

**Initial Site Sampling Plan
Merchant Metals Facility
165 Fanjoy Road
Statesville, Iredell County, North Carolina**

**Terracon Project No. 71097797
May 21, 2010**

Prepared for:

**MMI Products, Inc.
400 N. Sam Houston Parkway E., Suite 1200
Houston, Texas 77060**

Prepared by:

Terracon
Charlotte, North Carolina



May 21, 2010

North Carolina Department of Environment and Natural Resources
Division of Waste Management
Hazardous Waste Section
1646 Mail Service Road
Raleigh, North Carolina 27699

Attn. Ms. Robin Proctor

Re: Initial Site Sampling Plan
Merchant Metals Facility
165 Fanjoy Road
Statesville, Iredell County, North Carolina
Terracon Project No. 71097797

Dear Ms. Proctor:

Terracon is pleased to present this Initial Site Sampling Plan (ISSP) to characterize an initial site assessment completed in November 2009 to January 2010 and to provide a scope of work for future investigation and assessment of the site for your review and approval. Based on information obtained through soil sampling completed within a former metal galvanizing area within an on-site building located at 165 Fanjoy Road in Statesville, Iredell County, North Carolina (Figure 1), we have confirmed a release of zinc to the subsurface soils located beneath the building.

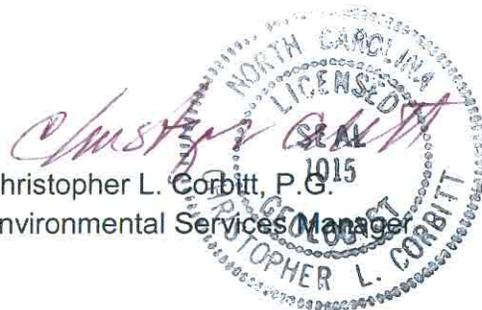
We appreciate your assistance and regulatory guidance to remediate the zinc in conformance with the Hazardous Waste Section Generator Closure Guidelines. Please contact us if you have questions regarding the planned activities.

Sincerely,

Terracon

Chris Kelly, LEED AP
Environmental Scientist

Christopher L. Corbitt, P.G.
Environmental Services Manager



CC: Mr. Rudy Friedemann of MMI Products, Inc.



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1.0 PROJECT BACKGROUND

The Merchant Metals Facility (MM) located at 165 Fanjoy Road in Statesville, Iredell County, North Carolina. This facility is a metal fencing manufacturing company that processes raw product into several different types of fencing materials. MMI Products, Inc. (Client) opened this facility in the early 1980s and has maintained a fencing manufacturing operation since that time. According to Mr. Rudy Friedemann of the Client, there are no plans to change the nature or close this facility in the foreseeable future.

The MM facility formerly operated a galvanizing process for metal fencing in the galvanizing building on the western portion of the site. The galvanizing process began with steel rod in coils, which was drawn into wire and woven into chain link fence in various sizes. When woven, fencing was sent to the galvanizing building where it was passed through an alkali solution to prepare the metal. Next, the fence passed through a water rinse and placed in a 46,000 gallon tank of hydrochloric (HCl) acid to remove impurities from the fencing. Fencing was then passed through the galvanizing material, a second water rinse, and a chromic acid solution to seal the fencing to prevent rust.

The dipping tanks were removed in late 2009 and the concrete and fiberglass containment area was discovered to be in a degraded condition. At the request of the Client, Terracon visited the site to observe the dipping tank containment area of the site and recommended a scope for investigation into the subsurface conditions beneath the dipping tank containment area. Concrete cores were completed in the containment area and soil samples collected from the subsurface soils immediately below the concrete slab exhibited elevated levels of zinc and acidic levels of pH in soils.

Based on the presence of elevated zinc, Terracon completed a Limited Site Investigation to further examine the extent of zinc impacted soils around the former containment area. Additional impacted areas were identified and Terracon recommended completion of an Initial Site Sampling Plan (ISSP) in accordance with North Carolina Department of Environment and Natural Resources (NCDENR) Division of Waste Management Hazardous Waste Section (HWS) Generator Closure Guidelines to fully identify releases of zinc to the environment and acid causing low pH in subsurface soils to determine if remediation and cleanup is necessary.

2.0 SOURCE CHARACTERIZATION

2.1 Contaminants of Concern

Terracon's initial site investigations identified chromium, lead, and zinc as potential contaminants of concerns based on conversations with Mr. Rudy Friedemann and site personnel regarding the types of products used during the galvanizing process. Of these three metals, only zinc was identified above background levels and HWS Soil Screening Level (SSL) Protective of Groundwater. Lead was not identified above the HWS SSL and was consistent with background soil samples. Total chromium was identified above the HWS SSL, generally at levels only slightly elevated above the background soil sample concentrations. It is possible small levels of chromium are present in the source area; however, chromium has been horizontally and vertically delineated through additional soil sampling activities in January 2010.

At the request of Ms. Robin Proctor with the HWS, laboratory analytical reports were edited to include cadmium results obtained during soil sample analysis from November 2009 to February 2010. Cadmium was identified above HWS SSLs; however, the presence of cadmium in soil samples collected beneath the containment area is consistent with background soil samples concentrations for cadmium at the site and is not consistent with identified zinc and acid releases. Therefore, it does not appear to be a contaminant of concern.

It is Terracon's opinion the main contaminant of concern for the site is zinc in subsurface soils as a result of leaks and spills from the former galvanizing dipping tanks. Further, it appears pH in soils is an indicator of the presence of zinc due to acid releases from the dipping tanks. While the HWS does not have specific regulatory action levels established for pH in the Generator Closure Guidelines, the presence of acidic soils is considered a concern to human health and the environment and could contribute to zinc leaching through soils over time. Therefore, pH will be addressed in this ISSP and in any remediation plans completed in the future. While total cadmium and chromium are not considered to be of concern to the site based on identified background concentrations and/or horizontal and vertical delineations, total cadmium and chromium will be included in the sampling program for this ISSP in order to verify the presence of these compounds above the HWS SSLs has not adversely impacted groundwater.

Since the galvanizing dipping tanks have been removed from the containment area and galvanizing operations are no longer present on-site, the source of the acid and zinc has been removed and no further actions are necessary to prevent further releases at this time.

2.2 Initial Site Investigation

2.2.1 Site Activities

On November 16, 2009, 6 concrete cores were made in the former containment area. According to the technicians completing the coring, the containment area consisted of a

fiberglass floor covering a dual layer of 4 inch concrete slabs. It appears the fiberglass covering was placed over a 4 inch concrete slab that was poured for the containment structure over the building's 4 inch concrete slab foundation. Concrete was generally in fair to good condition with some concrete removed during coring exhibiting significant degradation and discoloration.

The following day, November 17, 2009, Terracon mobilized to the site and completed 6 hand auger borings (B-1 to B-6) from the ground surface at the bottom of the concrete slab foundation to a depth of 4 feet below grade surface (bgs). Additionally, one background soil sample was collected by hand auger from approximately 4 feet bgs on the eastern portion of the site. This sample location was selected due to its distance from the reported galvanizing area and unlikelihood of impact from on-site metal galvanizing or other metal product storage areas. One background soil sample was collected for initial comparisons to total metals results beneath the concrete containment area. Soils collected from the background hand auger sample were also compared to the soils collected beneath the former containment area to obtain a background soil sample with similar characteristics to the subsurface soils beneath the former containment area.

The hand auger bucket and extension rods were cleaned with a deionized water andalconox solution between borings. Soil samples collected from approximately 1 foot bgs were placed in dedicated, sealed, laboratory-provided glassware, and submitted to Pace Analytical Services, Inc. of Huntersville, North Carolina for analysis for total chromium, lead, and zinc by EPA Method 6010 and pH by Method 9045 for Soil. The laboratory analytical report indicated the pH tests for soils were conducted outside of the EPA Method holding time. However, Terracon was utilizing pH as a potential screening tool for comparison to any elevated total metal concentrations and the analysis outside of the EPA Method holding time is not considered to be a material effect on the initial site investigation. Soil samples were also collected from the six hand auger borings at a depth of 4 feet bgs and placed on hold with the laboratory pending results of the 1 foot bgs samples.

Upon receipt of the 1 foot bgs sample results, concentrations of total chromium and lead were identified above laboratory detection limits; however, the concentrations were generally in line with background levels. Total chromium was reported above the HWS SSL but the concentrations were generally low in comparison to the background sample. Total zinc was reported at elevated levels ranging from 872 milligrams/kilogram (mg/kg) to 19,200 mg/kg at 1 foot bgs. The background soil sample reported total zinc to be 32.9 mg/kg so identified zinc concentrations were several orders of magnitude greater.

Based on the presence of elevated zinc, Terracon was authorized by the Client to request analysis of the 4 foot soil samples placed on hold. The 4 foot bgs soil samples collected from the 6 containment area hand auger borings did not indicated releases of total chromium or lead. The concentration of total zinc beneath the former containment area decreased from 1 to 4 foot bgs in 5 of the 6 borings and pH in the 6 hand auger borings raised from a highly acidic pH to

less acidic pH. It was Terracon's opinion the presence of zinc and highly acidic pH would decrease with increasing depth bgs.

At that time, Terracon recommended further assessment to attempt delineation of acidic pH soils and total zinc concentrations. In accordance with trends in the limited data collected during the initial site investigation, Terracon identified a positive correlation between more acidic pH and higher total zinc concentrations. Consolidated laboratory analytical data is provided in the tables in Appendix B. Table 1 presents Total Metals in Soils by boring and depth. Table 2 presents Total Zinc by Depth in Soils. Table 3 presents results of pH by Depth in Soils. Laboratory analytical data with chains of custody are provided in Appendix D.

2.2.2 Limited Site Investigation

Terracon remobilized to the site on January 20 and 21, 2010 utilizing a direct-push/Geoprobe® drilling rig. Three soil borings were advanced within the former concrete containment area. Due to concrete in the original hand auger borings, the borings were offset approximately 1 foot from the previous boring location and are denoted as B-1A, B-4A, and B-5A. An additional 8 soil borings were advanced with the Geoprobe drilling rig around the site to horizontally and vertically delineate acidic soils and total zinc around the former containment area. Soil borings were advanced to depths of at least 20 feet bgs in each boring. Soil samples were collected continuously and logged for lithologic characteristics during boring advancement. Copies of the soil boring logs are provided in Appendix C and provide information on depth of boring termination. Scaled diagrams indicating soil boring and background soil sample locations are provided as Figure 2 in Appendix A.

With the identified correlation between pH and total zinc concentrations, Terracon used a YSI® EcoSense® pH 10 Pen calibrated with 4.0, 7.0, and 10.0 buffer solutions before and after sampling, and at regular intervals during sampling. The YSI pH Pen was utilized to measure pH in soils after preparation by EPA Method 9045 to prevent pH being collected outside of the specified holding time for pH samples and as a way to determine additional boring locations, advancement of the boring further bgs, and for collection of soil samples for laboratory analysis.

Soil samples were collected at various intervals due to pH screening with selection of specific soil samples from specific borings at specific intervals in an attempt to horizontally and vertically delineate total zinc concentrations. Remaining soil samples collected by Terracon were placed on hold with the laboratory pending results of the initial soil samples submitted for laboratory analysis for total chromium, lead, and zinc by EPA Method 6010. Several borings reported elevated concentrations of total zinc above regulatory action levels and a second set of soil samples were selected for laboratory analysis. As total chromium and total lead has historically not been reported at elevated levels, total zinc was selected as the contaminant of concern for analysis of the second sample set.

The second round of soil sample results indicated generally indicated vertical delineation of the total zinc with two exceptions, which are discussed below. Further, horizontal delineation of the total zinc and acidic soils was not fully completed due to physical limitations at the site, also discussed below.

After completion of the Limited Site Investigation, several limiting factors were identified that made full horizontal and vertical delineation of total zinc and acidic soils in subsurface soils beneath the former concrete containment area. It was determined an ISSP would be necessary for submittal to the HWS.

2.2.3 Issues Identified During the Limited Site Investigation

During the January 2010 limited site investigation, several concerns were identified that will have an impact on vertical and horizontal delineation of soils, groundwater investigation, and/or remediation and cleanup activities. Based on the galvanizing building walls and concrete foundations, equipment stored within the building and along the exterior of the building, and HVAC/electrical equipment, delineation of impacted soil was not fully completed during the limited site investigation. Furthermore, the galvanizing building is located approximately 50 feet from the edge of a significant downslope due to filling activities during site construction. Based on the physical limitations, Terracon anticipates difficulties when delineating impacted soils in the vicinity of borings B-9 and B-12 due to the presence of heavy equipment, the nearby downslope, and dense vegetation.

Upon completion of soil borings in January 2010, Terracon advanced boring B-4A to a depth greater than 30 feet bgs to determine the depth to groundwater and verify vertical extent of impacted soils within the worst case area beneath the former galvanizing containment area. Boring B-4A was advanced to 46 feet bgs where boring refusal was encountered on bedrock. The boring remained open for several hours to determine if groundwater would enter the boring. Soil cuttings removed from the boring did not indicate evidence of groundwater and groundwater was not detected in the boring after several hours. As such, groundwater is anticipated to be greater than 46 feet bgs and future groundwater investigations, if approved, will require air drilling capabilities to advance a boring into bedrock to detect groundwater.

3.0 LABORATORY ANALYTICAL RESULTS

Soil samples collected at the site during the November 2009 and January 2010 soil investigation activities were analyzed for chromium, lead, and zinc by EPA Method 6010 and pH by EPA Method 9045. In May 2010, at the request of Ms. Robin Proctor of the HWS, cadmium results were included in the laboratory analytical data. Table 1, Appendix B provides the full list of results of total metals and pH for the soil samples collected and submitted for laboratory analysis. Tables 2 and 3 in Appendix B provide the zinc concentrations and pH by depth and boring.

3.1 November 2009 Soil Investigation Results

Based on the laboratory analytical results, total zinc was identified at concentrations ranging from 872 to 19,600 mg/kg in borings B-1 to B-6 at a depth of about 1 foot below the concrete slab. As a result of elevated zinc concentrations, soil samples collected from 4 feet bgs were released for laboratory analysis. The soil samples collected at a depth of 4 feet also indicated elevated zinc concentrations. Acidic-range pH results were also identified in the soil samples collected. A background soil sample collected from the eastern portion of the MM facility indicated total zinc at 32.9 mg/kg. Based on the presence of total zinc beneath the galvanizing building above naturally occurring background levels, a release was identified.

Concentrations of total chromium, lead, and at a later date, cadmium, from the November 2009 soil sampling event were also compared to the background sample and the HWS regulatory action levels.

Boring locations B-2, B-3, B-4, and B-6 reported chromium above the HWS SSL protective of groundwater. Based on the presence of chromium above the HWS SSLs, chromium was included in subsequent soil investigations completed during January 2010.

Cadmium was also identified above the HWS SSL in several of the soil samples collected during the November 2009 investigation. Total cadmium results were also requested from the soil samples collected during the January 2010 investigations for comparison to the HWS SSLs and background samples.

Total lead was not identified above HWS regulatory action levels and was included in the first soil sample results requested for the January 2010 soil investigations.

Based on the metals concentrations, specifically total zinc and pH, Terracon recommended further investigation of soils to delineate the horizontal and vertical delineation of metals and pH in soils.

3.2 January 2010 Limited Site Investigation Results

As a result of the November 2009 soil sample results, Terracon collected soil samples near the former containment area and from areas outside the building in anticipated upgradient, crossgradient, and downgradient locations. The soil samples collected during the January 2010 investigation were placed on hold and selected sample intervals were submitted for laboratory analysis based on pH measurements collected with a YSI pH pen using EPA Method 9045. Upon receipt of the laboratory analytical results, additional soil samples were selected for laboratory analysis based on the presence of elevated zinc to further delineate impacted soils.

Four additional background soil samples were collected from the site by hand auger at depths of about four feet bgs to satisfy the HWS requirements (5 background soil samples) for comparison to the analytical results obtained from soils beneath the galvanizing building. Background sample 1 was collected in November 2009 from the eastern side of the site, away from the galvanizing building to avoid false positives from soils that may have been impacted by runoff or releases from the galvanizing building. Two of the four additional background soil samples were collected from the eastern side of the main building away from the galvanizing building and two background samples were collected from the western portion of the site near the galvanizing building but in areas where precipitation runoff from the galvanizing building were unlikely to impact soils.

Background sample 4 reported zinc at 107 mg/kg, slightly higher than other background soil sample concentrations. The location of background sample 4 may have been potentially impacted by zinc from precipitation runoff or storage of galvanized materials or the concentration could be representative of a higher naturally occurring concentration for zinc. Background sample 4 did not indicate a zinc concentration above the HWS regulatory action level; thus, it is Terracon's opinion that the slightly elevated zinc concentration in background sample 4 does not have a material effect on the validity of this report or the conclusions reached. The background soil sample locations are depicted on Figure 2 in Appendix A.

The first round of soil sample results indicated elevated zinc in several soil borings, as noted on the attached tables in Appendix B. Generally, zinc was identified above the HWS SSLs in most of the soil borings. Zinc was not identified above HWS SSLs in borings B-10 and B-13 from the northeastern and eastern areas within the galvanizing building. The horizontal extent of the zinc release is considered to be delineated at these locations. Borings B-8 and B-14 (within the building) exhibited zinc above the HWS SSLs in the shallow soil samples. However, the soil samples collected at depth did not indicate total zinc above the HWS SSL. Therefore, it is Terracon's opinion the release of zinc from the concrete containment area has been horizontally and vertically delineated to the northeast and east of the concrete containment area within the galvanizing building. Our analytical results indicate groundwater has not been impacted at the site.

Zinc was detected in borings B-7 and B-11 above the HWS SSL in the shallow soil samples submitted for laboratory analysis but the soil samples collected at depth did not exhibit zinc above the HWS SSL. It is Terracon's opinion the presence of zinc has been vertically delineated to the south of the former galvanizing area with no evidence of an impact to groundwater. However, zinc has not been fully delineated horizontally to the south of the galvanizing building even though zinc concentrations decrease further from the former containment area.

Finally, soil samples collected from borings B-9 and B-12 also exhibit zinc concentrations above the HWS SSL. These borings are considered to be downgradient of the former galvanizing

area. The at-depth soil sample collected from boring B-12 exhibited zinc above the HWS SSL submitted for laboratory analysis while elevated levels of zinc were not detected in boring B-9 in the bottom soil sample. Zinc was detected above the HWS SSL in the shallow sample from boring B-9 indicating the horizontal extent has not been delineated to the west of the galvanizing building.

Total lead concentrations detected during soil sampling investigations at the site have not reported lead above the HWS regulatory action levels. Generally, total lead concentrations are similar to naturally occurring background levels.

Total chromium was identified at several locations above the HWS SSL. These higher concentrations were located in the former containment area collected during the November 2009 investigation. Soil samples from borings near the containment area in January 2010 did not indicate chromium above the HWS SSL. Vertical delineation beneath the containment area indicates chromium is limited to the upper 4 to 5 feet bgs and is only present above the HWS SSLs beneath the former containment area and has been horizontally and vertically delineated as of the issuance of this ISSP. Since elevated chromium concentrations were not identified during the first round of soil samples in January 2010, Terracon did not analyze for total chromium in later sampling events.

At the request of Ms. Robin Proctor of the HWS, cadmium results were added to the laboratory analytical reports in May 2010. Total cadmium concentrations exceeded the HWS SSL in some soil samples, including three background samples collected from the site. Generally, total cadmium concentrations did not correlate to the former containment area or areas where elevated total zinc concentrations were identified. As such, it is Terracon's opinion that total cadmium concentrations identified above the HWS SSL are the result of naturally occurring background levels and not resulting from the former galvanizing operation.

4.0 INITIAL SITE SAMPLING PLAN

For the purposes of the ISSP, Terracon has established the presence of total zinc above the HWS SSL beneath the former galvanizing containment area within the galvanizing building on the site. Additionally, total chromium associated with the operations of the former containment area is limited to the upper 4 to 5 feet bgs beneath the former galvanizing area. Cadmium exceeded its HWS SSL in some samples, not related to the galvanizing operations; thus, total cadmium is considered to be naturally occurring. Further investigation is warranted to fully delineate the horizontal and vertical extent of the release of total zinc to the on-site soils, investigate groundwater impact due to the zinc release, and to determine the potential impact to human health and sensitive receptors as a result of the release of zinc and acid to the soils. Proposed groundwater monitoring wells and additional soil boring locations to complete the scope of work outlined in the ISSP are provided as Figure 7 in Appendix A.

4.1 Groundwater Monitoring Well Installation

Terracon will install four temporary groundwater monitoring wells at locations within and near the galvanizing building to further assess and delineate impacts from cadmium, chromium, and zinc to the soils and groundwater. One groundwater monitoring well will be advanced within the former containment area in the galvanizing building as a worst case scenario location. Additionally, one groundwater monitoring well will be advanced in the approximate location of boring B-13 as an upgradient monitoring well. Two groundwater monitoring wells will be located along the western side of the building to address downgradient areas relative to the former galvanizing containment area.

Soil samples will be collected from the two downgradient boring locations for lithological descriptions and screening for pH by EPA Method 9045 using a YSI pH Pen. Selected soil sample intervals exhibiting an acidic pH and typical of background pH will be submitted for laboratory analysis of cadmium, chromium, and zinc by EPA Method 6010.

Upon encountering groundwater, the four borings will be converted to temporary groundwater monitoring wells utilizing 10 feet of pre-packed well screen. Wells will be developed to minimize suspended sediment impact and allowed to equilibrate for a minimum of 24 hours prior to obtaining groundwater level measurements. After the equilibration period, Terracon will remobilize to the site to obtain groundwater level measurements and survey the wells to determine the hydraulic gradient at the site.

Prior to collecting water samples, a minimum of three well volumes will be purged from each well. A turbidity meter will be utilized to screen groundwater samples for turbidity to prevent analysis of sediment-impacted water samples. Should the turbidity meter indicate suspended solids are greater than 10 NTUs, the sediment load in the well will be allowed to settle prior to obtaining additional turbidity readings. Once turbidity is measured below 10 NTUs, groundwater samples will be collected from the wells. While total zinc is considered to be the only contaminant of concern that has not been fully delineated, the groundwater samples will be analyzed for total metals by EPA Method 3030C, specifically cadmium, chromium, and zinc.

After sample collection, the well drilling subcontractor will remobilize to the site to remove the well casings and abandon the wells in accordance with NCDENR guidelines.

4.2 Soil Delineation Activities

In addition to the groundwater monitoring wells, two additional soil borings will be advanced to a depth of up to 30 feet bgs at locations south of boring B-11 to further delineate zinc. Soil samples will be collected from these soil borings for lithological descriptions and screening for pH by EPA Method 9045 using a YSI pH Pen. Should soil samples exhibit an acid-range pH below background levels, Terracon will assume zinc is also present above background levels.

Terracon will advance additional borings to identify pH levels in soils that are similar to identified background pH levels. Once pH levels are consistent with background samples in the borings, Terracon will submit at least two soil samples from each boring for laboratory analysis of total metals, cadmium, chromium, and zinc by EPA Method 6010.

Terracon will utilize a hand auger to obtain a soil sample from native residual soils at the bottom of the downslope located to the west of the galvanizing building and borings B-9 and B-12. Terracon will attempt to advance the hand auger to a depth of about 4 feet bgs. Since a drill rig cannot be mobilized to this area, hand augering will be necessary for soil sampling only. The soil samples obtained from the hand auger boring will be screened for pH by EPA Method 9045 using a YSI pH Pen. One soil sample from the hand auger boring will be submitted for laboratory analysis of cadmium, chromium, and zinc by EPA Method 6010.

4.3 Receptor Survey

Terracon will complete a receptor survey to identify wells, springs, surface-water intakes, environmentally sensitive areas as well as other potential sources of potable water within a 1,500-foot radius of the site. The receptor survey will be completed during the monitoring well survey activities. A map of identified receptors will be provided within the closure report.

Based on a review of the Statesville East USGS Topographic Map and Terracon's visual observations, a small unnamed stream is located to the west of the site in a downgradient location. The stream is likely to be the closest sensitive receptor and the most likely water source that would be impacted in the event of a release to groundwater from former galvanizing operations at the site. Therefore, Terracon will collect two surface water samples from the stream for laboratory analysis of total metals, cadmium, chromium, and zinc by EPA Method 3030C. One sample will be collected upstream of the site and the other sample downstream from the site. Once collected, the stream water samples will be analyzed using a turbidity meter to screen the samples for turbidity prior to analysis. Terracon will attempt to collect stream water samples from both locations exhibiting similar turbidity measurements to minimize variations in the levels of naturally occurring metals as suspended sediments in the two stream samples.

5.0 ASSESSMENT AND CLEANUP PLAN

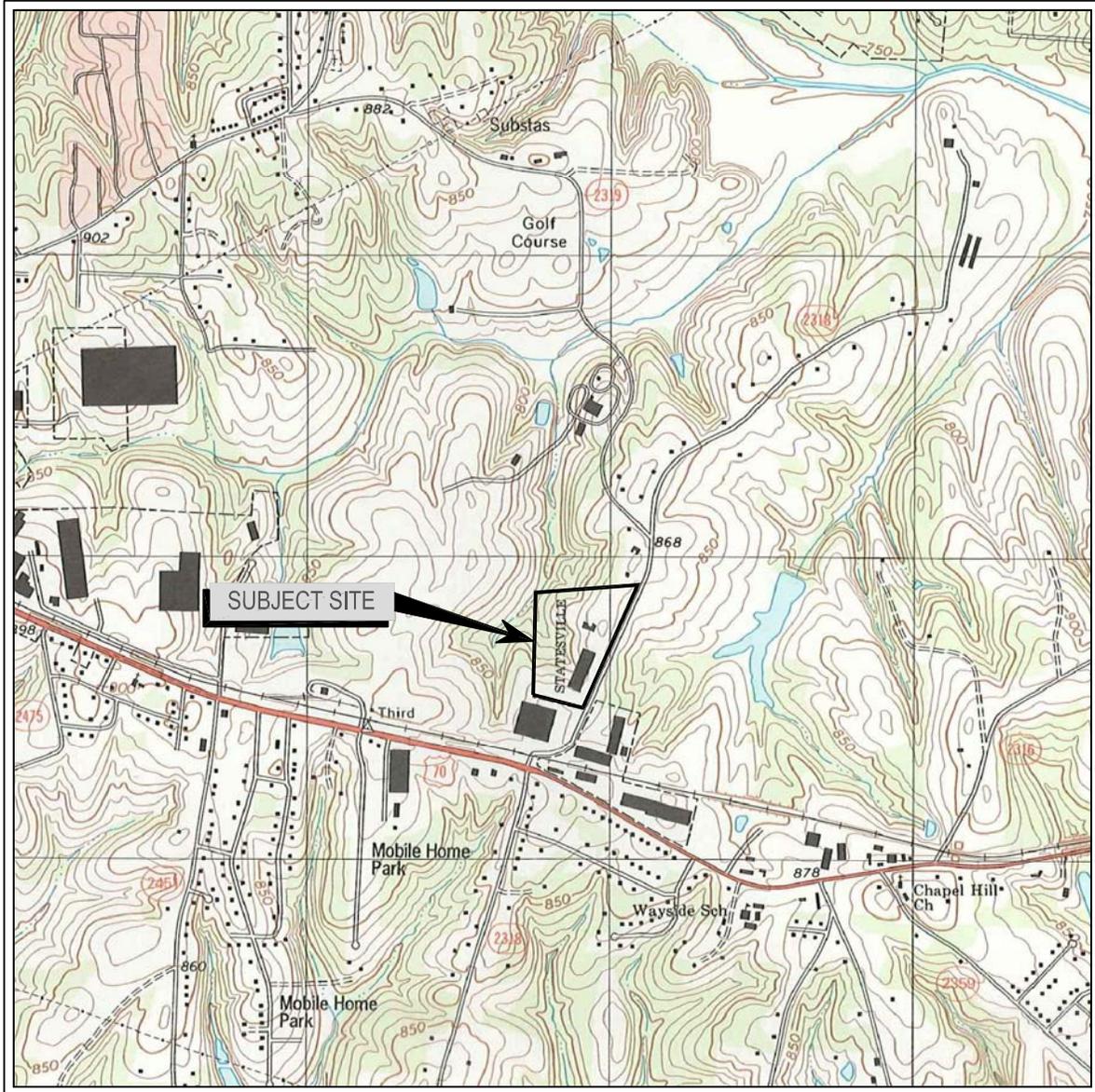
Upon completion of the soil and groundwater sampling activities, Terracon will complete an Assessment and Cleanup Plan (ACP) in accordance with NCDENR HWS Guidelines that will include the following information:

- Summary of ISSP activities and results;
- Scaled maps and figures, including a USGS Topographic Map, depicting locations of soil borings and groundwater monitoring well locations, with the surveyed hydraulic gradient;

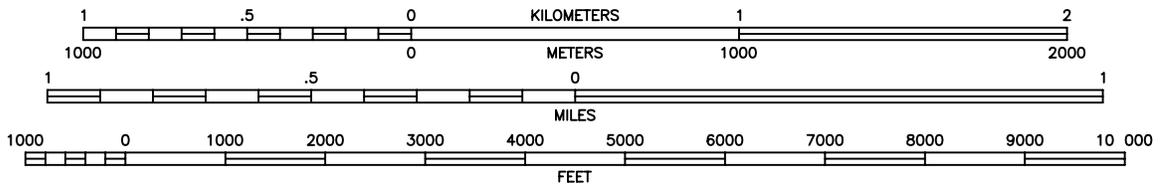
- Results of the additional soil and groundwater samples collected;
- Results of the receptor survey with scaled maps identifying sensitive receptors, if any;
and
- Our findings and conclusions comparing the results of the ISSP to applicable clean-up standards and screening levels.

Terracon and our Client are prepared to begin work on the proposed ISSP tasks within approximately 10 business days, following approval of the ISSP. Terracon anticipates completion of the ISSP and ACP approximately 50 business days from the date of approval of the ISSP.

Appendix A



SCALE 1:24 000



CONTOUR INTERVAL 10 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929
 TOPO LINES REPRESENT 10-FOOT CONTOURS

QUADRANGLE
 STATESVILLE EAST, NC
 2002
 7.5 MINUTE SERIES (TOPOGRAPHIC)



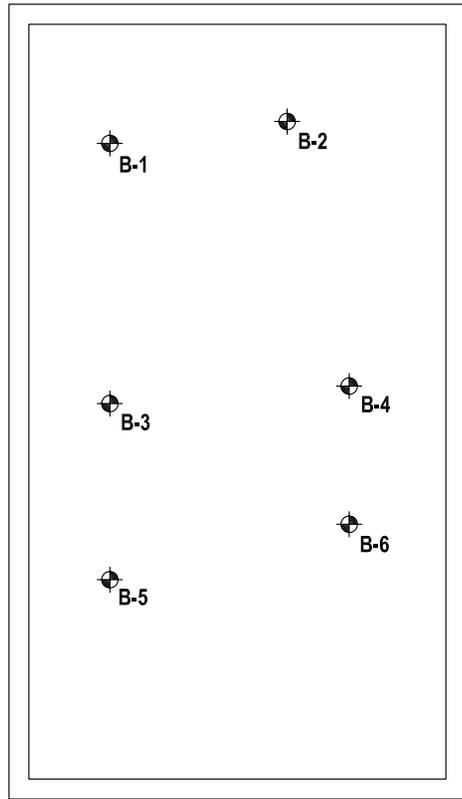
Project Mng:	CAK	Project No.	71097797
Drawn By:	DWD	Scale:	AS SHOWN
Checked By:	CAK/MRF	File No.	ISSP71097797-1
Approved By:	CAK	Date:	MAY 2010

Terracon
 Consulting Engineers and Scientists

2020 Starita Rd., Suite E Charlotte, North Carolina 28206
 (704) 509-1777 (704) 509-1888

SITE VICINITY DIAGRAM
 INITIAL SITE SAMPLING PLAN
 MERCHANT METALS, INC
 165 FANJOY ROAD
 STATESVILLE, IREDELL COUNTY, NC

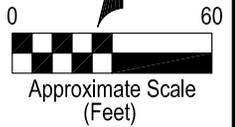
EXHIBIT
 A-1



CONCRETE CONTAINMENT AREA
SCALE: 1"=10'



OVERALL BUILDING VIEW



LEGEND

-  APPROXIMATE BORING LOCATION
-  BORING REFUSAL
-  BACKGROUND BORING

Project Mngr:	CAK	Project No.	71097797
Drawn By:	DWD	Scale:	AS SHOWN
Checked By:	CAK/MRF	File No.	ISSP71097797-2
Approved By:	CAK	Date:	MAY 2010

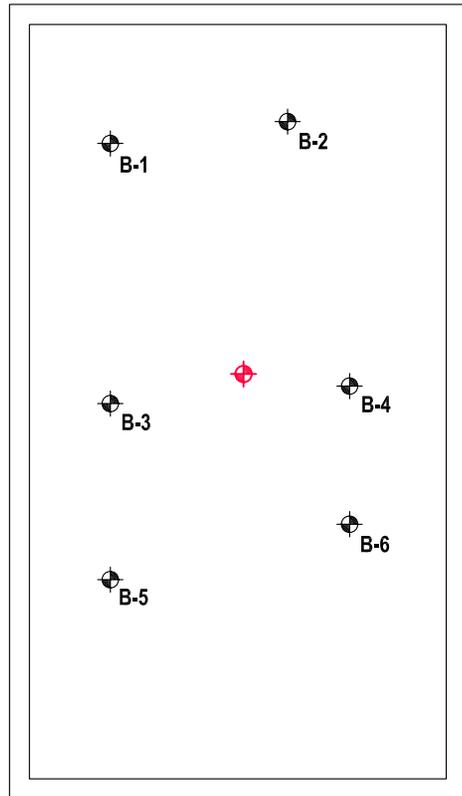
Terracon
Consulting Engineers and Scientists

2020 Starita Rd., Suite E Charlotte, North Carolina 28206
(704) 509-1777

SOIL BORING LOCATION DIAGRAM
INITIAL SITE SAMPLING PLAN MERCHANT METALS, INC. 165 FANJOY ROAD STATESVILLE, IREDELL COUNTY, NC

EXHIBIT
A-2

THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES



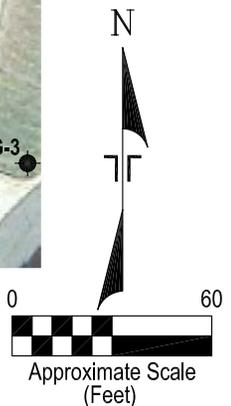
CONCRETE CONTAINMENT AREA
SCALE: 1"=10'



OVERALL BUILDING VIEW

LEGEND

-  PROPOSED SOIL BORING LOCATION
-  PROPOSED MONITORING WELL LOCATION
-  APPROXIMATE BORING LOCATION
-  BORING REFUSAL
-  BACKGROUND BORING



THIS DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

Project Mngr:	CAK	Project No.	71097797
Drawn By:	DWD	Scale:	AS SHOWN
Checked By:	CAK/MRF	File No.	ISSP71097797-PROP
Approved By:	CAK	Date:	MAY 2010

Terracon
Consulting Engineers and Scientists

2020 Starita Rd., Suite E Charlotte, North Carolina 28206
(704) 509-1777

PROPOSED SAMPLING LOCATION DIAGRAM
INITIAL SITE SAMPLING PLAN MERCHANT METALS, INC. 165 FANJOY ROAD STATESVILLE, IREDELL COUNTY, NC

EXHIBIT
A-2

Appendix B

**Table 1: Results of Metals and pH in Soils
Merchant Metals Facility
Statesville, North Carolina
Terracon Project: 71097797**

Boring Location	Date of Sample	Depth of Sample (in feet)	Laboratory Analytical Results				
			Cadmium	Chromium	Lead	Zinc	pH ¹
B-1	11-17-09	1	0.34	5.4	24.1	9,620	2.1
		4	2.1	20.0	24.5	6,980	3.2
B-1A (B-1 Offset)	01-20-10	9 to 10	1.4	10.2	29.3	6,830	3.4
		26 to 27	BDL	9.3	13.7	2,120	3.4
B-2	11-17-09	1	4.5	70.0	8.2	872	2.6
		4	2.3	27.4	18.4	3,550	3.7
B-3	11-17-09	1	0.52	9.9	37.9	16,900	1.6
		4	4.2	33.9	30.5	8,480	2.9
B-4	11-17-09	1	3.5	64.2	34.9	13,300	1.9
		4	2.1	16.4	27.9	6,280	3.8
B-4A (B-4 Offset)	01-20-10	6 to 7	3.3	17.3	32.7	9,590	3.0
		15 to 16	2.5	18.5	33.9	10,300	3.2
		19 to 20	BDL	16.2	15.3	65.9	5.1
		31 to 32	BDL	NS	NS	33.3	5.6
		45 to 46	0.29	NS	NS	26.0	5.7
B-5	11-17-09	1	0.66	12.5	40.2	19,200	2.0
		4	2.6	26.2	37.3	10,200	3.4
B-5A (B-5 Offset)	01-20-10	15 to 16	1.8	16.6	18.1	8,080	3.4
		25 to 26	BDL	2.0	5.3	3,500	3.4
B-6	11-17-09	1	2.5	40.2	14.6	1,260	3.3
		4	2.0	23.5	28.4	6,690	3.6
B-7	01-20-10	6 to 7	1.8	22.0	21.2	5,930	3.3
		21 to 22	BDL	NS	NS	22.5	5.5
B-8	01-20-10	9 to 10	2.6	17.8	13.9	3,630	3.7
		19 to 20	BDL	NS	NS	9.3	5.6
B-9	01-20-10	14 to 15	3.6	16.4	33.3	7,160	3.5
		24 to 25	BDL	NS	NS	5.6	5.7
B-10	01-20-10	9 to 10	3.0	13.9	12.9	33.4	5.5
B-11	01-21-10	9 to 10	BDL	13.3	16.3	1,380	4.1
		19 to 20	BDL	NS	NS	7.0	5.4
B-12	01-21-10	14 to 15	2.1	21.7	32.9	6,890	4.0
		19 to 20	1.4	NS	NS	6,230	3.9
B-13	01-21-10	9 to 10	0.56	9.5	7.1	14.4	5.3
B-14	01-21-10	6 to 7	2.0	13.9	35.6	7,460	4.0
		14 to 15	3.0	NS	NS	32.8	5.4
Background 1	11-17-09	4	1.3	15.6	14.3	32.9	5.7
Background 2	01-20-10	4	2.9	14.4	13.0	40.2	5.9
Background 3	01-20-10	4	0.73	11.7	14.7	32.3	5.1
Background 4	01-20-10	4	BDL	20.3	13.2	107	5.2
Background 5	01-20-10	4	0.98	11.7	13.3	26.8	4.9
Concrete Composite	11-17-09	N/A	NS	BDL	BDL	178	N/S
NCDENR HWS Soil Cleanup Levels		SSL	0.95	27.2	270	500	N/L
		Residential Risk-Based Level	37	210	400	23,000	N/L

All metals results in milligrams/kilogram (mg/kg) or milligrams/Liter (mg/L)

pH¹ testing within the laboratory was conducted outside the EPA Method Holding Time, results in standard units

N/A - Concrete chips were composited from the 6 boring locations

N/L - No standard listed

NS - Not submitted for laboratory analysis

BDL - Below laboratory detection limits

NCDENR HWS - NCDENR Hazardous Waste Section Soil Cleanup Levels

SSL - Soil Screening Level Protective of Groundwater

Bold denotes above the NCDENR HWS SSL

Table 2: Results of Total Zinc by Depth in Soils
Merchant Metals Facility
Statesville, North Carolina
Terracon Project: 71097797

Boring Location	Date Sampled	Sample Depth (in feet below grade)																																	
		0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	19 to 20	20 to 21	21 to 22	22 to 23	24 to 25	25 to 26	26 to 27	29 to 30	31 to 32	36 to 37	44 to 45	45 to 46					
B-1	11-17-09		9,620		6,980																														
B-1A	01-20-10					X		X			6,830			X			X		X	X							2,120								
B-2	11-17-09		872		3,550																														
B-3	11-17-09		16,900		8,480																														
B-4	11-17-09		13,300		6,280																														
B-4A	01-20-10					X		9,590			X			X			10,300		65.9	X						X		33.3	X	X	26.0				
B-5	11-17-09		19,200		10,200																														
B-5A	01-20-10					X		X			X			X			8,080		X	X					3,500										
B-6	11-17-09		1,260		6,690																														
B-7	01-20-10					X		5,930			X		X					X				22.5				X									
B-8	01-20-10					X		X			3,630			X			X		9.3			X				X									
B-9	01-20-10							X			X					7,160			X					5.6			X								
B-10	01-20-10					X					33.4					X			X					X			X								
B-11	01-21-10					X					1,380					X			7.0																
B-12	01-21-10					X		X			X	X				6,890			6,230																
B-13	01-21-10					X					14.4					X			X																
B-14	01-21-10					X		7,460			X	X				32.8			X																
Back 1	11-17-09					32.9																													
Back 2	01-20-10					40.2																													
Back 3	01-20-10					32.3																													
Back 4	01-20-10					107																													
Back 5	01-20-10					26.8																													

All results in milligrams/kilogram (mg/kg)
X - Soil sample collected during soil boring advancement was not submitted for laboratory analysis
Empty field denotes sample was not collected from that interval
Borings B-1, B-4, and B-5 required offsets due to accumulated water in the previous hand augers

Table 3: Results of pH by Depth in Soils
Merchant Metals Facility
Statesville, North Carolina
Terracon Project: 71097797

Boring Location	Date Sampled	Sample Depth (in feet below grade)																													
		0 to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12	12 to 13	13 to 14	14 to 15	15 to 16	16 to 17	19 to 20	20 to 21	21 to 22	22 to 23	24 to 25	25 to 26	26 to 27	29 to 30	31 to 32	36 to 37	44 to 45	45 to 46	
B-1	11-17-09		2.1		3.2																										
B-1A	01-20-10					3.2		3.4			3.4			3.4			4.2		4.2	4.3						3.4					
B-2	11-17-09		3.4		3.4																										
B-3	11-17-09		1.6		2.9																										
B-4	11-17-09		1.9		3.8																										
B-4A	01-20-10					2.7		3.0			3.8			3.3			3.2		5.1	5.1						5.3		5.6	5.6	5.6	5.7
B-5	11-17-09		2.0		3.4																										
B-5A	01-20-10					3.5		3.6			3.6			3.6			3.4		3.9	4.0					3.4						
B-6	11-17-09		3.3		3.6																										
B-7	01-20-10					3.1		3.3			3.7		4.5				4.6			5.5						4.2					
B-8	01-20-10					4.8		5.0			3.7			4.5			4.7		5.6			5.6				5.5					
B-9	01-20-10							4.4			3.8					3.5		4.9					5.7			5.7					
B-10	01-20-10					5.4					5.5					5.9			6.1					6.1			5.9				
B-11	01-21-10					4.4					4.1					4.8			5.4												
B-12	01-21-10					4.6		4.8			4.8	5.2				4.0			3.9												
B-13	01-21-10					5.3					5.3					5.8			5.9												
B-14	01-21-10					4.1		4.0			4.4	5.1				5.4			5.7												
Back 1	11-17-09					5.1																									
Back 2	01-20-10					5.9																									
Back 3	01-20-10					5.1																									
Back 4	01-20-10					5.2																									
Back 5	01-20-10					4.9																									

All results in standard units, (7.0 is neutral)
Empty field denotes sample from that interval was not tested for pH
Borings B-1, B-4, and B-5 required offsets due to accumulated water in the previous hand augers

Appendix C

SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-1
PROJECT NO.: 71097797	DATE(S) DRILLED: November 17, 2009
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: N/A	DRILL METHOD: Hand Auger
CLIENT: Merchant Metals Inc.	BORING DIAMETER: 2 inches
LOGGED BY: Ben Swift	SAMPLING METHOD/INTERVAL: hand auger
	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 5				0.0	Previously hand augered
		2.1		1.0	
				2.0	
				3.0	
		3.2		4.0	
				5.0	
				6.0	
				7.0	
				8.0	
				9.0	
				10.0	
				11.0	
				12.0	
				13.0	
				14.0	
				15.0	
				16.0	
				17.0	
				18.0	
				19.0	
				20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	

DRILLING METHODS
 AR - AIR ROTARY
 CFA - CONTINUOUS FLIGHT AUGER
 DC - DRIVEN CASING
 TUBE
 HA - HAND AUGER
 HSA - HOLLOW STEM AUGER
 MD - MUD DRILLING

SAMPLING
 SS - SPLIT SPOON
 ST - SHELBY
 * - Sample collected for analysis
 ND = <1 ppm



SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-1A
PROJECT NO.: 71097797	DATE(S) DRILLED: January 20, 2010
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: Probe Technology, Inc.	
DRILL METHOD: Geoprobe®	
BORING DIAMETER: 1 inches	
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: 5-foot macro-core sleeves
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 1	48			0.0	8" Concrete
1 - 4				1.0	Brown orange fine to medium sandy silt
				2.0	
				3.0	
				4.0	
4 - 6				4.0	Moist brown orange fine to medium micaceous sandy silt
	48	3.2		5.0	
6 - 16				6.0	
		3.4		7.0	
				8.0	
				9.0	
	36	3.4		10.0	
				11.0	
		3.4		12.0	
				13.0	
				14.0	
	60			15.0	
16 - 20		4.2		16.0	Tan brown fine to medium sandy silt
				17.0	
				18.0	
				19.0	
	12	4.2		20.0	Orange tan fine to medium micaceous sandy silt
		4.3		21.0	
22 - 30				22.0	Tan yellow fine to medium micaceous sandy silt with PWR
				23.0	
				24.0	
	24			25.0	
				26.0	
		3.4		27.0	
				28.0	
				29.0	
				30.0	

DRILLING METHODS AR - AIR ROTARY METHODS CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING TUBE HA - HAND AUGER analysis HSA - HOLLOW STEM AUGER MD - MUD DRILLING	SAMPLING SS - SPLIT SPOON ST - SHELBY * - Sample collected for analysis ND = <1 ppm
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SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-2
PROJECT NO.: 71097797	DATE(S) DRILLED: November 17, 2009
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: N/A	DRILL METHOD: Hand Auger
CLIENT: Merchant Metals Inc.	BORING DIAMETER: 2 inches
LOGGED BY: Ben Swift	SAMPLING METHOD/INTERVAL: hand auger
	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 5				0.0	Previously hand augered
		3.4		1.0	
				2.0	
				3.0	
		3.4		4.0	
				5.0	
				6.0	
				7.0	
				8.0	
				9.0	
				10.0	
				11.0	
				12.0	
				13.0	
				14.0	
				15.0	
				16.0	
				17.0	
				18.0	
				19.0	
				20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	

DRILLING METHODS
 AR - AIR ROTARY
 METHODS
 CFA - CONTINUOUS FLIGHT AUGER
 DC - DRIVEN CASING
 TUBE
 HA - HAND AUGER
 analysis
 HSA - HOLLOW STEM AUGER
 MD - MUD DRILLING

SAMPLING
 SS - SPLIT SPOON
 ST - SHELBY
 * - Sample collected for
 ND = <1 ppm



SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-3
PROJECT NO.: 71097797	DATE(S) DRILLED: November 17, 2009
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: N/A	DRILL METHOD: Hand Auger
CLIENT: Merchant Metals Inc.	BORING DIAMETER: 2 inches
LOGGED BY: Ben Swift	SAMPLING METHOD/INTERVAL: hand auger
	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 5				0.0	Previously hand augered
		1.6		1.0	
				2.0	
				3.0	
		2.9		4.0	
				5.0	
				6.0	
				7.0	
				8.0	
				9.0	
				10.0	
				11.0	
				12.0	
				13.0	
				14.0	
				15.0	
				16.0	
				17.0	
				18.0	
				19.0	
				20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	

DRILLING METHODS
 AR - AIR ROTARY
 METHODS
 CFA - CONTINUOUS FLIGHT AUGER
 DC - DRIVEN CASING
 TUBE
 HA - HAND AUGER
 analysis
 HSA - HOLLOW STEM AUGER
 MD - MUD DRILLING

SAMPLING
 SS - SPLIT SPOON
 ST - SHELBY
 * - Sample collected for
 ND = <1 ppm



SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-4
PROJECT NO.: 71097797	DATE(S) DRILLED: November 17, 2009
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: N/A	
DRILL METHOD: Hand Auger	
BORING DIAMETER: 2 inches	
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: hand auger
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 5				0.0	Previously hand augered
		1.9		1.0	
				2.0	
				3.0	
		3.8		4.0	
				5.0	
				6.0	
				7.0	
				8.0	
				9.0	
				10.0	
				11.0	
				12.0	
				13.0	
				14.0	
				15.0	
				16.0	
				17.0	
				18.0	
				19.0	
				20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	

<u>DRILLING METHODS</u> AR - AIR ROTARY CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING TUBE HA - HAND AUGER analysis HSA - HOLLOW STEM AUGER MD - MUD DRILLING	<u>SAMPLING</u> SS - SPLIT SPOON ST - SHELBY * - Sample collected for analysis ND = <1 ppm
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SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-4A
PROJECT NO.: 71097797	DATE(S) DRILLED: January 20, 2010 & January 21, 2010
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: Probe Technology, Inc.	
DRILL METHOD: Geoprobe®	
BORING DIAMETER: 1 inches	
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: 5-foot macro-core sleeves
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 1	36			0.0	6" Concrete
1 - 5				1.0	Yellow fine to coarse sandy silt
				2.0	
				3.0	
				4.0	
5 - 6	36	2.7		5.0	Brown orange fine to medium micaceous sandy silt
6 - 11				6.0	Red orange clayey fine to medium micaceous sandy silt
		3.0		7.0	
				8.0	
				9.0	
	36	3.8		10.0	
11 - 13				11.0	Red orange clayey fine to medium micaceous sandy silt with some
				12.0	yellow fine to medium micaceous sandy silt
13 - 16		3.3		13.0	Red clayey fine to medium micaceous sandy silt
				14.0	
	36			15.0	
16 - 20		3.2		16.0	Red orange clayey fine to medium micaceous sandy silt with some
				17.0	yellow fine to medium micaceous sandy silt
				18.0	
19 - 21				19.0	
	24	5.1		20.0	Brown orange fine to medium micaceous sandy silt with PWR
21 - 30		5.1		21.0	Tan orange yellow fine to medium micaceous sandy silt with PWR
				22.0	
				23.0	
				24.0	
	24			25.0	
				26.0	
		5.3		27.0	
				28.0	
				29.0	
				30.0	

<u>DRILLING METHODS</u> AR - AIR ROTARY METHODS CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING TUBE HA - HAND AUGER analysis HSA - HOLLOW STEM AUGER MD - MUD DRILLING	<u>SAMPLING</u> SS - SPLIT SPOON ST - SHELBY * - Sample collected for analysis ND = <1 ppm
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SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-4A
PROJECT NO.: 71097797	DATE(S) DRILLED: January 20, 2010 & January 21, 2010
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	DRILLING CONTR.: Probe Technology, Inc.
	DRILL METHOD: Geoprobe®
	BORING DIAMETER: 1 inches
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: 5-foot macro-core sleeves
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
30 - 41	24			30.0	White tan fine to medium micaceous sandy silt with PWR
				31.0	
		5.6		32.0	
				33.0	
				34.0	
	36			35.0	
				36.0	
		5.6		37.0	
				38.0	
				39.0	
	60			40.0	Brown orange fine to medium micaceous sandy silt
41 - 44				41.0	
				42.0	
				43.0	White silty fine sand
44 - 45				44.0	
45 - 46	12	5.6		45.0	Brown tan fine to medium sand
		5.7		46.0	
				47.0	
				48.0	
				49.0	
				50.0	
				51.0	
				52.0	
				53.0	
				54.0	
				55.0	
				56.0	
				57.0	
				58.0	
				59.0	
				60.0	

Boring refusal at 46' bgs due to bedrock/PWR

<u>DRILLING METHODS</u>	<u>SAMPLING</u>
AR - AIR ROTARY METHODS	SS - SPLIT SPOON
CFA - CONTINUOUS FLIGHT AUGER	ST - SHELBY
DC - DRIVEN CASING TUBE	
HA - HAND AUGER analysis	* - Sample collected for
HSA - HOLLOW STEM AUGER	ND = <1 ppm
MD - MUD DRILLING	



SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-5
PROJECT NO.: 71097797	DATE(S) DRILLED: November 17, 2009

PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	DRILLING CONTR.: N/A
	DRILL METHOD: Hand Auger
	BORING DIAMETER: 2 inches

CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: hand auger
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 5				0.0	Previously hand augered
		2		1.0	
				2.0	
				3.0	
		3.4		4.0	
				5.0	
				6.0	
				7.0	
				8.0	
				9.0	
				10.0	
				11.0	
				12.0	
				13.0	
				14.0	
				15.0	
				16.0	
				17.0	
				18.0	
				19.0	
				20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	

DRILLING METHODS
 AR - AIR ROTARY METHODS
 CFA - CONTINUOUS FLIGHT AUGER
 DC - DRIVEN CASING TUBE
 HA - HAND AUGER analysis
 HSA - HOLLOW STEM AUGER
 MD - MUD DRILLING

SAMPLING
 SS - SPLIT SPOON
 ST - SHELBY
 * - Sample collected for analysis
 ND = <1 ppm



SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-5A
PROJECT NO.: 71097797	DATE(S) DRILLED: January 20, 2010 & January 21, 2010
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: Probe Technology, Inc.	
DRILL METHOD: Geoprobe®	
BORING DIAMETER: 1 inches	
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: 5-foot macro-core sleeves
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 1	48			0.0	8" Concrete-yellow on surface
1 - 6				1.0	Red orange fine to medium micaceous sandy silt
				2.0	
				3.0	
				4.0	
				5.0	
6 - 13	60	3.5		6.0	Brown orange fine to medium micaceous sandy silt
		3.6		7.0	
				8.0	
				9.0	
				10.0	
	36	3.6		11.0	Brown orange clayey fine to medium micaceous sandy silt
				12.0	
13 - 19		3.6		13.0	
	36			14.0	
		3.4		15.0	
				16.0	Tan orange fine to medium sandy silt with some organics
				17.0	
				18.0	
19 - 20				19.0	
				20.0	
20 - 21	24	3.9		20.0	Orange tan silty fine to medium sand with PWR
21 - 26		4		21.0	
				22.0	
				23.0	
				24.0	
	12			25.0	Orange tan fine to medium sandy silt with PWR
26 - 30		3.4		26.0	
				27.0	
				28.0	
				29.0	
				30.0	Tan grey silty fine sand

DRILLING METHODS AR - AIR ROTARY METHODS CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING TUBE HA - HAND AUGER analysis HSA - HOLLOW STEM AUGER MD - MUD DRILLING	SAMPLING SS - SPLIT SPOON ST - SHELBY * - Sample collected for analysis ND = <1 ppm
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SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-6
PROJECT NO.: 71097797	DATE(S) DRILLED: November 17, 2009
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: N/A	
DRILL METHOD: Hand Auger	
BORING DIAMETER: 2 inches	
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: hand auger
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 5				0.0	Previously hand augered
		3.3		1.0	
				2.0	
				3.0	
		3.6		4.0	
				5.0	
				6.0	
				7.0	
				8.0	
				9.0	
				10.0	
				11.0	
				12.0	
				13.0	
				14.0	
				15.0	
				16.0	
				17.0	
				18.0	
				19.0	
				20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	

<p><u>DRILLING METHODS</u></p> <p>AR - AIR ROTARY METHODS</p> <p>CFA - CONTINUOUS FLIGHT AUGER</p> <p>DC - DRIVEN CASING TUBE</p> <p>HA - HAND AUGER analysis</p> <p>HSA - HOLLOW STEM AUGER</p> <p>MD - MUD DRILLING</p>	<p style="text-align: center;"><u>SAMPLING</u></p> <p>SS - SPLIT SPOON</p> <p>ST - SHELBY</p> <p>* - Sample collected for analysis</p> <p>ND = <1 ppm</p>
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SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-7
PROJECT NO.: 71097797	DATE(S) DRILLED: January 20, 2010
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: Probe Technology, Inc.	
DRILL METHOD: Geoprobe®	
BORING DIAMETER: 1 inches	
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: 5-foot macro-core sleeves
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 1	60			0.0	8" Concrete
1 - 3				1.0	Yellow clayey fine to medium sandy silt
				2.0	
3 - 7				3.0	Orange fine to medium micaceous sandy silt
				4.0	
	60	3.1		5.0	
				6.0	
7 - 9		3.3		7.0	Grey silty fine to medium sand
				8.0	
9 - 11				9.0	Red orange clayey fine to medium micaceous sandy silt
	24	3.7		10.0	
11 - 12				11.0	Tan brown fine to medium sandy silt with trace organics
12 - 17		4.5		12.0	Tan brown fine to medium sandy silt
				13.0	
				14.0	
	36			15.0	
				16.0	
17 - 21		4.6		17.0	Red orange fine to medium sandy silt
				18.0	
				19.0	Tan orange fine to medium sandy silt with some organics
	24			20.0	Orange tan silty fine to medium sand with PWR
21 - 26				21.0	Orange grey tan fine to medium micaceous sandy silt
		5.5		22.0	
				23.0	
				24.0	
	24			25.0	
26 - 30				26.0	Grey tan silty fine to medium sand
		5.5		27.0	
				28.0	
				29.0	
				30.0	

DRILLING METHODS
 AR - AIR ROTARY METHODS
 CFA - CONTINUOUS FLIGHT AUGER
 DC - DRIVEN CASING TUBE
 HA - HAND AUGER analysis
 HSA - HOLLOW STEM AUGER
 MD - MUD DRILLING

SAMPLING
 SS - SPLIT SPOON
 ST - SHELBY
 * - Sample collected for analysis
 ND = <1 ppm



SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-8
PROJECT NO.: 71097797	DATE(S) DRILLED: January 20, 2010
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: Probe Technology, Inc.	
DRILL METHOD: Geoprobe®	
BORING DIAMETER: 1 inches	
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: 5-foot macro-core sleeves
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	PID (ppm)	FID (ppm)	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 5	60				0.0	Red orange fine to medium sandy silt
					1.0	
					2.0	
					3.0	
					4.0	
5 - 6	36		4.8		5.0	Brown olive fine to medium sandy silt with some rock frags
6 - 9			5.0		6.0	Tan orange fine to medium micaceous sandy silt
					7.0	
					8.0	
9 - 11					9.0	Tan orange clayey fine to medium micaceous sandy silt
	36		3.7		10.0	
11 - 13					11.0	Red orange clayey fine to medium micaceous sandy silt
					12.0	
13 - 14			4.5		13.0	Orange clayey fine to medium micaceous sandy silt
14 - 21					14.0	Orange tan silty fine to medium sand
	36				15.0	
			4.7		16.0	
					17.0	
					18.0	
					19.0	
	36		5.6		20.0	
21 - 23					21.0	Tan orange fine to medium micaceous sandy silt
					22.0	
23 - 26			5.6		23.0	White tan silty fine to coarse sand
					24.0	
	36				25.0	
26 - 30					26.0	Tan white silty fine to coarse sand
			5.5		27.0	
					28.0	
					29.0	
					30.0	

DRILLING METHODS
 AR - AIR ROTARY
 CFA - CONTINUOUS FLIGHT AUGER
 DC - DRIVEN CASING
 HA - HAND AUGER
 HSA - HOLLOW STEM AUGER
 MD - MUD DRILLING
 RC - ROCK CORING
 WR - WATER ROTARY

SAMPLING METHODS
 SS - SPLIT SPOON
 ST - SHELBY TUBE
 * - Sample collected for analysis
 ND = <1 ppm



SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-9
PROJECT NO.: 71097797	DATE(S) DRILLED: January 20, 2010
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: Probe Technology, Inc.	
DRILL METHOD: Geoprobe®	
BORING DIAMETER: 1 inches	
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: 5-foot macro-core sleeves
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 5				0.0	Hand augered down 5' - samples not collected
				1.0	
				2.0	
				3.0	
				4.0	
5 - 19	60	4.4		5.0	Red orange micaceous silty clay
				6.0	
				7.0	
				8.0	
				9.0	
	60	3.8		10.0	
				11.0	
				12.0	
				13.0	
				14.0	
	60	3.5		15.0	
				16.0	
				17.0	
				18.0	
19 - 20				19.0	Tan brown fine to medium sandy silt with some topsoil
20 - 24	36	4.9		20.0	Tan brown fine to medium sandy silt
				21.0	
				22.0	
				23.0	
24 - 30	60	5.7		24.0	Tan orange fine to medium sandy silt
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
		5.7		30.0	

DRILLING METHODS AR - AIR ROTARY METHODS CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING TUBE HA - HAND AUGER analysis HSA - HOLLOW STEM AUGER MD - MUD DRILLING	SAMPLING SS - SPLIT SPOON ST - SHELBY * - Sample collected for analysis ND = <1 ppm
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SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-10
PROJECT NO.: 71097797	DATE(S) DRILLED: January 20, 2010
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	DRILLING CONTR.: Probe Technology, Inc.
	DRILL METHOD: Geoprobe®
	BORING DIAMETER: 1 inches
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: 5-foot macro-core sleeves
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 1	36			0.0	6" Concrete
1 - 6				1.0	Red orange fine to medium micaceous sandy silt
				2.0	
				3.0	
				4.0	
				5.0	
6 - 14	48	5.4		6.0	Orange brown clayey fine to medium micaceous sandy silt
				7.0	
				8.0	
				9.0	
				10.0	
	60	5.5		11.0	Tan orange silty fine to medium sand
				12.0	
				13.0	
14 - 16				14.0	
	36	5.9		15.0	
16 - 23				16.0	Tan orange with some black fine to medium sandy silt
				17.0	
				18.0	
				19.0	
				20.0	
	48	6.1		21.0	Tan orange with some white fine to medium sandy silt
				22.0	
23 - 28				23.0	
				24.0	
	60	6.1		25.0	
				26.0	Tan orange silty fine to medium sand with PWR
				27.0	
28 - 30				28.0	
				29.0	
		5.9		30.0	

DRILLING METHODS
 AR - AIR ROTARY
 METHODS
 CFA - CONTINUOUS FLIGHT AUGER
 DC - DRIVEN CASING
 TUBE
 HA - HAND AUGER
 analysis
 HSA - HOLLOW STEM AUGER
 MD - MUD DRILLING

SAMPLING
 SS - SPLIT SPOON
 ST - SHELBY
 * - Sample collected for
 analysis
 ND = <1 ppm



SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-11
PROJECT NO.: 71097797	DATE(S) DRILLED: January 21, 2010
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: Probe Technology, Inc.	
DRILL METHOD: Geoprobe®	
BORING DIAMETER: 1 inches	
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: 5-foot macro-core sleeves
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 1	36			0.0	8" Concrete
1 - 15				1.0	Red orange fine to medium micaceous sandy silt
				2.0	
				3.0	
				4.0	
	60	4.4		5.0	
				6.0	
				7.0	
				8.0	
				9.0	
	60	4.1		10.0	
				11.0	
				12.0	
				13.0	
				14.0	
15 - 17	60	4.8		15.0	Orange brown clayey fine to medium sandy silt
				16.0	
17 - 20				17.0	Tan orange fine to medium micaceous sandy silt
				18.0	
				19.0	
		5.4		20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	

DRILLING METHODS AR - AIR ROTARY CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING TUBE HA - HAND AUGER analysis HSA - HOLLOW STEM AUGER MD - MUD DRILLING	SAMPLING SS - SPLIT SPOON ST - SHELBY * - Sample collected for analysis ND = <1 ppm
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SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-12
PROJECT NO.: 71097797	DATE(S) DRILLED: January 21, 2010
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: Probe Technology, Inc.	
DRILL METHOD: Geoprobe®	
BORING DIAMETER: 1 inches	
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: 5-foot macro-core sleeves
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 1	24			0.0	Concrete and ABC stone
1 - 7				1.0	White tan fine to medium sandy silt
				2.0	
				3.0	
				4.0	
	36	4.6		5.0	
				6.0	
7 - 14		4.8		7.0	Red orange fine to medium micaceous sandy silt
				8.0	
				9.0	
	60	4.8		10.0	
		5.2		11.0	
				12.0	
14 - 18				13.0	Brown orange fine to medium micaceous sandy silt
	48	4		14.0	
				15.0	
				16.0	
18 - 20				17.0	Tan brown orange fine to medium micaceous sandy silt
				18.0	
				19.0	
		3.9		20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	

DRILLING METHODS AR - AIR ROTARY METHODS CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING TUBE HA - HAND AUGER analysis HSA - HOLLOW STEM AUGER MD - MUD DRILLING	SAMPLING SS - SPLIT SPOON ST - SHELBY * - Sample collected for analysis ND = <1 ppm
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SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-13
PROJECT NO.: 71097797	DATE(S) DRILLED: January 21, 2010
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: Probe Technology, Inc.	
DRILL METHOD: Geoprobe®	
BORING DIAMETER: 1 inches	
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: 5-foot macro-core sleeves
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 1	48			0.0	Concrete and ABC stone
1 - 10				1.0	Red orange fine to medium micaceous sandy silt
				2.0	
				3.0	
				4.0	
	36	5.3		5.0	
				6.0	
				7.0	
				8.0	
				9.0	
10 - 11	60	5.3		10.0	Tan brown fine to medium sandy silt
11 - 18				11.0	Red orange fine to medium micaceous sandy silt
				12.0	
				13.0	
				14.0	
	60	5.8		15.0	Brown orange fine to medium micaceous sandy silt
				16.0	
				17.0	
18 - 20				18.0	Tan orange fine micaceous sandy silt
				19.0	
		5.9		20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	

DRILLING METHODS AR - AIR ROTARY METHODS CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING TUBE HA - HAND AUGER analysis HSA - HOLLOW STEM AUGER MD - MUD DRILLING	SAMPLING SS - SPLIT SPOON ST - SHELBY * - Sample collected for analysis ND = <1 ppm
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SOIL BORING LOG

PROJECT NAME: Merchant Metals	SOIL BORING I.D.: B-14
PROJECT NO.: 71097797	DATE(S) DRILLED: January 21, 2010
PROJECT LOCATION: 165 Fanjoy Road Statesville, Iredell County, North Carolina	
DRILLING CONTR.: Probe Technology, Inc.	
DRILL METHOD: Geoprobe®	
BORING DIAMETER: 1 inches	
CLIENT: Merchant Metals Inc.	SAMPLING METHOD/INTERVAL: 5-foot macro-core sleeves
LOGGED BY: Ben Swift	REMARKS: BGS = below ground surface

DESCRIPTIVE LOG

SAMPLE INTERVAL	SAMPLE REC. (IN.)	pH	GRAPHIC COLUMN	DEPTH (FT)	DESCRIPTION OF SOIL
0 - 1	36			0.0	Concrete and ABC stone
1 - 12				1.0	Red orange clayey fine to medium micaceous sandy silt
				2.0	
				3.0	
				4.0	
	36	4.1		5.0	
				6.0	
		4		7.0	
				8.0	
				9.0	
	48	4.4		10.0	
		5.1		11.0	
12 - 14				12.0	Brown clayey fine to medium sandy silt
				13.0	
14 - 18				14.0	Brown orange fine to medium micaceous sandy silt
	48	5.4		15.0	
				16.0	
				17.0	
18 - 20				18.0	Tan orange fine to medium micaceous sandy silt
				19.0	
		5.7		20.0	
				21.0	
				22.0	
				23.0	
				24.0	
				25.0	
				26.0	
				27.0	
				28.0	
				29.0	
				30.0	

DRILLING METHODS AR - AIR ROTARY METHODS CFA - CONTINUOUS FLIGHT AUGER DC - DRIVEN CASING TUBE HA - HAND AUGER analysis HSA - HOLLOW STEM AUGER MD - MUD DRILLING	SAMPLING SS - SPLIT SPOON ST - SHELBY * - Sample collected for analysis ND = <1 ppm
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Appendix D

May 19, 2010

Mr. Chris Kelly
Terracon
2020 Starita Rd
Charlotte, NC

RE: Project: MERCHANT METALS
Pace Project No.: 9257769

Dear Mr. Kelly:

Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

cc: Mr. Chris Corbitt, Terracon

REPORT OF LABORATORY ANALYSIS

Page 1 of 18

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CERTIFICATIONS

Project: MERCHANT METALS

Pace Project No.: 9257769

Charlotte Certification IDs

9800 Kinsey Ave. - Ste 100 Huntersville, NC 28078
West Virginia Certification #: 357
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012
North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
Pennsylvania Certification #: 68-00784
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Tennessee Certification #: 04010
Virginia Certification #: 00213

Asheville Certification IDs

2225 Riverside Dr. Asheville, NC 28804
Connecticut Certification #: PH-0106
Louisiana/LELAP Certification #: 03095
Massachusetts Certification #: M-NC030
New Jersey Certification #: NC011
North Carolina Bioassay Certification #: 9
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40

Pennsylvania Certification #: 68-03578
South Carolina Bioassay Certification #: 9903002
South Carolina Certification #: 9903001
Tennessee Certification #: 2980
Virginia Certification #: 00072
West Virginia Certification #: 356
Florida/NELAP Certification #: E87648

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MERCHANT METALS

Pace Project No.: 9257769

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9257769001	B-1 1'	EPA 6010	JMW	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
		EPA 9045	JDA	1	PASI-A
9257769002	B-2 1'	EPA 6010	JMW	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
		EPA 9045	JDA	1	PASI-A
9257769003	B-3 1'	EPA 6010	JMW	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
		EPA 9045	JDA	1	PASI-A
9257769004	B-4 1'	EPA 6010	JMW	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
		EPA 9045	JDA	1	PASI-A
9257769005	B-5 1'	EPA 6010	JMW	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
		EPA 9045	JDA	1	PASI-A
9257769006	B-6 1'	EPA 6010	JMW	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
		EPA 9045	JDA	1	PASI-A
9257769007	BACKGROUND	EPA 6010	JMW	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
		EPA 9045	JDA	1	PASI-A
9257769008	CONCRETE COMPOSITE	EPA 6010	JMW	3	PASI-A
9257769009	B-1 4'	EPA 6010	JMW	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
		EPA 9045	SAJ	1	PASI-A
9257769010	B-2 4'	EPA 6010	JMW	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
		EPA 9045	SAJ	1	PASI-A
9257769011	B-3 4'	EPA 6010	JMW	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
		EPA 9045	SAJ	1	PASI-A
9257769012	B-4 4'	EPA 6010	JMW	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
		EPA 9045	SAJ	1	PASI-A
9257769013	B-5 4'	EPA 6010	JMW	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
		EPA 9045	SAJ	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MERCHANT METALS
Pace Project No.: 9257769

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9257769014	B-6 4'	EPA 6010	JMW	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
		EPA 9045	SAJ	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MERCHANT METALS
Pace Project No.: 9257769

Sample: B-1 1' **Lab ID: 9257769001** Collected: 11/17/09 11:05 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	0.34	mg/kg	0.094	1	11/18/09 23:15	11/19/09 20:45	7440-43-9	
Chromium	5.4	mg/kg	0.47	1	11/18/09 23:15	11/19/09 20:45	7440-47-3	
Lead	24.1	mg/kg	0.47	1	11/18/09 23:15	11/19/09 20:45	7439-92-1	
Zinc	9620	mg/kg	46.8	50	11/18/09 23:15	11/20/09 12:04	7440-66-6	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	26.8	%	0.10	1		11/19/09 08:55		
9045 pH Soil Analytical Method: EPA 9045								
pH at 25 Degrees C	2.1	Std. Units	0.10	1		11/23/09 11:00		H1

Sample: B-2 1' **Lab ID: 9257769002** Collected: 11/17/09 11:25 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	4.5	mg/kg	0.097	1	11/18/09 23:15	11/19/09 20:50	7440-43-9	
Chromium	70.0	mg/kg	0.49	1	11/18/09 23:15	11/19/09 20:50	7440-47-3	
Lead	8.2	mg/kg	0.49	1	11/18/09 23:15	11/19/09 20:50	7439-92-1	
Zinc	872	mg/kg	0.97	1	11/18/09 23:15	11/19/09 20:50	7440-66-6	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	33.2	%	0.10	1		11/19/09 08:55		
9045 pH Soil Analytical Method: EPA 9045								
pH at 25 Degrees C	2.6	Std. Units	0.10	1		11/23/09 11:00		H1

Sample: B-3 1' **Lab ID: 9257769003** Collected: 11/17/09 11:40 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	0.52	mg/kg	0.12	1	11/18/09 23:15	11/19/09 20:55	7440-43-9	
Chromium	9.9	mg/kg	0.60	1	11/18/09 23:15	11/19/09 20:55	7440-47-3	
Lead	37.9	mg/kg	0.60	1	11/18/09 23:15	11/19/09 20:55	7439-92-1	
Zinc	16900	mg/kg	59.6	50	11/18/09 23:15	11/20/09 12:07	7440-66-6	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	45.5	%	0.10	1		11/19/09 08:55		

ANALYTICAL RESULTS

Project: MERCHANT METALS

Pace Project No.: 9257769

Sample: B-3 1' **Lab ID: 9257769003** Collected: 11/17/09 11:40 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	1.6	Std. Units	0.10	1		11/23/09 11:00		H1

Sample: B-4 1' **Lab ID: 9257769004** Collected: 11/17/09 11:55 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Cadmium	3.5	mg/kg	0.092	1	11/18/09 23:15	11/19/09 21:00	7440-43-9	
Chromium	64.2	mg/kg	0.46	1	11/18/09 23:15	11/19/09 21:00	7440-47-3	
Lead	34.9	mg/kg	0.46	1	11/18/09 23:15	11/19/09 21:00	7439-92-1	
Zinc	13300	mg/kg	46.0	50	11/18/09 23:15	11/20/09 12:10	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **23.5 %** 0.10 1 11/19/09 08:56

9045 pH Soil Analytical Method: EPA 9045

pH at 25 Degrees C **1.9** Std. Units 0.10 1 11/23/09 11:00 H1

Sample: B-5 1' **Lab ID: 9257769005** Collected: 11/17/09 12:10 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Cadmium	0.66	mg/kg	0.097	1	11/18/09 23:15	11/19/09 21:05	7440-43-9	
Chromium	12.5	mg/kg	0.49	1	11/18/09 23:15	11/19/09 21:05	7440-47-3	
Lead	40.2	mg/kg	0.49	1	11/18/09 23:15	11/19/09 21:05	7439-92-1	
Zinc	19200	mg/kg	48.6	50	11/18/09 23:15	11/20/09 12:14	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **34.0 %** 0.10 1 11/19/09 08:56

9045 pH Soil Analytical Method: EPA 9045

pH at 25 Degrees C **2.0** Std. Units 0.10 1 11/23/09 11:00 H1

ANALYTICAL RESULTS

Project: MERCHANT METALS

Pace Project No.: 9257769

Sample: B-6 1' **Lab ID: 9257769006** Collected: 11/17/09 12:25 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	2.5	mg/kg	0.11	1	11/18/09 23:15	11/19/09 21:10	7440-43-9	
Chromium	40.2	mg/kg	0.57	1	11/18/09 23:15	11/19/09 21:10	7440-47-3	
Lead	14.6	mg/kg	0.57	1	11/18/09 23:15	11/19/09 21:10	7439-92-1	
Zinc	1260	mg/kg	11.3	10	11/18/09 23:15	11/20/09 12:27	7440-66-6	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	24.0	%	0.10	1		11/19/09 08:56		
9045 pH Soil Analytical Method: EPA 9045								
pH at 25 Degrees C	3.3	Std. Units	0.10	1		11/23/09 11:00		H1

Sample: BACKGROUND **Lab ID: 9257769007** Collected: 11/17/09 13:00 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	1.3	mg/kg	0.12	1	11/18/09 23:15	11/19/09 21:15	7440-43-9	
Chromium	15.6	mg/kg	0.59	1	11/18/09 23:15	11/19/09 21:15	7440-47-3	
Lead	14.3	mg/kg	0.59	1	11/18/09 23:15	11/19/09 21:15	7439-92-1	
Zinc	32.9	mg/kg	1.2	1	11/18/09 23:15	11/19/09 21:15	7440-66-6	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	25.2	%	0.10	1		11/19/09 08:56		
9045 pH Soil Analytical Method: EPA 9045								
pH at 25 Degrees C	5.7	Std. Units	0.10	1		11/23/09 11:00		H1

Sample: CONCRETE COMPOSITE **Lab ID: 9257769008** Collected: 11/17/09 12:50 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 11/23/09 16:50								
Chromium	ND	mg/L	0.025	1	11/24/09 13:00	11/24/09 16:53	7440-47-3	
Lead	ND	mg/L	0.025	1	11/24/09 13:00	11/24/09 16:53	7439-92-1	
Zinc	178	mg/L	2.5	50	11/24/09 13:00	11/25/09 11:49	7440-66-6	

ANALYTICAL RESULTS

Project: MERCHANT METALS

Pace Project No.: 9257769

Sample: B-1 4' **Lab ID: 9257769009** Collected: 11/17/09 11:15 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	2.1	mg/kg	0.093	1	12/10/09 13:20	12/11/09 14:16	7440-43-9	
Chromium	20.0	mg/kg	0.46	1	12/10/09 13:20	12/11/09 14:16	7440-47-3	
Lead	24.5	mg/kg	0.46	1	12/10/09 13:20	12/11/09 14:16	7439-92-1	
Zinc	6980	mg/kg	18.6	20	12/10/09 13:20	12/11/09 15:27	7440-66-6	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	20.8	%	0.10	1		12/08/09 13:41		
9045 pH Soil Analytical Method: EPA 9045								
pH at 25 Degrees C	3.2	Std. Units	0.10	1		12/10/09 10:47		H1

Sample: B-2 4' **Lab ID: 9257769010** Collected: 11/17/09 11:30 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	2.3	mg/kg	0.087	1	12/10/09 13:20	12/11/09 14:27	7440-43-9	
Chromium	27.4	mg/kg	0.44	1	12/10/09 13:20	12/11/09 14:27	7440-47-3	
Lead	18.4	mg/kg	0.44	1	12/10/09 13:20	12/11/09 14:27	7439-92-1	
Zinc	3550	mg/kg	17.5	20	12/10/09 13:20	12/11/09 15:35	7440-66-6	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	29.4	%	0.10	1		12/08/09 13:42		
9045 pH Soil Analytical Method: EPA 9045								
pH at 25 Degrees C	3.7	Std. Units	0.10	1		12/10/09 10:47		H1

Sample: B-3 4' **Lab ID: 9257769011** Collected: 11/17/09 11:45 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	4.2	mg/kg	0.090	1	12/10/09 13:20	12/11/09 14:37	7440-43-9	
Chromium	33.9	mg/kg	0.45	1	12/10/09 13:20	12/11/09 14:37	7440-47-3	
Lead	30.5	mg/kg	0.45	1	12/10/09 13:20	12/11/09 14:37	7439-92-1	
Zinc	8480	mg/kg	45.2	50	12/10/09 13:20	12/14/09 12:41	7440-66-6	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	19.9	%	0.10	1		12/08/09 13:42		

ANALYTICAL RESULTS

Project: MERCHANT METALS

Pace Project No.: 9257769

Sample: B-3 4' **Lab ID: 9257769011** Collected: 11/17/09 11:45 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9045 pH Soil Analytical Method: EPA 9045								
pH at 25 Degrees C	2.9	Std. Units	0.10	1		12/10/09 10:47		H1

Sample: B-4 4' **Lab ID: 9257769012** Collected: 11/17/09 12:05 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	2.1	mg/kg	0.081	1	12/10/09 13:20	12/11/09 14:43	7440-43-9	
Chromium	16.4	mg/kg	0.40	1	12/10/09 13:20	12/11/09 14:43	7440-47-3	
Lead	27.9	mg/kg	0.40	1	12/10/09 13:20	12/11/09 14:43	7439-92-1	
Zinc	6280	mg/kg	40.5	50	12/10/09 13:20	12/14/09 12:45	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **22.8** % 0.10 1 12/08/09 13:42

9045 pH Soil Analytical Method: EPA 9045

pH at 25 Degrees C **3.8** Std. Units 0.10 1 12/10/09 10:47 H1

Sample: B-5 4' **Lab ID: 9257769013** Collected: 11/17/09 12:20 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	2.6	mg/kg	0.12	1	12/10/09 13:20	12/11/09 14:48	7440-43-9	
Chromium	26.2	mg/kg	0.62	1	12/10/09 13:20	12/11/09 14:48	7440-47-3	
Lead	37.3	mg/kg	0.62	1	12/10/09 13:20	12/11/09 14:48	7439-92-1	
Zinc	10200	mg/kg	61.7	50	12/10/09 13:20	12/14/09 12:48	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **22.1** % 0.10 1 12/08/09 13:42

9045 pH Soil Analytical Method: EPA 9045

pH at 25 Degrees C **3.4** Std. Units 0.10 1 12/10/09 10:47 H1

ANALYTICAL RESULTS

Project: MERCHANT METALS

Pace Project No.: 9257769

Sample: B-6 4' **Lab ID: 9257769014** Collected: 11/17/09 12:40 Received: 11/18/09 09:00 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Cadmium	2.0	mg/kg	0.11	1	12/10/09 13:20	12/11/09 15:04	7440-43-9	
Chromium	23.5	mg/kg	0.55	1	12/10/09 13:20	12/11/09 15:04	7440-47-3	
Lead	28.4	mg/kg	0.55	1	12/10/09 13:20	12/11/09 15:04	7439-92-1	
Zinc	6690	mg/kg	54.9	50	12/10/09 13:20	12/14/09 12:52	7440-66-6	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	21.5	%	0.10	1		12/08/09 13:43		
9045 pH Soil		Analytical Method: EPA 9045						
pH at 25 Degrees C	3.6	Std. Units	0.10	1		12/10/09 10:47		H1

QUALITY CONTROL DATA

Project: MERCHANT METALS

Pace Project No.: 9257769

QC Batch: MPRP/5407 Analysis Method: EPA 6010
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET
 Associated Lab Samples: 9257769001, 9257769002, 9257769003, 9257769004, 9257769005, 9257769006, 9257769007

METHOD BLANK: 368387 Matrix: Solid
 Associated Lab Samples: 9257769001, 9257769002, 9257769003, 9257769004, 9257769005, 9257769006, 9257769007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/kg	ND	0.10	11/19/09 19:13	
Chromium	mg/kg	ND	0.50	11/19/09 19:13	
Lead	mg/kg	ND	0.50	11/19/09 19:13	
Zinc	mg/kg	ND	1.0	11/19/09 19:13	

LABORATORY CONTROL SAMPLE: 368388

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	50	44.8	90	80-120	
Chromium	mg/kg	50	45.2	90	80-120	
Lead	mg/kg	50	45.2	90	80-120	
Zinc	mg/kg	50	44.9	90	80-120	

MATRIX SPIKE SAMPLE: 368389

Parameter	Units	9257504007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	0.40	41.1	28.9	69	75-125	M0
Chromium	mg/kg	6.8	41.1	37.6	75	75-125	
Lead	mg/kg	7.0	41.1	36.2	71	75-125	M0
Zinc	mg/kg	35.7	41.1	68.6	80	75-125	

SAMPLE DUPLICATE: 368390

Parameter	Units	9257504008 Result	Dup Result	RPD	Qualifiers
Cadmium	mg/kg		0.18		R1
Chromium	mg/kg		4.7		
Lead	mg/kg		5.7		
Zinc	mg/kg		27.0		

QUALITY CONTROL DATA

Project: MERCHANT METALS

Pace Project No.: 9257769

QC Batch: MPRP/5515 Analysis Method: EPA 6010
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET
 Associated Lab Samples: 9257769009, 9257769010, 9257769011, 9257769012, 9257769013, 9257769014

METHOD BLANK: 377342 Matrix: Solid
 Associated Lab Samples: 9257769009, 9257769010, 9257769011, 9257769012, 9257769013, 9257769014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/kg	ND	0.10	12/11/09 14:09	
Chromium	mg/kg	ND	0.50	12/11/09 14:09	
Lead	mg/kg	ND	0.50	12/11/09 14:09	
Zinc	mg/kg	ND	1.0	12/11/09 14:09	

LABORATORY CONTROL SAMPLE: 377343

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	50	48.3	97	80-120	
Chromium	mg/kg	50	47.8	96	80-120	
Lead	mg/kg	50	48.6	97	80-120	
Zinc	mg/kg	50	50.1	100	80-120	

MATRIX SPIKE SAMPLE: 377344

Parameter	Units	9257769009 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	2.1	49.3	41.1	79	75-125	
Chromium	mg/kg	20.0	49.3	61.9	85	75-125	
Lead	mg/kg	24.5	49.3	62.6	77	75-125	
Zinc	mg/kg	6980	49.3	6820	-311	75-125 M0	

SAMPLE DUPLICATE: 377345

Parameter	Units	9257769010 Result	Dup Result	RPD	Qualifiers
Cadmium	mg/kg	2.3	1.9	18	
Chromium	mg/kg	27.4	25.6	7	
Lead	mg/kg	18.4	17.7	4	
Zinc	mg/kg	3550	3310	7	

QUALITY CONTROL DATA

Project: MERCHANT METALS

Pace Project No.: 9257769

QC Batch: MPRP/5439	Analysis Method: EPA 6010
QC Batch Method: EPA 3010	Analysis Description: 6010 MET TCLP
Associated Lab Samples: 9257769008	

METHOD BLANK: 370861 Matrix: Water

Associated Lab Samples: 9257769008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/L	ND	0.025	11/24/09 16:46	
Lead	mg/L	ND	0.025	11/24/09 16:46	
Zinc	mg/L	ND	0.050	11/24/09 16:46	

LABORATORY CONTROL SAMPLE: 370862

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/L	2.5	2.5	100	80-120	
Lead	mg/L	2.5	2.3	93	80-120	
Zinc	mg/L	2.5	2.6	105	80-120	

MATRIX SPIKE SAMPLE: 370864

Parameter	Units	9257625001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	mg/L	ND	5	4.7	94	75-125	
Lead	mg/L	ND	5	4.3	86	75-125	
Zinc	mg/L	1.4	5	6.0	93	75-125	

SAMPLE DUPLICATE: 370863

Parameter	Units	9257769008 Result	Dup Result	RPD	Qualifiers
Chromium	mg/L	ND	0.043		
Lead	mg/L	ND	ND		
Zinc	mg/L	178	172	3	

QUALITY CONTROL DATA

Project: MERCHANT METALS

Pace Project No.: 9257769

QC Batch: PMST/2889

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 9257769001, 9257769002, 9257769003, 9257769004, 9257769005, 9257769006, 9257769007

SAMPLE DUPLICATE: 368346

Parameter	Units	9257769001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	26.8	27.1	1	

SAMPLE DUPLICATE: 368347

Parameter	Units	9257760001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	82.6	82.8	0	

QUALITY CONTROL DATA

Project: MERCHANT METALS

Pace Project No.: 9257769

QC Batch: PMST/2921

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 9257769009, 9257769010, 9257769011, 9257769012, 9257769013, 9257769014

SAMPLE DUPLICATE: 375940

Parameter	Units	9257769009 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	20.8	20.1	3	

SAMPLE DUPLICATE: 375941

Parameter	Units	9258912001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.1	14.6	4	

QUALITY CONTROL DATA

Project: MERCHANT METALS

Pace Project No.: 9257769

QC Batch: WET/10566

Analysis Method: EPA 9045

QC Batch Method: EPA 9045

Analysis Description: 9045 pH

Associated Lab Samples: 9257769001, 9257769002, 9257769003, 9257769004, 9257769005, 9257769006, 9257769007

SAMPLE DUPLICATE: 370190

Parameter	Units	9257365001 Result	Dup Result	RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.7	7.7	0	

QUALIFIERS

Project: MERCHANT METALS

Pace Project No.: 9257769

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

H1 Analysis conducted outside the EPA method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

May 04, 2010

Mr. Chris Kelly
Terracon
2020 Starita Rd
Charlotte, NC

RE: Project: MMI 71097797
Pace Project No.: 9261807

Dear Mr. Kelly:

Enclosed are the analytical results for sample(s) received by the laboratory on January 22, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

cc: Mr. Chris Corbitt, Terracon

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: MMI 71097797

Pace Project No.: 9261807

Charlotte Certification IDs

Kentucky UST Certification #: 84

Florida/NELAP Certification #: E87627

Louisiana/LELAP Certification #: 04034

New Jersey Certification #: NC012

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

Pennsylvania Certification #: 68-00784

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Tennessee Certification #: 04010

Virginia Certification #: 00213

West Virginia Certification #: 357

9800 Kincey Ave. - Ste 100 Huntersville, NC 28078

Connecticut Certification #: PH-0104

Asheville Certification IDs

2225 Riverside Dr. Asheville, NC 28804

Connecticut Certification #: PH-0106

Louisiana/LELAP Certification #: 03095

Massachusetts Certification #: M-NC030

New Jersey Certification #: NC011

North Carolina Bioassay Certification #: 9

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

Pennsylvania Certification #: 68-03578

South Carolina Bioassay Certification #: 9903002

South Carolina Certification #: 9903001

Tennessee Certification #: 2980

Virginia Certification #: 00072

West Virginia Certification #: 356

Florida/NELAP Certification #: E87648

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MMI 71097797
Pace Project No.: 9261807

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9261807001	BACKGROUND 2	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807002	BACKGROUND 3	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807003	BACKGROUND 4	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807004	BACKGROUND 5	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807005	B-1A 9-10	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807006	B-1A 26-27	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807007	B-4A 6-7	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807008	B-4A 15-16	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807009	B-4A 19-20	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807010	B-5A 15-16	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807011	B-5A 25-26	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807012	B-7 6-7	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807013	B-8 9-10	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807014	B-9 14-15	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807015	B-10 9-10	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807016	B-11 9-10	EPA 6010	EWS	3	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807017	B-12 14-15	EPA 6010	EWS	3	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807018	B-13 9-10	EPA 6010	EWS	4	PASI-A
		ASTM D2974-87	TNM	1	PASI-C
9261807019	B-14 6-7	EPA 6010	EWS	4	PASI-A

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MMI 71097797
Pace Project No.: 9261807

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974-87	TNM	1	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MMI 71097797

Pace Project No.: 9261807

Sample: BACKGROUND 2 **Lab ID: 9261807001** Collected: 01/20/10 09:30 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Cadmium	2.9	mg/kg	0.099	1	01/27/10 11:37	01/27/10 15:32	7440-43-9	
Chromium	14.4	mg/kg	0.50	1	01/27/10 11:37	01/27/10 15:32	7440-47-3	
Lead	13.0	mg/kg	0.50	1	01/27/10 11:37	01/27/10 15:32	7439-92-1	
Zinc	40.2	mg/kg	0.99	1	01/27/10 11:37	01/27/10 15:32	7440-66-6	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	22.6	%	0.10	1		01/25/10 08:17		

Sample: BACKGROUND 3 **Lab ID: 9261807002** Collected: 01/20/10 09:41 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Cadmium	0.73	mg/kg	0.12	1	01/27/10 11:37	01/27/10 15:37	7440-43-9	
Chromium	11.7	mg/kg	0.58	1	01/27/10 11:37	01/27/10 15:37	7440-47-3	
Lead	14.7	mg/kg	0.58	1	01/27/10 11:37	01/27/10 15:37	7439-92-1	
Zinc	32.3	mg/kg	1.2	1	01/27/10 11:37	01/27/10 15:37	7440-66-6	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	20.9	%	0.10	1		01/25/10 08:18		

Sample: BACKGROUND 4 **Lab ID: 9261807003** Collected: 01/20/10 09:50 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Cadmium	ND	mg/kg	0.54	5	01/27/10 11:37	01/28/10 10:58	7440-43-9	D3
Chromium	20.3	mg/kg	2.7	5	01/27/10 11:37	01/28/10 10:58	7440-47-3	D3
Lead	13.2	mg/kg	2.7	5	01/27/10 11:37	01/28/10 10:58	7439-92-1	D3
Zinc	107	mg/kg	5.4	5	01/27/10 11:37	01/28/10 10:58	7440-66-6	D3
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	23.9	%	0.10	1		01/25/10 08:18		

ANALYTICAL RESULTS

Project: MMI 71097797

Pace Project No.: 9261807

Sample: BACKGROUND 5 **Lab ID: 9261807004** Collected: 01/20/10 11:12 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	0.98	mg/kg	0.13	1	01/27/10 11:37	01/27/10 15:47	7440-43-9	
Chromium	11.7	mg/kg	0.63	1	01/27/10 11:37	01/27/10 15:47	7440-47-3	
Lead	13.3	mg/kg	0.63	1	01/27/10 11:37	01/27/10 15:47	7439-92-1	
Zinc	26.8	mg/kg	1.3	1	01/27/10 11:37	01/27/10 15:47	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **22.8 %** 0.10 1 01/25/10 08:19

Sample: B-1A 9-10 **Lab ID: 9261807005** Collected: 01/20/10 10:39 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	1.4	mg/kg	0.077	1	01/27/10 11:37	01/27/10 15:52	7440-43-9	
Chromium	10.2	mg/kg	0.38	1	01/27/10 11:37	01/27/10 15:52	7440-47-3	
Lead	29.3	mg/kg	0.38	1	01/27/10 11:37	01/27/10 15:52	7439-92-1	
Zinc	6830	mg/kg	38.5	50	01/27/10 11:37	01/28/10 12:10	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **20.8 %** 0.10 1 01/25/10 08:19

Sample: B-1A 26-27 **Lab ID: 9261807006** Collected: 01/20/10 14:09 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	ND	mg/kg	0.40	5	01/27/10 11:37	01/28/10 11:02	7440-43-9	D3
Chromium	9.3	mg/kg	2.0	5	01/27/10 11:37	01/28/10 11:02	7440-47-3	D3
Lead	13.7	mg/kg	2.0	5	01/27/10 11:37	01/28/10 11:02	7439-92-1	D3
Zinc	2120	mg/kg	4.0	5	01/27/10 11:37	01/28/10 11:02	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **19.0 %** 0.10 1 01/25/10 08:19

ANALYTICAL RESULTS

Project: MMI 71097797

Pace Project No.: 9261807

Sample: B-4A 6-7 **Lab ID: 9261807007** Collected: 01/20/10 12:48 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	3.3	mg/kg	0.066	1	01/27/10 11:37	01/27/10 16:03	7440-43-9	
Chromium	17.3	mg/kg	0.33	1	01/27/10 11:37	01/27/10 16:03	7440-47-3	
Lead	32.7	mg/kg	0.33	1	01/27/10 11:37	01/27/10 16:03	7439-92-1	
Zinc	9590	mg/kg	33.1	50	01/27/10 11:37	01/28/10 12:18	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **20.4** % 0.10 1 01/25/10 08:19

Sample: B-4A 15-16 **Lab ID: 9261807008** Collected: 01/20/10 12:09 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	2.5	mg/kg	0.089	1	01/27/10 11:37	01/27/10 16:09	7440-43-9	
Chromium	18.5	mg/kg	0.45	1	01/27/10 11:37	01/27/10 16:09	7440-47-3	
Lead	33.9	mg/kg	0.45	1	01/27/10 11:37	01/27/10 16:09	7439-92-1	
Zinc	10300	mg/kg	44.6	50	01/27/10 11:37	01/28/10 12:21	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **22.1** % 0.10 1 01/25/10 08:19

Sample: B-4A 19-20 **Lab ID: 9261807009** Collected: 01/20/10 12:11 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	ND	mg/kg	0.37	5	01/27/10 11:37	01/28/10 11:07	7440-43-9	D3
Chromium	16.2	mg/kg	1.9	5	01/27/10 11:37	01/28/10 11:07	7440-47-3	D3
Lead	15.3	mg/kg	1.9	5	01/27/10 11:37	01/28/10 11:07	7439-92-1	D3
Zinc	65.9	mg/kg	3.7	5	01/27/10 11:37	01/28/10 11:07	7440-66-6	D3

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **24.1** % 0.10 1 01/25/10 08:19

ANALYTICAL RESULTS

Project: MMI 71097797

Pace Project No.: 9261807

Sample: B-5A 15-16 **Lab ID: 9261807010** Collected: 01/20/10 12:23 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	1.8	mg/kg	0.078	1	01/27/10 11:37	01/27/10 16:31	7440-43-9	
Chromium	16.6	mg/kg	0.39	1	01/27/10 11:37	01/27/10 16:31	7440-47-3	
Lead	18.1	mg/kg	0.39	1	01/27/10 11:37	01/27/10 16:31	7439-92-1	
Zinc	8080	mg/kg	39.2	50	01/27/10 11:37	01/28/10 12:25	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **20.3 %** 0.10 1 01/25/10 08:20

Sample: B-5A 25-26 **Lab ID: 9261807011** Collected: 01/20/10 14:29 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	ND	mg/kg	0.068	1	01/27/10 11:37	01/27/10 16:37	7440-43-9	
Chromium	2.0	mg/kg	0.34	1	01/27/10 11:37	01/27/10 16:37	7440-47-3	
Lead	5.3	mg/kg	0.34	1	01/27/10 11:37	01/27/10 16:37	7439-92-1	
Zinc	3500	mg/kg	33.8	50	01/27/10 11:37	01/28/10 12:40	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **8.8 %** 0.10 1 01/25/10 08:20

Sample: B-7 6-7 **Lab ID: 9261807012** Collected: 01/20/10 11:28 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	1.8	mg/kg	0.096	1	01/27/10 11:37	01/27/10 16:42	7440-43-9	
Chromium	22.0	mg/kg	0.48	1	01/27/10 11:37	01/27/10 16:42	7440-47-3	
Lead	21.2	mg/kg	0.48	1	01/27/10 11:37	01/27/10 16:42	7439-92-1	
Zinc	5930	mg/kg	47.9	50	01/27/10 11:37	01/28/10 12:43	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **18.4 %** 0.10 1 01/25/10 08:20

ANALYTICAL RESULTS

Project: MMI 71097797

Pace Project No.: 9261807

Sample: B-8 9-10 **Lab ID: 9261807013** Collected: 01/20/10 15:19 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	2.6	mg/kg	0.077	1	01/27/10 11:37	01/27/10 16:47	7440-43-9	
Chromium	17.8	mg/kg	0.38	1	01/27/10 11:37	01/27/10 16:47	7440-47-3	
Lead	13.9	mg/kg	0.38	1	01/27/10 11:37	01/27/10 16:47	7439-92-1	
Zinc	3630	mg/kg	38.3	50	01/27/10 11:37	01/28/10 12:47	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **22.3 %** 0.10 1 01/25/10 08:20

Sample: B-9 14-15 **Lab ID: 9261807014** Collected: 01/20/10 16:15 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	3.6	mg/kg	0.089	1	01/27/10 11:37	01/27/10 16:53	7440-43-9	
Chromium	16.4	mg/kg	0.44	1	01/27/10 11:37	01/27/10 16:53	7440-47-3	
Lead	33.3	mg/kg	0.44	1	01/27/10 11:37	01/27/10 16:53	7439-92-1	
Zinc	7160	mg/kg	44.3	50	01/27/10 11:37	01/28/10 12:51	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **22.8 %** 0.10 1 01/25/10 08:21

Sample: B-10 9-10 **Lab ID: 9261807015** Collected: 01/20/10 16:45 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	3.0	mg/kg	0.071	1	01/27/10 11:37	01/27/10 16:59	7440-43-9	
Chromium	13.9	mg/kg	0.36	1	01/27/10 11:37	01/27/10 16:59	7440-47-3	
Lead	12.9	mg/kg	0.36	1	01/27/10 11:37	01/27/10 16:59	7439-92-1	
Zinc	33.4	mg/kg	0.71	1	01/27/10 11:37	01/27/10 16:59	7440-66-6	

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture **24.7 %** 0.10 1 01/25/10 08:21

ANALYTICAL RESULTS

Project: MMI 71097797

Pace Project No.: 9261807

Sample: B-11 9-10 **Lab ID: 9261807016** Collected: 01/21/10 08:54 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Chromium	13.3	mg/kg	2.1	5	01/27/10 13:28	01/29/10 14:31	7440-47-3	
Lead	16.3	mg/kg	2.1	5	01/27/10 13:28	01/29/10 14:31	7439-92-1	
Zinc	1380	mg/kg	4.2	5	01/27/10 13:28	01/29/10 14:31	7440-66-6	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	21.5	%	0.10	1		01/25/10 08:21		

Sample: B-12 14-15 **Lab ID: 9261807017** Collected: 01/21/10 09:53 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Chromium	21.7	mg/kg	0.51	1	01/27/10 13:28	01/28/10 14:37	7440-47-3	
Lead	32.9	mg/kg	0.51	1	01/27/10 13:28	01/28/10 14:37	7439-92-1	
Zinc	6890	mg/kg	50.6	50	01/27/10 13:28	01/29/10 15:31	7440-66-6	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	21.6	%	0.10	1		01/25/10 08:22		

Sample: B-13 9-10 **Lab ID: 9261807018** Collected: 01/21/10 10:47 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	0.56	mg/kg	0.073	1	01/27/10 13:28	01/28/10 14:47	7440-43-9	
Chromium	9.5	mg/kg	0.37	1	01/27/10 13:28	01/28/10 14:47	7440-47-3	
Lead	7.1	mg/kg	0.37	1	01/27/10 13:28	01/28/10 14:47	7439-92-1	
Zinc	14.4	mg/kg	0.73	1	01/27/10 13:28	01/28/10 14:47	7440-66-6	
Percent Moisture Analytical Method: ASTM D2974-87								
Percent Moisture	12.6	%	0.10	1		01/25/10 08:22		

Sample: B-14 6-7 **Lab ID: 9261807019** Collected: 01/21/10 11:16 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Cadmium	2.0	mg/kg	0.089	1	01/27/10 13:28	01/28/10 14:52	7440-43-9	
Chromium	13.9	mg/kg	0.44	1	01/27/10 13:28	01/28/10 14:52	7440-47-3	

ANALYTICAL RESULTS

Project: MMI 71097797

Pace Project No.: 9261807

Sample: B-14 6-7 **Lab ID: 9261807019** Collected: 01/21/10 11:16 Received: 01/22/10 08:30 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Lead	35.6	mg/kg	0.44	1	01/27/10 13:28	01/28/10 14:52	7439-92-1	
Zinc	7460	mg/kg	44.5	50	01/27/10 13:28	01/29/10 15:39	7440-66-6	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	20.8	%	0.10	1		01/25/10 08:22		

QUALITY CONTROL DATA

Project: MMI 71097797

Pace Project No.: 9261807

QC Batch: MPRP/5735 Analysis Method: EPA 6010
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET
 Associated Lab Samples: 9261807001, 9261807002, 9261807003, 9261807004, 9261807005, 9261807006, 9261807007, 9261807008, 9261807009, 9261807010, 9261807011, 9261807012, 9261807013, 9261807014, 9261807015

METHOD BLANK: 395026 Matrix: Solid
 Associated Lab Samples: 9261807001, 9261807002, 9261807003, 9261807004, 9261807005, 9261807006, 9261807007, 9261807008, 9261807009, 9261807010, 9261807011, 9261807012, 9261807013, 9261807014, 9261807015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/kg	ND	0.10	01/27/10 14:42	
Chromium	mg/kg	ND	0.50	01/27/10 14:42	
Lead	mg/kg	ND	0.50	01/27/10 14:42	
Zinc	mg/kg	ND	1.0	01/27/10 14:42	

LABORATORY CONTROL SAMPLE: 395027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	50	48.7	97	80-120	
Chromium	mg/kg	50	48.5	97	80-120	
Lead	mg/kg	50	49.3	99	80-120	
Zinc	mg/kg	50	49.0	98	80-120	

MATRIX SPIKE SAMPLE: 395028

Parameter	Units	9261714001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	ND	37.3	34.3	92	75-125	
Chromium	mg/kg	32.7 ug/g	37.3	66.6	91	75-125	
Lead	mg/kg	2.10 ug/g	37.3	35.7	90	75-125	
Zinc	mg/kg	31.5 ug/g	37.3	63.7	86	75-125	

SAMPLE DUPLICATE: 395029

Parameter	Units	9261714002 Result	Dup Result	RPD	Qualifiers
Cadmium	mg/kg	ND	ND		
Chromium	mg/kg	34.1 ug/g	32.8	4	
Lead	mg/kg	1.93 ug/g	2.0	4	
Zinc	mg/kg	32.7 ug/g	30.9	5	

QUALITY CONTROL DATA

Project: MMI 71097797

Pace Project No.: 9261807

QC Batch: MPRP/5741 Analysis Method: EPA 6010
 QC Batch Method: EPA 3050 Analysis Description: 6010 MET
 Associated Lab Samples: 9261807016, 9261807017, 9261807018, 9261807019

METHOD BLANK: 395310 Matrix: Solid

Associated Lab Samples: 9261807016, 9261807017, 9261807018, 9261807019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/kg	ND	0.10	01/28/10 14:20	
Chromium	mg/kg	ND	0.50	01/28/10 14:20	
Lead	mg/kg	ND	0.50	01/28/10 14:20	
Zinc	mg/kg	ND	1.0	01/28/10 14:20	

LABORATORY CONTROL SAMPLE: 395311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	50	48.3	97	80-120	
Chromium	mg/kg	50	48.0	96	80-120	
Lead	mg/kg	50	47.9	96	80-120	
Zinc	mg/kg	50	48.7	97	80-120	

MATRIX SPIKE SAMPLE: 395312

Parameter	Units	9261807016 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	ND	53.1	45.7	86	75-125	
Chromium	mg/kg	13.3	53.1	58.9	86	75-125	
Lead	mg/kg	16.3	53.1	64.2	90	75-125	
Zinc	mg/kg	1380	53.1	1660	523	75-125 M0	

SAMPLE DUPLICATE: 395313

Parameter	Units	9261807017 Result	Dup Result	RPD	Qualifiers
Cadmium	mg/kg	2.1	1.8	14	
Chromium	mg/kg	21.7	13.6	46 R1	
Lead	mg/kg	32.9	29.0	13	
Zinc	mg/kg	6890	6720	2	

QUALIFIERS

Project: MMI 71097797
Pace Project No.: 9261807

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

May 03, 2010

Mr. Chris Kelly
Terracon
2020 Starita Rd
Charlotte, NC

RE: Project: MMI STATESVILLE 71097797
Pace Project No.: 9264215

Dear Mr. Kelly:

Enclosed are the analytical results for sample(s) received by the laboratory on February 26, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kevin Herring

kevin.herring@pacelabs.com
Project Manager

Enclosures

cc: Mr. Chris Corbitt, Terracon

REPORT OF LABORATORY ANALYSIS

Page 1 of 10

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CERTIFICATIONS

Project: MMI STATESVILLE 71097797

Pace Project No.: 9264215

Charlotte Certification IDs

Louisiana/LELAP Certification #: 04034

New Jersey Certification #: NC012

Kentucky UST Certification #: 84

Florida/NELAP Certification #: E87627

Connecticut Certification #: PH-0104

9800 Kinsey Ave. - Ste 100 Huntersville, NC 28078

West Virginia Certification #: 357

Virginia Certification #: 00213

Tennessee Certification #: 04010

South Carolina Drinking Water Cert. #: 99006003

South Carolina Certification #: 99006001

Pennsylvania Certification #: 68-00784

North Carolina Wastewater Certification #: 12

North Carolina Field Services Certification #: 5342

North Carolina Drinking Water Certification #: 37706

Asheville Certification IDs

Connecticut Certification #: PH-0106

2225 Riverside Dr. Asheville, NC 28804

Virginia Certification #: 00072

Tennessee Certification #: 2980

South Carolina Certification #: 9903001

South Carolina Bioassay Certification #: 9903002

Pennsylvania Certification #: 68-03578

North Carolina Wastewater Certification #: 40

North Carolina Drinking Water Certification #: 37712

North Carolina Bioassay Certification #: 9

New Jersey Certification #: NC011

Massachusetts Certification #: M-NC030

Louisiana/LELAP Certification #: 03095

Florida/NELAP Certification #: E87648

West Virginia Certification #: 356

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MMI STATESVILLE 71097797

Pace Project No.: 9264215

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9264215001	B-4A 31-32	EPA 6010	EWS	2	PASI-A
		ASTM D2974-87	KDF	1	PASI-C
9264215002	B-4A 45-46	EPA 6010	EWS	2	PASI-A
		ASTM D2974-87	JEA	1	PASI-C
9264215003	B-7 21-22	EPA 6010	EWS	2	PASI-A
		ASTM D2974-87	JEA	1	PASI-C
9264215004	B-8 19-20	EPA 6010	EWS	2	PASI-A
		ASTM D2974-87	JEA	1	PASI-C
9264215005	B-9 24-25	EPA 6010	EWS	2	PASI-A
		ASTM D2974-87	JEA	1	PASI-C
9264215006	B-11 19-20	EPA 6010	EWS	2	PASI-A
		ASTM D2974-87	JEA	1	PASI-C
9264215007	B-12 19-20	EPA 6010	EWS	2	PASI-A
		ASTM D2974-87	JEA	1	PASI-C
9264215008	B-14 14-15	EPA 6010	EWS	1	PASI-A
		ASTM D2974-87	JEA	1	PASI-C

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: MMI STATESVILLE 71097797

Pace Project No.: 9264215

Sample: B-4A 31-32 **Lab ID: 9264215001** Collected: 01/21/10 11:36 Received: 02/26/10 15:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Cadmium	ND	mg/kg	0.22	2	03/01/10 14:43	03/02/10 15:14	7440-43-9	D3
Zinc	33.3	mg/kg	2.2	2	03/01/10 14:43	03/02/10 15:14	7440-66-6	D3
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	17.0	%	0.10	1		03/03/10 08:04		

Sample: B-4A 45-46 **Lab ID: 9264215002** Collected: 01/21/10 12:02 Received: 02/26/10 15:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Cadmium	0.29	mg/kg	0.086	1	03/01/10 14:43	03/02/10 00:16	7440-43-9	
Zinc	26.0	mg/kg	0.86	1	03/01/10 14:43	03/02/10 00:16	7440-66-6	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	17.2	%	0.10	1		03/01/10 09:06		

Sample: B-7 21-22 **Lab ID: 9264215003** Collected: 01/20/10 14:51 Received: 02/26/10 15:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Cadmium	ND	mg/kg	0.57	5	03/01/10 14:43	03/02/10 17:14	7440-43-9	D3
Zinc	22.5	mg/kg	5.7	5	03/01/10 14:43	03/02/10 17:14	7440-66-6	D3
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	19.8	%	0.10	1		03/01/10 09:07		

Sample: B-8 19-20 **Lab ID: 9264215004** Collected: 01/20/10 15:28 Received: 02/26/10 15:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Cadmium	ND	mg/kg	0.17	2	03/01/10 14:43	03/02/10 16:03	7440-43-9	D3
Zinc	9.3	mg/kg	1.7	2	03/01/10 14:43	03/02/10 16:03	7440-66-6	D3
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	5.4	%	0.10	1		03/01/10 09:07		

ANALYTICAL RESULTS

Project: MMI STATESVILLE 71097797

Pace Project No.: 9264215

Sample: B-9 24-25 **Lab ID: 9264215005** Collected: 01/20/10 16:28 Received: 02/26/10 15:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Cadmium	ND	mg/kg	0.079	1	03/01/10 14:43	03/02/10 00:30	7440-43-9	D3
Zinc	5.6	mg/kg	0.79	1	03/01/10 14:43	03/02/10 00:30	7440-66-6	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	16.6	%	0.10	1		03/01/10 09:07		

Sample: B-11 19-20 **Lab ID: 9264215006** Collected: 01/20/10 09:21 Received: 02/26/10 15:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Cadmium	ND	mg/kg	0.084	1	03/01/10 14:43	03/02/10 00:34	7440-43-9	
Zinc	7.0	mg/kg	0.84	1	03/01/10 14:43	03/02/10 00:34	7440-66-6	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	18.3	%	0.10	1		03/01/10 09:07		

Sample: B-12 19-20 **Lab ID: 9264215007** Collected: 01/21/10 09:58 Received: 02/26/10 15:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Cadmium	1.4	mg/kg	0.12	1	03/01/10 14:43	03/02/10 00:38	7440-43-9	
Zinc	6230	mg/kg	115	100	03/01/10 14:43	03/02/10 17:21	7440-66-6	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	21.1	%	0.10	1		03/01/10 09:07		

Sample: B-14 14-15 **Lab ID: 9264215008** Collected: 01/21/10 11:22 Received: 02/26/10 15:35 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050						
Zinc	32.8	mg/kg	0.69	1	03/04/10 10:48	03/09/10 11:59	7440-66-6	
Percent Moisture		Analytical Method: ASTM D2974-87						
Percent Moisture	22.5	%	0.10	1		03/01/10 09:08		

QUALITY CONTROL DATA

Project: MMI STATESVILLE 71097797

Pace Project No.: 9264215

QC Batch: MPRP/5893

Analysis Method: EPA 6010

QC Batch Method: EPA 3050

Analysis Description: 6010 MET

Associated Lab Samples: 9264215001, 9264215002, 9264215003, 9264215004, 9264215005, 9264215006, 9264215007

METHOD BLANK: 408935

Matrix: Solid

Associated Lab Samples: 9264215001, 9264215002, 9264215003, 9264215004, 9264215005, 9264215006, 9264215007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/kg	ND	0.10	03/01/10 22:32	
Zinc	mg/kg	ND	1.0	03/01/10 22:32	

LABORATORY CONTROL SAMPLE: 408936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	50	42.8	86	80-120	
Zinc	mg/kg	50	43.9	88	80-120	

MATRIX SPIKE SAMPLE: 408937

Parameter	Units	9264093001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	ND	37.9	32.0	85	75-125	
Zinc	mg/kg	11.2 ug/g	37.9	63.3	138	75-125 M0	

SAMPLE DUPLICATE: 408938

Parameter	Units	9264093002 Result	Dup Result	RPD	Qualifiers
Cadmium	mg/kg	ND	ND		
Zinc	mg/kg	4.84 ug/g	4.3	12	

QUALITY CONTROL DATA

Project: MMI STATESVILLE 71097797

Pace Project No.: 9264215

QC Batch: MPRP/5911	Analysis Method: EPA 6010
QC Batch Method: EPA 3050	Analysis Description: 6010 MET
Associated Lab Samples: 9264215008	

METHOD BLANK: 410119 Matrix: Solid
Associated Lab Samples: 9264215008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium	mg/kg	ND	0.10	03/09/10 11:52	
Zinc	mg/kg	ND	1.0	03/09/10 11:52	

LABORATORY CONTROL SAMPLE: 410120

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	50	49.8	100	80-120	
Zinc	mg/kg	50	49.6	99	80-120	

MATRIX SPIKE SAMPLE: 410121

Parameter	Units	9264215008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Cadmium	mg/kg	3.0	47.5	40.9	80	75-125	
Zinc	mg/kg	32.8	47.5	79.6	99	75-125	

SAMPLE DUPLICATE: 410122

Parameter	Units	9264041001 Result	Dup Result	RPD	Qualifiers
Cadmium	mg/kg	0.95	1.3	32	R1
Zinc	mg/kg	317	417	27	R1

QUALITY CONTROL DATA

Project: MMI STATESVILLE 71097797

Pace Project No.: 9264215

QC Batch: PMST/3043

Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 9264215002, 9264215003, 9264215004, 9264215005, 9264215006, 9264215007, 9264215008

SAMPLE DUPLICATE: 408529

Parameter	Units	9264209006 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	15.3	14.5	5	

SAMPLE DUPLICATE: 408530

Parameter	Units	6074430005 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	11.0	10.6	3	

QUALITY CONTROL DATA

Project: MMI STATESVILLE 71097797
Pace Project No.: 9264215

QC Batch:	PMST/3047	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	9264215001		

SAMPLE DUPLICATE: 409537

Parameter	Units	9264303002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	28.1	29.6	5	

SAMPLE DUPLICATE: 409545

Parameter	Units	9263874003 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	32.3	31.8	2	

QUALIFIERS

Project: MMI STATESVILLE 71097797

Pace Project No.: 9264215

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.