ient S D Clien	1 09:49 ample I %Rec 99 t Sampl	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec. Limits 80 - 120 le ID: CD:20 Prep Typ Prep B %Rec.	atch: 03 trol S be: To atch: 04:WC	Dil Fa Sample Stal/N/ 2819 2819 2819 2819
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MS Matrix: Solid Analysis Batch: 28487 Analyte	Sample Result	Sam	Qualifier U	Added 50.0 Spike Added		UCS Result 49.3 MS Result	.19 LCS Qua	mg/Kg S alifier	mg/Kg Unit	-	D D D D	1 09:49 ample I %Rec 99 t Sampl	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec. Limits 80 - 120 le ID: CD:20 Prep Typ Prep B %Rec. Limits	atch: 03 trol S be: To atch: 04:WC	Dil Fa Sample Stal/N/ 2819 2819 2819 2819
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MS Matrix: Solid Analysis Batch: 28487 Analyte Lead	Sample Result	Sam	Qualifier U	Added 50.0 Spike Added		UCS Result 49.3 MS Result	.19 LCS Qua	mg/Kg S alifier	mg/Kg Unit	-	D Clien	1 09:49 ample I %Rec 99 t Sampl %Rec 89	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec. Limits 80 - 120 le ID: CD:20 Prep Typ Prep B %Rec. Limits	atch: 03 trol S be: To atch: 04:WC be: To atch:	Dil Fa Samplı tal/N/ 2819: C:N 0- otal/N/ 2819:
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MS Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MSD	Sample Result	Sam	Qualifier U	Added 50.0 Spike Added		UCS Result 49.3 MS Result	.19 LCS Qua	mg/Kg S alifier	mg/Kg Unit	-	D Clien	1 09:49 ample I %Rec 99 t Sampl %Rec 89	Prep B Analyzed 12/28/11 22 D: Lab Com Prep Typ Prep B %Rec. Limits 80 - 120 Prep Typ Prep B %Rec. Limits 75 - 125	atch: 03 trol S be: To atch: 04:WC be: To atch: 14:WC 14	Dil Fa Gample tal/N/ 2819 ::N 0- tal/N/ 2819 ::N 0- ::N 0-
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MS Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MSD Matrix: Solid	Sample Result	Sam	Qualifier U	Added 50.0 Spike Added		UCS Result 49.3 MS Result	.19 LCS Qua	mg/Kg S alifier	mg/Kg Unit	-	D Clien	1 09:49 ample I %Rec 99 t Sampl %Rec 89	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec. Limits 80 - 120 de ID: CD:20 Prep Typ Prep B %Rec. Limits 75 - 125 de ID: CD:20	atch: 03 trol S be: To atch: 04:WC be: To atch: 14:WC be: To be: To	Dil Fa Sample Dil Fa 2819 2819 2819 2819 2819 2819 2819 2819
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MS Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MSD Matrix: Solid	Sample Result	Sam Qual	Qualifier U	Added 50.0 Spike Added		UCS Result 49.3 MS Result	LCS Qua MS Qua 4	mg/Kg alifier	mg/Kg Unit	-	D Clien	1 09:49 ample I %Rec 99 t Sampl %Rec 89	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec. Limits 80 - 120 Prep Typ Prep B %Rec. Limits 75 - 125 e ID: CD:20 Prep Typ	atch: 03 trol S be: To atch: 04:WC be: To atch: 14:WC be: To be: To	Dil Fa ample otal/NA 28198 2:N 0-2 2:N
Lead Lab Sample ID: LCS 240-28198/2-A Matrix: Solid Analysis Batch: 28487 Analyte Lead Lab Sample ID: 240-7149-28 MS Matrix: Solid Analysis Batch: 28487 Analyte	Sample Result 330	Sam Qual	Qualifier U ple ifier	Added 50.0 Spike Added 67.0		UCS Result 49.3 MS Result 386	LCS Qua MS Qua 4	mg/Kg S alifier	mg/Kg Unit	-	D Clien	1 09:49 ample I %Rec 99 t Sampl %Rec 89	Prep B Analyzed 12/28/11 22 D: Lab Con Prep Typ Prep B %Rec. Limits 80 - 120 Prep Typ Prep B %Rec. Limits 75 - 125 de ID: CD:20 Prep Typ Prep B	atch: 03 trol S be: To atch: 04:WC be: To atch: 14:WC be: To be: To	Dil Fa ample otal/NA 28198 28198 28198 28198 28198 28198 28198 28198

Lab Sample ID: MB 240-28395/1-A											C	lient Sa	mple ID: N	lethod	Blank
Matrix: Solid													Prep Ty	pe: To	tal/NA
Analysis Batch: 28639													Prep	Batch:	28395
		MB	MB												
Analyte	R	esult	Qualifier		RL	M	DL	Unit		D	Pre	pared	Analyze	be	Dil Fac
Lead		0.19	U		0.30	0	.19	mg/Kg			12/28/	11 11:36	12/30/11 0	0:44	1
Lab Sample ID: LCS 240-28395/2-A										CI	lient S	ample	D: Lab Co	ntrol S	ample
Matrix: Solid													Prep Ty	pe: To	tal/NA
Analysis Batch: 28639													Prep	Batch:	28395
				Spike		LCS	LC	S					%Rec.		
Analyte				Added		Result	Qui	alifier	Unit		D	%Rec	Limits		
Lead				50.0		46.2			mg/Kg			92	80 - 120		
Lab Sample ID: 240-7149-39 MS											Clier	nt Samp	le ID: CD:	307:NU	J:E 2-6
Matrix: Solid													Prep Ty	pe: To	tal/NA
Analysis Batch: 28639													Prep	Batch:	28395
	Sample	Sam	ple	Spike		MS	MS						%Rec.		
Analyte	Result	Qual	ifier	Added		Result	Qua	alifier	Unit		D	%Rec	Limits		
Lead	110	-		56.6		150			mg/Kg		a	78	75 - 125		
Lab Sample ID: 240-7149-39 MSD											Clier	nt Samp	le ID: CD:	307:NU	I:E 2-6
Matrix: Solid													Prep Ty	pe: To	tal/NA
Analysis Batch: 28639													Prep	Batch:	28395
	Sample	Sam	ple	Spike		MSD	MS	D					%Rec.		RPD
Analyte	Result	Qual	ifier	Added		Result	Qua	alifier	Unit		D	%Rec	Limits	RPD	Limit
		_				153	-		-		ā	82	75 - 125	2	20

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Client: URS Corporation Project/Site: ATTICA C&D

#### Metals

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-7149-1	CD:204:NY:NW 0-2	Total/NA	Solid	3050B	
240-7149-2	CD:204:NY:W 0-2	Total/NA	Solid	3050B	
240-7149-3	CD:204:NY:SE 0-2	Total/NA	Solid	3050B	
240-7149-4	CD:204:NY:NW 2-6	Total/NA	Solid	3050B	
240-7149-5	CD:204:NY:W 2-6	Total/NA	Solid	3050B	
240-7149-6	CD:204:NY:SE 2-6	Total/NA	Solid	3050B	
CS 240-27888/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-27888/1-A	Method Blank	Total/NA	Solid	3050B	
rep Batch: 28037					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
40-7149-7	CD:304:WY:S 0-2	Total/NA	Solid	3050B	
40-7149-8	CD:304:WY:E 0-2	Total/NA	Solid	3050B	
240-7149-9	CD:304:WY:W 0-2	Total/NA	Solid	3050B	
240-7149-10	CD:304:WY:S 2-6	Total/NA	Solid	3050B	
240-7149-11	CD:304:WY:E 2-6	Total/NA	Solid	3050B	
40-7149-12	CD:304:WY:W 2-6	Total/NA	Solid	3050B	
40-7149-13	CD:304:WY:S 6-12	Total/NA	Solid	3050B	
40-7149-14	CD:304:NW:N 0-2	Total/NA	Solid	3050B	
40-7149-15	CD:304:NW:W 0-2	Total/NA	Solid	3050B	
40-7149-16	CD:304:NW:E 0-2	Total/NA	Solid	3050B	
40-7149-17	CD:304:NW:N 2-6	Total/NA	Solid	3050B	
40-7149-18	CD:304:NW:W 2-6	Total/NA	Solid	3050B	
40-7149-19	CD:304:NW/E 2-6	Total/NA	Solid	3050B	
40-7149-20	CD:300:WC:N 0-2	Total/NA	Solid	3050B	
40-7149-21	CD:300:WC:E 0-2	Total/NA	Solid	3050B	
40-7149-22	CD:300:WC:S 0-2	Total/NA	Solid	3050B	
240-7149-23	CD:300:WC:E 2-6	Total/NA	Solid	3050B	
CS 240-28037/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-28037/1-A	Method Blank	Total/NA	Solid	3050B	
rep Batch: 28198					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
40-7149-24	CD:300:WC:N 2-6	Total/NA	Solid	3050B	
40-7149-25	CD:300:WC:S 2-6	Total/NA	Solid	3050B	
40-7149-26	CD:DUP 1	Total/NA	Solid	3050B	
40-7149-27	CD:DUP 2	Total/NA	Solid	3050B	
40-7149-28	CD:204:WC:N 0-2	Total/NA	Solid	3050B	
40-7149-28 MS	CD:204:WC:N 0-2	Total/NA	Solid	3050B	
40-7149-28 MSD	CD:204:WC:N 0-2	Total/NA	Solid	3050B	
40-7149-29	CD:204:WC:S 0-2	Total/NA	Solid	3050B	
40-7149-30	CD:204:WC:E 0-2	Total/NA	Solid	3050B	
40-7149-31	CD:204:WC:N 2-6	Total/NA	Solid	3050B	
40-7149-32	CD:204:WC:S 2-6	Total/NA	Solid	3050B	
40-7149-33	CD:204:WC:E 2-6	Total/NA	Solid	3050B	
40-7149-34	CD:DUP 3	Total/NA	Solid	3050B	
40-7149-35	CD:307:NU:N 0-2	Total/NA	Solid	3050B	
CS 240-28198/2-A	Lab Control Sample	Total/NA	Solid	3050B	
AB 240-28198/1-A	Method Blank	Total/NA	Solid	3050B	

Client: URS Corporation Project/Site: ATTICA C&D

#### Metals (Continued)

10

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bat
240-7149-7	CD:304:WY:S 0-2	Total/NA	Solid	6010B	280
240-7149-8	CD:304:WY:E 0-2	Total/NA	Solid	6010B	280
240-7149-9	CD:304:WY:W 0-2	Total/NA	Solid	6010B	280
240-7149-10	CD:304:WY:S 2-6	Total/NA	Solid	6010B	280
240-7149-11	CD:304:WY:E 2-6	Total/NA	Solid	6010B	280
240-7149-12	CD:304:WY:W 2-6	Total/NA	Solid	6010B	280
240-7149-13	CD:304:WY:S 6-12	Total/NA	Solid	6010B	280
240-7149-14	CD:304:NW:N 0-2	Total/NA	Solid	6010B	280
240-7149-15	CD:304:NW:W 0-2	Total/NA	Solid	6010B	28
40-7149-16	CD:304:NW:E 0-2	Total/NA	Solid	6010B	28
40-7149-17	CD:304:NW:N 2-6	Total/NA	Solid	6010B	28
40-7149-18	CD:304:NW:W 2-6	Total/NA	Solid	6010B	28
40-7149-19	CD:304:NW/E 2-6	Total/NA	Solid	6010B	28
40-7149-20	CD:300:WC:N 0-2	Total/NA	Solid	6010B	28
40-7149-21	CD:300:WC:E 0-2	Total/NA	Solid	6010B	28
40-7149-22	CD:300:WC:S 0-2	Total/NA	Solid	6010B	28
40-7149-23	CD:300:WC:E 2-6	Total/NA	Solid	6010B	28
CS 240-28037/2-A	Lab Control Sample	Total/NA	Solid	6010B	28
NB 240-28037/1-A	Method Blank	Total/NA	Solid	6010B	28
ep Batch: 28395					
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Ba
40-7149-36	CD:307:NU:E 0-2	Total/NA	Solid	3050B	
40-7149-37	CD:307:NU:W 0-2	Total/NA	Solid	3050B	
40-7149-38	CD:307:NU:N 2-6	Total/NA	Solid	3050B	
40-7149-39	CD:307:NU:E 2-6	Total/NA	Solid	3050B	
40-7149-39 MS	CD:307:NU:E 2-6	Total/NA	Solid	3050B	
40-7149-39 MSD	CD:307:NU:E 2-6	Total/NA	Solid	3050B	
40-7149-40	CD:307:NU:W 2-6	Total/NA	Solid	3050B	
40-7149-41	CD:DUP 4	Total/NA	Solid	3050B	
CS 240-28395/2-A	Lab Control Sample	Total/NA	Solid	3050B	
IB 240-28395/1-A	Method Blank	Total/NA	Solid	3050B	
alysis Batch: 28464					
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Ba
40-7149-1	CD:204:NY:NW 0-2	Total/NA	Solid	6010B	27
40-7149-2	CD:204:NY:W 0-2	Total/NA	Solid	6010B	27
40-7149-3	CD:204:NY:SE 0-2	Total/NA	Solid	6010B	27
40-7149-4	CD:204:NY:NW 2-6	Total/NA	Solid	6010B	27
40-7149-5	CD:204:NY:W 2-6	Total/NA	Solid	6010B	27
40-7149-6	CD:204:NY:SE 2-6	Total/NA	Solid	6010B	27
CS 240-27888/2-A	Lab Control Sample	Total/NA	Solid	6010B	27
B 240-27888/1-A	Method Blank	Total/NA	Solid	6010B	27
alysis Batch: 28487					
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Ba
40-7149-24	CD:300:WC:N 2-6	Total/NA	Solid	6010B	28
40-7149-25	CD:300:WC:S 2-6	Total/NA	Solid	6010B	28
40-7149-26	CD:DUP 1	Total/NA	Solid	6010B	28
40-7149-27	CD:DUP 2	Total/NA	Solid	6010B	28
40-7149-28	CD:204:WC:N 0-2	Total/NA	Solid	6010B	28
40-7149-28 MS	CD:204:WC:N 0-2	Total/NA	Solid	6010B	28

TestAmerica North Canton 12/30/2011

Client: URS Corporation Project/Site: ATTICA C&D

#### Metals (Continued)

#### Analysis Batch: 28487 (Continued)

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
CD:204:WC:N 0-2	Total/NA	Solid	6010B	28198
CD:204:WC:S 0-2	Total/NA	Solid	6010B	28198
CD:204:WC:E 0-2	Total/NA	Solid	6010B	28198
CD:204:WC:N 2-6	Total/NA	Solid	6010B	28198
CD:204:WC:S 2-6	Total/NA	Solid	6010B	28198
CD:204:WC:E 2-6	Total/NA	Solid	6010B	28198
CD:DUP 3	Total/NA	Solid	6010B	28198
CD:307:NU:N 0-2	Total/NA	Solid	6010B	28198
Lab Control Sample	Total/NA	Solid	6010B	28198
Method Blank	Total/NA	Solid	6010B	28198
	CD:204:WC:N 0-2 CD:204:WC:S 0-2 CD:204:WC:E 0-2 CD:204:WC:N 2-6 CD:204:WC:S 2-6 CD:204:WC:E 2-6 CD:204:WC:E 2-6 CD:DUP 3 CD:307:NU:N 0-2 Lab Control Sample	CD:204:WC:N 0-2         Total/NA           CD:204:WC:S 0-2         Total/NA           CD:204:WC:E 0-2         Total/NA           CD:204:WC:E 0-2         Total/NA           CD:204:WC:S 2-6         Total/NA           CD:204:WC:S 2-6         Total/NA           CD:204:WC:E 2-6         Total/NA           CD:DUP 3         Total/NA           CD:307:NU:N 0-2         Total/NA           Lab Control Sample         Total/NA	CD:204:WC:N 0-2Total/NASolidCD:204:WC:S 0-2Total/NASolidCD:204:WC:E 0-2Total/NASolidCD:204:WC:N 2-6Total/NASolidCD:204:WC:S 2-6Total/NASolidCD:204:WC:E 2-6Total/NASolidCD:DUP 3Total/NASolidCD:307:NU:N 0-2Total/NASolidLab Control SampleTotal/NASolid	CD:204:WC:N 0-2         Total/NA         Solid         6010B           CD:204:WC:S 0-2         Total/NA         Solid         6010B           CD:204:WC:E 0-2         Total/NA         Solid         6010B           CD:204:WC:E 0-2         Total/NA         Solid         6010B           CD:204:WC:S 2-6         Total/NA         Solid         6010B           CD:204:WC:S 2-6         Total/NA         Solid         6010B           CD:204:WC:E 2-6         Total/NA         Solid         6010B           CD:DUP 3         Total/NA         Solid         6010B           CD:307:NU:N 0-2         Total/NA         Solid         6010B           Lab Control Sample         Total/NA         Solid         6010B

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-7149-36	CD:307:NU:E 0-2	Total/NA	Solid	6010B	28395
240-7149-37	CD:307:NU:W 0-2	Total/NA	Solid	6010B	28395
240-7149-38	CD:307:NU:N 2-6	Total/NA	Solid	6010B	28395
240-7149-39	CD:307:NU:E 2-6	Total/NA	Solid	6010B	28395
240-7149-39 MS	CD:307 NU:E 2-6	Total/NA	Solid	6010B	28395
240-7149-39 MSD	CD:307:NU:E 2-6	Total/NA	Solid	6010B	28395
240-7149-40	CD:307:NU:W 2-6	Total/NA	Solid	6010B	28395
240-7149-41	CD:DUP 4	Total/NA	Solid	6010B	28395
LCS 240-28395/2-A	Lab Control Sample	Total/NA	Solid	6010B	28395
MB 240-28395/1-A	Method Blank	Total/NA	Solid	6010B	28395
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### **General Chemistry**

#### Analysis Batch: 28028

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-7149-1	CD;204:NY;NW 0-2	Total/NA	Solid	Moisture	
240-7149-2	CD:204 NY:W 0-2	Total/NA	Solid	Moisture	
240-7149-3	CD:204:NY:SE 0-2	Total/NA	Solid	Moisture	
240-7149-4	CD:204:NY:NW 2-6	Total/NA	Solid	Moisture	
40-7149-5	CD:204:NY:W 2-6	Total/NA	Solid	Moisture	
40-7149-6	CD:204:NY:SE 2-6	Total/NA	Solid	Moisture	
40-7149-7	CD:304:WY:S 0-2	Total/NA	Solid	Moisture	
40-7149-8	CD:304:WY:E 0-2	Total/NA	Solid	Moisture	
40-7149-9	CD:304:WY:W 0-2	Total/NA	Solid	Moisture	
40-7149-10	CD:304:WY:S 2-6	Total/NA	Solid	Moisture	
40-7149-11	CD:304:WY:E 2-6	Total/NA	Solid	Moisture	
40-7149-12	CD:304:WY:W 2-6	Total/NA	Solid	Moisture	
40-7149-13	CD:304:WY:S 6-12	Total/NA	Solid	Moisture	
40-7149-14	CD:304:NW:N 0-2	Total/NA	Solid	Moisture	
40-7149-15	CD:304:NW:W 0-2	Total/NA	Solid	Moisture	
40-7149-16	CD:304:NW:E 0-2	Total/NA	Solid	Moisture	
40-7149-17	CD:304:NW:N 2-6	Total/NA	Solid	Moisture	
40-7149-17 DU	CD:304:NW:N 2-6	Total/NA	Solid	Moisture	
40-7149-18	CD:304:NW:W 2-6	Total/NA	Solid	Moisture	
40-7149-19	CD:304:NW:E 2-6	Total/NA	Solid	Moisture	
40-7149-20	CD:300:WC:N 0-2	Total/NA	Solid	Moisture	
40-7149-21	CD:300:WC:E 0-2	Total/NA	Solid	Moisture	
40-7149-22	CD:300:WC:S 0-2	Total/NA	Solid	Moisture	
240-7149-23	CD:300:WC:E 2-6	Total/NA	Solid	Moisture	

## **General Chemistry (Continued)**

#### Analysis Batch: 28028 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
240-7149-24	CD:300:WC:N 2-6	Total/NA	Solid	Moisture		
240-7149-25	CD:300:WC:S 2-6	Total/NA	Solid	Moisture		
240-7149-26	CD:DUP 1	Total/NA	Solid	Moisture		
240-7149-26 DU	CD:DUP 1	Total/NA	Solid	Moisture		
240-7149-27	CD:DUP 2	Total/NA	Solid	Moisture		
240-7149-28	CD:204:WC:N 0-2	Total/NA	Solid	Moisture		
240-7149-28 DU	CD:204:WC:N 0-2	Total/NA	Solid	Moisture		
240-7149-29	CD:204:WC:S 0-2	Total/NA	Solid	Moisture		
240-7149-30	CD:204:WC:E 0-2	Total/NA	Solid	Moisture		
240-7149-31	CD:204:WC:N 2-6	Total/NA	Solid	Moisture		
240-7149-32	CD:204:WC:S 2-6	Total/NA	Solid	Moisture		
240-7149-33	CD:204:WC:E 2-6	Total/NA	Solid	Moisture		10
240-7149-34	CD:DUP 3	Total/NA	Solid	Moisture		20000000000000000000000000000000000000
240-7149-35	CD:307:NU:N 0-2	Total/NA	Solid	Moisture		
240-7149-36	CD:307:NU:E 0-2	Total/NA	Solid	Moisture		
240-7149-36 DU	CD:307:NU:E 0-2	Total/NA	Solid	Moisture		
240-7149-37	CD:307:NU:W 0-2	Total/NA	Solid	Moisture		
240-7149-38	CD:307:NU:N 2-6	Total/NA	Solid	Moisture		
240-7149-39	CD:307:NU:E 2-6	Total/NA	Solid	Moisture		
240-7149-39 DU	CD:307:NU:E 2-6	Total/NA	Solid	Moisture		
240-7149-40	CD:307:NU:W 2-6	Total/NA	Solid	Moisture		
240-7149-41	CD:DUP 4	Total/NA	Solid	Moisture		

		04:NY:NW 0-2	2				Lab Sample	e ID: 240-7149-
Date Collected	: 12/19/11 10:	00						Matrix: Sol
Date Received	: 12/21/11 11:	10					P	ercent Solids: 72
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28464	12/28/11 15:58	KC	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Samp		M.NV.W 0.2					Lab Sample	D: 240-7149
Date Collected							Lab Gampie	
								Matrix: Sol
Date Received	12/21/11 11:	10					P	ercent Solids: 75
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28464	12/28/11 16:02	KC	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Date Collected Date Received:								Matrix: Sol ercent Solids: 75
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28464	12/28/11 16:14	KC	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Samp	le ID: CD:20	4:NY:NW 2-6	0				Lab Sample	D: 240-7149
Date Collected	: 12/19/11 10:0	05						Matrix: Sol
Date Received:	12/21/11 11:1	0					P	ercent Solids: 78
-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28464	12/28/11 16:18	KC	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Sampl							Lab Sample	ID: 240-7149
Date Collected: Date Received:		3					P	Matrix: Sol ercent Solids: 80
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Televille	riep	00000			21000	12122/11 10.29	DL	TAL NO

Total/NA

Total/NA

Analysis

Analysis

6010B

Moisture

TAL NC

TAL NC

1

1

28464

28028

12/28/11 16:22

12/23/11 09:27

KC

CN

# Client Sample ID: CD:204:NY:SE 2-6 Date Collected: 12/19/11 10:15

Date Received	: 12/21/11 11:1	0					P	ercent Solids: 83.5
Ргер Туре	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28464	12/28/11 16:27	KC	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC

# Client Sample ID: CD:304:WY:S 0-2 Date Collected: 12/19/11 11:20

Date Received	12/21/11 11:1	0					P	ercent Solids: 77.1
Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 20:51	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC

## Client Sample ID: CD:304:WY:E 0-2 Date Collected: 12/19/11 11:25 Date Received: 12/21/11 11:10

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PA ARCHIVE

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Ргер Туре	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 20:56	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC

#### Client Sample ID: CD:304:WY:W 0-2 Date Collected: 12/19/11 11:30 Date Received: 12/21/11 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B		,	28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 21:02	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC

#### Client Sample ID: CD:304:WY:S 2-6 Date Collected: 12/19/11 11:20 Date Received: 12/21/11 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 21:08	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC

Lab Sample ID: 240-7149-9

TestAmerica Job ID: 240-7149-1

Lab Sample ID: 240-7149-6

Lab Sample ID: 240-7149-7

Lab Sample ID: 240-7149-8

Matrix: Solid

Matrix: Solid .....

Matrix: Solid

Matrix: Solid

Percent Solids: 79.1

Percent Solids: 73.7

#### Lab Sample ID: 240-7149-10

Matrix: Solid Percent Solids: 78.7

<b>Client Sample</b>	le ID: CD:30	04:WY:E 2-6				La	ab Sample	ID: 240-7149-1
Date Collected								Matrix: Soli
Date Received:							P	ercent Solids: 79
-		( Astron				-		
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B		9	28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 21:13	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Sampl	e ID: CD:30	4:WY:W 2-6				La	ab Sample	ID: 240-7149-1
Date Collected:								Matrix: Soli
Date Received:							P	ercent Solids: 75
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 21:19	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Date Collected:	12/19/11 12:0					La		Matrix: Sol
Date Collected:	12/19/11 12:0 12/21/11 11:1	00		Dilution	Batch			Matrix: Sol
Date Collected: Date Received:	12/19/11 12:0 12/21/11 11:1 Batch	00 Batch	Run	Dilution	Batch Number	Prepared	P	Matrix: Sol ercent Solids: 81
Date Collected: Date Received: Prep Type	12/19/11 12:0 12/21/11 11:1 Batch Type	00 0 Batch Method	Run	Dilution Factor	Number	Prepared or Analyzed	Pe	Matrix: Sol ercent Solids: 81 Lab
Date Collected: Date Received: Prep Type Total/NA	12/19/11 12:0 12/21/11 11:1 Batch Type Prep	00 Batch Method 3050B	Run	Factor	Number 28037	Prepared or Analyzed 12/23/11 09:50	Analyst AS	Matrix: Sol ercent Solids: 81 Lab TAL NC
Date Collected: Date Received: Prep Type	12/19/11 12:0 12/21/11 11:1 Batch Type	00 0 Batch Method	Run		Number	Prepared or Analyzed	Pe	Matrix: Sol ercent Solids: 81 Lab
Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA	12/19/11 12:0 12/21/11 11:1 Batch Type Prep Analysis Analysis	D0 Batch Method 3050B 6010B Moisture	Run	Factor	Number 28037 28312	Prepared or Analyzed 12/23/11 09:50 12/27/11 21:25 12/23/11 09:27	Analyst AS BD CN	Matrix: Sol ercent Solids: 81 Lab TAL NC TAL NC TAL NC TAL NC
Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA	12/19/11 12:0 12/21/11 11:1 Batch Type Prep Analysis Analysis e ID: CD:30	D0 Batch Method 3050B 6010B Moisture 04:NW:N 0-2	Run	Factor	Number 28037 28312	Prepared or Analyzed 12/23/11 09:50 12/27/11 21:25 12/23/11 09:27	Analyst AS BD CN	Matrix: Soli ercent Solids: 81. Lab TAL NC TAL NC TAL NC TAL NC
Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA Client Sampl Date Collected:	12/19/11 12:0 12/21/11 11:1 Batch Type Prep Analysis Analysis e ID: CD:30 12/19/11 13:4	00 0 Batch Method 3050B 6010B Moisture 04:NW:N 0-2	Run	Factor	Number 28037 28312	Prepared or Analyzed 12/23/11 09:50 12/27/11 21:25 12/23/11 09:27	Analyst AS BD CN ab Sample	Matrix: Soli ercent Solids: 81. Lab TAL NC TAL NC TAL NC TAL NC ID: 240-7149-1 Matrix: Soli
Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA Client Sampl Date Collected:	12/19/11 12:0 12/21/11 11:1 Batch Type Prep Analysis Analysis e ID: CD:30 12/19/11 13:4	00 0 Batch Method 3050B 6010B Moisture 04:NW:N 0-2	Run	Factor	Number 28037 28312	Prepared or Analyzed 12/23/11 09:50 12/27/11 21:25 12/23/11 09:27	Analyst AS BD CN ab Sample	Matrix: Soli ercent Solids: 81 Lab TAL NC TAL NC TAL NC TAL NC TAL NC TAL NC TAL NC Soli Matrix: Soli
Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA Client Sampl Date Collected:	12/19/11 12:0 12/21/11 11:1 Batch Type Prep Analysis Analysis e ID: CD:30 12/19/11 13:4	00 0 Batch Method 3050B 6010B Moisture 04:NW:N 0-2	Run	Factor	Number 28037 28312	Prepared or Analyzed 12/23/11 09:50 12/27/11 21:25 12/23/11 09:27	Analyst AS BD CN ab Sample	Matrix: Soli ercent Solids: 81 Lab TAL NC TAL NC TAL NC TAL NC TAL NC TAL NC TAL NC Soli Matrix: Soli
Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA Client Sampl Date Collected:	12/19/11 12:0 12/21/11 11:1 Batch Type Prep Analysis Analysis e ID: CD:30 12/19/11 13:4 12/21/11 11:1	00 0 Batch Method 3050B 6010B Moisture 04:NW:N 0-2 10 0	Run	Factor 1 1	Number 28037 28312 28028	Prepared or Analyzed 12/23/11 09:50 12/27/11 21:25 12/23/11 09:27	Analyst AS BD CN ab Sample	Matrix: Sol ercent Solids: 81 TAL NC TAL NC TAL NC TAL NC TAL NC ID: 240-7149-1 Matrix: Sol ercent Solids: 76
Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA Client Sampl Date Collected: Date Received: Date Received: Prep Type Total/NA	12/19/11 12:0 12/21/11 11:1 Batch Type Prep Analysis Analysis e ID: CD:30 12/19/11 13:4 12/21/11 11:1 Batch Type Prep Prep	00 0 Batch Method 3050B 6010B Moisture 04:NW:N 0-2 40 0 Batch Method 3050B		Factor 1 1 Dilution Factor	Number           28037           28312           28028           Batch           Number           28037	Prepared or Analyzed 12/23/11 09:50 12/27/11 21:25 12/23/11 09:27 La Prepared or Analyzed 12/23/11 09:50	Analyst AS BD CN Ab Sample Pe Analyst AS	Matrix: Soli ercent Solids: 81 TAL NC TAL NC TAL NC TAL NC ID: 240-7149-1 Matrix: Soli ercent Solids: 76 Lab TAL NC
Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA Client Sampl Date Collected: Date Received: Prep Type	12/19/11 12:0 12/21/11 11:1 Batch Type Prep Analysis Analysis e ID: CD:30 12/19/11 13:4 12/21/11 11:1 Batch Type	D0 D0 Batch Method 3050B 6010B Moisture D4:NW:N 0-2 40 0 Batch Method		Factor 1 1 Dilution	Number 28037 28312 28028 Batch Number	Prepared or Analyzed 12/23/11 09:50 12/27/11 21:25 12/23/11 09:27 La Prepared or Analyzed	Analyst AS BD CN Ab Sample Pe Analyst	Matrix: Sol ercent Solids: 81 Lab TAL NC TAL NC TAL NC TAL NC ID: 240-7149-1 Matrix: Sol ercent Solids: 76 Lab
Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA Client Sampl Date Collected: Date Received: Date Received: Prep Type Total/NA	12/19/11 12:0 12/21/11 11:1 Batch Type Prep Analysis Analysis e ID: CD:30 12/19/11 13:4 12/21/11 11:1 Batch Type Prep Prep	00 0 Batch Method 3050B 6010B Moisture 04:NW:N 0-2 40 0 Batch Method 3050B		Factor 1 1 Dilution Factor	Number           28037           28312           28028           Batch           Number           28037	Prepared or Analyzed 12/23/11 09:50 12/27/11 21:25 12/23/11 09:27 La Prepared or Analyzed 12/23/11 09:50	Analyst AS BD CN Ab Sample Pe Analyst AS	Matrix: Soli ercent Solids: 81 TAL NC TAL NC TAL NC TAL NC ID: 240-7149-1 Matrix: Soli ercent Solids: 76 Lab TAL NC
Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA Client Sampl Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA	12/19/11 12:0 12/21/11 11:1 Batch Type Prep Analysis Analysis e ID: CD:30 12/19/11 13:4 12/21/11 11:1 Batch Type Prep Analysis Analysis Analysis	00 0 Batch Method 3050B 6010B Moisture 04:NW:N 0-2 40 0 Batch Method 3050B 6010B Moisture		Factor 1 1 Dilution Factor 1	Number           28037           28312           28028           Batch           Number           28037           28037	Prepared or Analyzed 12/23/11 09:50 12/27/11 21:25 12/23/11 09:27 La Prepared or Analyzed 12/23/11 09:50 12/27/11 21:42 12/23/11 09:27	Analyst AS BD CN Ab Sample Pe Analyst AS BD CN	Matrix: Soli ercent Solids: 81 TAL NC TAL NC TAL NC TAL NC ID: 240-7149-1 Matrix: Soli ercent Solids: 76.
Date Collected: Date Received: Total/NA Total/NA Total/NA Total/NA Client Sampl Date Collected: Date Received: Date Received: Prep Type Total/NA Total/NA Total/NA	12/19/11 12:0 12/21/11 11:1 Batch Type Prep Analysis Analysis e ID: CD:300 12/19/11 13:4 12/21/11 11:1 Batch Type Prep Analysis Analysis Analysis e ID: CD:300	00 0 Batch Method 3050B 6010B Moisture 04:NW:N 0-2 00 Batch Method 3050B 6010B Moisture 04:NW:W 0-2		Factor 1 1 Dilution Factor 1	Number           28037           28312           28028           Batch           Number           28037           28037	Prepared or Analyzed 12/23/11 09:50 12/27/11 21:25 12/23/11 09:27 La Prepared or Analyzed 12/23/11 09:50 12/27/11 21:42 12/23/11 09:27	Analyst AS BD CN Ab Sample Pe Analyst AS BD CN	Matrix: Soli ercent Solids: 81. Lab TAL NC TAL NC TAL NC TAL NC ID: 240-7149-1 Matrix: Soli ercent Solids: 76. Lab TAL NC TAL NC TAL NC TAL NC TAL NC TAL NC TAL NC
Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA Client Sampl Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA	12/19/11 12:0 12/21/11 11:1 Batch Type Prep Analysis e ID: CD:300 12/19/11 13:4 12/21/11 11:1 Batch Type Prep Analysis Analysis e ID: CD:300 12/19/11 13:4	00 0 Batch Method 3050B 6010B Moisture 0 Batch Method 3050B 6010B Moisture 0 Batch Method 3050B 6010B Moisture 0 0 0 0 0 0 0 0 0 0 0 0 0		Factor 1 1 Dilution Factor 1	Number           28037           28312           28028           Batch           Number           28037           28037	Prepared or Analyzed 12/23/11 09:50 12/27/11 21:25 12/23/11 09:27 La Prepared or Analyzed 12/23/11 09:50 12/27/11 21:42 12/23/11 09:27	Analyst AS BD CN ab Sample Analyst AS BD CN ab Sample	TAL NC TAL NC TAL NC ID: 240-7149-1 Matrix: Soli ercent Solids: 76.
Date Collected: Date Received: Total/NA Total/NA Total/NA Total/NA Client Sampl Date Collected: Date Received: Prep Type Total/NA Total/NA Total/NA Total/NA	12/19/11 12:0 12/21/11 11:1 Batch Type Prep Analysis e ID: CD:300 12/19/11 13:4 12/21/11 11:1 Batch Type Prep Analysis Analysis e ID: CD:300 12/19/11 13:4	00 0 Batch Method 3050B 6010B Moisture 0 Batch Method 3050B 6010B Moisture 0 Batch Method 3050B 6010B Moisture 0 0 0 0 0 0 0 0 0 0 0 0 0		Factor 1 1 Dilution Factor 1	Number           28037           28312           28028           Batch           Number           28037           28037	Prepared or Analyzed 12/23/11 09:50 12/27/11 21:25 12/23/11 09:27 La Prepared or Analyzed 12/23/11 09:50 12/27/11 21:42 12/23/11 09:27	Analyst AS BD CN ab Sample Analyst AS BD CN ab Sample	Matrix: Soli ercent Solids: 81 TAL NC TAL NC TAL NC TAL NC DI: 240-7149-1 Matrix: Soli ercent Solids: 76 Lab TAL NC TAL NC TAL NC TAL NC TAL NC TAL NC

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 21:47	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC

Client Samp						L	ab Sample	ID: 240-7149-1
Date Collected		1						Matrix: Sol
Date Received	: 12/21/11 11:	10					P	ercent Solids: 73
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 21:53	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
		04:NW:N 2-6				La	ab Sample	ID: 240-7149-1
Date Collected								Matrix: Sol
Date Received	12/21/11 11:1	10					P	ercent Solids: 77
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 21:59	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Samp	le ID: CD:30	4:NW:W 2-6				La	ab Sample	ID: 240-7149-1
Date Collected							action from	Matrix: Sol
Date Received:							P	ercent Solids: 78
-						6.00		
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 22:05	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Sampl	e ID: CD:30	4:NW:E 2-6				La	b Sample	ID: 240-7149-1
Date Collected:	12/19/11 13:5	50						Matrix: Soli
Date Received:	12/21/11 11:1	0					P	ercent Solids: 75
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	Kui	ractor	28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 22:10	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
lient Sampl	e ID: CD:30	0:WC:N 0-2				La	b Sample	D: 240-7149-2
Date Collected:	12/19/11 14:3	0						Matrix: Sol
Date Received:							Pe	ercent Solids: 87
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 22:16	BD	TAL NC
Total/NA	Analysis							TAL NC
I Utal/INA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TALING

TestAmerica Job ID: 240-7149-1

10) 11

Client Samp	: 12/19/11 14:	35				La		ID: 240-7149- Matrix: So
Date Received:	12/21/11 11:	10					P	ercent Solids: 7
	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 22:22	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
	, maryone	molotaro			20020	12120/11/00.27	on	THE HO
Client Sampl	e ID: CD:30	0:WC:S 0-2				La	ab Sample	ID: 240-7149-
Date Collected:	12/19/11 14:4	40						Matrix: So
Date Received:	12/21/11 11:1	0					P	ercent Solids: 7
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 22:27	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Sampl Date Collected: Date Received:	12/19/11 14:	35				La		ID: 240-7149- Matrix: So ercent Solids: 7
-	675			1.000	200	-		
and dela	Batch	Batch	6.0	Dilution	Batch	Prepared	1.7.14	1.1
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28037	12/23/11 09:50	AS	TAL NC
Total/NA	Analysis	6010B		1	28312	12/27/11 22:33	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Sampl	e ID: CD:30	0:WC:N 2-6				La	b Sample	D: 240-7149-
Date Collected:	12/19/11 14:3	30						Matrix: So
Date Received:	12/21/11 11:1	0					P	ercent Solids: 8
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28198	12/27/11 09:49	DE	TAL NC
Total/NA	Analysis	6010B		1	28487	12/28/11 22:49	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Sampl	e ID: CD:30	0:WC:S 2-6				la	b Sample	D: 240-7149-
ate Collected:								Matrix: So
ate Received:							Pe	ercent Solids: 8
	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28198	12/27/11 09:49	DE	TAL NC
Total/NA	Analysis	6010B		1	28487	12/28/11 22:55	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC

Client Samp						La	ab Sample	ID: 240-7149-2
Date Collected							P	Matrix: Sol ercent Solids: 70
-		Sec. 1		all the second		2		
ana -	Batch	Batch	2.5	Dilution	Batch	Prepared	8-3-3	2.52
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28198	12/27/11 09:49	DE	TAL NC
Total/NA	Analysis	6010B		1	28487	12/28/11 23:00	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Samp	le ID: CD:D	UP 2				La	ab Sample	ID: 240-7149-2
Date Collected	: 12/19/11 00:0	00						Matrix: So
Date Received	: 12/21/11 11:1	10					P	ercent Solids: 76
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28198	12/27/11 09:49	DE	TAL NC
Total/NA	Analysis	6010B		1	28487	12/28/11 23:06	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Samp	le ID: CD:20	04:WC:N 0-2				L	ab Sample	ID: 240-7149-2
Date Collected								Matrix: So
Date Received	a part state a second						Pe	ercent Solids: 73
	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28198	12/27/11 09:49	DE	TAL NC
Total/NA	Analysis	6010B		1	28487	12/28/11 22:15	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Samp	le ID: CD:20	4:WC:S 0-2				La	ab Sample	D: 240-7149-2
Date Collected								Matrix: Sol
Date Received:							Pe	ercent Solids: 78
	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28198	12/27/11 09:49	DE	TAL NC
Total/NA	Analysis	6010B		1	28487	12/28/11 23:12	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Sampl	e ID: CD:20	4.WC.E 0-2				L.	ah Sample I	D: 240-7149-3
Date Collected:						Le	as outline i	Matrix: Sol
Date Received:							Pe	ercent Solids: 74
	Batch	Batch		Dilution	Batch	Prepared		
	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Prep Type	Prep	3050B			28198	12/27/11 09:49	DE	TAL NC
Prep Type Total/NA	Flep							
	Analysis	6010B		1	28487	12/28/11 23:17	BD	TAL NC

TestAmerica North Canton 12/30/2011

Client Samp		04:WC:N 2-6				La	ab Sample	ID: 240-7149-3 Matrix: Soli
Date Received	: 12/21/11 11:1	10					P	ercent Solids: 82
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28198	12/27/11 09:49	DE	TAL NC
Total/NA	Analysis	6010B		1	28487	12/28/11 23:23	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
	Analysis	Wolature			20020	12/20/11/03.27	OIT	MENO
Client Samp	le ID: CD:20	4:WC:S 2-6				La	ab Sample	ID: 240-7149-3
Date Collected	: 12/19/11 15:4	40						Matrix: Sol
Date Received:	12/21/11 11:1	0					P	ercent Solids: 89
	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28198	12/27/11 09:49	DE	TAL NC
Total/NA	Analysis	6010B		1	28487	12/28/11 23:29	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Samp Date Collected Date Received:	: 12/19/11 15:4	45				La		ID: 240-7149-3 Matrix: Sol ercent Solids: 85
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28198	12/27/11 09:49	DE	TAL NC
Total/NA	Analysis	6010B		1	28487	12/28/11 23:46	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Sampl	e ID: CD:DI	JP 3				La	ab Sample	D: 240-7149-3
Date Collected:						-	oumpro.	Matrix: Sol
Date Received:							Pe	ercent Solids: 77
	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28198	12/27/11 09:49	DE	TAL NC
Total/NA	Analysis	6010B		1	28487	12/28/11 23:52	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Sampl	a ID: CD:30	7.NUI.N 0.2				1.0	h Sample	D: 240-7149-3
Date Collected:						Lc	as outline	Matrix: Sol
ate Received:							Pe	ercent Solids: 74
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28198	12/27/11 09:49	DE	TAL NC
	Analysis	6010B		1	28487	12/28/11 23:57	BD	TAL NC
Total/NA								
Total/NA Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC

Date Collected	1: 12/19/11 16:	50						Matrix: Sol
Date Received	: 12/21/11 11:	10					P	ercent Solids: 76
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28395	12/28/11 11:36	DE	TAL NC
Total/NA	Analysis	6010B		1	28639	12/30/11 02:03	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Samp	le ID: CD:30	7:NU:W 0-2				L	ab Sample	ID: 240-7149-
Date Collected								Matrix: So
Date Received	: 12/21/11 11:1	10					Pe	ercent Solids: 76
n.	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28395	12/28/11 11:36	DE	TAL NC
Total/NA	Analysis	6010B		1	28639	12/30/11 02:09	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Samp Date Collected Date Received	: 12/19/11 16:4	15				L		ID: 240-7149- Matrix: So ercent Solids: 79
-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28395	12/28/11 11:36	DE	TAL NC
Total/NA	Analysis	6010B		1	28639	12/30/11 02:15	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
Client Samp	le ID: CD:30	7:NU:E 2-6				Li	ab Sample I	D: 240-7149-3
Date Collected	: 12/19/11 16:5	50						Matrix: Sol
Date Received:	12/21/11 11:1	0					Pe	ercent Solids: 81
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28395	12/28/11 11:36	DE	TAL NC
Total/NA	Analysis	6010B		1	28639	12/30/11 00:55	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC
		7:NU:W 2-6				La	ab Sample I	D: 240-7149-4
Client Sampl	le ID: CD:30							Matrix: Sol
Date Collected	12/19/11 16:5						Pe	ercent Solids: 77
Client Samp Date Collected Date Received:	12/19/11 16:5 12/21/11 11:1	0		Dilution	Poteb	Proceed	Pe	ercent Solids: 77
Date Collected	: 12/19/11 16:5 12/21/11 11:1 Batch	0 Batch	Dura	Dilution	Batch	Prepared or Analyzed		
Date Collected Date Received: Prep Type	: 12/19/11 16:5 12/21/11 11:1 Batch Type	0 Batch Method	Run	Dilution Factor	Number	or Analyzed	Analyst	Lab
Date Collected	: 12/19/11 16:5 12/21/11 11:1 Batch	0 Batch	Run					

Client: URS Corporation Project/Site: ATTICA C&D

<b>Client Samp</b>	le ID: CD:D	UP 4				L	ab Sample	ID: 240-7149-41
Date Collected	: 12/19/11 00:0	00						Matrix: Solid
Date Received	: 12/21/11 11:1	0					P	ercent Solids: 75.2
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			28395	12/28/11 11:36	DE	TAL NC
Total/NA	Analysis	6010B		1	28639	12/30/11 02:26	BD	TAL NC
Total/NA	Analysis	Moisture		1	28028	12/23/11 09:27	CN	TAL NC

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# **Certification Summary**

#### Client: URS Corporation Project/Site: ATTICA C&D

#### TestAmerica Job ID: 240-7149-1

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aboratory	Authority	Program	EPA Region	Certification ID
estAmerica North Canton	ACLASS	DoD ELAP	······································	ADE-1437
estAmerica North Canton	California	NELAC	9	01144CA
estAmerica North Canton	Connecticut	State Program	1	PH-0590
estAmerica North Canton	Florida	NELAC	4	E87225
estAmerica North Canton	Georgia	Georgia EPD	4	N/A
estAmerica North Canton	Illinois	NELAC	5	200004
estAmerica North Canton	Kansas	NELAC	7	E-10336
estAmerica North Canton	Kentucky	State Program	4	58
estAmerica North Canton	Minnesota	NELAC	5	039-999-348
estAmerica North Canton	Nevada	State Program	9	OH-000482008A
estAmerica North Canton	New Jersey	NELAC	2	OH001
estAmerica North Canton	New York	NELAC	2	10975
estAmerica North Canton	Ohio	OVAP	5	CL0024
estAmerica North Canton	Pennsylvania	NELAC	3	68-00340
estAmerica North Canton	USDA	USDA		P330-11-00328
estAmerica North Canton	Virginia	NELAC Secondary AB	3	460175
estAmerica North Canton	West Virginia	West Virginia DEP	3	210
estAmerica North Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

	TestA	merica Laboratory location:	Vorth Cant					STAMERICA ADER IN ENVIRONMENTAL TESTING
	Client Contact Company Name: URS Cosporates on	Client Project Manager: Craig Bern haft Telephóne:		Site Contact:		Lab Contact:		stAmerica Laboratories, Inc. COC No: 026257
	1000 Corporate Center Dr City/State/Zip:	Telephone: 615-771-2480 Email: CraigoBernhoft@			urnaround Time	Telephone:		for lab use only
	Frankliw TN 37067 Phone: GIS-771-3480 Project Name:	Method of Shipment/Carrier:	ULSICUM	Ca TAT il different	3 weeks	Analy	ses	Walk-tu client
	Attice - C+D Project Number:	Fed EX Shipping/Tracking No: 8754 2216 47	НО			- Lend		Job/SDG No
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Possible Hazard Identification	ļ	<u> </u>				Si	ample D	isposal	( A fee	nay be :	assessed i	f samp	les are	retaine	d longer	than 1	month	<u>,                                     </u>				
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Client URS Corport			By: Mille de	to the
Cooler Received on	a /a, / 1 Open	ed on 12/21/11	By. <u>/u.a.a.</u> (Signatu	(re)
FORENCIPS DHI FAS	S Stetson Client Drop Off			
TestAmerica Cooler #	Multiple Coole	Foam Box Client	Cooler Other	•
1 Mere custody seals o	on the outside of the cooler(s	12 Vec No li	ntact? Yes No NA	
	Quanti			
	in the outside of cooler(s) sig		Kes No NA	· · · · ·
Were custody seals o		neu anu uateu:	Yes (No)	
If YES, are there any			Tes (Ng	1997 - 19
	attached to the cooler(s)?		Ges No	
	ccompany the sample(s)?		linguished by client Yes	Jo
	pers signed in the appropriate		Ves No	NO.
	d: Bubble Wrap Foam			
	pon receipt °		multiple coolers/temps	
METHOD:	Other	See back of form for	multiple coolers/temps	
	Blue Ice Dry Ice	Water None		
	good condition (Unbroken)			
	be reconciled with the COC'			
			$\sim$ $($	
	e correct pH upon receipt? used for the test(s) indicated	40	Yes No HA	
		11		
11. Were air bubbles >6 m				
	eived to perform indicated ar		Yes No	
13. vvas a trip blank prese	ent in the cooler(s)? Yes	NO VVERE VOAS ON IN		dia a n
Contacted PM	Date	<u> </u>	via Verbal Voice Mail O	iner
concerning	<b>V</b>			
14. CHAIN OF CUSTOD				
The following discrepancie	es occurred:			
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	and the second secon	the second all all a second		
	and the second	vere received after the M	ecommended holding time	nad expired.
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SOP: NC-SC-0005, Sample Receiving N:\QAQC\NARRATIVE\TestAmerica\Cooler Receipt TestAmerica\COOLER\_TestAmerica\_Rev 81\_110911 djl.doc

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12/30/2011

## Login Sample Receipt Checklist

#### Client: URS Corporation

# Job Number: 240-7149-1

14

# Login Number: 7149 List Source: TestAmerica North Canton List Number: 1 Creator: Gambone, Mike Question Answer Comment

Answer	Comment
N/A	
True	0.8, 1.2
True	
N/A	
	N/A True True True True True True True True



THE LEADER IN ENVIRONMENTAL TESTING

# **ANALYTICAL REPORT**

TestAmerica Laboratories, Inc. TestAmerica North Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

TestAmerica Job ID: 240-7148-1 Client Project/Site: ATTICA C&D

# For:

URS Corporation 1000 Corp Centre Drive One Corp Centre Ste Franklin, Tennessee 37067

Attn: Mr. Craig Bernhoft

Authorized for release by: 1/5/2012 2:36:26 PM

John McFadden Project Manager I john.mcfadden@testamericainc.com

----- LINKS



Have a Question?

The

Expert

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Visit us at: www.testamericainc.com

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# **Definitions/Glossary**

### Client: URS Corporation Project/Site: ATTICA C&D

#### TestAmerica Job ID: 240-7148-1

# Qualifiers

# Metals

Qualifier U

lifier	Qualifier Description	
	Indicates the analyte was analyzed for but not detected.	

# Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
<del></del>	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: URS Corporation Project/Site: ATTICA C&D

#### Job ID: 240-7148-1

#### Laboratory: TestAmerica North Canton

Narrative

### CASE NARRATIVE

#### **Client: URS Corporation**

#### Project: ATTICA C&D

#### Report Number: 240-7148-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

#### RECEIPT

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The samples were received on 12/21/2011; the samples arrived in good condition, properly preserved and on ice. The temperatures of the coolers at receipt were 0.8 and 1.2 C.

#### TOTAL METALS (ICP)

Samples CD:304:NT:N 0-2 (240-7148-2), CD:304:NT:W 0-2 (240-7148-3), CD:304:NT:E 0-2 (240-7148-4), CD:304:NT:N 2-6 (240-7148-5), CD:304:NT:W 2-6 (240-7148-6), CD:304:NT:E 2-6 (240-7148-7), CD:DUP 5 (240-7148-8), CD:105:WC:N 0-2 (240-7148-9), CD:105:WC:W 0-2 (240-7148-10), CD:105:WC:N 2-6 (240-7148-11), CD:105:WC:W 2-6 (240-7148-12), CD:106:WC:E 0-2 (240-7148-13), CD:106:WC:S 0-2 (240-7148-14), CD:106:WC:E 2-6 (240-7148-15), CD:106:WC:S 2-6 (240-7148-16), CD:DUP 6 (240-7148-17), CD:403:NT:S 0-2 (240-7148-18), CD:403:NT:S 2-6 (240-7148-19), CD:404:NT:W 0-2 (240-7148-20) and CD:404:NT:W 2-6 (240-7148-21) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 12/22/2011 and analyzed on 12/23/2011, 12/28/2011, 12/28/2011 and 12/30/2011.

No difficulties were encountered during the metals analyses. All quality control parameters were within the acceptance limits.

#### TOTAL RECOVERABLE METALS (ICPMS)

Sample CD:EQUIPMENT BLANK (240-7148-1) was analyzed for total recoverable metals (ICPMS) in accordance with EPA SW-846 Method 6020. The samples were prepared on 12/28/2011 and analyzed on 12/30/2011.

TestAmerica Job ID: 240-7148-1

#### Job ID: 240-7148-1 (Continued)

#### Laboratory: TestAmerica North Canton (Continued)

No difficulties were encountered during the metals analysis. All quality control parameters were within the acceptance limits.

#### PERCENT SOLIDS

Samples CD:304:NT:N 0-2 (240-7148-2), CD:304:NT:W 0-2 (240-7148-3), CD:304:NT:E 0-2 (240-7148-4), CD:304:NT:N 2-6 (240-7148-5), CD:304:NT:W 2-6 (240-7148-6), CD:304:NT:E 2-6 (240-7148-7), CD:DUP 5 (240-7148-8), CD:105:WC:N 0-2 (240-7148-9), CD:105:WC:W 0-2 (240-7148-10), CD:105:WC:N 2-6 (240-7148-11), CD:105:WC:W 2-6 (240-7148-12), CD:106:WC:E 0-2 (240-7148-13), CD:106:WC:S 0-2 (240-7148-14), CD:106:WC:E 2-6 (240-7148-15), CD:106:WC:S 2-6 (240-7148-16), CD:DUP 6 (240-7148-17), CD:403:NT:S 0-2 (240-7148-18), CD:403:NT:S 2-6 (240-7148-19), CD:404:NT:W 0-2 (240-7148-20) and CD:404:NT:W 2-6 (240-7148-21) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 12/22/2011.

No difficulties were encountered during the % solids analyses. All quality control parameters were within the acceptance limits.

# **Method Summary**

#### Client: URS Corporation Project/Site: ATTICA C&D

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Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL NC
6020	Metals (ICP/MS)	SW846	TAL NC
Moisture	Percent Moisture	EPA	TAL NC

#### Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396
### Client: URS Corporation Project/Site: ATTICA C&D

### TestAmerica Job ID: 240-7148-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-7148-1	CD:EQUIPMENT BLANK	Water	12/20/11 08:40	12/21/11 11:10
240-7148-2	CD:304:NT:N 0-2	Solid	12/20/11 09:30	12/21/11 11:10
240-7148-3	CD:304:NT:W 0-2	Solid	12/20/11 09:25	12/21/11 11:10
240-7148-4	CD:304:NT:E 0-2	Solid	12/20/11 09:20	12/21/11 11:10
240-7148-5	CD:304:NT:N 2-6	Solid	12/20/11 09:30	12/21/11 11:10
240-7148-6	CD:304:NT:W 2-6	Solid	12/20/11 09:25	12/21/11 11:10
240-7148-7	CD:304:NT:E 2-6	Solid	12/20/11 09:20	12/21/11 11:10
240-7148-8	CD:DUP 5	Solid	12/20/11 00:00	12/21/11 11:10
240-7148-9	CD:105:WC:N 0-2	Solid	12/20/11 10:30	12/21/11 11:10
240-7148-10	CD:105:WC:W 0-2	Solid	12/20/11 10:25	12/21/11 11:10
240-7148-11	CD:105:WC:N 2-6	Solid	12/20/11 10:30	12/21/11 11:10
240-7148-12	CD:105:WC:W 2-6	Solid	12/20/11 10:25	12/21/11 11:10
240-7148-13	CD:106:WC:E 0-2	Solid	12/20/11 11:05	12/21/11 11:10
240-7148-14	CD:106:WC:S 0-2	Solid	12/20/11 11:10	12/21/11 11:10
240-7148-15	CD:106:WC:E 2-6	Solid	12/20/11 11:05	12/21/11 11:10
240-7148-16	CD:106:WC:S 2-6	Solid	12/20/11 11:10	12/21/11 11:10
240-7148-17	CD:DUP 6	Solid	12/20/11 00:00	12/21/11 11:10
240-7148-18	CD:403:NT:S 0-2	Solid	12/20/11 13:05	12/21/11 11:10
240-7148-19	CD:403:NT:S 2-6	Solid	12/20/11 13:05	12/21/11 11:10
240-7148-20	CD:404:NT:W 0-2	Solid	12/20/11 13:40	12/21/11 11:10
240-7148-21	CD:404:NT:W 2-6	Solid	12/20/11 13:40	12/21/11 11:10

Client Sample ID: CD:105:WC:W 2-6

		cuon oun						
						Te	stAmerica Jo	ob ID: 240-7148-1
MENT BLAN	IK					La	b Sample	ID: 240-7148-1
:N 0-2						Lal	b Sample	ID: 240-7148-2
Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
220		0.40	0.25	mg/Kg	1	Ø	6010B	Total/NA
:W 0-2						al	o Sample	ID: 240-7148-3
Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
180		0.35	0.22	mg/Kg		Ø	6010B	Total/NA
:E 0-2					1	al	o Sample	ID: 240-7148-4
Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
25		0.29	0.18	mg/Kg	1	ā	6010B	Total/NA
:N 2-6					1	al	o Sample	ID: 240-7148-5
Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
190		0.36	0.23	mg/Kg	1	Ø	6010B	Total/NA
:W 2-6					1	al	Sample	ID: 240-7148-6
Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
170		0.31	0.19	mg/Kg	1	Ø	6010B	Total/NA
:E 2-6					L	al	Sample	ID: 240-7148-7
Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
120		0.30	0.19	mg/Kg	1	\$	6010B	Total/NA
						at	Sample	ID: 240-7148-8
Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
210		0.37	0.23	mg/Kg	1	a	6010B	Total/NA
C:N 0-2					L	at	Sample I	D: 240-7148-9
Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
160		0.38	0.24	mg/Kg	1	\$	6010B	Total/NA
C:W 0-2					La	b	Sample ID	): 240-7148-10
Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Ргер Туре
150		0.37	0.23	mg/Kg	1	Ø	6010B	Total/NA
C:N 2-6					La	b	Sample ID	): 240-7148-11
Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
170		0.36			1	Ø	6010B	Total/NA
	Result         220         Result         220         :W 0-2         Result         180         :E 0-2         Result         25         :N 2-6         Result         190         :W 2-6         Result         120         Result         120         Result         120         C:W 2-6         Result         120         Result         150         :N 2-6         Result	Result       Qualifier         220       Qualifier         Result       Qualifier         180       Qualifier         180       Qualifier         25       Qualifier         25       Qualifier         25       Qualifier         180       Qualifier         25       Qualifier         190       Qualifier         190       Qualifier         190       Qualifier         190       Qualifier         190       Qualifier         190       Qualifier         170       Qualifier         120       Qualifier         150       Qualifier         150       Qualifier	Result       Qualifier       RL         220       0.40         :W 0-2       0.40         Result       Qualifier       RL         180       0.35         :E 0-2       0.35         Result       Qualifier       RL         25       0.29         :N 2-6       0.29         :W 2-6       Result       Qualifier         Result       Qualifier       RL         190       0.36       0.36         :W 2-6       Result       Qualifier       RL         170       0.31       0.36         :W 2-6       Result       Qualifier       RL         170       0.31       0.31         :E 2-6       Result       Qualifier       RL         120       0.30       0.30         Result       Qualifier       RL       0.37         :N 0-2       Result       Qualifier       RL         160       0.38       0.37         :N 0-2       Result       Qualifier       RL         150       0.37       0.37	Result Qualifier       RL       MDL         220       0.40       0.25         Colspan="2">W 0-2         Result Qualifier       RL       MDL         180       0.35       0.22         Colspan="2">MDL         Result 25       Qualifier       RL       MDL         25       0.29       0.18         Colspan="2">Colspan="2">MDL         25       0.29       0.18         Colspan="2">Colspan="2">MDL         25       0.29       0.18         Colspan="2">Colspan="2">Colspan="2">MDL         25       0.29       0.18         Colspan="2">Colspan="2">Colspan="2"Colspa="2"Colspan="2"Colspan="2"Colspan="2"Colspan="	Result       Qualifier       RL       MDL       Unit         220       0.40       0.25       mg/Kg         Site 0-2         Result       Qualifier       RL       MDL       Unit         180       0.35       0.22       mg/Kg         Site 0-2         Result       Qualifier       RL       MDL       Unit         25       0.29       0.18       mg/Kg         Site 0-2         Result       Qualifier       RL       MDL       Unit         25       0.29       0.18       mg/Kg         Site 2-6         Result       Qualifier       RL       MDL       Unit         170       0.31       0.19       mg/Kg         Site 2-6         Result       Qualifier       RL       MDL       Unit         120       0.30       0.19       mg/Kg         CIN 0-2         Result       Qualifier       RL       MDL       Unit         160       0.33       0.24       mg/Kg         Site 0-2         Result       Qualifier       RL       MDL	Result       Qualifier       RL       MDL       Unit       Dil Fac         220       0.40       0.25       mg/Kg       1         1       220       0.40       0.25       mg/Kg       1         1       220       0.40       0.25       mg/Kg       1         1       180       0.35       0.22       mg/Kg       1         180       0.35       0.22       mg/Kg       1       1         180       Qualifier       RL       MDL       Unit       Dil Fac         180       Qualifier       RL       MDL       Unit       Dil Fac         190       0.36       0.23       mg/Kg       1         :N 2-6       I       III       Dil Fac       1         170       Qualifier       RL       MDL       Unit       Dil Fac         170       0.31       0.19       mg/Kg       1       1         :E 2-6       I       III       III Fac       III       III Fac         120       0.30       0.19       mg/Kg       1       III Fac         120       0.37       0.23       mg/Kg       1       III Fac         180 <td>MENT BLANK         Lai           :N 0-2         Lai           Result Qualifier         RL         MOL         Unit         Dil Fac         Dil           220         0.40         0.25         mg/Kg         1         1           220         0.40         0.25         mg/Kg         1         1         1           220         0.40         0.25         mg/Kg         1&lt;</td> <td>MENT BLANK       Lab Sample         C:N 0-2       Lab Sample         Result Qualifier       RL       MDL       Unit       Dil Fac       D       Method         220       0.40       0.25       mg/Kg       1       0       Method         220       0.40       0.25       mg/Kg       1       0       Method         220       0.40       0.25       mg/Kg       1       0       Method         180       0.35       0.22       mg/Kg       1       0       Method         180       0.35       0.22       mg/Kg       1       0       Method         25       0.29       0.18       mg/Kg       1       0       Method         25       0.29       0.18       mg/Kg       1       0       Method         190       0.36       0.23       mg/Kg       1       0       Method         170       0.31       0.19       mg/Kg       1       0       Method         170       0.31       0.19       mg/Kg       1       0       Method         120       0.30       0.19       mg/Kg       1       0       Method         120</td>	MENT BLANK         Lai           :N 0-2         Lai           Result Qualifier         RL         MOL         Unit         Dil Fac         Dil           220         0.40         0.25         mg/Kg         1         1           220         0.40         0.25         mg/Kg         1         1         1           220         0.40         0.25         mg/Kg         1<	MENT BLANK       Lab Sample         C:N 0-2       Lab Sample         Result Qualifier       RL       MDL       Unit       Dil Fac       D       Method         220       0.40       0.25       mg/Kg       1       0       Method         220       0.40       0.25       mg/Kg       1       0       Method         220       0.40       0.25       mg/Kg       1       0       Method         180       0.35       0.22       mg/Kg       1       0       Method         180       0.35       0.22       mg/Kg       1       0       Method         25       0.29       0.18       mg/Kg       1       0       Method         25       0.29       0.18       mg/Kg       1       0       Method         190       0.36       0.23       mg/Kg       1       0       Method         170       0.31       0.19       mg/Kg       1       0       Method         170       0.31       0.19       mg/Kg       1       0       Method         120       0.30       0.19       mg/Kg       1       0       Method         120

Lab Sample ID: 240-7148-12

# **Detection Summary**

Client: URS Corporation Project/Site: ATTICA C&D

TestAmerica Job ID: 240-7148-1

Client Sample ID: CD	:105:WC:W 2-6 (Co	ntinued)				La	ab	Sample II	D: 240-7148-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	110		0.34	0.21	mg/Kg	1	\$	6010B	Total/NA
Client Sample ID: CD	:106:WC:E 0-2					La	ab	Sample II	D: 240-7148-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac		Method	Prep Type
Lead	68		0.35	0.22	mg/Kg	1	*	6010B	Total/NA
Client Sample ID: CD	:106:WC:S 0-2					La	ab	Sample II	0: 240-7148-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	340		0.32	0.20	mg/Kg	1	Ø	6010B	Total/NA
Client Sample ID: CD	:106:WC:E 2-6					La	ab	Sample II	): 240-7148-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	96		0.32	0.20	mg/Kg	1	¤	6010B	Total/NA
Client Sample ID: CD	:106:WC:S 2-6					La	ab	Sample II	): 240-7148-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	250		0.33	0.21	mg/Kg	1	¤	6010B	Total/NA
Client Sample ID: CD:	DUP 6					La	ıb	Sample II	): 240-7148-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	250		0.32	0.20	mg/Kg	1	\$	6010B	Total/NA
Client Sample ID: CD:	:403:NT:S 0-2					La	ıb	Sample ID	0: 240-7148-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	350		0.39	0.25	mg/Kg	1	-	6010B	Total/NA
Client Sample ID: CD:	:403:NT:S 2-6					La	b	Sample ID	): 240-7148-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	340		0.37	0.24	mg/Kg	1	ø	6010B	Total/NA
Client Sample ID: CD:	404:NT:W 0-2					La	b	Sample ID	): 240-7148-2
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	160		0.35	0.22	mg/Kg	1	à	6010B	Total/NA
Client Sample ID: CD:	404:NT:W 2-6					La	b	Sample ID	): 240-7148-2
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	200		0.35	0.22	mg/Kg	1	¢	6010B	Total/NA

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7148-1

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# Client Sample ID: CD:EQUIPMENT BLANK Lab Sample ID: 240-7148-1 Date Collected: 12/20/11 08:40 Date Received: 12/21/11 11:10

Method: 6020 - Metals (ICP/MS) -	<b>Total Recover</b>	able							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.18	U	1.0	0.18	ug/L		12/28/11 09:55	12/30/11 16:26	1

Client: URS Corporation Project/Site: ATTICA C&D

Lead

TestAmerica Job ID: 240-7148-1

12/23/11 11:37

1

8

-

12/22/11 09:26

0.25 mg/Kg

Client Sample ID: CD:304:NT:	N 0-2			Lab Sar	nple ID: 240	-7148-2
Date Collected: 12/20/11 09:30			Mat	rix: Solid		
Date Received: 12/21/11 11:10					Percent So	lids: 73.1
Method: 6010B - Metals (ICP) Analyte	Result Qualifier	RL	MDL Unit	 Prepared	Analyzed	Dil Fac

0.40

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7148-1

Client Sample ID: CD:304:NT:	W 0-2						Lab San	nple ID: 240-	7148-3
Date Collected: 12/20/11 09:25								Matri	ix: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 71.2
Method: 6010B - Metals (ICP)	1.1.1								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client: URS Corporation Project/Site: ATTICA C&D

Lead

TestAmerica Job ID: 240-7148-1

12/23/11 11:45

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0.18 mg/Kg

12/22/11 09:26

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Client: URS Corporation Project/Site: ATTICA C&D

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### Client Sample ID: CD:304:NT:N 2-6 Lab Sample ID: 240-7148-5 Date Collected: 12/20/11 09:30 Matrix: Solid Date Received: 12/21/11 11:10 Percent Solids: 77.0 Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	190		0.36	0.23	mg/Kg	à	12/22/11 09:26	12/23/11 11:57	1

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7148-1

Client Sample ID: CD:304:NT:\	V 2-6						Lab Sar	nple ID: 240-	7148-6
Date Collected: 12/20/11 09:25								Matri	x: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 74.3
Method: 6010B - Metals (ICP)		a titu						D	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	170		0.31	0.19	mg/Kg	-	12/22/11 09:26	12/23/11 12:01	1

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7148-1

8

ient Sample ID: CD:304:NT:E 2-6 te Collected: 12/20/11 09:20							Lab Sar	nple ID: 240- Matri	7148-7 x: Solic
Date Received: 12/21/11 11:10								Percent Soli	
Method: 6010B - Metals (ICP)		1.44					S	b fine	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Lead	120		0.30	0.19	mg/Kg	a	12/22/11 09:26	12/23/11 12:05	

TestAmerica North Canton 1/5/2012

Client: URS Corporation Project/Site: ATTICA C&D

### Client Sample ID: CD:DUP 5 Date Collected: 12/20/11 00:00 Date Received: 12/21/11 11:10

### TestAmerica Job ID: 240-7148-1

# Lab Sample ID: 240-7148-8 Matrix: Solid

Percent Solids: 77.3

Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	210		0.37	0.23	mg/Kg	Ø	12/22/11 10:29	12/28/11 14:56	1

Client: URS Corporation Project/Site: ATTICA C&D

8

### Lab Sample ID: 240-7148-9 Client Sample ID: CD:105:WC:N 0-2 Date Collected: 12/20/11 10:30 Matrix: Solid Date Received: 12/21/11 11:10 Percent Solids: 68.2 Method: 6010B - Metals (ICP) Dil Fac Analyte **Result** Qualifier RL MDL Unit D Prepared Analyzed à 12/22/11 10:29 12/28/11 15:00 Lead 160 0.38 0.24 mg/Kg 1

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7148-1

Client Sample ID: CD:105:WC:W 0-2 Date Collected: 12/20/11 10:25							Lab Sam	ple ID: 240-7 Matr	148-10 ix: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 72.0
Method: 6010B - Metals (ICP) Analyte	Popult	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	1196.014	Quanner							DIFAC
Lead	150		0.37	0.23	mg/Kg	a	12/22/11 10:29	12/28/11 15:04	

Client: URS Corporation Project/Site: ATTICA C&D

Client Sample ID: CD:105:WC:	N 2-6						Lab Sam	ple ID: 240-7	
Date Collected: 12/20/11 10:30								Matri	x: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 76.8
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	170		0.36	0.22	mg/Kg	- <del>-</del>	12/22/11 10:29	12/29/11 23:53	1

TestAmerica North Canton 1/5/2012

Client: URS Corporation Project/Site: ATTICA C&D

Lead

TestAmerica Job ID: 240-7148-1

# Client Sample ID: CD:105:WC:W 2-6 Lab Sample ID: 240-7148-12 Date Collected: 12/20/11 10:25 Matrix: Solid Date Received: 12/21/11 11:10 Percent Solids: 76.4 Method: 6010B - Metals (ICP) Result Qualifier Analyte Result Qualifier

0.34

MDL	Unit	D	Prepared	Analyzed	Dil Fac	-
0.21	mg/Kg	- <del>\alpha</del>	12/22/11 10:29	12/28/11 15:08	1	
						8

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7148-1

8

12

Client Sample ID: CD:106:WC:	E 0-2						Lab Sam	ple ID: 240-7	148-13
Date Collected: 12/20/11 11:05								Matri	ix: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 75.2
Method: 6010B - Metals (ICP)						. 2.	2014/2		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
	68		0.35		mg/Kg	Ŭ.	12/22/11 10:29	12/28/11 15:13	

TestAmerica North Canton 1/5/2012

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7148-1

lient Sample ID: CD:106:WC:	30-2						Lab Sam	ple ID: 240-7	148-14
ate Collected: 12/20/11 11:10								Matri	ix: Soli
ate Received: 12/21/11 11:10								Percent Soli	ds: 74.8
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fa
Lead	340	quamer	0.32		ma/Ka		12/22/11 10:29	12/28/11 15:25	Dirta

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7148-1

Client Sample ID: CD:106:WC	:E 2-6						Lab Sam	ple ID: 240-7	148-15
Date Collected: 12/20/11 11:05								Matri	x: Soli
Date Received: 12/21/11 11:10								Percent Soli	ds: 76.4
Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							12/22/11 10:29	12/28/11 15:29	

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7148-1

8

### Client Sample ID: CD:106:WC:S 2-6 Date Collected: 12/20/11 11:10 Date Received: 12/21/11 11:10 Matrix: Solid Percent Solids: 77.7

Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	250		0.33	0.21	mg/Kg	Ø	12/22/11 10:29	12/30/11 00:27	1

Client: URS Corporation Project/Site: ATTICA C&D

### Client Sample ID: CD:DUP 6 Date Collected: 12/20/11 00:00

Date Received: 12/21/11 11:10

# Lab Sample ID: 240-7148-17

TestAmerica Job ID: 240-7148-1

Matrix: Solid Percent Solids: 81.5

Method: 6010B - Metals (ICP) Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	250	-	0.32	0.20	mg/Kg	Ø	12/22/11 10:29	12/30/11 00:32	1

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7148-1

Client Sample ID: CD:403:NT:S Date Collected: 12/20/11 13:05	0-2						Lab Sam	ple ID: 240-7 Matri	148-18 ix: Solic
Date Received: 12/21/11 11:10								Percent Soli	ds: 71.0
Method: 6010B - Metals (ICP)		2		- 22		- 5	a de la la		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	350		0.39	0.25	mg/Kg	\$	12/22/11 10:29	12/30/11 00:38	

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7148-1

Client Sample ID: CD:403:NT:S Date Collected: 12/20/11 13:05	2-6						Lab Sam	ple ID: 240-7 Matri	148-19 ix: Solid
Date Received: 12/21/11 11:10								Percent Soli	
Method: 6010B - Metals (ICP)								Sec. 6	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	340		0.37	0.24	mg/Kg	Ø	12/22/11 10:29	12/28/11 15:45	1

Client: URS Corporation Project/Site: ATTICA C&D

Lead

### TestAmerica Job ID: 240-7148-1

12/28/11 15:49

1

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12/22/11 10:29

0.22 mg/Kg

# Client Sample ID: CD:404:NT:W 0-2 Date Collected: 12/20/11 13:40 Date Received: 12/21/11 11:10 Method: 6010B - Metals (ICP) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

0.35

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7148-1

Client Sample ID: CD:404:NT:\	W 2-6						Lab Sam	ple ID: 240-7	148-21
Date Collected: 12/20/11 13:40								Matri	x: Solid
Date Received: 12/21/11 11:10								Percent Soli	ds: 77.3
Method: 6010B - Metals (ICP)	2				1.2	-5-		0.743	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
			0.35		mg/Kg	32	12/22/11 10:29	12/28/11 15:53	

Lab Sample ID: MB 240-27866/1-A										C	lient Sa	mple ID: I		
Matrix: Solid												Prep Ty	ype: To	otal/NA
Analysis Batch: 28137												Prep	Batch	: 27866
- Cr. 19			MB											
Analyte	R	0.19	Qualifier U	-	RL 0.30		DL Unit		D		pared	Analyze 12/23/11 1	10000	Dil Fac
Lab Sample ID: LCS 240-27866/2-A									C	lient S	Sample	D: Lab Co	ontrol S	Sample
Matrix: Solid												Prep Ty	pe: To	otal/NA
Analysis Batch: 28137												Prep	Batch:	: 27866
				Spike		LCS	LCS					%Rec.		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Lead				50.0		47.2		mg/Kg			94	80 - 120		
Lab Sample ID: MB 240-27888/1-A										0	lient Sa	mple ID: N	Nethod	
Matrix: Solid											none ou	Prep Ty		
Analysis Batch: 28464														27888
Analysis Daton. 20404		MB	MB									Ticp	Daton	21000
			Qualifier		RL	м	DL Unit		D	Pre	pared	Analyze	be	Dil Fac
Analyte	R								-		parea			
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid	R		U	_	0.30	0.	.19 mg/Kg		C		11 10:29 Sample I	12/28/11 1 D: Lab Co Prep Ty	ontrol S /pe: To	Sample otal/NA
Analyte <sup>Lead</sup> Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464	R			Spike	0.30	0. LCS			С			D: Lab Co Prep Ty	ontrol S /pe: To	Sample otal/NA
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464 Analyte				Added	0.30	LCS Result		Unit	С		Sample I %Rec	D: Lab Co Prep Ty Prep	ontrol S /pe: To	
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464	R				0.30	LCS	LCS	Unit mg/Kg		lient S	Sample I	D: Lab Co Prep Ty Prep %Rec.	ontrol S /pe: To	Sample otal/NA
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464 Analyte Lead	ĸ			Added	0.30	LCS Result	LCS			lient S	Sample I %Rec 93	D: Lab Co Prep Ty Prep %Rec. Limits 80 - 120	ontrol S /pe: To Batch:	Sample otal/NA 27888
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464 Analyte Lead Lab Sample ID: 240-7148-11 MS				Added	0.30	LCS Result	LCS			lient S	Sample I %Rec 93	D: Lab Co Prep Ty Prep %Rec. Limits 80 - 120	ontrol S /pe: To Batch:	Sample otal/NA 27888
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464 Analyte Lead Lab Sample ID: 240-7148-11 MS Matrix: Solid				Added	0.30	LCS Result	LCS			lient S	Sample I %Rec 93	D: Lab Co Prep Ty %Rec. Limits 80 - 120 le ID: CD: <sup>4</sup> Prep Ty	ontrol S ype: To Batch: 105:WC ype: To	Sample otal/NA 27888 27888 C:N 2-6 otal/NA
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464 Analyte Lead Lab Sample ID: 240-7148-11 MS	Sample	0.19	U	Added	0.30	LCS Result	LCS			lient S	Sample I %Rec 93	D: Lab Co Prep Ty %Rec. Limits 80 - 120 le ID: CD: <sup>4</sup> Prep Ty	ontrol S ype: To Batch: 105:WC ype: To	Sample otal/NA 27888
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464 Analyte Lead Lab Sample ID: 240-7148-11 MS Matrix: Solid		0.19 Sam	U ple	Added 50.0	0.30	LCS Result 46.3 MS	LCS Qualifier			lient S	Sample I %Rec 93	D: Lab Co Prep Ty %Rec. Limits 80 - 120 le ID: CD:' Prep Ty Prep	ontrol S ype: To Batch: 105:WC ype: To	Sample otal/NA 27888 27888 C:N 2-6 otal/NA
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464 Analyte Lead Lab Sample ID: 240-7148-11 MS Matrix: Solid Analysis Batch: 28639	Sample	0.19 Sam	U ple	Added 50.0 Spike	0.30	LCS Result 46.3 MS	LCS Qualifier MS	mg/Kg		D Clier	%Rec 93 ht Samp	D: Lab Co Prep Ty %Rec. Limits 80 - 120 le ID: CD:1 Prep Ty Prep %Rec.	ontrol S ype: To Batch: 105:WC ype: To	Sample otal/NA 27888 27888 C:N 2-6 otal/NA
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464 Lead Lab Sample ID: 240-7148-11 MS Matrix: Solid Analysis Batch: 28639 Analyte Lead	Sample Result	0.19 Sam	U ple	Added 50.0 Spike Added	0.30	LCS Result 46.3 MS Result	LCS Qualifier MS	mg/Kg Unit		Lient S	%Rec 93 ht Samp %Rec 87	D: Lab Co Prep Ty %Rec. Limits 80 - 120 le ID: CD:1 Prep Ty Prep %Rec. Limits 75 - 125	ontrol S ype: To Batch: 105:WC ype: To Batch:	Sample otal/NA 27888 C:N 2-6 otal/NA 27888
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464 Analyte Lead Lab Sample ID: 240-7148-11 MS Matrix: Solid Analysis Batch: 28639 Analyte Lead Lab Sample ID: 240-7148-11 MSD	Sample Result	0.19 Sam	U ple	Added 50.0 Spike Added	0.30	LCS Result 46.3 MS Result	LCS Qualifier MS	mg/Kg Unit		Lient S	%Rec 93 ht Samp %Rec 87	D: Lab Co Prep Ty Prep %Rec. Limits 80 - 120 le ID: CD:1 Prep Ty Prep %Rec. Limits 75 - 125	ontrol S ype: To Batch: 105:WC ype: To Batch: 005:WC	Sample otal/NA 27888 C:N 2-6 otal/NA 27888
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464 Analyte Lead Lab Sample ID: 240-7148-11 MS Matrix: Solid Analysis Batch: 28639 Analyte Lead Lab Sample ID: 240-7148-11 MSD Matrix: Solid	Sample Result	0.19 Sam	U ple	Added 50.0 Spike Added	0.30	LCS Result 46.3 MS Result	LCS Qualifier MS	mg/Kg Unit		Lient S	%Rec 93 ht Samp %Rec 87	D: Lab Co Prep Ty %Rec. Limits 80 - 120 le ID: CD:1 Prep Ty Prep %Rec. Limits 75 - 125 le ID: CD:1 Prep Ty	ontrol S ype: To Batch: 105:WC ype: To Batch: 105:WC ype: To	Sample otal/NA : 27888 C:N 2-6 otal/NA : 27888 C:N 2-6 otal/NA
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464 Analyte Lead Lab Sample ID: 240-7148-11 MS Matrix: Solid Analysis Batch: 28639 Analyte Lead Lab Sample ID: 240-7148-11 MSD	Sample Result 170	0.19 Sam, Qual	U ple lifier	Added 50.0 Spike Added 62.6	0.30	LCS Result 46.3 MS Result 227	LCS Qualifier MS Qualifier	mg/Kg Unit		Lient S	%Rec 93 ht Samp %Rec 87	D: Lab Co Prep Ty %Rec. Limits 80 - 120 le ID: CD:1 Prep Ty Prep %Rec. Limits 75 - 125 le ID: CD:1 Prep Ty Prep Ty Prep	INTERIOR STATE	Sample otal/NA 27888 C:N 2-6 otal/NA 27888 C:N 2-6 otal/NA 27888
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464 Analyte Lead Lab Sample ID: 240-7148-11 MS Matrix: Solid Analysis Batch: 28639 Analyte Lead Lab Sample ID: 240-7148-11 MSD Matrix: Solid Analysis Batch: 28639	Sample Result 170 Sample	0.19 Sam Qual	U ple lifier	Added 50.0 Spike Added 62.6 Spike	0.30	LCS Result 46.3 MS Result 227 MSD	LCS Qualifier MS Qualifier	Unit mg/Kg		Lient S D Clien	%Rec 93 ht Samp %Rec 87 ht Samp	D: Lab Co Prep Ty Prep %Rec. Limits 80 - 120 le ID: CD:1 Prep Ty Prep %Rec. Limits 75 - 125 le ID: CD:1 Prep Ty Prep %Rec.	ID5:WC pe: To Batch: 105:WC pe: To Batch: 105:WC pe: To Batch:	Sample btal/NA 27888 C:N 2-6 btal/NA 27888 C:N 2-6 btal/NA 27888 RPD
Lead Lab Sample ID: LCS 240-27888/2-A Matrix: Solid Analysis Batch: 28464 Analyte Lead Lab Sample ID: 240-7148-11 MS Matrix: Solid Analysis Batch: 28639 Analyte Lead Lab Sample ID: 240-7148-11 MSD Matrix: Solid	Sample Result 170	0.19 Sam Qual	U ple lifier	Added 50.0 Spike Added 62.6	0.30	LCS Result 46.3 MS Result 227 MSD	LCS Qualifier MS Qualifier	mg/Kg Unit		Lient S	%Rec 93 ht Samp %Rec 87	D: Lab Co Prep Ty %Rec. Limits 80 - 120 le ID: CD:1 Prep Ty Prep %Rec. Limits 75 - 125 le ID: CD:1 Prep Ty Prep Ty Prep	INTERIOR STATE	Sample otal/NA 27888 C:N 2-6 otal/NA 27888 C:N 2-6 otal/NA 27888

Lab Sample ID: MB 240-28370/1-A Matrix: Water								mple ID: Metho pe: Total Reco	
Analysis Batch: 28947								Prep Batch	1: 28370
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.18	U	1.0	0.18	ug/L		12/28/11 09:55	01/03/12 11:01	1

# Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 240-28370/2-A					Client S	Sample	ID: Lab Control Sample
Matrix: Water						Prep T	ype: Total Recoverable
Analysis Batch: 28947							Prep Batch: 28370
	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Lead	1000	1080		ug/L		108	80 - 120

Client: URS Corporation Project/Site: ATTICA C&D

### Metals

### Prep Batch: 27866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-7148-2	CD:304:NT:N 0-2	Total/NA	Solid	3050B	
240-7148-3	CD:304:NT:W 0-2	Total/NA	Solid	3050B	
240-7148-4	CD:304:NT:E 0-2	Total/NA	Solid	3050B	
240-7148-5	CD:304:NT:N 2-6	Total/NA	Solid	3050B	
240-7148-6	CD:304:NT:W 2-6	Total/NA	Solid	3050B	
240-7148-7	CD:304:NT:E 2-6	Total/NA	Solid	3050B	
LCS 240-27866/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-27866/1-A	Method Blank	Total/NA	Solid	3050B	
rep Batch: 27888					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-7148-8	CD:DUP 5	Total/NA	Solid	3050B	
240-7148-9	CD:105:WC:N 0-2	Total/NA	Solid	3050B	
240-7148-10	CD:105:WC:W 0-2	Total/NA	Solid	3050B	
40-7148-11	CD:105:WC:N 2-6	Total/NA	Solid	3050B	
40-7148-11 MS	CD:105:WC:N 2-6	Total/NA	Solid	3050B	
40-7148-11 MSD	CD:105:WC:N 2-6	Total/NA	Solid	3050B	
40-7148-12	CD:105:WC:W 2-6	Total/NA	Solid	3050B	
40-7148-13	CD:106:WC:E 0-2	Total/NA	Solid	3050B	
40-7148-14	CD:106:WC:S 0-2	Total/NA	Solid	3050B	
40-7148-15	CD:106:WC:E 2-6	Total/NA	Solid	3050B	
40-7148-16	CD:106:WC:S 2-6	Total/NA	Solid	3050B	
40-7148-17	CD:DUP 6	Total/NA	Solid	3050B	
40-7148-18	CD:403:NT:S 0-2	Total/NA	Solid	3050B	
40-7148-19	CD:403:NT:S 2-6	Total/NA	Solid	3050B	
40-7148-20	CD:404:NT:W 0-2	Total/NA	Solid	3050B	
40-7148-21	CD:404 NT:W 2-6	Total/NA	Solid	3050B	
CS 240-27888/2-A	Lab Control Sample	Total/NA	Solid	3050B	
MB 240-27888/1-A	Method Blank	Total/NA	Solid	3050B	
nalysis Batch: 28137	A CONTRACTOR				
_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-7148-2	CD:304:NT:N 0-2	Total/NA	Solid	6010B	27866
40-7148-3	CD:304:NT:W 0-2	Total/NA	Solid	6010B	27866
40-7148-4	CD:304:NT:E 0-2	Total/NA	Solid	6010B	27866
40-7148-5	CD:304:NT:N 2-6	Total/NA	Solid	6010B	27866
40-7148-6	CD:304:NT:W 2-6	Total/NA	Solid	6010B	27866
40-7148-7	CD:304:NT:E 2-6	Total/NA	Solid	6010B	27866
CS 240-27866/2-A	Lab Control Sample	Total/NA	Solid	6010B	27866
MB 240-27866/1-A	Method Blank	Total/NA	Solid	6010B	27866
rep Batch: 28370					
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
40-7148-1	CD:EQUIPMENT BLANK	Total Recoverable	Water	3005A	
CS 240-28370/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
AB 240-28370/1-A	Method Blank	Total Recoverable	Water	3005A	
alysis Batch: 28464					
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-7148-8	CD:DUP 5	Total/NA	Solid	6010B	27888
240-7148-9	CD:105:WC:N 0-2	Total/NA	Solid	6010B	27888
240-7148-10	CD:105:WC:W 0-2	Total/NA	Solid	6010B	27888

Client: URS Corporation Project/Site: ATTICA C&D

### Metals (Continued)

Analysis Batch: 28464 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-7148-12	CD:105:WC:W 2-6	Total/NA	Solid	6010B	27888
240-7148-13	CD:106:WC:E 0-2	Total/NA	Solid	6010B	27888
240-7148-14	CD:106:WC:S 0-2	Total/NA	Solid	6010B	27888
240-7148-15	CD:106:WC:E 2-6	Total/NA	Solid	6010B	27888
240-7148-19	CD:403:NT:S 2-6	Total/NA	Solid	6010B	27888
240-7148-20	CD:404:NT:W 0-2	Total/NA	Solid	6010B	27888
240-7148-21	CD:404:NT:W 2-6	Total/NA	Solid	6010B	27888
LCS 240-27888/2-A	Lab Control Sample	Total/NA	Solid	6010B	27888
MB 240-27888/1-A	Method Blank	Total/NA	Solid	6010B	27888
nalysis Batch: 28639	1				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-7148-11	CD:105:WC:N 2-6	Total/NA	Solid	6010B	27888
240-7148-11 MS	CD:105:WC:N 2-6	Total/NA	Solid	6010B	27888
240-7148-11 MSD	CD:105:WC:N 2-6	Total/NA	Solid	6010B	27888
240-7148-16	CD:106:WC:S 2-6	Total/NA	Solid	6010B	27888
240-7148-17	CD:DUP 6	Total/NA	Solid	6010B	27888
240-7148-18	CD:403:NT:S 0-2	Total/NA	Solid	6010B	27888
nalysis Batch: 28840					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-7148-1	CD:EQUIPMENT BLANK	Total Recoverable	Water	6020	28370
nalysis Batch: 28947					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-28370/2-A	Lab Control Sample	Total Recoverable	Water	6020	28370
MB 240-28370/1-A	Method Blank	Total Recoverable	Water	6020	28370

### **General Chemistry**

### Analysis Batch: 27885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-7148-2	CD:304:NT:N 0-2	Total/NA	Solid	Moisture	
240-7148-3	CD:304:NT:W 0-2	Total/NA	Solid	Moisture	
240-7148-4	CD:304:NT:E 0-2	Total/NA	Solid	Moisture	
240-7148-5	CD:304:NT:N 2-6	Total/NA	Solid	Moisture	
240-7148-6	CD:304:NT:W 2-6	Total/NA	Solid	Moisture	
240-7148-7	CD:304:NT:E 2-6	Total/NA	Solid	Moisture	
240-7148-8	CD:DUP 5	Total/NA	Solid	Moisture	
240-7148-9	CD:105:WC:N 0-2	Total/NA	Solid	Moisture	
240-7148-10	CD:105:WC:W 0-2	Total/NA	Solid	Moisture	
240-7148-11	CD:105:WC:N 2-6	Total/NA	Solid	Moisture	
240-7148-11 DU	CD:105:WC:N 2-6	Total/NA	Solid	Moisture	
240-7148-12	CD:105:WC:W 2-6	Total/NA	Solid	Moisture	
240-7148-13	CD:106:WC:E 0-2	Total/NA	Solid	Moisture	
240-7148-13 DU	CD:106:WC:E 0-2	Total/NA	Solid	Moisture	
240-7148-14	CD:106:WC:S 0-2	Total/NA	Solid	Moisture	
240-7148-15	CD:106:WC:E 2-6	Total/NA	Solid	Moisture	
240-7148-16	CD:106:WC:S 2-6	Total/NA	Solid	Moisture	
240-7148-17	CD:DUP 6	Total/NA	Solid	Moisture	
240-7148-18	CD:403:NT:S 0-2	Total/NA	Solid	Moisture	
240-7148-19	CD:403:NT:S 2-6	Total/NA	Solid	Moisture	

# **QC Association Summary**

Client: URS Corporation Project/Site: ATTICA C&D

### TestAmerica Job ID: 240-7148-1

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### **General Chemistry (Continued)**

### Analysis Batch: 27885 (Continued)

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch	
240-7148-20	CD:404:NT:W 0-2	Total/NA	Solid	Moisture		
240-7148-21	CD:404:NT:W 2-6	Total/NA	Solid	Moisture		

Client Sample	ID: CD:E	QUIPMENT B	LANK				Lab Sample	ID: 240-7148-
Date Collected: 12	2/20/11 08:4	40						Matrix: Wate
Date Received: 12	2/21/11 11:1	10						
-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			28370	12/28/11 09:55	LM	TAL NC
Total Recoverable	Analysis	6020		1	28840	12/30/11 16:26	NJM	TAL NC
Client Sample	D: CD:30	04:NT:N 0-2					Lab Sample	ID: 240-7148-
Date Collected: 12	2/20/11 09:3	30						Matrix: Sol
Date Received: 12	2/21/11 11:1	0					P	ercent Solids: 73
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27866	12/22/11 09:26	DE	TAL NC
Total/NA	Analysis	6010B		1	28137	12/23/11 11:37	кс	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
Client Sample I	D. CD.30	4.NT.W 0.2					ah Sample	ID: 240-7148
Date Collected: 12							Lab Sample	
Date Collected: 12							D	Matrix: Sol ercent Solids: 71
Date Received: 12	/21/11 11:1	U					Pe	arcent Solids: /1
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27866	12/22/11 09:26	DE	TAL NC
Total/NA	Analysis	6010B		1	28137	12/23/11 11:41	KC	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
Client Sample I	D: CD:30	4.NT.E 0.2					ah Sample	ID: 240-7148
Date Collected: 12							ab Gampie	Matrix: Sol
Date Received: 12		1					Pe	ercent Solids: 79
Date Received. 12	2011 11.1	0					F	rcent sonus. 75
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27866	12/22/11 09:26	DE	TAL NC
Total/NA	Analysis	6010B		1	28137	12/23/11 11:45	KC	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
		A . A						
Client Sample I						1	ab Sample	ID: 240-7148
Date Collected: 12	/20/11 09:3	0						Matrix: Sol
Date Received: 12	/21/11 11:1	0					Pe	ercent Solids: 77
	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27866	12/22/11 09:26	DE	TAL NC
Total/NA	Analysis	6010B		1	28137	12/23/11 11:57	KC	TAL NC

<b>Client Samp</b>	le ID: CD:30	04:NT:W 2-6					Lab Sample	D: 240-7148-
Date Collected	: 12/20/11 09:	25						Matrix: Sol
Date Received:	: 12/21/11 11:	10					P	ercent Solids: 74
-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	Kun	Factor	27866	12/22/11 09:26	DE	TAL NC
Total/NA		6010B		1	28137	12/23/11 12:01	KC	TAL NC
	Analysis							
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
Client Samp	le ID: CD:30	04:NT:E 2-6				6	Lab Sample	D: 240-7148
Date Collected							and a second	Matrix: Sol
Date Received:							P	ercent Solids: 82
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27866	12/22/11 09:26	DE	TAL NC
Total/NA	Analysis	6010B		1	28137	12/23/11 12:05	KC	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
Client Sampl		IDE					Lah Sample	ID: 240-7148
							Lab Gampie	
Date Collected: Date Received:							P	Matrix: So ercent Solids: 77
-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28464	12/28/11 14:56	KC	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
Client Sampl	e ID: CD:10	5:WC:N 0-2					Lab Sample	ID: 240-7148
Date Collected:	12/20/11 10:	30						Matrix: Sol
Date Received:	12/21/11 11:1	0					P	ercent Solids: 68
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B	.,		27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28464	12/28/11 15:00	KC	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
Client Sampl	e ID: CD:10	5:WC:W 0-2				- L	ab Sample	D: 240-7148-1
Date Collected:								Matrix: Sol
Date Received:							Pe	ercent Solids: 72
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
	Analysis	6010B		1	28464	12/28/11 15:04	KC	TAL NC
Total/NA	Analysis	00100			20101			

Client Samp						La	ab Sample	ID: 240-7148-1
Date Collected								Matrix: Soli
Date Received:	12/21/11 11:1	10					P	ercent Solids: 76.
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28639	12/29/11 23:53	BD	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
Client Samp	le ID: CD:10	5:WC:W 2-6				La	ab Sample	ID: 240-7148-1
Date Collected	12/20/11 10:	25						Matrix: Sol
Date Received:	12/21/11 11:1	10					P	ercent Solids: 76
-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28464	12/28/11 15:08	KC	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
-	Analysis	Wolacure		4	21000	12/22/11 10:10	ON	TAL NO
Client Sampl	e ID: CD:10	6:WC:E 0-2				La	ab Sample	ID: 240-7148-1
Date Collected								Matrix: Sol
Date Received:							P	ercent Solids: 75
Date Received.	12/2 1/11 11.1	U						ercent oonus. 70
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28464	12/28/11 15:13	KC	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
Client Sampl	e ID: CD:10	6:WC:S 0-2				La	ab Sample	ID: 240-7148-1
Date Collected:							and the second second	Matrix: Soli
Date Received:							Pe	ercent Solids: 74
-								
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28464	12/28/11 15:25	KC	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
Client Sampl	e ID: CD:10	6:WC:E 2-6				La	ab Sample	D: 240-7148-1
Date Collected:								Matrix: Sol
Date Received:							Pe	ercent Solids: 76
-	Betab	Batch		Dilution	Datab	Proposed		
	Batch	Batch		Dilution	Batch	Prepared		
Pron Turca	Tunn	Mathod	Dun	Factor	Number	or Analyzod	Anglust	Lab
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	
Prep Type Total/NA Total/NA	Type Prep Analysis	Method 3050B 6010B	Run	Factor	Number 27888 28464	or Analyzed 12/22/11 10:29 12/28/11 15:29	Analyst DE KC	Lab TAL NC TAL NC

Total/NA

Moisture

Analysis

TAL NC

1

27885

12/22/11 10:10

CN

Client Samp						Li	ab Sample	ID: 240-7148-1
Date Collected								Matrix: Soli
Date Received	: 12/21/11 11:	10					P	ercent Solids: 77.
-	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28639	12/30/11 00:27	BD	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
I Otal/INA	Analysis	woisture			2/000	12/22/11 10:10	CIN	TALING
Client Samp	le ID: CD:D	UP 6				La	ab Sample	ID: 240-7148-1
Date Collected	: 12/20/11 00:0	00						Matrix: Soli
Date Received:	12/21/11 11:1	10					Pe	ercent Solids: 81
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28639	12/30/11 00:32	BD	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
Client Sampl	le ID: CD:40	3:NT:S 0-2				La	ab Sample	D: 240-7148-1
Date Collected								Matrix: Sol
Date Received:	12/21/11 11:1	0					Pe	ercent Solids: 71
	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28639	12/30/11 00:38	BD	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
Client Sampl	e ID: CD:40	3-NT-S 2-6				14	ah Sample I	D: 240-7148-1
Date Collected:							ab Gampie i	Matrix: Soli
Date Received:							Pe	ercent Solids: 76
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28464	12/28/11 15:45	KC	TAL NC
Total/NA	Analysis	Moisture		1	27885	12/22/11 10:10	CN	TAL NC
Client Sampl	e ID: CD:40	4:NT:W 0-2				1:	ab Sample I	D: 240-7148-2
Date Collected:								Matrix: Sol
Date Received:							Pe	ercent Solids: 72
	Batch	Batch		Dilution	Batch	Prepared		
	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Prep Type								
Prep Type Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
		3050B 6010B		1	27888 28464	12/22/11 10:29 12/28/11 15:49	DE KC	TAL NC TAL NC

Client: URS Corporation Project/Site: ATTICA C&D TestAmerica Job ID: 240-7148-1

TAL NC

10 11

<b>Client Samp</b>	le ID: CD:40	4:NT:W 2-6				L	ab Sample	ID: 240-7148-21
Date Collected	: 12/20/11 13:4	40						Matrix: Solid
Date Received:	12/21/11 11:1	10					P	ercent Solids: 77.3
	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			27888	12/22/11 10:29	DE	TAL NC
Total/NA	Analysis	6010B		1	28464	12/28/11 15:53	KC	TAL NC

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27885

12/22/11 10:10

CN

Laboratory References:

Analysis

Moisture

Total/NA

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

# **Certification Summary**

### Client: URS Corporation Project/Site: ATTICA C&D

### TestAmerica Job ID: 240-7148-1

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aboratory	Authority	Program	EPA Region	Certification ID
FestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
FestAmerica North Canton	California	NELAC	9	01144CA
FestAmerica North Canton	Connecticut	State Program	1	PH-0590
FestAmerica North Canton	Florida	NELAC	4	E87225
FestAmerica North Canton	Georgia	Georgia EPD	4	N/A
FestAmerica North Canton	Illinois	NELAC	5	200004
festAmerica North Canton	Kansas	NELAC	7	E-10336
estAmerica North Canton	Kentucky	State Program	4	58
estAmerica North Canton	Minnesota	NELAC	5	039-999-348
estAmerica North Canton	Nevada	State Program	9	OH-000482008A
estAmerica North Canton	New Jersey	NELAC	2	OH001
estAmerica North Canton	New York	NELAC	2	10975
estAmerica North Canton	Ohio	OVAP	5	CL0024
estAmerica North Canton	Pennsylvania	NELAC	3	68-00340
estAmerica North Canton	USDA	USDA		P330-11-00328
estAmerica North Canton	Virginia	NELAC Secondary AB	3	460175
estAmerica North Canton	West Virginia	West Virginia DEP	3	210
estAmerica North Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

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	ler Receipt Form/Narrative	Lot Number: <u># 7148</u>	
North Canton Fac	-		. 1
		By: Alle off	allo
Cooler Received on	12/21/11 Opened on $12/21/1$	(Signature	3)
edex UPS DAL F.	AS Stetson Client Drop On TestAnienca C		
FestAmerica Cooler #	Multiple Coolers Foam Box	Client Cooler Other	
1. Were custody seale	Multiple Coolers Foam Bos s on the outside of the cooler(s)?	Intact? Tos No NA	
If YES, Quantity	Quantity Unsalvageab	ole	
Were custody seals	s on the outside of cooler(s) signed and dated	? Kes No NA	
Were custody seals	s on the bottle(s)?	Yes (No	
If YES, are there ar	ny exceptions?		
2. Shippers' packing s	slip attached to the cooler(s)?	Cres No	
3. Did custody papers	accompany the sample(s)? Yes No	Relinquished by client Yes No	
4. Were the custody p	papers signed in the appropriate place?	Yes No	
5 Packing material us	sed: Bubble Wrap Foam None Oth	er	
<ol><li>Cooler temperature</li></ol>	upon receipt °C See back of	form for multiple coolers/temps	
METHOD:	Def Other		•
COOLANT: (Wet	Blue ice Dry Ice Water Non	e	
	in good condition (Unbroken)?	(Yes) No	
	els be reconciled with the COC?	Yes No	
). Were sample(s) at f	the correct pH upon receipt?	Yes No NA	
	(s) used for the test(s) indicated?	(Yes) No	
	6 mm in any VOA vials?	Yes No (NA)	
	eceived to perform indicated analyses?	Yes No	
	esent in the cooler(s)? Yes No Were VC		•
Contacted DM	Dateby	via Verbal Voice Mail Othe	ar
Concerning	Duto Dy		
4. CHAIN OF CUSTO	אמנ		
کی محمد ہے؟ اسے بعد انہ برای کہ برای میں محمد بار ہے کے سرور میں ہے جو ان کر ان کے ان کر ان کر ان کر ان کر ان ک			
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5. SAMPLE CONDITI	ON	fter the recommended holding time bar	d expired
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15. SAMPLE CONDITI Sample(s) Sample(s) Sample(s) Sample(s) 16. SAMPLE PRESER	ON were received at were received at	were received in a broken were received in a broken were with bubble >6 mm in diameter. (N	container. lotify PM)
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15. SAMPLE CONDITI Sample(s) Sample(s) Sample(s) 16. SAMPLE PRESER Sample(s) Receiving to meet recor	ON were received at were received at <u>VATION</u> mmended pH level(s). Nitric Acid Lot# 110410-H	were received in a broken oved with bubble >6 mm in diameter. (N were further preserved in Sample NO <sub>3</sub> ; Sulfuric Acid Lot# 041911-H <sub>2</sub> SO <sub>4</sub> ; So	container. lotify PM) e odium
15. SAMPLE CONDITI Sample(s) Sample(s) Sample(s) 16. SAMPLE PRESER Sample(s) Receiving to meet recordly droxide Lot# 121809 - f	ON were received at were received at <u>VATION</u> mmended pH level(s). Nitric Acid Lot# 110410-Hi NaOH; Hydrochloric Acid Lot# 041911-HCI; Sodium	were received in a broken oved with bubble >6 mm in diameter. (N were further preserved in Sample NO <sub>3</sub> ; Sulfuric Acid Lot# 041911-H <sub>2</sub> SO <sub>4</sub> ; So hydroxide and Zinc Acetate Lot# 100108-	container. lotify PM) e odium
15. SAMPLE CONDITI Sample(s) Sample(s) 6. SAMPLE PRESER Sample(s) Receiving to meet recor Hydroxide Lot# 121809 -N CH₃COO)2ZN/NaOH. Wi	ON were received at were received at were received at were received at were received at WATION WATION	were received in a broken oved with bubble >6 mm in diameter. (N were further preserved in Sample NO <sub>3</sub> ; Sulfuric Acid Lot# 041911-H <sub>2</sub> SO <sub>4</sub> ; So by Hydroxide and Zinc Acetate Lot# 100108-	container. lotify PM) e odium
15. SAMPLE CONDITI Sample(s) Sample(s) 16. SAMPLE PRESER Sample(s) Receiving to meet recor Hydroxide Lot# 121809 -P CH <sub>3</sub> COO) <sub>2</sub> ZN/NaOH. Wi Client ID	ON were received at were received at VATION were received at VATION mmended pH level(s). Nitric Acid Lot# 110410-Hi NaOH; Hydrochloric Acid Lot# 041911-HCI; Sodium hat time was preservative added to sample(s)? pH	were received in a broken oved with bubble >6 mm in diameter. (N were further preserved in Sample NO <sub>3</sub> ; Sulfuric Acid Lot# 041911-H <sub>2</sub> SO <sub>4</sub> ; So hydroxide and Zinc Acetate Lot# 100108-	container. lotify PM) e odium Initials
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#### Login Sample Receipt Checklist

#### Client: URS Corporation

Creator: Gambone, Mike

Samples were received on ice.

Cooler Temperature is acceptable.

Cooler Temperature is recorded.

COC is filled out in ink and legible.

Radioactivity either was not measured or, if measured, is at or below

The cooler or samples do not appear to have been compromised or

There are no discrepancies between the sample IDs on the containers and

There is sufficient vol. for all requested analyses, incl. any requested

VOA sample vials do not have headspace or bubble is <6mm (1/4") in

The cooler's custody seal, if present, is intact.

COC is filled out with all pertinent information.

Is the Field Sampler's name present on COC?

Samples are received within Holding Time.

Sample collection date/times are provided.

Appropriate sample containers are used.

Sample containers have legible labels.

Containers are not broken or leaking.

Sample bottles are completely filled.

Multiphasic samples are not present.

Residual Chlorine Checked.

Samples do not require splitting or compositing.

Sample Preservation Verified.

Login Number: 7148

List Number: 1

Question

background

tampered with.

COC is present.

the COC.

MS/MSDs

diameter.

### Job Number: 240-7148-1

List Source: TestAmerica North Canton

Comment

0.8, 1.2

Answer

N/A

True

True

True

True

True

True True

True

True

True

True

True

True

True

True

True

True

True

True

True

True

N/A

### **APPENDIX E** Data Quality Review

# URS

#### Data Quality Review Project: 20500205.00001; C&D Attica Residential Soil Lead Analyses: Method 6010B lead in soil and also Percent Moisture

**Reviewer:** Peter Ciarleglio

Date Reviewed: 02/01/12

## Guidance: Site Investigation QAPP for C&D Attica RCRA Facility Investigation, and National Functional Guidelines for Data Review (modified for non-CLP Methods)

The laboratory submitted two Sample Delivery Groups (SDGs) containing analytical results for lead in residential soil samples taken from properties near the C&D Technologies site in Attica, Indiana. The samples were collected December 19 and 20, 2011 by URS personnel. The samples were analyzed by Test America North Canton, using Methods 3050/6010B for the lead analyses. The results were corrected to a dry weight basis by percent moisture. The laboratory reports contained summary QC data, but did not include raw data or instrument calibrations. A data review was conducted for the parameters discussed in this report for the samples contained in the following table:

Laboratory Identification #	Sample Identification #
240-7149-1	CD:204:NY:NW 0-2
240-7149-2	CD:204:NY:W 0-2
240-7149-3	CD:204:NY:SE 0-2
240-7149-4	CD:204:NY:NW 2-6
240-7149-5	CD:204:NY:W 2-6
240-7149-6	CD:204:NY:SE 2-6
240-7149-7	CD:304:WY:S 0-2
240-7149-8	CD:304:WY:E 0-2
240-7149-9	CD:304:WY:W 0-2
240-7149-10	CD:304:WY:S 2-6
240-7149-11	CD:304:WY:E 2-6
240-7149-12	CD:304:WY:W 2-6
240-7149-13	CD:304:WY:S 6-12
240-7149-14	CD:304:NW:N 0-2
240-7149-15	CD:304:NW:W 0-2
240-7149-16	CD:304:NW:E 0-2
240-7149-17	CD:304:NW:N 2-6
240-7149-18	CD:304:NW:W 2-6
240-7149-19	CD:304:NW:E 2-6
240-7149-20	CD:300:WC:N 0-2
240-7149-21	CD:300:WC:E 0-2
240-7149-22	CD:300:WC:S 0-2
240-7149-23	CD:300:WC:E 2-6
240-7149-24	CD:300:WC:N 2-6
240-7149-25	CD:300:WC:S 2-6
240-7149-26	CD:DUP 1



Laboratory Identification #	Sample Identification #
240-7149-27	CD:DUP 2
240-7149-28	CD:204:WC:N 0-2
240-7149-29	CD:204:WC:S 0-2
240-7149-30	CD:204:WC:E 0-2
240-7149-31	CD:204:WC:N 2-6
240-7149-32	CD:204:WC:S 2-6
240-7149-33	CD:204:WC:E 2-6
240-7149-34	CD:DUP 3
240-7149-35	CD:307:NU:N 0-2
240-7149-36	CD:307:NU:E 0-2
240-7149-37	CD:307:NU:W 0-2
240-7149-38	CD:307:NU:N 2-6
240-7149-39	CD:307:NU:E 2-6
240-7149-40	CD:307:NU:W 2-6
240-7149-41	CD:DUP 4
240-7148-1	CD:EQUIPMENT BLANK
240-7148-2	CD:304:NT:N 0-2
240-7148-3	CD:304:NT:W 0-2
240-7148-4	CD:304:NT:E 0-2
240-7148-5	CD:304:NT:N 2-6
240-7148-6	CD:304:NT:W 2-6
240-7148-7	CD:304:NT:E 2-6
240-7148-8	CD:DUP 5
240-7148-9	CD:105:WC:N 0-2
240-7148-10	CD:105:WC:W 0-2
240-7148-11	CD:105:WC:N 2-6
240-7148-12	CD:105:WC:W 2-6
240-7148-13	CD:106:WC:E 0-2
240-7148-14	CD:106:WC:S 0-2
240-7148-15	CD:106:WC:E 2-6
240-7148-16	CD:106:WC:S 2-6
240-7148-17	CD:DUP 6
240-7148-18	CD:403:NT:S 0-2
240-7148-19	CD:403:NT:S 2-6
240-7148-20	CD:404:NT:W 0-2
240-7148-21	CD:404:NT:W 2-6

### Part 1: Data Review

### 1.0 Data Package Completeness

Were all items delivered as specified in the QAPP and COC?

Yes.



#### 2.0 Laboratory Case Narrative \ Cooler Receipt Form

Were problems noted in the laboratory case narrative or cooler receipt form?

Yes.

The only problem noted was a low recovery for the MSD for sample CD: 204: WC:N 0-2. The RPD was within limits at 6%. However, the parent sample contained lead (330 mg/kg) that exceeded the spike by more than 4X, which causes distortions in the recovery calculations. In these situations no data review qualifier is issued, and the result of the parent sample is considered fully acceptable, since the LCS recovery was within QC limits.

#### 3.0 Holding Times

Were samples extracted/analyzed within QAPP limits?

Yes.

Field ID	Parameter	Analyte	Qualification
NA			

#### 4.0 Blank Contamination

Were any analytes detected in the Method Blanks, Equipment Blanks or Trip Blanks?

No.

Blank ID	Parameter	Analyte	Concentration	Units
NA				

Analytical data that were reported non-detect or reported at concentrations greater than five times (5X) the associated blank concentration (10X for common laboratory contaminants) did not require qualification. The following Table contains samples requiring validation qualifiers for blank contamination. All of the "UJ" qualified results should be considered as not detected at the reporting limit. See also SDG validation spreadsheet.

Field ID	Parameter	Analyte	New RL	Qualification
None				



#### 5.0 Laboratory Control Sample

Were LCS recoveries within evaluation criteria?

Yes.

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Contract of the second second			TCC	/LCSD		S/LCSD/RPD
T OO TD			,   LCS	$L \cup D = [n]$		S/LUSD/NFD
LCS ID	Para	imeter   Ana	ivte		PD	
	1			overv	Crit	omio
		and the second				.CIIa
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INA						
L						

Analytical data that required qualification based on LCS data are included in the table below. Analytical data which were reported as non-detect and associated with LCS recoveries above evaluation criteria, indicating a possible high bias, did not require qualification.

Field ID	Parameter	Analyte	Sample Result	 Qualification
NA				

#### 6.0 Surrogate Recoveries

Were surrogate recoveries within evaluation criteria?

Not applicable.

Field ID	Parameter	Surrogate	Recovery	Criteria
NA				

Analytical data that required qualification based on surrogate data are included in the table below. Analytical data which was associated with quality control samples or which were reported as non-detect and associated with surrogate recoveries above evaluation criteria, indicating a possible high bias, did not require qualification. Samples that had only one surrogate outside the limits would not be qualified provided all other surrogates met criteria, and provided that the outlier surrogate recovery was at least 10% or greater.

Field ID Parameter	Analyte	Qualification	
NA			



#### 7.0 Matrix Spike and Matrix Spike Duplicate Recoveries

Were MS/MSD samples reported as part of this SDG?

Yes. MS/MSD was performed on three soil samples.

Were MS/MSD recoveries within evaluation criteria?

No. Samples that did not meet MS/MSD criteria are included in the table below. However, for the low recovery for the MSD noted in the following table, the concentration of the parent sample was >4X the spiking concentration of 67 mg/kg.

MS/MSD ID	Parameter	Analyte	Parent Sample Result (mg/kg)	MS/MSD Recovery	RPD	MS/MSD/R PD Criteria
CD:	metals	lead	330	89/55	6	75-125, 20
204:WC:N						
0-2					<u> </u>	

Analytical data that required qualification based on MS/MSD data are included in the table below. The MS/MSD recoveries for inorganic compounds with sample concentrations greater than four times (4X) the matrix spike concentration did not require evaluation or qualification.

Field ID	Parameter	Analyte	Result	Qualification
No qualifiers				

#### 8.0 Laboratory Duplicate Results

Were laboratory duplicate samples collected as part of this SDG?

No, MS/MSD was used to monitor precision.

Were laboratory duplicate sample RPDs within criteria?

Not applicable.

Field ID	Parameter	Analyte	RPD	Criteria
NA				



Data qualified due to outlying laboratory duplicate recoveries are identified below:

Field ID	Parameter	Analyte	Qualification
NA			

#### 9.0 Field Duplicate Results

Were field duplicate samples collected as part of this SDG?

Yes. There were six field duplicate samples.

Field ID	Field Duplicate ID
CD:300:WC:E 0-2	CD:DUP 1
CD:300:WC:E 2-6	CD:DUP 2
CD:204:WC:S 0-2	CD:DUP 3
CD:307:NU:N 0-2	CD:DUP 4
CD:304:NT:N 2-6	CD:DUP 5
CD:106:WC:S 2-6	CD:DUP 6

Were field duplicates within evaluation criteria?

Yes. The criterion used for soil field duplicates was a maximum of 50% RPD.

Field ID	Field Duplicate ID	Analyte	Results	RPD	Qualification
NA					

#### 10.0 Sample Dilutions

For samples that were diluted and non-detect, were undiluted results also reported?

All sample results were detected quantities at the dilutions used by the lab.

The following table identifies the analyses which were reported as non-detect, diluted, and an undiluted run was not reported:

Field ID	Parameter	Dilution Factor
NA		
		ÿ



### 11.0 Additional Qualifications

Were additional qualifications applied?

No.

	Paramete r	Analyte	Result mg/kg	Validation Qualification
NA				

# URS