FOR CONTRACT No.: 07-266904
PROJECT ID: 0700000501

INFORMATION HANDOUT

AERIALLY LEAD SITE INVESTIGATION REPORT

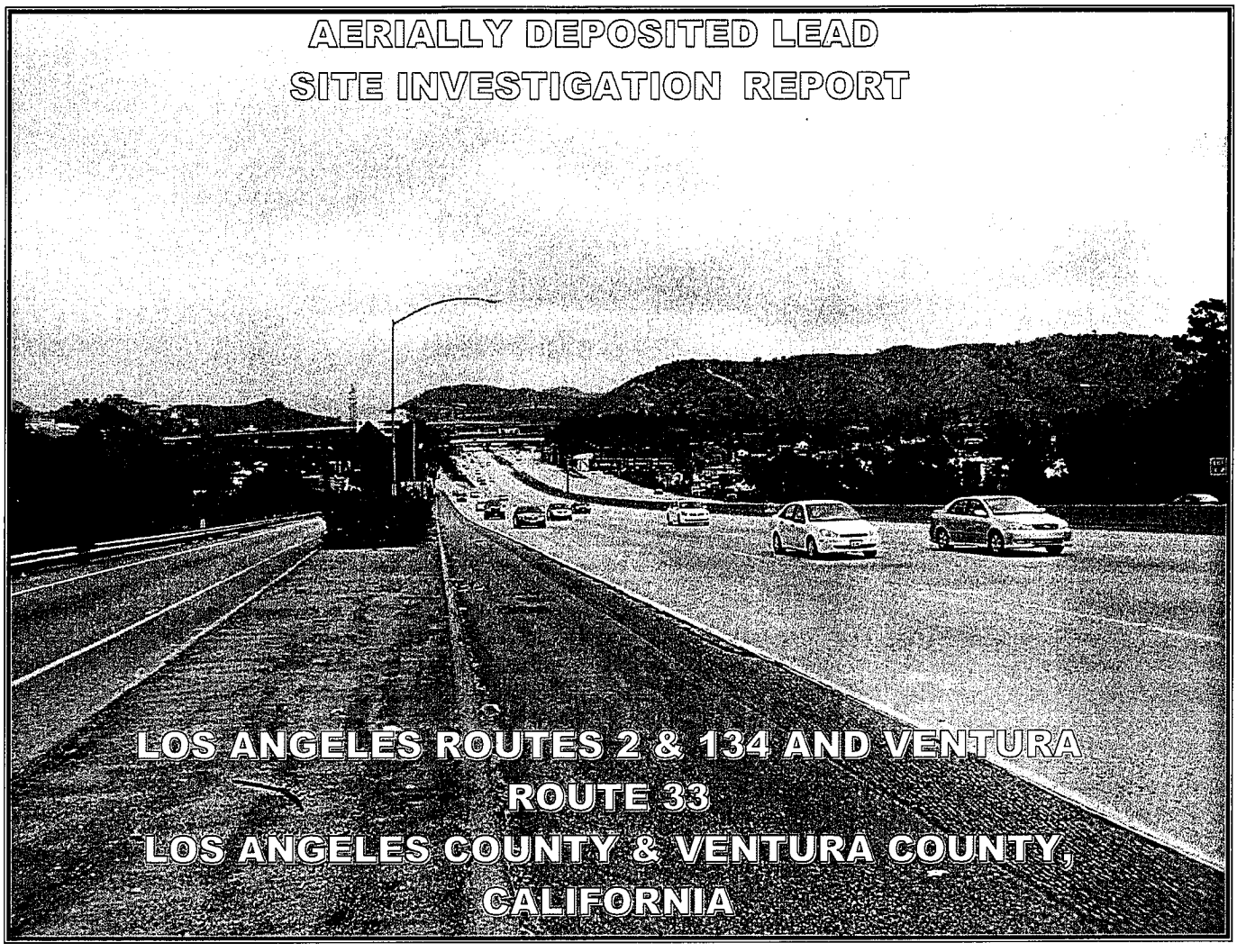
Prepared by
GEOCON CONSULTANTS, INC.
3303 N SAN FERNANDO BLVD., SUITE 100
BURBANK, CALIFORNIA
CALTRANS CONTRACT 07A2729/TASK ORDER NO. 7
LOS ANGELES ROUTES 2 & 134 AND VENTURA ROUTE 33

And
AERIALLY DEPOSITED LEAD STUDY

Prepared by
AESCO TECHNOLOGIES INC.
18548 BEACH BOULEVARD
HUNTINGTON BEACH, CALIFORNIA
CALTRANS CONTRACT 23280K
DISTRICT 7, SOUTH REGION, LOS ANGELES COUNTY

ROUTE: 07-LA, VEN-2, 5, 14, 33, 101, etc.-Various Locations
PROJECT ID: 0700000501

AERIALLY DEPOSITED LEAD SITE INVESTIGATION REPORT



LOS ANGELES ROUTES 2 & 134 AND VENTURA ROUTE 33
LOS ANGELES COUNTY & VENTURA COUNTY, CALIFORNIA

***PREPARED FOR*:**
CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 7
100 SOUTH MAIN STREET
LOS ANGELES, CALIFORNIA

Caltrans

***PREPARED BY*:**
GEOCON CONSULTANTS, INC.
3303 N. SAN FERNANDO BLVD., SUITE 100
BURBANK, CALIFORNIA

GEOCON
CONSULTANTS, INC.

CALTRANS CONTRACT 07A2729
TASK ORDER NO. 7
EA NO. 07-266901
PROJECT NO. 0700000501

GEOCON PROJECT NO. S9475-06-07

June 10, 2011

RECEIVED
JUN 13 2011
BY:

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S9475-06-07
June 10, 2011

Mrs. Saba Tesfayohannes
California Department of Transportation, District 7
Office of Environmental Engineering and Corridor Studies
100 South Main Street, 12-273
Los Angeles, California 90012

Subject: LOS ANGELES ROUTE 2 & 134, AND VENTURA ROUTE 33
LOS ANGELES COUNTY & VENTURA COUNTY, CALIFORNIA
CONTRACT NO. 07A2729, TASK ORDER NO. 7, EA. 266901(0700000501)
AERIALLY DEPOSITED LEAD SITE INVESTIGATION REPORT

Dear Mrs. Tesfayohannes:

In accordance with Caltrans Contract No. 07A2729 and Task Order No. 7 executed on April 8, 2011, Geocon Consultants, Inc. performed an aerially deposited lead investigation at eight gore areas on Los Angeles Route 2, Los Angeles Route 134, and Ventura Route 33 in Los Angeles and Ventura Counties, California. The accompanying report summarizes the services performed, including the advancement of hand-auger borings, soil sampling, laboratory analyses, statistical analyses, and global positioning system data acquisition.

The contents of this report reflect the views of the author, who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

Please contact us if there are questions concerning this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

Mike Akoto
Staff Geologist

Michael P. Conkle, PG
Project Manager

PROFESSIONAL GEOLOGIST
MICHAEL P. CONKLE
No. 7624
Exp. 9/30/12
STATE OF CALIFORNIA

(5/1CD) Addressee

TABLE OF CONTENTS

Page

EXECUTIVE SUMMARY i

1. INTRODUCTION 1
   1.1 Project Description 1
   1.2 Investigation Objective 1

2. BACKGROUND 1
   2.1 Aerially Deposited Lead in Soil 1
   2.2 Hazardous Waste Classification Criteria 2
   2.3 DTSC Variance 3
   2.4 California Human Health Screening Levels 4

3. SCOPE OF SERVICES 4
   3.1 Pre-field Activities 4
   3.2 Field Activities 5
   3.3 GPS Surveying 5
   3.4 Laboratory Analyses 5
   3.5 Report Preparation 5

4. INVESTIGATIVE METHODS 6
   4.1 Soil Sampling 6
   4.2 Equipment Blank Sampling 6
   4.3 Deviations from the Task Order 6

5. FIELD OBSERVATIONS and INVESTIGATIVE RESULTS 7
   5.1 Site Conditions 7
   5.2 Soil Sample Analytical Results 7
   5.3 Data Validation 7

6. DATA EVALUATION 8
   6.1 Statistical Evaluation for Lead 8
      6.1.1 Calculating the UCLs for the Arithmetic Mean 8
      6.1.2 Correlation of Total and WET Lead 9
   6.2 Title 22 Metals 9
   6.3 pH 10

7. CONCLUSIONS AND RECOMMENDATIONS 10
   7.1 Predicted WET Lead Results 10
   7.2 Title 22 Metals 16
   7.3 pH 17
   7.4 Worker Protection 17

8. REPORT LIMITATIONS 18

TABLE OF CONTENTS (Continued)

FIGURES

1A and 1B. Vicinity Maps
2-1 through 2-7. Boring Location Maps

TABLES

1. Boring Coordinates and Summary of Lead and pH Analytical Results
2. Summary of Title 22 Metals Analytical Results
3. Lead Statistical Analysis Results – Location 1
4. Lead Statistical Analysis Results – Location 2
5. Lead Statistical Analysis Results – Location 3
6. Lead Statistical Analysis Results – Location 4
7. Lead Statistical Analysis Results – Location 5
8. Lead Statistical Analysis Results – Location 6
9. Lead Statistical Analysis Results – Location 7
10. Lead Statistical Analysis Results – Location 8

APPENDICES

A. Laboratory Reports and Chain-of-Custody Documentation
B. Lead Statistics, Regression Analysis, and Block Diagrams

EXECUTIVE SUMMARY

Geocon Consultants, Inc. performed an aerially deposited lead (ADL) investigation in exposed soil at eight gore area locations on Los Angeles Route 2 (Route 2), Los Angeles Route 134 (Route 134), and Ventura Route 33 (Route 33) in Los Angeles and Ventura Counties, California. The objective of the investigation was to evaluate soil for the potential presence of hazardous concentrations of lead suspected due to impact from vehicle exhaust emissions when leaded gasoline was used. Caltrans will use information obtained from the investigation to determine soil disposal options and identify health and safety concerns during construction activities at the Sites.

Predicted WET Lead Results

Waste classifications are evaluated based on the 90% UCL of the lead content for the relevant excavation depths; this has historically been considered sufficient to satisfy a good faith effort by the EPA as discussed in SW 846. Risk assessment characterization is based on the 95% UCL of the lead content in the waste for the relevant depths; this is in accordance with the Risk Assessment Guidance for Superfund (RAGS) Volume 1 Documentation for Exposure Assessment. Per Caltrans, the 90% UCLs are to be used to evaluate onsite reuse and the 95% UCLs are to be used to evaluate offsite disposal.

The 90% and 95% UCLs for total lead and predicted Waste Extraction Test (WET) lead concentrations for locations 1 through 8 are summarized in Tables 3 through 10. Waste classifications based on Caltrans Type are discussed below.

Location 1 – Route 33 at Shell Road (Borings 1133-101 to 1133-105)

Based upon the predicted WET lead concentrations, excavated soil from the surface to a depth of 0.5 foot would be classified as a California hazardous waste since the predicted WET lead concentration is greater than the Soluble Threshold Limit Concentration (STLC) of 5.0 mg/l. The top 0.5 foot of the soil is not considered a RCRA hazardous waste based on the Toxicity Characteristic Leaching Procedure (TCLP) lead results. Based on the DI-WET (WET test using deionized water as the extractant) lead and pH results, the top 0.5 foot of the soil may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans. Underlying soil from a depth of 0.5 to 2.0 feet could be reused or disposed as non-hazardous with respect to lead content.

Location 2-Westbound Route 134 on ramp from San Fernando Road (Borings 1133-106 to 1133-110)

Based upon the predicted WET lead concentration, excavated soil from the surface to a of depth 2.0 feet would be classified as California hazardous waste since the predicted WET lead concentrations are greater than the STLC of 5.0 mg/l. The top 2.0 feet of soil is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 2.0 feet of soil may

be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans.

Location 3 – Eastbound Route 134 on ramp from San Rafael Avenue (Borings 1133-111 to 1133-115)

Based upon the predicted WET lead concentrations, excavated soil from the surface to a depth of 0.5 foot would be classified as California hazardous waste since the predicted WET lead concentrations is greater than the STLC of 5.0 mg/l. The top 0.5 foot of the soil is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 0.5 foot of soil may be reused onsite (as Caltrans Type Y-1) by placing the lead impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans. Underlying soil from a depth of 0.5 to 2.0 feet could be reused or disposed as non-hazardous with respect to lead content.

Location 4- Westbound Route 134 on ramp from San Rafael Avenue (Borings 1133-116 to 1133-120)

Based upon the predicted WET lead concentrations, excavated soil from the surface to a depth of 0.5 foot would be classified as California hazardous waste since the predicted WET lead concentration is greater than the STLC of 5.0 mg/l. The top 0.5-foot of soil is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 0.5 foot of soil may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans. Underlying soil from a depth of 0.5 to 2.0 feet could be reused or disposed as non-hazardous with respect to lead content.

Location 5- Southbound Route 2 on ramp from Westbound Route 134 (Borings 1133-121 to 1133-125)

Based on the predicted WET lead concentrations, excavated soil from the surface to a depth of 0.5 foot would be classified as California hazardous waste since the predicted WET lead concentration is greater than the STLC of 5.0 mg/l. The top 0.5 foot is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 0.5 foot of soil may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans. Underlying soil from the a depth of 0.5 to 2.0 feet could be reused or disposed as non-hazardous with respect to lead content.

Soil excavated to a depth of 2.0 feet, and managed as a whole, would be classified as non-hazardous (Caltrans Type X) since the predicted WET lead concentration is less than the lead STLC of 5.0 mg/l.

Location 6- Northbound Route 2 on ramp from York Boulevard (Borings 1133-126 to 1133-130)

Based on the predicted WET lead concentrations, excavated soil from the surface to a depth of 0.5 foot would be classified as California hazardous waste since the predicted WET lead concentration is

greater than the STLC of 5.0 mg/l. The top 0.5 foot is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 0.5 foot of soil may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans. Underlying soil from the a depth of 0.5 to 2.0 feet could be reused or disposed as non-hazardous with respect to lead content.

Location 7- Southbound Route 2 on ramp from Colorado Boulevard (Borings 1133-131 to 1133-135)

Based on the predicted WET lead concentrations, excavated soil from the surface to a depth of 0.5 foot would be classified as California hazardous waste since the predicted WET lead concentration is greater than the STLC of 5.0 mg/l. The top 0.5 foot is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 0.5 foot of soil may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans. Underlying soil from the a depth of 0.5 to 2.0 feet could be reused or disposed as non-hazardous with respect to lead content.

Location 8 – Northbound Route 2 on ramp from Eagle Rock Boulevard (Borings 1133-136 to 1133-140)

Based on the predicted WET lead concentrations, excavated soil from the surface to a depth of 2.0 feet would be classified as California hazardous waste since the predicted WET lead concentration is greater than the STLC of 5.0 mg/l. The top 2.0 feet is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 2.0 feet of soil may be reused onsite (as Caltrans Type Y-2) by placing the lead-impacted soil under a pavement structure maintained by Caltrans.

Title 22 Metals

Analysis of selected soil samples for CCR Title 22 metals did not indicate the presence of heavy metal concentrations (other than lead) at or above their respective TTLCs or 10 times their respective STLCs. The concentrations of metals (other than lead and arsenic) reported in the soil samples were below their respective residential land use California Human Health Screening Levels (CHHSLs). The concentrations of metals (other than lead) in the soil samples were within the reported range of background concentrations for California soils. Based on the reported concentrations, offsite reuse and disposal of excavated soil may be restricted based on lead content.

pH

Analysis of selected soil samples indicate that the pH of the soil ranged from 6.6 to 8.1 and the soil is suitable for reuse under the DTSC Variance. If the soil is to be transported offsite it will not be considered as hazardous based on soil pH.

Worker Protection

Per Caltrans' requirements, contractor(s) should prepare a project-specific Lead Compliance Plan to prevent or minimize worker exposure to lead-impacted soil. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other appropriate health and safety protocols and procedures for the handling of lead-impacted soil.

AERIALLY DEPOSITED LEAD SITE INVESTIGATION REPORT

1. INTRODUCTION

Geocon Consultants, Inc. performed an aerially deposited lead (ADL) site investigation in exposed soil at eight gore area locations on Los Angeles Route 2 (Route 2), Los Angeles Route 134 (Route 134), and Ventura Route 33 (Route 33) in Los Angeles and Ventura Counties, California. The site investigation was performed at the following locations (Sites) as shown on Figures 1A and 1B:

- Location 1 - Route 33 on ramp from Shell Road (Post Mile [PM] 2.712)
- Location 2 - Westbound Route 134 on ramp from San Fernando Road (PM 5.369),
- Location 3 - Eastbound Route 134 on ramp from San Rafael Avenue (PM 12.446),
- Location 4 - Westbound Route 134 on ramp from San Rafael Avenue (PM 12.268),
- Location 5 - Southbound Route 2 on ramp from westbound Route 134 (PM 18.622),
- Location 6 - Northbound Route 2 on ramp from York Boulevard (PM 17.584),
- Location 7 - Southbound Route 2 on ramp from Colorado Boulevard (PM 18.237), and
- Location 8 - Northbound Route 2 on ramp from Eagle Rock Boulevard (PM 16.856).

The investigation was conducted under California Department of Transportation (Caltrans) Contract No. 07A2729, Task Order (TO) No. 7, and Expense Authorization 266901(0700000501). A general description of the project and the investigation objection are summarized below.

1.1 Project Description

Caltrans is currently preparing Plans, Specifications, and Estimates (PS&E) to clean up eight gore area locations where soil will be excavated during construction.

The project includes the removal of HMA (Hot Mix Asphalt) Dike, HMA Island, Concrete Curb, Concrete Island, AC Island, AC Dike, Roadway Excavation and removal of yellow and white thermoplastic traffic stripes.

1.2 Investigation Objective

The objective of the investigation was to evaluate soil at the Sites for the potential presence of hazardous concentrations of lead suspected due to impact from vehicle exhaust emissions when leaded gasoline was used. Caltrans will use information obtained from the investigation to determine soil management options (e.g., disposal or onsite reuse) and identify health and safety concerns during proposed construction activities at the Sites.

2. BACKGROUND

2.1 Aerially Deposited Lead in Soil

Testing by Caltrans throughout the State has shown that ADL exists in soil along major highway routes due to vehicle exhaust containing lead from the combustion of leaded gasoline. The concentration and

distribution of ADL in soil is a function of many variables, but in general, highway age and traffic volume appear to be primary factors.

2.2 Hazardous Waste Classification Criteria

Regulatory criteria to classify a waste as "California hazardous" for handling and disposal purposes are contained in the CCR, Title 22, Division 4.5, Chapter 11, Article 3, §66261.24. Criteria to classify a waste as "Resource, Conservation and Recovery Act (RCRA) hazardous" are contained in Chapter 40 of the Code of Federal Regulations (40 CFR), §261.

For a waste containing metals, the waste is classified as "California hazardous" when: (1) the total metal content exceeds the respective Total Threshold Limit Concentration (TTLC); or (2) the soluble metal content exceeds the respective Soluble Threshold Limit Concentration (STLC) based on the standard Waste Extraction Test (WET). A waste may have the potential of exceeding the STLC when the waste's total metal content is greater than or equal to ten times the respective STLC value, since the WET uses a 1:10 dilution ratio. Hence, when a total metal is detected at a concentration greater than or equal to ten times the respective STLC, and assuming that 100 percent of the total metals are soluble, soluble metal analysis is typically performed. A material is classified as "RCRA hazardous" when the soluble metal content exceeds the Federal Regulatory Level based on the Toxicity Characteristic Leaching Procedure (TCLP). The TTLC value for lead is 1,000 milligrams per kilogram (mg/kg). The STLC and TCLP values for lead are both 5.0 milligrams per liter (mg/l).

The above regulatory criteria are based on toxicity. Wastes may also be classified as hazardous based on other criteria such as ignitability, corrosivity, and reactivity. For the purposes of ADL investigations, toxicity and corrosivity (e.g., chemical concentrations and soil pH values, respectively) are the primary factors considered for waste classification. Waste that is classified as either "California hazardous" or "RCRA hazardous" requires management as a hazardous waste and disposal at an appropriately permitted disposal facility.

The Department of Toxic Substances Control (DTSC) regulates and interprets hazardous waste laws in California. DTSC generally considers excavated or transported materials that exhibit "hazardous waste" characteristics to be a "waste" requiring proper management, treatment and disposal. Soil that contains lead above hazardous waste thresholds and is left in-place would not be necessarily classified by DTSC as a "waste." The DTSC has provided site-specific determinations that "movement of wastes within an area of contamination does not constitute "land disposal" and, thus, does not trigger hazardous waste disposal requirements." Therefore, lead-impacted soil that is scarified in-place, moisture-conditioned, and re-compacted during roadway improvement activities might not be considered a "waste." DTSC should be consulted to confirm waste classification. It is noted that in addition to DTSC regulations, health and safety requirements and other local agency requirements may also apply to the handling and disposal of lead-impacted soil.

2.3 DTSC Variance

Effective July 1, 2009, the DTSC issued a statewide Variance regarding the reuse of ADL-impacted soils within Caltrans right-of-way. According to the Variance, soil classified as a non-RCRA hazardous waste (based primarily on ADL content) may be suitable for reuse within Caltrans right-of-way. ADL-impacted soil classified as a RCRA hazardous waste is not eligible for reuse under the Variance and must be disposed of as a RCRA hazardous waste (Caltrans Type Z-3).

ADL-impacted soil reused under the Variance must always be at least 5 feet above the highest groundwater elevation and, depending on lead concentrations, must be covered with at least one foot of non-hazardous soil or a pavement structure. The ADL-impacted soil may not be placed in areas where it might contact groundwater or surface water (such as streams and rivers), and must be buried in locations that are protected from erosion that may result from storm water run-on and run-off.

Review of the statewide Variance indicates the following conditions regarding the reuse and management of ADL-impacted soil as fill material for construction and maintenance operations. If ADL-impacted soil meets the Variance criteria but is not intended to be reused within Caltrans right-of-way, then the excavated soil must be disposed of as a California hazardous waste (Caltrans Type Z-2). Soil management categories are summarized below:

- **Caltrans Type Y-1:** ADL-impacted soil exhibiting a total lead concentration less than or equal to 1,411 mg/kg, a DI-WET (WET using deionized water as the extractant) soluble lead concentration less than or equal to 1.5 mg/l, and a pH value greater than or equal to 5.5 may be reused within the same Caltrans corridor and must be covered with at least one foot of non-hazardous soil.

- **Caltrans Type Y-2:** ADL-impacted soil exhibiting a total lead concentration less than or equal to 1,411 mg/kg, a DI-WET lead concentration less than or equal to 1.5 mg/l, and a pH value greater than 5 and less than 5.5 may be reused within the same Caltrans corridor and must be covered and protected from infiltration by a pavement structure.

  ADL-impacted soil exhibiting a total lead concentration less than or equal to 1,411 mg/kg, a DI-WET lead concentration greater than 1.5 mg/l and less than or equal to 150 mg/l, and a pH value greater than 5 may be reused within the same Caltrans corridor and must be covered and protected from infiltration by a pavement structure.

  ADL-impacted soil exhibiting a total lead concentration greater than 1,411 mg/kg and less than or equal to 3,397 mg/kg, a DI-WET lead concentration less than or equal to 150 mg/l, and a pH value greater than 5 may be reused within the same Caltrans corridor and must be covered and protected from infiltration by a pavement structure.

- **Caltrans Type Z-2:** ADL-impacted soil exhibiting a total lead concentration greater than 3,397 mg/kg, or a DI-WET lead concentration greater than 150 mg/l, or a pH value less than or equal to 5 is not eligible for reuse under the Variance and must be disposed of as a California hazardous waste. Surplus Type Y-1 and Type Y-2 soil which requires offsite disposal is also classified as Type Z-2.

- **Caltrans Type Z-3:** ADL-impacted soil exhibiting a TCLP lead concentration greater than or equal to 5 mg/l is not eligible for reuse under the Variance and must be disposed of as a RCRA hazardous waste.

2.4 California Human Health Screening Levels

The California Environmental Protection Agency (Cal/EPA) has prepared technical reports entitled *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties* (Cal/EPA, January 2005) and *Revised California Human Health Screening Levels for Lead* (Cal/EPA, September 2009), which present CHHSLs for soil, shallow soil gas, and indoor air to assist in evaluating sites impacted by releases of hazardous chemicals.

The CHHSLs are concentrations of 54 hazardous chemicals that Cal/EPA considers to be below thresholds of concern for risks to human health. The CHHSLs were developed by the Office of Environmental Health Hazard Assessment (OEHHA) on behalf of Cal/EPA. The thresholds of concern used to develop the CHHSLs are an excess lifetime cancer risk of one in a million and a hazard quotient or 1.0 for non-cancer effects. Under most circumstances, the presence of a chemical at concentrations below its respective CHHSL can be assumed to not pose a significant risk. The presence of a chemical at concentrations above a CHHSL does not indicate that adverse impacts to human health are occurring or will occur, but suggests that further evaluation is warranted (Cal/EPA, January 2005).

The following CHHSLs were used for comparison: Table 1 – California Human Health Screening Levels for Soil and Comparison to Other Potential Environmental Concerns (Cal/EPA, January 2005) and Table 3 – Comparison of 2005 CHHSLs to Revised CHHSLs (Cal/EPA, September 2009). The respective CHHSLs are listed at the end of Table 2 for comparative purposes.

3. SCOPE OF SERVICES

We performed the scope of services summarized below as requested by Caltrans in TO No.7.

3.1 Pre-field Activities

- Prepared a Health and Safety Plan (HSP) dated April 2011, to provide guidelines on the use of personal protective equipment and the health and safety procedures to be implemented by Geocon personnel during field activities. The HSP specified the safety procedures for field work, summarized chemical hazard information, and identified site safety officers, emergency contacts, and the locations of emergency medical care facilities.
- Contacted Underground Service Alert (USA) to notify utility companies of the field activities. The USA ticket numbers were A11021052, A11021058, A11021071, A11021078, A11021005, A11021017, A11021113, and A1021130.
- Retained the services of Advanced Technology Laboratories (ATL) of Signal Hill, California, a Caltrans-approved and California-licensed laboratory to perform sample analyses.

3.2 Field Activities

Field activities consisted of collecting 120 soil samples from 40 hand-auger borings advanced at the Sites on April 20, and 21, 2011. As indicated on Figures 2-1 through 2-7, five borings were advanced at approximately equidistant points within each location. Soil samples were collected from each borehole at depth intervals of 0 to 0.5 foot, 0.5 to 1.0 foot, and 1.5 to 2.0 feet. Soil samples were homogenized in the field and stored for subsequent laboratory analysis.

3.3 GPS Surveying

Boring locations were surveyed with a Trimble GeoXT Global Positioning System (GPS) receiver using State Plane 83 coordinates and TerraSync™ software. Boring location latitude/longitude coordinates are provided in Table 1.

3.4 Laboratory Analyses

Sample laboratory analyses were performed by ATL. Copies of laboratory reports and chain-of-custody (COC) documentation are in Appendix A. Based on the sample analyses requested by Caltrans in TO No.7, samples were analyzed as follows:

- 120 soil samples were analyzed for total lead using Environmental Protection Agency (EPA) Test Method 6010.
- Forty-eight soil samples were analyzed for soluble lead by the California Waste Extraction Test (WET) using citrate acid as the extractant.
- Forty-three soil samples that had WET lead concentrations greater than 5.0 mg/l were further analyzed for soluble lead using the WET with de-ionized water as the extractant (DI-WET).
- Thirty-six samples were tested for soluble lead using the Toxicity Characteristic Leaching Procedure (TCLP) to provide characterization data for disposal purposes.
- Eight soil samples were analyzed for Title 22 metals according to Title 22 CCR, EPA Test Method 6010.
- Sixteen soil samples were tested for pH using EPA Test Method 9045.
- Five equipment blank water samples were analyzed for total lead using EPA Test Method 6010.

3.5 Report Preparation

This report was prepared to summarize the objectives, procedures, and results of the ADL investigation activities requested by Caltrans.

4. INVESTIGATIVE METHODS

4.1 Soil Sampling

Soil samples were collected from borings advanced with 3.0-inch-diameter stainless steel hand-augers. Surface vegetation (e.g., native grasses/forbs and landscaping plants) at the boring locations was removed prior to boring/sampling activities. Soil collected from each depth interval was placed into to a new Ziploc® re-sealable plastic bag and the soil was field homogenized within the sample bag. Homogenized soil within the bag was then transferred into a new 4-ounce, laboratory-provided, glass soil jar which was subsequently capped, labeled with the sample date/time and a unique soil sample number, placed in a chilled ice chest, and delivered to the analytical laboratory the same day the sample was collected.
Soil boring numbers were assigned based on a 4-digit unique identification number provided by Caltrans (1133) and a sequential location number (101 through 140). Soil sample numbers were designated by the boring number and the 6-inch depth interval from which the sample was collected (0.0, 1.0, or 2.0). For example, the soil sample designated 1133-104-1.0 was obtained from a depth of approximately 0.5 to 1.0 foot from boring 1133-104.

Quality Assurance/Quality Control (QA/QC) procedures conducted during field activities included decontamination of sampling equipment before each boring was advanced, single use of new re-sealable plastic bags and soil jars, and sample COC documentation. Hand-augers were cleansed between borings by washing the equipment with an Alconox™ tap water solution followed by a tap water rinse and a final rinse with de-ionized water. Sampling activities were conducted under supervision of Geocon's field manager.

The borings were backfilled with surface soil from the immediate vicinity of the boring location. Decontamination water was discharged to the ground surface away from areas potentially associated with surface water bodies or storm drain inlets.

4.2 Equipment Blank Sampling

Five equipment blank samples were collected (one equipment blank sample was collected per chain of custody) to verify proper cleaning of the hand-augers. The equipment blank samples were obtained by collecting de-ionized water passed over the hand-augers into unpreserved, laboratory-provided containers.

4.3 Deviations from the Task Order

The TO served as the work plan for this investigation. Geocon performed the scope of work as generally summarized in the TO without exceptions that would materially affect investigation results.

5. FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

5.1 Site Conditions

Soil conditions encountered at the Sites generally ranged from brown silty sand with gravel and cobbles to clayey coarse sand. Surface and groundwater was not encountered at the boring locations.

5.2 Soil Sample Analytical Results

Soil sample analytical results for total lead, WET lead, DI-WET lead, TCLP lead, and pH analyses are summarized in Table 1. Soil sample analytical results for Title 22 metals are summarized in Table 2. The five equipment blank samples did not contain lead concentrations above the laboratory reporting limit of 0.25 mg/l (those results are not tabulated). Copies of laboratory reports and COC documentation are in Appendix A. The following summarizes the soil sample analytical results:

- **Total lead** was reported for the 120 soil samples at concentrations ranging from 2.4 J to 950 mg/kg.
- **WET lead** was reported for the 48 samples at concentrations ranging from 0.41 to 93 mg/l. WET lead concentrations that exceed the STLC value of 5.0 mg/l were reported for forty-three of the samples.
- **DI-WET lead** was reported for 17 of the 43 samples analyzed at concentrations ranging from 0.23 J to 2.8 mg/l. DI-WET lead was not reported above the laboratory detection limit of 0.21 mg/l for the other twenty-six samples analyzed.
- **TCLP lead** was reported for 32 of the 36 samples analyzed at concentrations ranging from 0.21 J to 2.6 mg/l. TCLP soluble lead was not reported above the laboratory detection limit of 0.21 mg/l for the other 4 samples analyzed.
- **Title 22 metals** beryllium, selenium, silver, and thallium were not detected in the 8 samples analyzed at concentration above their respective laboratory reporting limits. Excluding lead, concentrations of the other reported Title 22 metals were less than ten times their respective STLCs.
- **Soil pH** values in the 16 samples tested ranged from 6.6 to 8.1.

5.3 Data Validation

Geocon and ATL use QA/QC measures to minimize and control errors associated with field and laboratory methods. Field QA/QC measures consist of cleaning sampling equipment between each use with a detergent solution followed by tap and de-ionized water rinses. Based on the equipment blank sample analytical results, it appears that the field investigation was free from potential cross-contamination resulting from inadequate equipment decontamination.

Laboratory QA/QC measures include the use of matrix spikes, duplicates and method blanks, in addition to calculation of percent recovery and relative percentage difference (RPD). A review of the laboratory QA/QC results indicates satisfactory data reporting, and the data are of sufficient quality for the purposes of this report.

6. DATA EVALUATION

6.1 Statistical Evaluation for Lead

The lead data for the Sites were treated as eight separate sample populations (based on geographic location) for statistical evaluation, which consisted of the following groups of soil samples:

- Location 1 – Route 33 on ramp from Shell Road (Borings 1133-101 to 1133-105)
- Location 2 – Westbound Route 134 on ramp from San Fernando Road (Borings 1133-106 to 1133-110)
- Location 3 – Eastbound Route 134 on ramp from San Rafael Avenue (Borings 1133-111 to 1133-115)
- Location 4 – Westbound Route 134 on ramp from San Rafael Avenue (Borings 1133-116 to 1133-120)
- Location 5 – Southbound Route 2 on ramp from westbound Route 134 (Borings 1133-121 to 1133-125)
- Location 6 – Northbound Route 2 on ramp from York Boulevard (Borings 1133-126 to 1133-130)
- Location 7 – Southbound Route 2 on ramp from Colorado Boulevard (Borings 1133-131 to 1133-135)
- Location 8 – Northbound Route 2 on ramp from Eagle Rock Boulevard (Boring 1133-136 to 1133-140)

Statistical methods were applied to the total lead data to evaluate: 1) the upper confidence limits (UCLs) of the arithmetic means of the total lead concentrations for location; and 2) if an acceptable correlation between total and WET lead concentrations exists that would allow the prediction of WET lead concentrations based on calculated UCLs.

6.1.1 Calculating the UCLs for the Arithmetic Mean

The upper one-sided 90% and 95% UCLs of the arithmetic mean are defined as the values that, when calculated repeatedly for randomly drawn subsets of site data, equal or exceed the true mean 90% and 95% of the time, respectively. Statistical confidence limits are the classical tool for addressing uncertainties of a distribution mean. The UCLs of the arithmetic mean concentration are used as the mean concentrations because it is not possible to know the true mean due to the essentially infinite number of soil samples that could be collected from a site. The UCLs therefore account for uncertainties due to limited sampling data. As data become less limited at a site, uncertainties decrease, and the UCLs move closer to the true mean.

Non-parametric bootstrap techniques were used to calculate the UCLs. The bootstrap model results are included in Appendix B.

Due to small sample population of unique values UCLs could not be calculated for the 0.5 to 1.0 foot soil layer at Location 1 (Shell Road) and Location 6 (York Boulevard). At the request of Caltrans, the maximum total lead concentrations reported for the soil layer were used, in lieu of UCLs.

6.1.2 Correlation of Total and WET Lead

Total and corresponding WET lead concentrations are bivariate data with a linear structure. This linear structure should allow for the prediction of WET lead concentrations based on the UCLs calculated above in Section 6.1.1.

To estimate the degree of interrelation between total and corresponding WET lead values (x and y, respectively), the *correlation coefficient [r]* is used. The correlation coefficient is a ratio that ranges from +1 to –1. A *correlation coefficient* of +1 indicates a perfect direct relationship between two variables; a *correlation coefficient* of –1 indicates that one variable changes inversely with relation to the other. Between the two extremes is a spectrum of less-than-perfect relationships, including zero, which indicates the lack of any sort of linear relationship at all. The *correlation coefficient* was calculated for the 48 (x, y) data points (i.e., soil samples analyzed for both total lead [x] and WET lead [y]). The resulting *coefficient of determination* (r^2) equaled 0.8904, which yields a corresponding *correlation coefficient* (r) of 0.9436.

For the *correlation coefficient* that indicates a linear relationship between total and WET lead concentrations, it is possible to compute the line of dependence or a best-fit line between the two variables. A least squares method was used to find the equation of a best-fit line (regression line) by forcing the y-intercept equal to zero since that is a known point. The equation of the regression line was determined to be $y = 0.0868(x)$, where x represents total lead concentrations and y represents predicted WET lead concentrations. This equation was used to estimate the expected WET lead concentrations for the maximums and UCLs calculated in for samples collected from the Site (see Section 6.1.1). Regression analysis results and a scatter plot depicting the (x, y) data points along with the regression line are included in Appendix B.

The calculated total lead UCLs and predicted WET lead concentrations for locations 1 through 8 are summarized in Tables 3 through 10.

6.2 Title 22 Metals

Analysis of selected soil samples for CCR Title 22 metals did not indicate the presence of metals (other than lead) at or above their respective TTLCs or 10 times their respective STLCs. The concentrations of metals, other than lead, and arsenic reported in the soil samples were below their respective CHHSLs for residential and industrial land use.

Arsenic was detected in one of the soil samples at a concentration of 4.1 mg/kg. This result is greater than the residential/and industrial use soil CHHSLs for arsenic of 0.07 and 0.24 mg/kg, respectively.

Arsenic is a naturally occurring element; therefore the concentrations reported at the sites are compared to regional background concentrations. The March 2008 DTSC publication *Determination of a Southern California Regional Background Arsenic Concentration in Soil* establishes a regional background for arsenic within Southern California including Los Angeles County using naturally occurring and anthropogenic concentrations of arsenic. The report finds that the upper-bound background concentration for arsenic within Los Angeles County is 12 mg/kg. None of the detected arsenic concentrations exceeded 12 mg/kg, and therefore, the arsenic concentrations are considered to be consistent with background concentrations of arsenic in Los Angeles County.

Reported metals concentrations were compared with published background levels typically present in California soils as presented in *Background Concentrations of Trace and Major Elements in California Soils* (Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996). Concentrations of metals, other than lead, reported in soil at the Sites are within the published background ranges.

6.3 pH

Soil with a pH of less than 5.0 is not acceptable for reuse under the DTSC Variance. Analysis of selected soil samples indicate that the pH of the soil ranged from 6.6 to 8.1 and the soil is suitable for reuse under the DTSC Variance.

Soil with a pH less than 2.0 or greater than 12.5 is classified as a hazardous waste. Based on the reported soil pH, if the soil is to be transported offsite, it will not be considered as hazardous based on soil pH.

7. CONCLUSIONS AND RECOMMENDATIONS

7.1 Predicted WET Lead Results

Waste classifications are evaluated based on the 90% UCL of the lead content for the relevant excavation depths; this has historically been considered sufficient to satisfy a good faith effort by the EPA as discussed in SW 846. Risk assessment characterization is based on the 95% UCL of the lead content in the waste for the relevant depths; this is in accordance with the Risk Assessment Guidance for Superfund (RAGS) Volume 1 Documentation for Exposure Assessment. Per Caltrans, the 90% UCLs are to be used to evaluate onsite reuse and the 95% UCLs are to be used to evaluate offsite disposal.

The 90% and 95% UCLs for total lead and predicted WET lead concentrations for Locations 1 through 8 are summarized in Table 3 through 10. Waste classifications based on Caltrans Type are discussed below.

Location 1 – Route 33 at Shell Road (Borings 1133-101 to 1133-105)

The total and predicted WET lead calculations for the Shell Road are summarized in Table 3. Weighted averages are calculated by using the total lead concentration for each 0.5 foot depth interval as the value for the underlying 0.5-foot depth interval. Due to the small population of unique values, total UCLs could not be calculated for the 0.5 to 1.0 foot interval so the maximum total lead concentration was used for that depth interval. Excavation scenarios by layer are presented below. Block diagrams are presented in Appendix B.

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		Classification	
	90% UCL/MAX	95% UCL/MAX	90% UCL/MAX	95% UCL/MAX	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	244	260	21.2	22.6	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*17*	*17*	*1.4*	*1.5*	*Type X*	*Non-Hazardous*
0 to 1.0 feet	132	140	11.5	12.2	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*15*	*15*	*1.3*	*1.3*	*Type X*	*Non-Hazardous*
0 to 1.5 feet	95	101	8.3	8.7	Type Y-1	CA Hazardous (Type Z-2)
1.5 to 2.0 feet	*8.0*	*8.3*	*0.7*	*0.7*	*Type X*	*Non-Hazardous*
0 to 2.0 feet	73	78	6.4	6.7	Type Y-1	CA Hazardous (Type Z-2)

Based upon the predicted WET lead concentrations, excavated soil from the surface to a depth of 0.5 would be classified as a California hazardous waste since the predicted WET lead concentration is greater than the STLC of 5.0 mg/l. The top 0.5 foot of the soil is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 0.5 foot of the soil may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans. Underlying soil from a depth of 0.5 to 2.0 feet could be reused or disposed as non-hazardous with respect to lead content.

Location 2 – Westbound Route 134 on ramp from San Fernando Road (Borings 1133-106 to 1133-110)

The total and predicted WET lead calculations for the Westbound Route 134 on ramp from San Fernando Road are summarized in Table 4. Weighted averages are calculated by using the total lead concentration for each 0.5-foot depth interval as the value for the underlying 0.5-foot depth interval (unless a sample was collected from the underlying depth interval. Excavation scenarios by layer are presented below. Block diagrams are presented in Appendix B.

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		CLASSIFICATION	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	194	199	16.8	17.3	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*409*	*445*	*35.5*	*38.6*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 1.0 feet	364	388	31.6	33.7	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*347*	*379*	*30.1*	*32.9*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 1.5 feet	420	451	36.5	39.2	Type Y-1	CA Hazardous (Type Z-2)
1.5 to 2.0 feet	*161*	*180*	*14.0*	*15.6*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 2.0 feet	355	384	30.8	33.3	Type Y-1	CA Hazardous (Type Z-2)

Based upon the predicted WET lead concentration, excavated soil from the surface to a depth 2.0 feet would be classified as California hazardous waste since the predicted WET lead concentrations are greater than the STLC of 5.0 mg/l. The top 2.0 feet of soil is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 2.0 feet of soil may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans.

Location 3 – Eastbound Route 134 on ramp from San Rafael Avenue (Borings 1133-111 to 1133-115)

The total and predicted WET lead calculations for the Eastbound Route 134 on ramp from San Rafael Avenue are summarized in Table 5. Weighted averages are calculated by using the total lead concentration for each 0.5 foot depth interval (unless a sample was collected from the underlying depth interval) Excavation scenarios by layer are presented below. Block diagram are presented in Appendix B.

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		SOIL TYPE	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	191	203	16.6	17.6	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*19*	*19*	*1.6*	*1.7*	*Type X*	*Non-Hazardous*
0 to 1.0 feet	105	110	9.1	9.6	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*19*	*20*	*1.6*	*1.7*	*Type X*	*Non-Hazardous*
0 to 1.5 feet	76	80	6.6	6.9	Type Y-1	*CA Hazardous (Type Z-2)*
1.5 to 2.0 feet	*20*	*21*	*1.7*	*1.8*	*Type X*	*Non-Hazardous*
0 to 2.0 feet	62	65	5.4	5.6	Type Y-1	CA Hazardous (Type Z-2)

Based upon the predicted WET lead concentrations, excavated soil from the surface to a depth of 0.5 foot would be classified as California hazardous waste since the predicted WET lead concentrations is greater than the STLC of 5.0 mg/l. The top 0.5 foot of the soil is not considered a RCRA hazardous waste based

on the TCLP lead results. Based on the DI-WET lead and pH results, the top 0.5 foot of soil may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans. Underlying soil from a depth of 0.5 to 2.0 feet could be reused or disposed as non-hazardous with respect to lead content.

Location 4- Westbound Route 134 on ramp from San Rafael Avenue (Borings 1133-116 to 1133-120)

The total and predicted WET lead calculations for the Westbound Route 134 on ramp from San Rafael Avenue are summarized in Table 6. Weighted averages are calculated by using the total lead concentration for each 0.5-foot depth interval (unless a sample was collected from the underlying depth interval). Excavation scenarios by layers are presented below. Block diagrams are presented in Appendix B.

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		CLASSIFICATION	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	207	218	18	19	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*20*	*22*	*1.7*	*1.9*	*Type X*	*Non-Hazardous*
0 to 1.0 feet	113	120	9.8	10.4	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*20*	*22*	*1.7*	*1.9*	*Type X*	*Non-Hazardous*
0 to 1.5 feet	82	87	7.1	7.5	Type Y-1	CA Hazardous (Type Z-2)
1.5 to 2.0 feet	*21*	*23*	*1.8*	*2.0*	*Type X*	*Non-Hazardous*
0 to 2.0 feet	67	71	5.8	6.1	Type Y-1	CA Hazardous (Type Z-2)

Based upon the predicted WET lead concentrations, excavated soil from the surface to a depth of 0.5 foot would be classified as California hazardous waste since the predicted WET lead concentration is greater than the STLC of 5.0 mg/l. The top 0.5-foot of soil is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 0.5 foot of soil may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans. Underlying soil from a depth of 0.5 to 2.0 feet could be reused or disposed as non-hazardous with respect to lead content.

Location 5- Southbound Route 2 on ramp from Westbound Route 134 (Borings 1133-121 to 1133-125)

The total and predicted WET lead calculations for the Southbound Route 2 on ramp from Westbound Route 134 are summarized in Table 7. Weighted averages are calculated by using the total lead concentration for each 0.5-foot depth interval as the value for the underlying 0.5-foot depth interval (unless a sample collected from the underlying interval). Excavation scenarios by layers are presented below. Block diagrams are presented in Appendix B.

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		CLASSIFICATION	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	96	105	8.4	9.1	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*25*	*27*	*2.2*	*2.3*	*Type X*	*Non-Hazardous*
0 to 1.0 feet	63	69	5.5	6.0	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*22*	*24*	*1.9*	*2.1*	*Type X*	*Non-Hazardous*
0 to 1.5 feet	52	57	4.5	4.9	Type X	Non-Hazardous
1.5 to 2.0 feet	*15*	*16*	*1.3*	*1.4*	*Type X*	*Non-Hazardous*
0 to 2.0 feet	43	46	3.7	4.0	Type X	Non-Hazardous

Based on the predicted WET lead concentrations, excavated soil from the surface to a depth of 0.5 foot would be classified as California hazardous waste since the predicted WET lead concentration is greater than the STLC of 5.0 mg/l. The top 0.5 foot is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 0.5 foot of soil may be reused onsite (as Caltrans Type-1) by placing the lead –impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans. Underlying soil from the a depth of 0.5 to 2.0 feet could be reused or disposed as non-hazardous with respect to lead content.

Soil excavated to a depth of 2.0 feet, and managed as a whole, would be classified as non-hazardous (Caltrans Type X) since the predicted WET lead concentration is less than the lead STLC of 5.0 mg/l.

Location 6- Northbound Route 2 on ramp from York Boulevard (Borings 1133-126 to 1133-130)

The total and predicted WET lead calculations for the Northbound Route 2 on ramp from York Boulevard are summarized in Table 8. Weighted averages are calculated by using the total lead concentration for each 0.5-foot depth interval as the value for the underlying 0.5-foot depth interval (unless a sample was collected from the underlying interval). Due to the small population of unique values, total UCLs could not be calculated for the 0.5 to 1.0 foot interval so the maximum total lead concentration was used for that depth interval. Excavation scenarios by layers are presented below. Blocks diagrams are presented in Appendix B.

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		CLASSIFICATION	
	90% UCL/MAX	95% UCL/MAX	90% UCL/MAX	95% UCL/MAX	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	717	757	62.2	65.7	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*24*	*24*	*2.0*	*2.1*	*Type X*	*Non-Hazardous*
0 to 1.0 feet	370	389	32.1	33.8	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*24*	*25*	*2.1*	*2.2*	*Type X*	*Non-Hazardous*
0 to 1.5 feet	254	267	22.0	23.2	Type Y-1	CA Hazardous (Type Z-2)
1.5 to 2.0 feet	*27*	*29*	*2.3*	*2.5*	*Type X*	*Non-Hazardous*
0 to 2.0 feet	197	207	17.1	18.0	Type Y-1	CA Hazardous (Type Z-2)

Based on the predicted WET lead concentrations, excavated soil from the surface to a depth of 0.5 foot would be classified as California hazardous waste since the predicted WET lead concentration is greater than the STLC of 5.0 mg/l. The top 0.5 foot is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 0.5 foot of soil may be reused onsite (as Caltrans Type-1) by placing the lead –impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans. Underlying soil from the a depth of 0.5 to 2.0 feet could be reused or disposed as non-hazardous with respect to lead content.

Location 7- Southbound Route 2 on ramp from Colorado Boulevard (Borings 1133-131 to1133-135)

The total and predicted WET lead calculations for the Southbound Route 2 on ramp from Colorado Boulevard are summarized in Table 9. Weighted averages are calculated by using the total lead concentration for each 0.5-foot depth interval as the value for the underlying 0.5-foot depth interval (unless a sample was collected from the underlying interval). Excavation scenarios by layers are presented below. Blocks diagrams are presented in Appendix B.

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		CLASSIFICATION	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Classification	Off Site Disposal Classification
0 to 0.5 foot	323	350	28.0	30.4	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*29*	*31*	*2.5*	*2.7*	*Type X*	*Non-Hazardous*
0 to 1.0 feet	179	194	15.5	16.9	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*26*	*28*	*2.3*	*2.4*	*Type X*	*Non-Hazardous*
0 to 1.5 feet	131	142	11.4	12.3	Type Y-1	CA Hazardous (Type Z-2)
1.5 to 2.0 feet	*17*	*18*	*1.5*	*1.6*	*Type X*	*Non-Hazardous*
0 to 2.0 feet	103	111	8.9	9.6	Type Y-1	Type Z-2

Based on the predicted WET lead concentrations, excavated soil from the surface to a depth of 0.5 foot would be classified as California hazardous waste since the predicted WET lead concentration is greater than the STLC of 5.0 mg/l. The top 0.5 foot is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 0.5 foot of soil may be reused onsite (as Caltrans Type-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans. Underlying soil from the a depth of 0.5 to 2.0 feet could be reused or disposed as non-hazardous with respect to lead content.

Location 8 – Northbound Route 2 on ramp from Eagle Boulevard (Borings 1133-136 to 1133-140)

The total and predicted WET lead calculations for the Northbound Route 2 on ramp from Eagle Boulevard are summarized in Table 10. Weighted averages are calculated by using the total lead concentration for each 0.5-foot depth interval as the value for the underlying 0.5-foot depth interval (unless a sample was collected from the underlying interval). Excavation scenarios by layers are presented below. Blocks diagrams are presented in Appendix B.

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		CLASSIFICATION	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	427	450	37.1	39.0	Type Y-1	CA Hazardous(Type Z-2)
0.5 to 2.0 feet	*109*	*121*	*9.5*	*10.5*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 1.0 feet	282	300	24.4	26.0	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*95*	*106*	*8.3*	*9.2*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 1.5 feet	233	250	20.2	21.7	Type Y-1	CA Hazardous (Type Z-2)
1.5 to 2.0 feet	*55*	*62*	*4.7*	*5.4*	*Type X*	*CA Hazardous (Type Z-2)*
0 to 2.0 feet	188	203	16.4	17.6	Type Y-1	CA Hazardous (Type Z-2)

Based on the predicted WET lead concentrations, excavated soil from the surface to a depth of 2.0 feet would be classified as California hazardous waste since the predicted WET lead concentration is greater than the STLC of 5.0 mg/l. The top 2.0 feet is not considered a RCRA hazardous waste based on the TCLP lead results. Based on the DI-WET lead and pH results, the top 2.0 feet of soil may be reused onsite (as Caltrans Type Y-1) by placing the lead-impacted soil under at least one foot of clean soil or a pavement structure maintained by Caltrans.

7.2 Title 22 Metals

Analysis of selected soil samples for CCR Title 22 metals did not indicate the presence of heavy metal concentrations (other than lead) at or above their respective TTLCs or 10 times their respective STLCs. The concentrations of metals (other than lead and arsenic) reported in the soil samples were below their respective residential land use CHHSLs.

Arsenic was detected in one soil samples at concentrations of 4.1 mg/kg which is greater than the residential and industrial use soil CHHSL for arsenic. In the Los Angeles area, the DTSC generally considers arsenic concentrations less than 12 mg/kg to be background concentrations. On the basis that arsenic was not detected in the soil samples at concentrations greater than or equal to the accepted background concentration for arsenic in the Los Angeles area, it is our opinion that no further assessment with respect to arsenic is warranted.

7.3 pH

Soil with a pH of less than 5.0 is not acceptable for reuse under the DTSC Variance. Analysis of selected soil samples indicate that the pH of the soil ranged from 6.6 to 8.1 and the soil is suitable for reuse under the DTSC Variance.

Soil with a pH less than 2.0 or greater than 12.5 is classified as a hazardous waste. Based on the reported soil pH, if the soil is to be transported offsite, it will not be considered as hazardous based on soil pH.

7.4 Worker Protection

Per Caltrans' requirements, contractor(s) should prepare a project-specific Lead Compliance Plan to prevent or minimize worker exposure to lead-impacted soil. The plan should include protocols for environmental and personnel monitoring, requirements for personal protective equipment, and other appropriate health and safety protocols and procedures for the handling of lead-impacted soil.

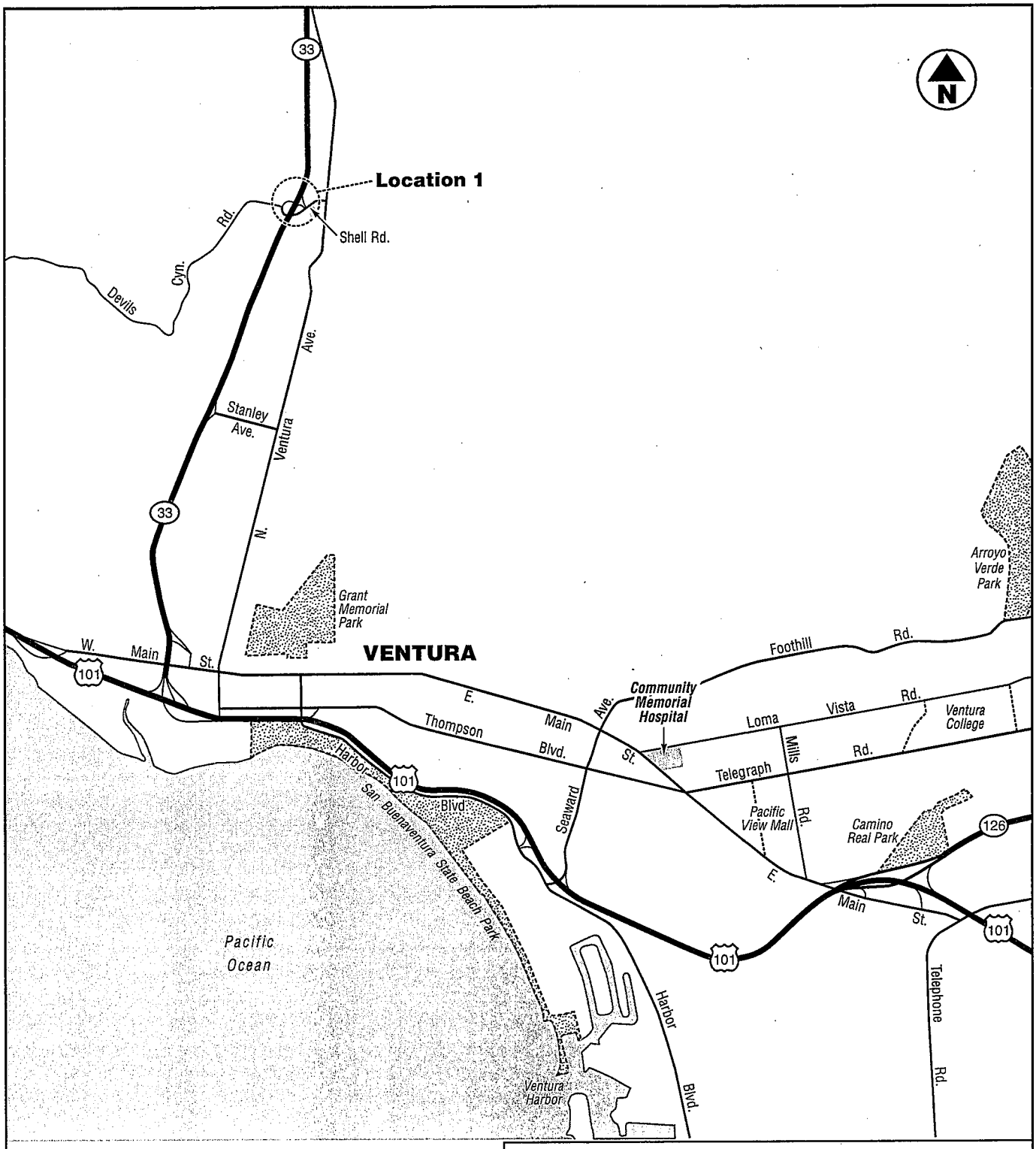
8. REPORT LIMITATIONS

This report has been prepared exclusively for Caltrans. The information obtained is only relevant as of the date of the latest site visit and will require an update to reflect additional information obtained.

The conclusions and recommendations presented herein are based on a limited number of samples collected from in-place soil and from widely spaced locations according to Caltrans-prescribed protocol. The purpose of these sampling and characterization activities was to reasonably predict the character of soil to be disturbed for planned construction activities within the described limits of the Caltrans right-of-way.

The Client should recognize that this report is not a comprehensive site characterization and should not be construed as such. The appropriate regulatory agency may require additional investigations. The findings and conclusions as presented in this report are predicated on the results of the limited soil sampling and laboratory analyses performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein.

Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee or warranty of the results of the report is implied within the intent of this report or any subsequent reports, correspondence, or consultation, either express or implied. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

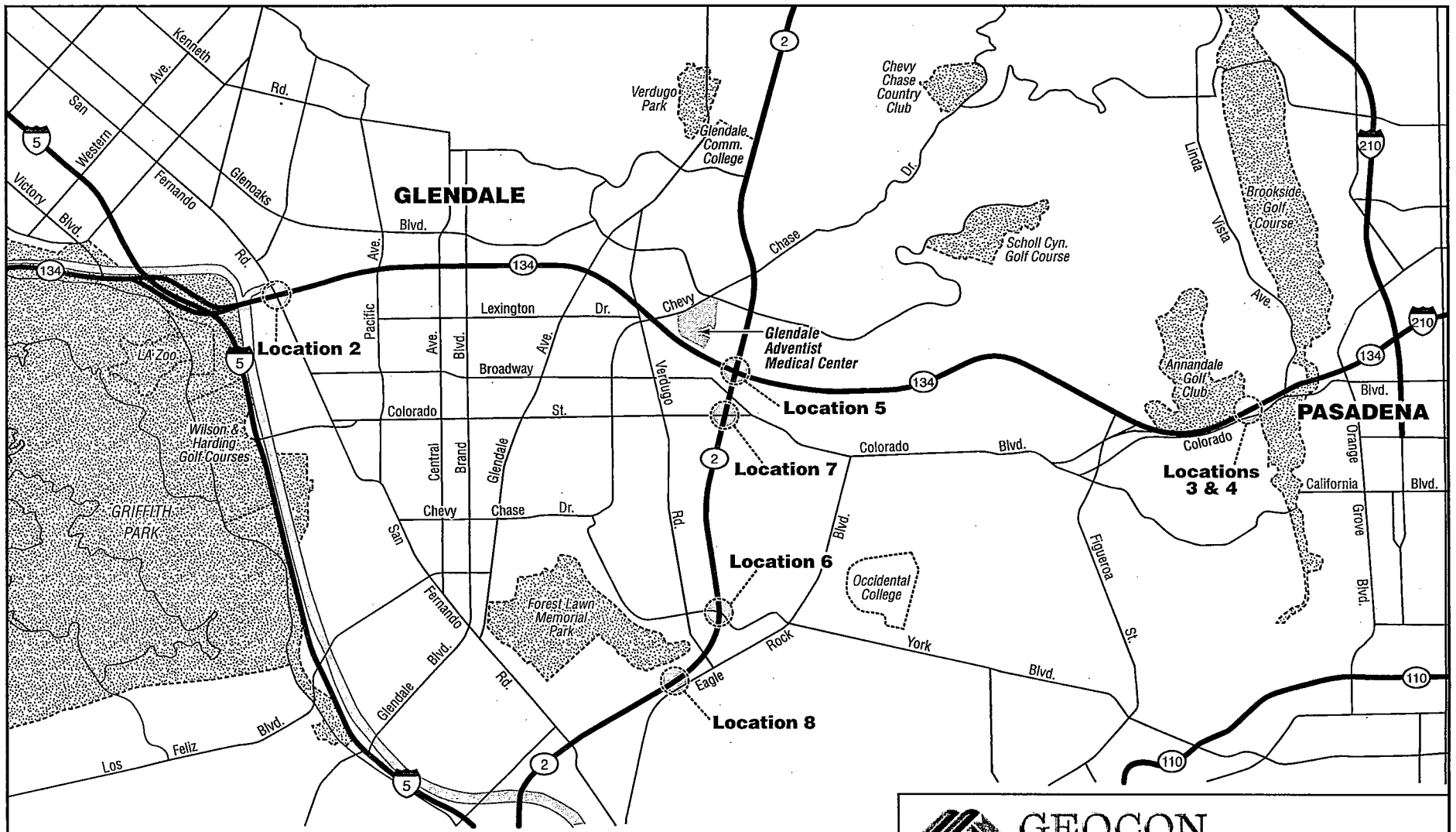


0 1
Scale in Miles

GEOCON
CONSULTANTS, INC.
3303 N. SAN FERNANDO BLVD. – SUITE 100 – BURBANK, CA. 91504
PHONE 818.841.8388 – FAX 818.841.1704

LA 2, 134, VEN 33 ADL

Ventura County, California	**VICINITY MAP**
GEOCON Proj. No. S9475-06-07	
Task Order No. 7	June 2011 — Figure 1A



GEOCON
CONSULTANTS, INC.
3303 N. SAN FERNANDO BLVD. – SUITE 100 – BURBANK, CA. 91504
PHONE 818.841.8388 – FAX 818.841.1704

LA 2, 134, VEN 33 ADL

Los Angeles County, California	**VICINITY MAP**
GEOCON Proj. No. S9475-06-07	
Task Order No. 7	June 2011	Figure 1B

1133-105

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	82	5.2	<0.21	0.25 J	---
1.0	21	---	---	---	---
2.0	8.0	---	---	---	---

1133-104

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	160	17	<0.21	0.22 J	---
1.0	21	---	---	---	---
2.0	8.1	---	---	---	---

1133-103

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	160	13	<0.21	0.23 J	8.1
1.0	3.6 J	---	---	---	---
2.0	9.1	---	---	---	---

1133-102

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	120	6.4	<0.21	0.22 J	---
1.0	14	---	---	---	---
2.0	5.2	---	---	---	---

1133-101

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	390	35	0.38	0.33	7.6
1.0	21	---	---	---	---
2.0	5.2	---	---	---	---

LEGEND: ⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 50
Scale in Feet

GEOCON
CONSULTANTS, INC.
3303 N. SAN FERNANDO BLVD. – SUITE 100 – BURBANK, CA. 91504
PHONE 818.841.8388 – FAX 818.841.1704

LA 2, 134, VEN 33 ADL

Los Angeles County, California

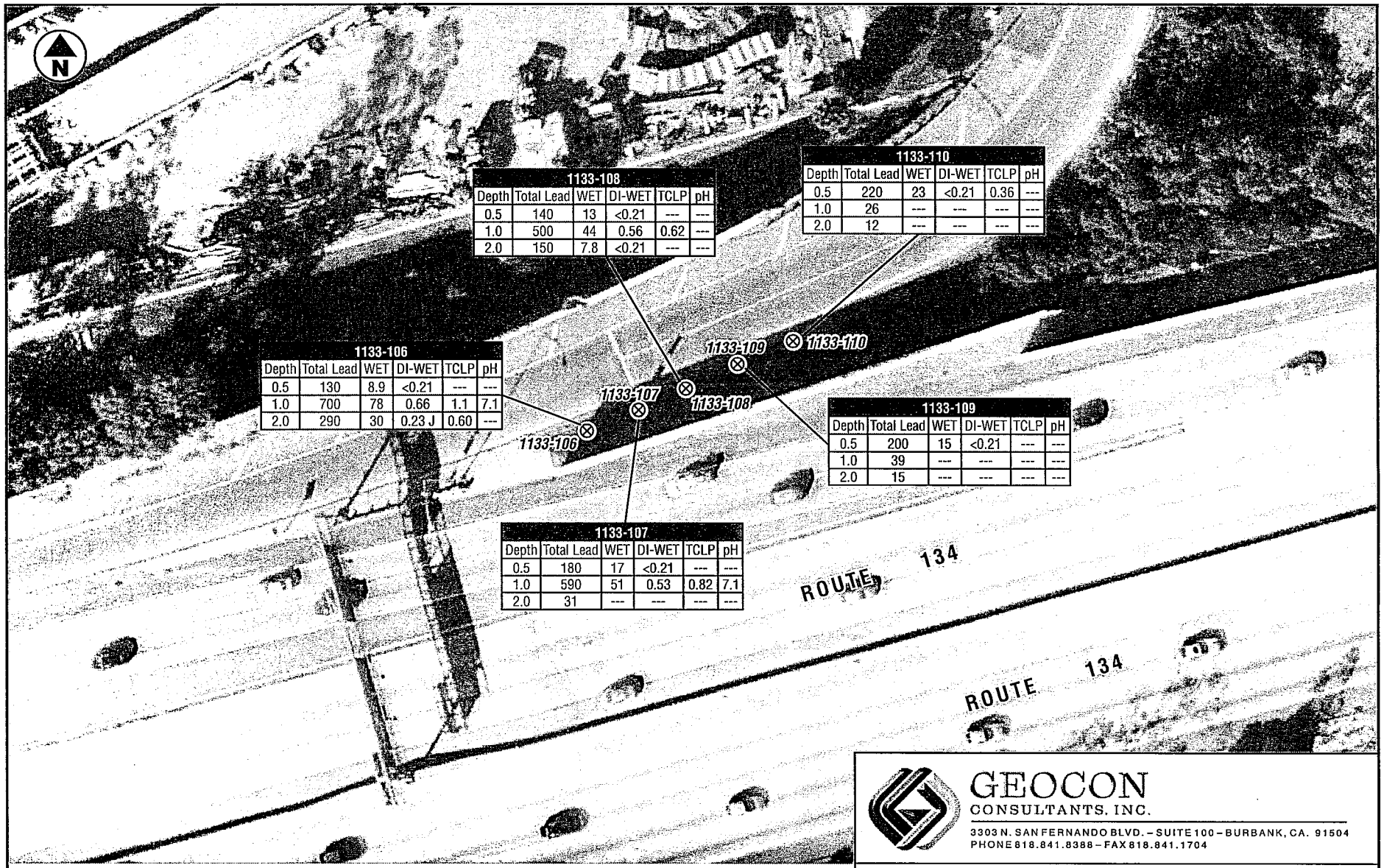
GEOCON Proj. No. S9475-06-07

Task Order No. 7

Boring Locations
Location 1
VEN-33 PM 2.712

June 2011

Figure 2-1



1133-108

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	140	13	<0.21	---	---
1.0	500	44	0.56	0.62	---
2.0	150	7.8	<0.21	---	---

1133-110

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	220	23	<0.21	0.36	---
1.0	26	---	---	---	---
2.0	12	---	---	---	---

1133-106

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	130	8.9	<0.21	---	---
1.0	700	78	0.66	1.1	7.1
2.0	290	30	0.23 J	0.60	---

1133-109

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	200	15	<0.21	---	---
1.0	39	---	---	---	---
2.0	15	---	---	---	---

1133-107

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	180	17	<0.21	---	---
1.0	590	51	0.53	0.82	7.1
2.0	31	---	---	---	---

LEGEND: ⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 50
Scale in Feet

GEOCON
CONSULTANTS, INC.
3303 N. SAN FERNANDO BLVD. – SUITE 100 – BURBANK, CA. 91504
PHONE 818.841.8388 – FAX 818.841.1704

LA 2, 134, VEN 33 ADL

Los Angeles County, California

GEOCON Proj. No. S9475-06-07

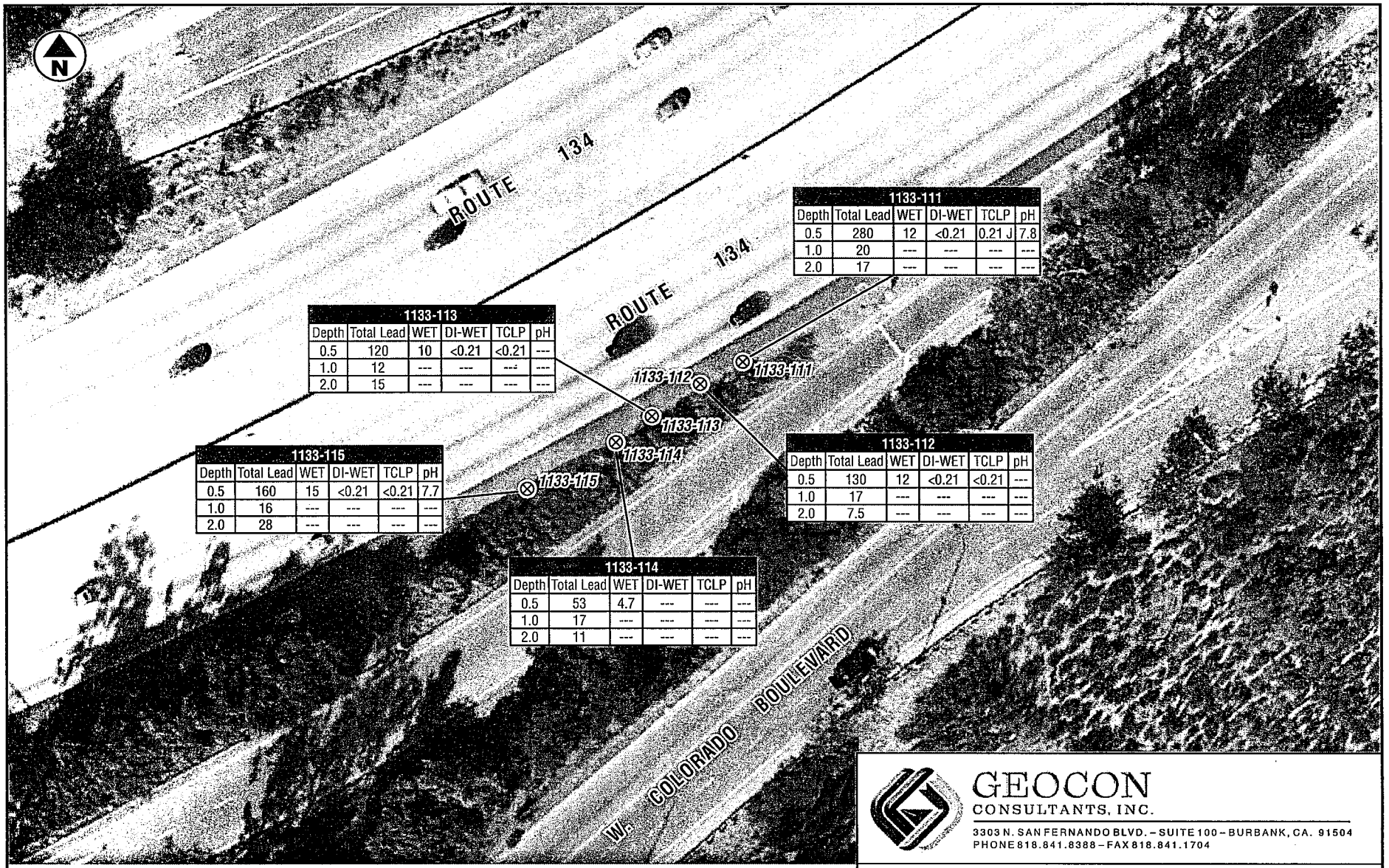
Task Order No. 7

Boring Locations Location 2

LA-134 PM 5.369

June 2011

Figure 2-2



1133-111					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	280	12	<0.21	0.21 J	7.8
1.0	20	---	---	---	---
2.0	17	---	---	---	---

1133-113					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	120	10	<0.21	<0.21	---
1.0	12	---	---	---	---
2.0	15	---	---	---	---

1133-112					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	130	12	<0.21	<0.21	---
1.0	17	---	---	---	---
2.0	7.5	---	---	---	---

1133-115					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	160	15	<0.21	<0.21	7.7
1.0	16	---	---	---	---
2.0	28	---	---	---	---

1133-114					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	53	4.7	---	---	---
1.0	17	---	---	---	---
2.0	11	---	---	---	---

LEGEND: ⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 50
Scale in Feet

GEOCON
CONSULTANTS, INC.
3303 N. SAN FERNANDO BLVD. – SUITE 100 – BURBANK, CA. 91504
PHONE 818.841.8388 – FAX 818.841.1704

LA 2, 134, VEN 33 ADL

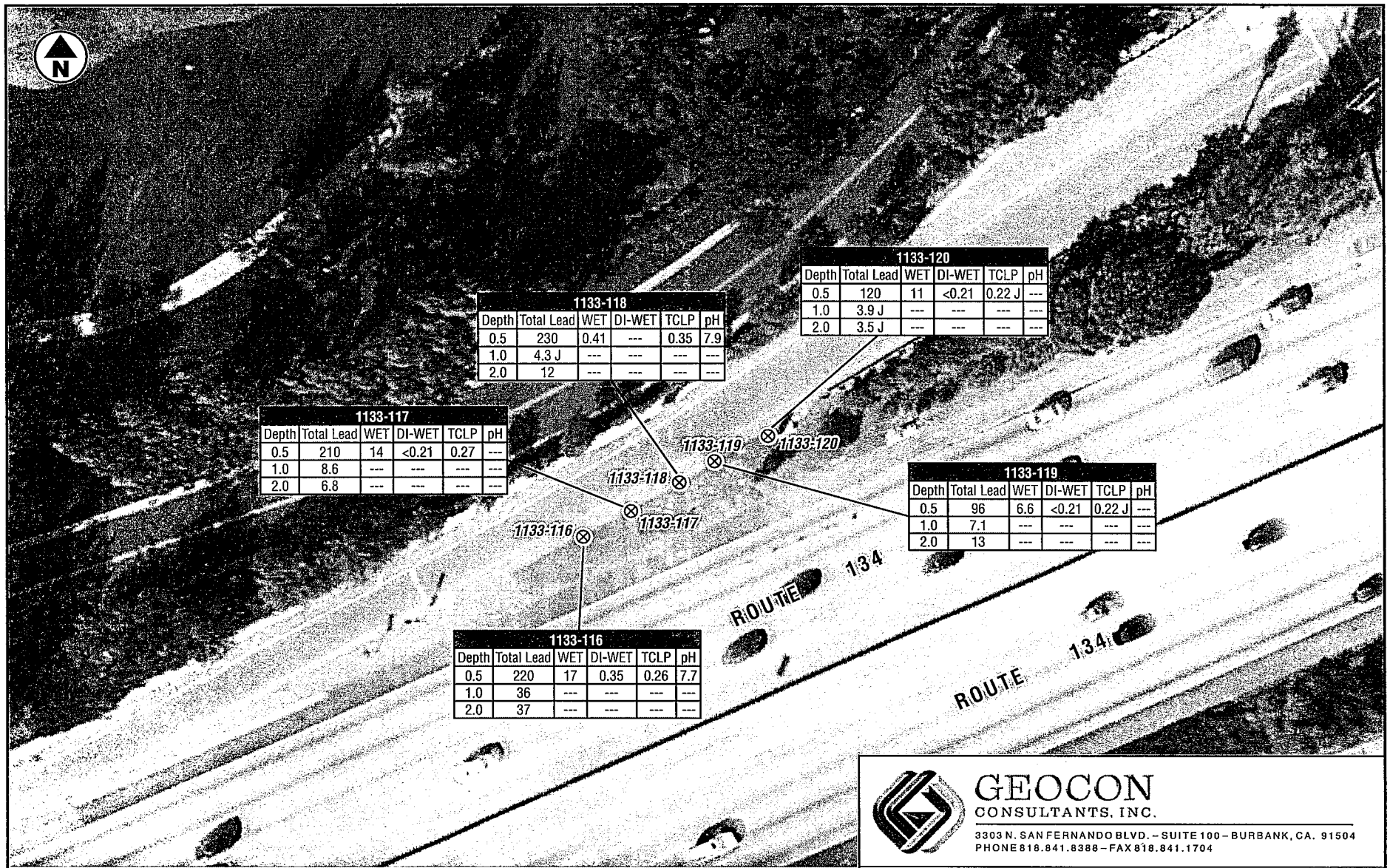
Los Angeles County, California

Boring Locations Location 3

GEOCON Proj. No. S9475-06-07

LA-134 PM 12.446

Task Order No. 7 | June 2011 | Figure 2-3



1133-120

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	120	11	<0.21	0.22 J	---
1.0	3.9 J	---	---	---	---
2.0	3.5 J	---	---	---	---

1133-118

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	230	0.41	---	0.35	7.9
1.0	4.3 J	---	---	---	---
2.0	12	---	---	---	---

1133-117

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	210	14	<0.21	0.27	---
1.0	8.6	---	---	---	---
2.0	6.8	---	---	---	---

1133-119

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	96	6.6	<0.21	0.22 J	---
1.0	7.1	---	---	---	---
2.0	13	---	---	---	---

1133-116

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	220	17	0.35	0.26	7.7
1.0	36	---	---	---	---
2.0	37	---	---	---	---

LEGEND: ⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 50
Scale in Feet

GEOCON
CONSULTANTS, INC.
3303 N. SAN FERNANDO BLVD. – SUITE 100 – BURBANK, CA. 91504
PHONE 818.841.8388 – FAX 818.841.1704

LA 2, 134, VEN 33 ADL

Los Angeles County, California

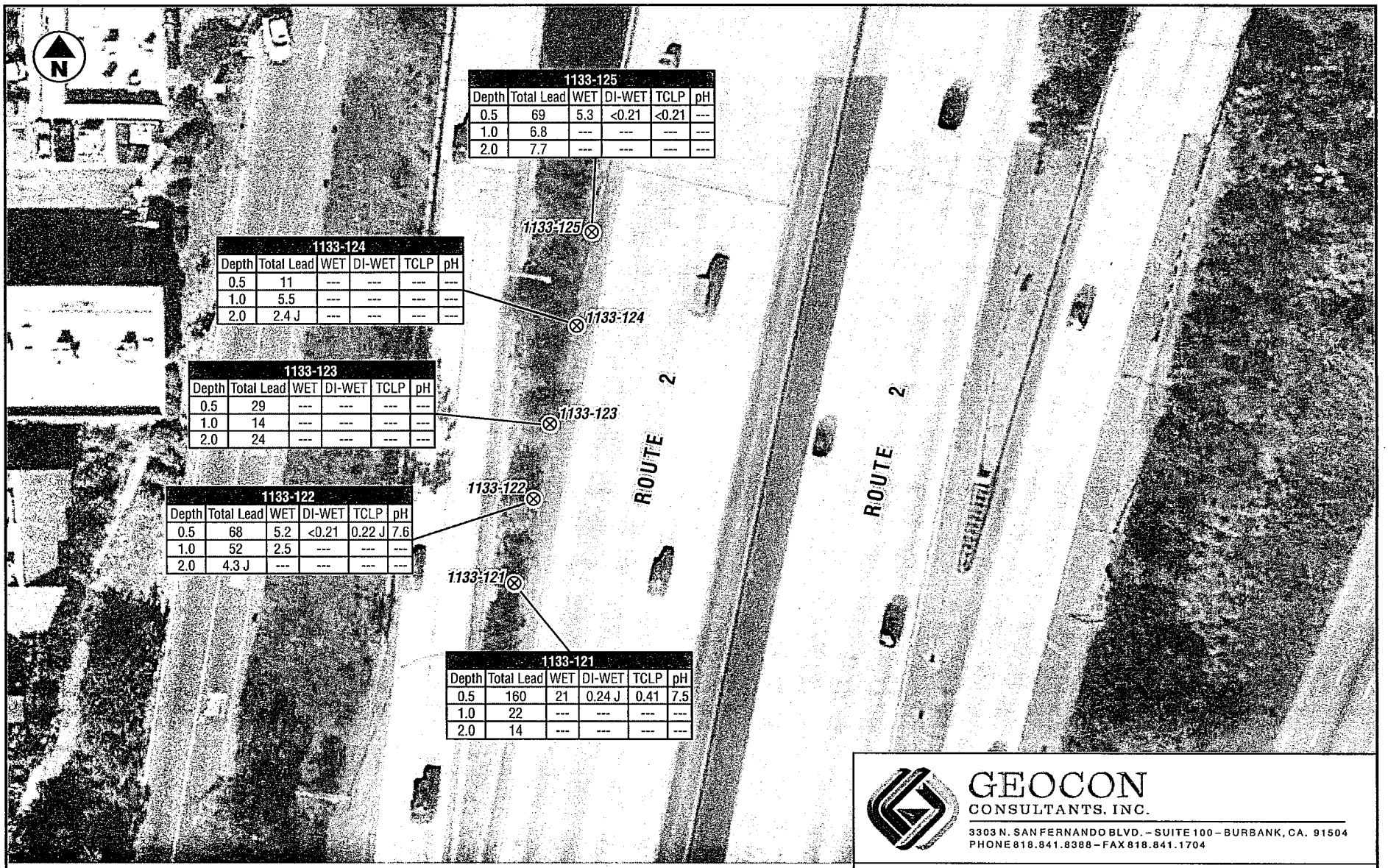
GEOCON Proj. No. S9475-06-07

Task Order No. 7

Boring Locations
Location 4
LA-134 PM 12.268

June 2011

Figure 2-4



1133-125					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	69	5.3	<0.21	<0.21	---
1.0	6.8	---	---	---	---
2.0	7.7	---	---	---	---

1133-124					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	11	---	---	---	---
1.0	5.5	---	---	---	---
2.0	2.4 J	---	---	---	---

1133-123					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	29	---	---	---	---
1.0	14	---	---	---	---
2.0	24	---	---	---	---

1133-122					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	68	5.2	<0.21	0.22 J	7.6
1.0	52	2.5	---	---	---
2.0	4.3 J	---	---	---	---

1133-121					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	160	21	0.24 J	0.41	7.5
1.0	22	---	---	---	---
2.0	14	---	---	---	---

LEGEND: ⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 50
Scale in Feet

GEOCON
CONSULTANTS, INC.
3303 N. SAN FERNANDO BLVD. – SUITE 100 – BURBANK, CA. 91504
PHONE 818.841.8388 – FAX 818.841.1704

LA 2, 134, VEN 33 ADL

Los Angeles County, California

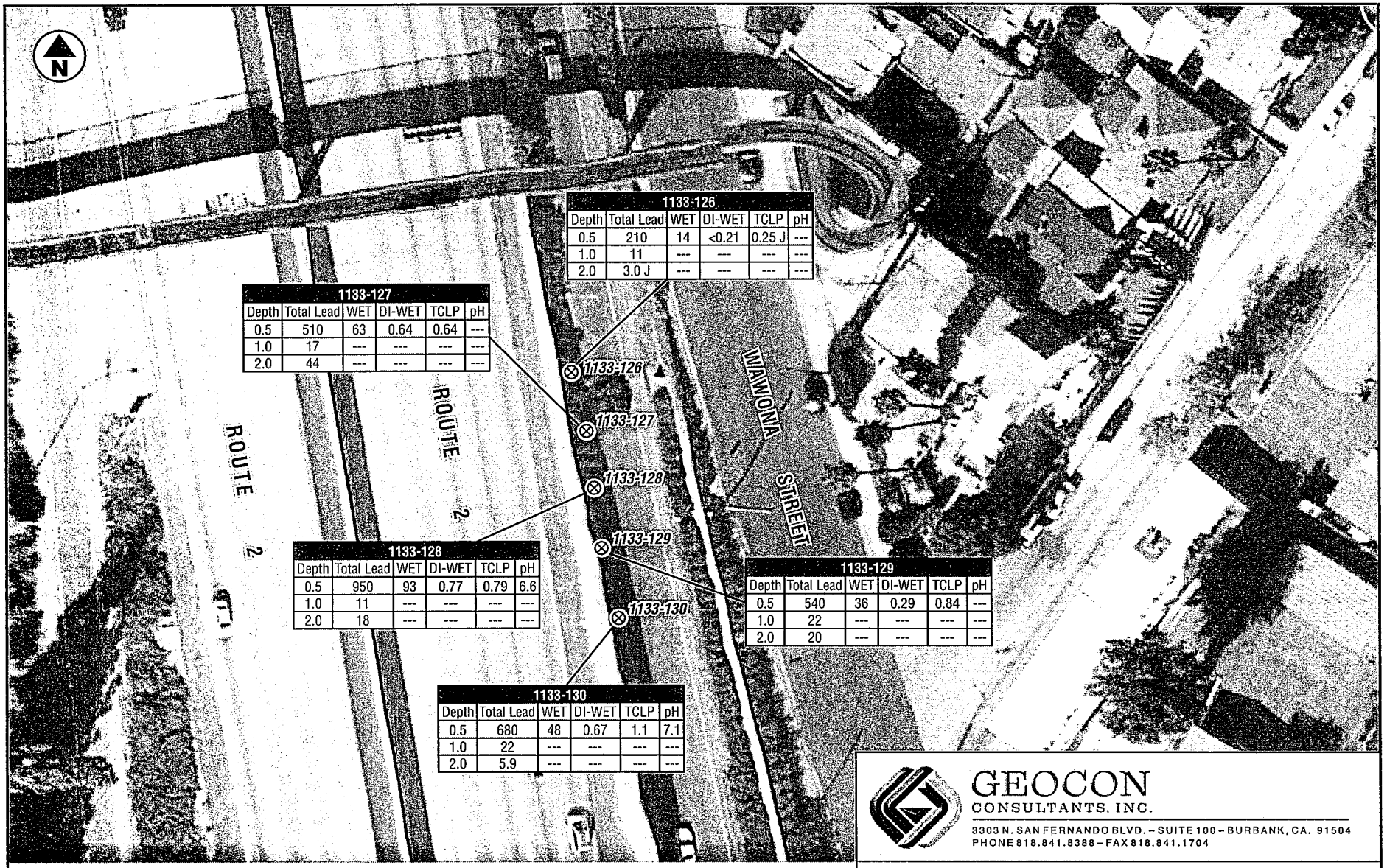
GEOCON Proj. No. S9475-06-07

Task Order No. 7

Boring Locations
Location 5
LA-2 PM 18.622

June 2011

Figure 2-5



1133-126

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	210	14	<0.21	0.25 J	---
1.0	11	---	---	---	---
2.0	3.0 J	---	---	---	---

1133-127

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	510	63	0.64	0.64	---
1.0	17	---	---	---	---
2.0	44	---	---	---	---

1133-128

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	950	93	0.77	0.79	6.6
1.0	11	---	---	---	---
2.0	18	---	---	---	---

1133-129

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	540	36	0.29	0.84	---
1.0	22	---	---	---	---
2.0	20	---	---	---	---

1133-130

Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	680	48	0.67	1.1	7.1
1.0	22	---	---	---	---
2.0	5.9	---	---	---	---

LEGEND: ⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 50
Scale in Feet

GEOCON
CONSULTANTS, INC.
3303 N. SAN FERNANDO BLVD. – SUITE 100 – BURBANK, CA. 91504
PHONE 818.841.8388 – FAX 818.841.1704

LA 2, 134, VEN 33 ADL

Los Angeles County, California

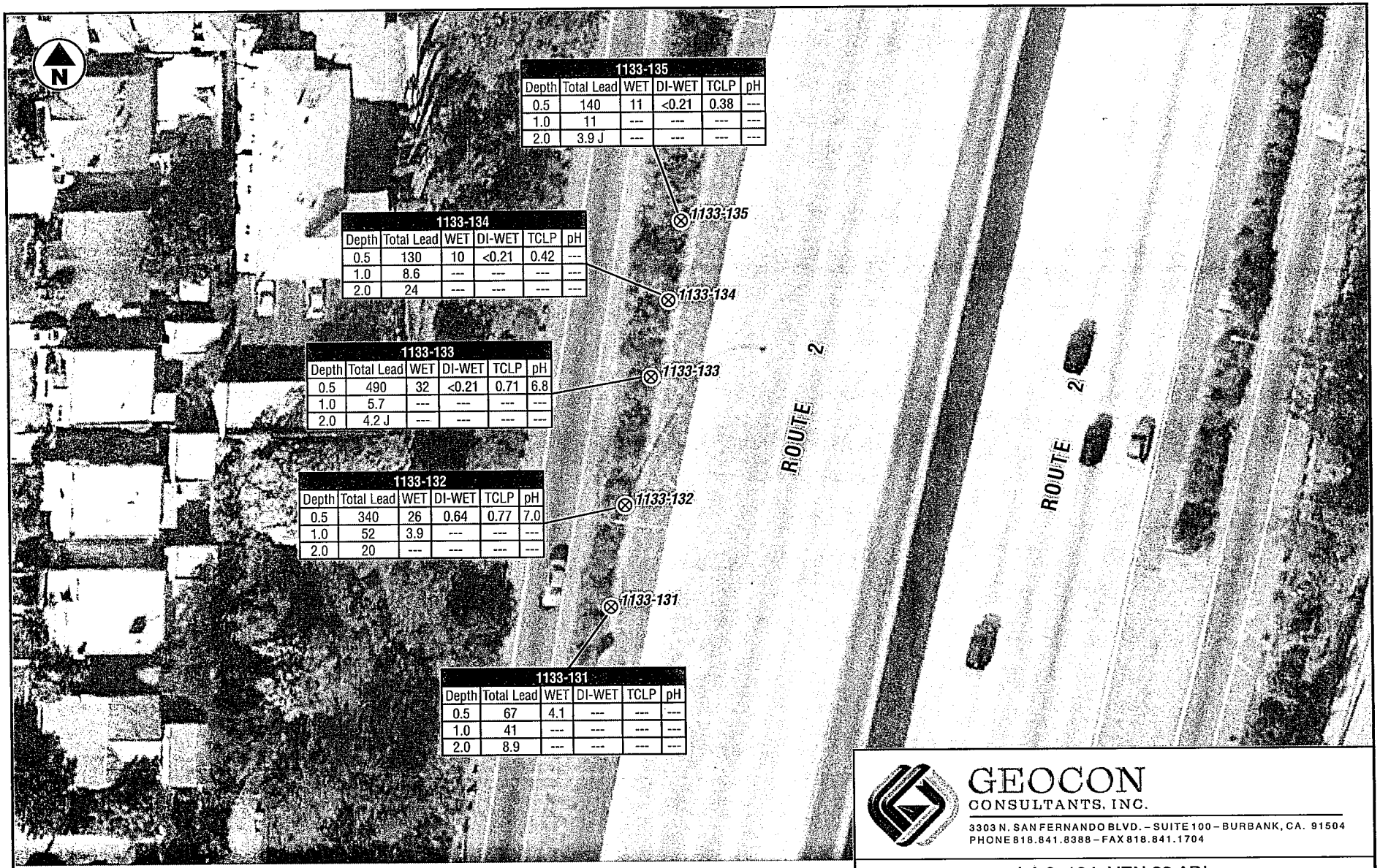
GEOCON Proj. No. S9475-06-07

Task Order No. 7

Boring Locations
Location 6
LA-2 PM 17.584

June 2011

Figure 2-6



1133-135					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	140	11	<0.21	0.38	---
1.0	11	---	---	---	---
2.0	3.9 J	---	---	---	---

1133-134					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	130	10	<0.21	0.42	---
1.0	8.6	---	---	---	---
2.0	24	---	---	---	---

1133-133					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	490	32	<0.21	0.71	6.8
1.0	5.7	---	---	---	---
2.0	4.2 J	---	---	---	---

1133-132					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	340	26	0.64	0.77	7.0
1.0	52	3.9	---	---	---
2.0	20	---	---	---	---

1133-131					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	67	4.1	---	---	---
1.0	41	---	---	---	---
2.0	8.9	---	---	---	---

LEGEND: ⊗ Approximate Boring Location

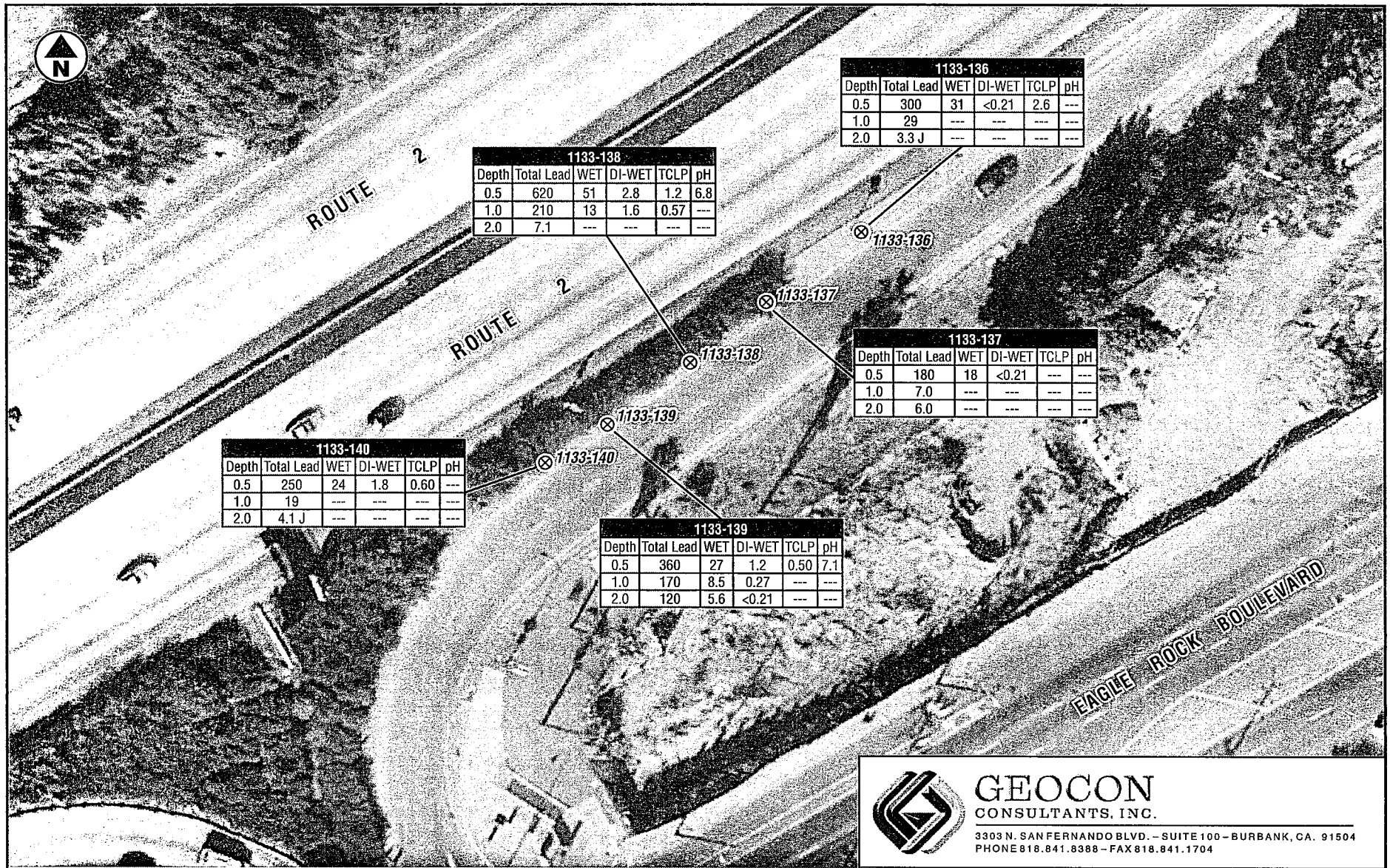
Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 50
Scale in Feet

GEOCON
CONSULTANTS, INC.
3303 N. SAN FERNANDO BLVD. – SUITE 100 – BURBANK, CA. 91504
PHONE 818.841.8388 – FAX 818.841.1704

LA 2, 134, VEN 33 ADL

Los Angeles County, California	**Boring Locations Location 7**
GEOCON Proj. No. S9475-06-07	**LA-2 PM 18.237**
Task Order No. 7	June 2011 — Figure 2-7



1133-136					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	300	31	<0.21	2.6	---
1.0	29	---	---	---	---
2.0	3.3 J	---	---	---	---

1133-138					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	620	51	2.8	1.2	6.8
1.0	210	13	1.6	0.57	---
2.0	7.1	---	---	---	---

1133-137					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	180	18	<0.21	---	---
1.0	7.0	---	---	---	---
2.0	6.0	---	---	---	---

1133-140					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	250	24	1.8	0.60	---
1.0	19	---	---	---	---
2.0	4.1 J	---	---	---	---

1133-139					
Depth	Total Lead	WET	DI-WET	TCLP	pH
0.5	360	27	1.2	0.50	7.1
1.0	170	8.5	0.27	---	---
2.0	120	5.6	<0.21	---	---

LEGEND: ⊗ Approximate Boring Location

Total Lead Results in mg/kg
WET, DI-WET, TCLP Results in mg/l
Depth in Feet
<0.21 = Not Detected at or above laboratory detection limit indicated
--- = Analysis not performed
J = Result qualified as an estimated value due to analytical bias in precision or accuracy

0 50
Scale in Feet

GEOCON
CONSULTANTS, INC.
3303 N. SAN FERNANDO BLVD. – SUITE 100 – BURBANK, CA. 91504
PHONE 818.841.8388 – FAX 818.841.1704

LA 2, 134, VEN 33 ADL

Los Angeles County, California

Boring Locations Location 8

GEOCON Proj. No. S9475-06-07

LA-2 PM 16.856

Task Order No. 7 | June 2011 | Figure 2-8

TABLE 1
BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
LA 2 & 134, VEN 33 ADL INVESTIGATION
LOS ANGELES & VENTURA COUNTIES, CALIFORNIA

Sample ID	LONGITUDE	LATITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI WET Lead (mg/l)	TCLP Lead (mg/l)	pH
Location 1 - Route 33 at Shell Road								
1133-101-0.0	-119.29405746	34.31624943	0-0.5	390	35	0.38	0.33	7.6
1133-101-1.0			0.5-1.0	21				
1133-101-2.0			1.5-2.0	5.2				
1133-102-0.0	-119.29402721	34.31628645	0-0.5	120	6.4	<0.21	0.22 J	
1133-102-1.0			0.5-1.0	14				
1133-102-2.0			1.0-1.5	5.2				
1133-103-0.0	-119.29398337	34.31635019	0-0.5	160	13	<0.21	0.23 J	8.1
1133-103-1.0			0.5-1.0	3.6 J				
1133-103-2.0			1.5-2.0	9.1				
1133-104-0.0	-119.29394025	34.31639857	0-0.5	160	17	<0.21	0.22 J	
1133-104-1.0			0.5-1.0	21				
1133-104-2.0			1.5-2.0	8.1				
1133-105-0.0	-119.29390100	34.31644336	0-0.5	82	5.2	<0.21	0.25 J	
1133-105-1.0			0.5-1.0	21				
1133-105-2.0			1.5-2.0	8.0				
Location 2 - W/Bound Route 134 on ramp from San Fernando Road								
1133-106-0.0	-118.27422604	34.15439727	0-0.5	130	8.9	<0.21		
1133-106-1.0			0.5-1.0	700	78	0.66	1.1	7.1
1133-106-2.0			1.5-2.0	290	30	0.23 J	0.60	
1133-107-0.0	-118.27416145	34.15441521	0-0.5	180	17	<0.21		
1133-107-1.0			0.5-1.0	590	51	0.53	0.82	7.1
1133-107-2.0			1.5-2.0	31				
1133-108-0.0	-118.27416620	34.15442353	0-0.5	140	13	<0.21		
1133-108-1.0			0.5-1.0	500	44	0.56	0.62	
1133-108-2.0			1.5-2.0	150	7.8	<0.21		
1133-109-0.0	-118.27409574	34.15444503	0-0.5	200	15	<0.21		
1133-109-1.0			0.5-1.0	39				
1133-109-2.0			1.5-2.0	15				
1133-110-0.0	-118.27403845	34.15446491	0-0.5	220	23	<0.21	0.36	
1133-110-1.0			0.5-1.0	26				
1133-110-2.0			1.5-2.0	12				
Location 3 - E/Bound Route 134 on ramp from San Rafael Avenue								
1133-111-0.0	-118.16944590	34.14366483	0-0.5	280	12	<0.21	0.21 J	7.8
1133-111-1.0			0.5-1.0	20				
1133-111-2.0			1.5-2.0	17				
1133-112-0.0	-118.16949335	34.14363766	0-0.5	130	12	<0.21	<0.21	
1133-112-1.0			0.5-1.0	17				
1133-112-2.0			1.5-2.0	7.5				
1133-113-0.0	-118.16954642	34.14359718	0-0.5	120	10	<0.21	<0.21	
1133-113-1.0			0.5-1.0	12				
1133-113-2.0			1.5-2.0	15				
1133-114-0.0	-118.16959289	34.14356909	0-0.5	53	4.7			
1133-114-1.0			0.5-1.0	17				
1133-114-2.0			1.5-2.0	11				
1133-115-0.0	-118.16969506	34.14350668	0-0.5	160	15	<0.21	<0.21	7.7
1133-115-1.0			0.5-1.0	16				
1133-115-2.0			1.5-2.0	28				

TABLE I
BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
LA 2 & 134, VEN 33 ADL INVESTIGATION
LOS ANGELES & VENTURA COUNTIES, CALIFORNIA

Sample ID	LONGITUDE	LATITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI WET Lead (mg/l)	TCLP Lead (mg/l)	pH
Location 4 - W/Bound Route 134 on ramp from San Rafael Avenue								
1133-116-0.0	-118.17204741	34.14312869	0-0.5	220	17	0.35	0.26	7.7
1133-116-1.0			0.5-1.0	36				
1133-116-2.0			1.5-2.0	37				
1133-117-0.0	-118.17199176	34.14315412	0-0.5	210	14	<0.21	0.27	
1133-117-1.0			0.5-1.0	8.6				
1133-117-2.0			1.5-2.0	6.8				
1133-118-0.0	-118.17194097	34.14318522	0-0.5	230	0.41		0.35	7.9
1133-118-1.0			0.5-1.0	4.3 J				
1133-118-2.0			1.5-2.0	12				
1133-119-0.0	-118.17189362	34.14320327	0-0.5	96	6.6	<0.21	0.22 J	
1133-119-1.0			0.5-1.0	7.1				
1133-119-2.0			1.5-2.0	13				
1133-120-0.0	-118.17181921	34.14321745	0-0.5	120	11	<0.21	0.22 J	
1133-120-1.0			0.5-1.0	3.9 J				
1133-120-2.0			1.5-2.0	3.5 J				
Location 5 - S/Bound Route 2 on ramp from Westbound Route 134								
1133-121-0.0	-118.22792058	34.14202653	0-0.5	160	21	0.24 J	0.41	7.5
1133-121-1.0			0.5-1.0	22				
1133-121-2.0			1.5-2.0	14				
1133-122-0.0	-118.22789663	34.14210696	0-0.5	68	5.2	<0.21	0.22 J	7.6
1133-122-1.0			0.5-1.0	52	2.5			
1133-122-2.0			1.5-2.0	4.3 J				
1133-123-0.0	-118.227877921	34.14218032	0-0.5	29				
1133-123-1.0			0.5-1.0	14				
1133-123-2.0			1.5-2.0	24				
1133-124-0.0	-118.22784537	34.14227625	0-0.5	11				
1133-124-1.0			0.5-1.0	5.5				
1133-124-2.0			1.5-2.0	2.4 J				
1133-125-0.0	-118.22782677	34.14236783	0-0.5	69	5.3	<0.21	<0.21	
1133-125-1.0			0.5-1.0	6.8				
1133-125-2.0			1.5-2.0	7.7				
Location 6 - N/Bound Route 2 on ramp from York Boulevard								
1133-126-0.0	-118.22830945	34.12811663	0-0.5	210	14	<0.21	0.25 J	
1133-126-1.0			0.5-1.0	11				
1133-126-2.0			1.5-2.0	3.0 J				
1133-127-0.0	-118.22829219	34.12805588	0-0.5	510	63	0.64	0.64	
1133-127-1.0			0.5-1.0	17				
1133-127-2.0			1.5-2.0	44				
1133-128-0.0	-118.22828234	34.12799726	0-0.5	950	93	0.77	0.79	6.6
1133-128-1.0			0.5-1.0	11				
1133-128-2.0			1.5-2.0	18				
1133-129-0.0	-118.22827320	34.12793326	0-0.5	540	36	0.29	0.84	
1133-129-1.0			0.5-1.0	22				
1133-129-2.0			1.5-2.0	20				
1133-130-0.0	-118.22825307	34.12785987	0-0.5	680	48	0.67	1.1	7.1
1133-130-1.0			0.5-1.0	22				
1133-130-2.0			1.5-2.0	5.9				

TABLE 1
BORING COORDINATES AND SUMMARY OF LEAD AND pH ANALYTICAL RESULTS
LA 2 & 134, VEN 33 ADL INVESTIGATION
LOS ANGELES & VENTURA COUNTIES, CALIFORNIA

Sample ID	LONGITUDE	LATITUDE	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	DI WET Lead (mg/l)	TCLP Lead (mg/l)	pH
Location 7 - S/Bound Route 2 on ramp from Colorado Boulevard								
1133-131-0.0	-118.22876212	34.13932078	0-0.5	67	4.1			
1133-131-1.0			0.5-1.0	41				
1133-131-2.0			1.5-2.0	8.9				
1133-132-0.0	-118.22874502	34.13941286	0-0.5	340	26	0.64	0.77	7.0
1133-132-1.0			0.5-1.0	52	3.9			
1133-132-2.0			1.5-2.0	20				
1133-133-0.0	-118.22871937	34.13953123	0-0.5	490	32	<0.21	0.71	6.8
1133-133-1.0			0.5-1.0	5.7				
1133-133-2.0			1.5-2.0	4.2 J				
1133-134-0.0	-118.22869478	34.13960234	0-0.5	130	10	<0.21	0.42	
1133-134-1.0			0.5-1.0	8.6				
1133-134-2.0			1.5-2.0	24				
1133-135-0.0	-118.22868983	34.13967714	0-0.5	140	11	<0.21	0.38	
1133-135-1.0			0.5-1.0	11				
1133-135-2.0			1.5-2.0	3.9 J				
Location 8 - N/Bound Route 2 on ramp from Eagle Rock Boulevard								
1133-136-0.0	-118.23212527	34.11913646	0-0.5	300	31	<0.21	2.6	
1133-136-1.0			0.5-1.0	29				
1133-136-2.0			1.5-2.0	3.3 J				
1133-137-0.0	-118.23223509	34.11906813	0-0.5	180	18	<0.21		
1133-137-1.0			0.5-1.0	7.0				
1133-137-2.0			1.5-2.0	6.0				
1133-138-0.0	-118.23232427	34.11900886	0-0.5	620	51	2.8	1.2	6.8
1133-138-1.0			0.5-1.0	210	13	1.6	0.57	
1133-138-2.0			1.5-2.0	7.1				
1133-139-0.0	-118.23242241	34.11894806	0-0.5	360	27	1.2	0.50	7.1
1133-139-1.0			0.5-1.0	170	8.5	0.27		
1133-139-2.0			1.5-2.0	120	5.6	<0.21		
1133-140-0.0	-118.23251470	34.11895856	0-0.5	250	24	1.8	0.60	
1133-140-1.0			0.5-1.0	19				
1133-140-2.0			1.5-2.0	4.1 J				

Notes:
mg/kg = Milligrams per kilogram
mg/l = Milligrams per liter
WET = Waste Extraction Test using citric acid as the extraction fluid
DI-WET = Waste Extraction Test using deionized water as the extraction fluid
TCLP = Toxicity Characteristic Leaching Procedure
< = Analyte was not detected above the laboratory detection limit
J = Results qualified as an estimated value due to analytical bias in precision or accuracy

TABLE 2
SUMMARY OF TITLE 22 METALS ANALYTICAL RESULTS
LA--2, 134, VENTURA 33 ADL INVESTIGATION
LOS ANGELES & VENTURA COUNTIES, CALIFORNIA

Sample ID	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
1133-101-0	1.1 J	4.1	650	<0.042	1.1	17	5.2	23	390	0.039 J	0.52 J	24	<0.28	<0.042	<0.098	19	120
1133-106-1	0.80 J	<0.20	120	<0.042	1.2	15	9.6	32	700	0.040 J	0.51 J	12	<0.28	<0.042	<0.098	33	210
1133-111-0	0.75 J	<0.20	87	<0.042	0.53 J	18	6.6	24	280	0.053 J	0.38 J	6.9	<0.28	<0.042	<0.098	26	140
1133-118-0	0.48 J	<0.20	110	<0.042	0.58 J	8.7	8.8	18	230	0.071 J	<0.097	6.0	<0.28	<0.042	<0.098	37	99
1133-121-0	0.64 J	<0.20	110	<0.042	0.93 J	12	7.1	30	160	0.044 J	0.18 J	7.7	<0.28	<0.042	<0.098	40	150
1133-128-0	0.93 J	<0.20	100	<0.042	1.2	15	7.7	29	950	0.081 J	0.43 J	8.6	<0.28	<0.042	<0.098	39	290
1133-133-0	0.55 J	<0.20	110	<0.042	0.99 J	8.5	7.4	21	490	0.035 J	<0.097	7.4	<0.28	<0.042	<0.098	43	170
1133-138-0	0.43 J	<0.20	100	<0.042	0.78 J	7.8	6.7	14	620	0.070 J	<0.097	5.1	<0.28	<0.042	<0.098	39	150
TTLC	500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000
STLC	15	5.0	100	0.75	1.0	5	80	25	5.0	0.2	350	20	1.0	5	7.0	24	250
CHHSLs Ind/	380/	0.24/	6,300/	190/	7.5/	10,000/	3,200/	38,000/	320/	180/	4,800/	16,000/	4,800/	4,800/	63/	6,700/	100,000/
Res	30	0.07	5,200	16	1.7	10,000	600	3,000	80	18	380	1,600	380	380	5.0	530	23,000
Background Concentrations																	
Minimum	0.15	0.6	133	0.25	0.05	23	2.7	9.1	12.4	0.05	0.10	9	0.015	0.1	5.3	39	88
Maximum	1.95	12	1400	2.70	1.7	1,579	46.9	96.4	97.1	0.90	9.6	509	0.43	8.3	36.2	288	236
Mean	0.60	3.5	509	1.28	0.36	122	14.9	28.7	23.9	0.26	1.3	57	0.058	0.8	15.7	112	149

Notes:
Results shown in milligrams per kilogram.
< = Not detected above the laboratory reporting limit specified
J = Results qualified as an estimated value due to analytical bias in precision or accuracy
TTLC = Total Threshold Limit Concentration
STLC = Soluble Threshold Limit Concentration
CHHSLs = California Environmental Protection Agency, California Human Health Screening Levels for industrial (Ind) and residential (Res) use
TTLC, STLC, and CHHSLs show for chromium are for chromium III.
Background Concentrations of Trace and Major Elements in California Soils
(Kearney Foundation of Soil Science, Division of Agriculture and Natural Resources, University of California, March 1996)
Maximum arsenic background concentration source - *Determination of a Southern California Regional Background Arsenic Concentration in Soil,* DTSC March 2008

TABLE 3
LEAD STATISTICAL ANALYSIS RESULTS
LOCATION 1
ROUTE 33 AT SHELL ROAD (BORINGS 1133-101 TO 1133-105)
VENTURA COUNTY, CALIFORNIA

	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		Classification	
	90% UCL/MAX	95% UCL/MAX	90% UCL/MAX	95% UCL/MAX	On Site Reuse Classification	Off Site Disposal Classification
Each Layer						
0 to 0.5 ft.	244	260	21.2	22.6	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 1.0 ft.*	21	21	1.8	1.8	Type X	Non-Hazardous
1.5 to 2.0 ft.	8.0	8.3	0.7	0.7	Type X	Non-Hazardous
Combined Layer(s)						
0 to 0.5 ft	244	260	21.2	22.6	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (0.5 to 2.0 ft.)	*17*	*17*	*1.4*	*1.5*	*Type X*	*Non-Hazardous*
0 to 1.0 ft	132	140	11.5	12.2	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (1.0 to 2.0 ft.)	*15*	*15*	*1.3*	*1.3*	*Type X*	*Non-Hazardous*
0 to 1.5 ft	95	101	8.3	8.7	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (1.5 to 2.0 ft.)	*8.0*	*8.3*	*0.7*	*0.7*	*Type X*	*Non-Hazardous*
0 to 2.0 ft.	73	78	*6.4*	6.7	Type Y-1	CA Hazardous (Type Z-2)

Notes:
Combined soil layer values are weighted averages based upon maximum concentrations for each depth interval.
* = Value is the maximum reported total lead concentration because UCLs could not be calculated due to less than 5 unique values in the data set.
WET lead concentrations are predicted using slope of regression line,
where y = predicted WET lead and x = total lead.
Regression Line Slope: $y = 0.0868 \quad x$
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
Type X = Non-hazardous
Type Y-1 = May be reused within Caltrans ROW and must be covered withat least one foot of non-hazardous soil.
Type Z-2 = California Hazardous Waste

TABLE 4
LEAD STATISTICAL ANALYSIS RESULTS
LOCATION 2
WESTBOUND ROUTE 134 ON RAMP FROM SAN FERNANDO ROAD (BORINGS 1133-106 TO 1133-110)
LOS ANGELES COUNTY, CALIFORNIA

	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		Classification	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
Each Layer						
0 to 0.5 ft.	194	199	16.8	17.3	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 1.0 ft.	533	578	46.3	50.1	Type Y-1	CA Hazardous (Type Z-2)
1.5 to 2.0 ft.	161	180	14.0	15.6	Type Y-1	CA Hazardous (Type Z-2)
Combined Layer(s)						
0 to 0.5 ft	194	199	16.8	17.3	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (0.5 to 2.0 ft.)	*409*	*445*	35.5	*38.6*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 1.0 ft	364	388	31.6	33.7	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (1.0 to 2.0 ft.)	*347*	*379*	30.1	*32.9*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 1.5 ft	420	451	36.5	39.2	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (1.5 to 2.0 ft.)	*161*	*180*	14.0	*15.6*	Type Y-1	CA Hazardous (Type Z-2)
0 to 2.0 ft.	355	384	30.8	33.3	Type Y-1	CA Hazardous (Type Z-2)

Notes:
Combined soil layer values are weighted averages based upon maximum concentrations for each depth interval.
WET lead concentrations are predicted using slope of regression line,
where y = predicted WET lead and x = total lead.
Regression Line Slope: $y = 0.0868 \quad x$
mg/kg = milligrams per kilogram
mg/l = milligrams per liter
Type X = Non-hazardous
Type Y-1 = May be reused within Caltrans ROW and must be covered withat least one foot of non-hazardous soil.
Type Z-2 = California Hazardous Waste

TABLE 5
LEAD STATISTICAL ANALYSIS RESULTS
LOCATION 3
EASTBOUND ROUTE 134 ON RAMP FROM SAN RAFAEL AVENUE (BORINGS 1133-111 TO 1133-115)
LOS ANGELES COUNTY, CALIFORNIA

	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		Classification	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
Each Layer						
0 to 0.5 ft.	191	203	16.6	17.6	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 1.0 ft.	17.9	18	1.6	1.6	Type X	Non-Hazardous
1.5 to 2.0 ft.	20	21	1.7	1.8	Type X	Non-Hazardous
Combined Layer(s)						
0 to 0.5 ft	191	203	16.6	17.6	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (0.5 to 2.0 ft.)	*19*	*19*	*1.6*	*1.7*	*Type X*	*Non-Hazardous*
0 to 1.0 ft	104	110	9.1	9.6	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (1.0 to 2.0 ft.)	*19*	*20*	*1.6*	*1.7*	*Type X*	*Non-Hazardous*
0 to 1.5 ft	76	80	6.6	6.9	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (1.5 to 2.0 ft.)	*20*	*21*	*1.7*	*1.8*	*Type X*	*Non-Hazardous*
0 to 2.0 ft.	62	65	5.4	5.6	Type Y-1	CA Hazardous (Type Z-2)

Notes:
Combined soil layer values are weighed averages based upon maximum concentrations for each depth interval
WET lead concentrations are predicted using slope of regression line,
where y = predicted WET lead and x = total lead.
Regression Line Slope: $y = 0.0868 \quad x$
mg/kg = milligrams per kilogram
mg/l = milligram per liter
Type X = Non-hazardous
Type Y-1 May be reused within Caltrans ROW and must be covered with at least one foot of non-hazardous soil.
Type Z-2 = California Hazardous Waste

TABLE 6
LEAD STATISTICAL ANALYSIS RESULTS
LOCATION 4
WESTBOUND ROUTE 134 ON RAMP FROM SAN RAFAEL AVENUE (BORINGS 1133-116 TO 1133-120)
LOS ANGELES COUNTY, CALIFORNIA

	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		Classification	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
Each Layer						
0 to 0.5 ft.	207	218	18	19	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 1.0 ft.	19	21	1.6	1.8	Type X	Non-Hazardous
1.5 to 2.0 ft.	21	23	1.8	2.0	Type X	Non-Hazardous
Combined Layer(s)						
0 to 0.5 ft	207	218	18	19	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (0.5 to 2.0 ft.)	*20*	*22*	*1.7*	1.9	*Type X*	*Non-Hazardous*
0 to 1.0 ft	113	120	9.8	10.4	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (1.0 to 2.0 ft.)	*20*	*22*	*1.7*	*1.9*	*Type X*	*Non-Hazardous*
0 to 1.5 ft	82	87	7.1	7.5	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (1.5 to 2.0 ft.)	*21*	*23*	*1.8*	*2.0*	*Type X*	*Non-Hazardous*
0 to 2.0 ft.	67	71	5.8	6.1	Type Y-1	CA Hazardous (Type Z-2)

Notes:
Combined soil layer values are weighted averages based upon maximum concentrations for each depth interv
WET lead concentrations are predicted using slope of regression line,
where y = predicted WET lead and x = total lead.
Regression Line Slope: $y = 0.0868 \quad x$
mg/kg = milligram per kilogram
mg/l = milligram per liter
Type X = Non -hazardous
Type Y -1 = May be reused within Caltrans ROW and must be covered with at least one foot of non-hazardous soil.
Type Z-2 = California Hazardous Waste

TABLE 7
LEAD STATISTICAL ANALYSIS RESULTS
LOCATION 5
SOUTHBOUND ROUTE 2 ON RAMP FROM WESTBOUND ROUTE 134 (BORINGS 1133-121 TO 1133-125)
LOS ANGELES COUNTY, CALIFORNIA

	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		Classification	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
Each Layer						
0 to 0.5 ft.	96	105	8.4	9.1	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 1.0 ft.	30	32	2.6	2.8	Type X	Non-Hazardous
1.5 to 2.0 ft.	15	16	1.3	1.4	Type X	Non-Hazardous
Combined Layer(s)						
0 to 0.5 ft	96	105	8.4	9.1	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (0.5 to 2.0 ft.)	*25*	*27*	*2.2*	*2.3*	*Type X*	*Non-Hazardous*
0 to 1.0 ft	63	69	5.5	6.0	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (1.0 to 2.0 ft.)	*22*	*24*	*1.9*	*2.1*	*Type X*	*Non-Hazardous*
0 to 1.5 ft	52	57	4.5	4.9	Type X	Non-Hazardous
Underlying Soil (1.5 to 2.0 ft.)	*15*	*16*	*1.3*	*1.4*	*Type X*	*Non-Hazardous*
0 to 2.0 ft.	43	46	3.7	4.0	Type X	Non-Hazardous

Notes:
Combined soil layer values are weighted averages based upon maximum concentrations for each depth interva
WET lead concentrations are predicted using slope of regression line,
where y = predicted WET lead and x = total lead.
Regression Line Slope: $y = 0.0868 \quad x$
mg/kg = milligram per kilogram
mg/l = milligram per liter
Type X = Non-hazardous
Type Y-1 May be reused within Caltrans ROW and must be covered with at least one foot of non-hazardous soil.
Type Z -2 = California Hazardous Waste

TABLE 8
LEAD STATISTICAL ANALYSIS RESULTS
LOCATION 6
NORTHBOUND ROUTE 2 ON RAMP FROM YORK BOULEVARD (BORINGS 1133-126 TO 1133-130)
LOS ANGELES COUNTY, CALIFORNIA

	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		Classification	
	90% UCL/MAX	95% UCL/MAX	90% UCL/MAX	95% UCL/MAX	On Site Reuse Classification	Off Site Disposal Classification
Each Layer						
0 to 0.5 ft.	717	757	62.2	65.7	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 1.0 ft.*	22	22	1.9	1.9	Type X	Non-Hazardous
1.5 to 2.0 ft.	26	29	2.3	2.5	Type X	Non-Hazardous
Combined Layer(s)						
0 to 0.5 ft	717	757	62.2	65.7	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (0.5 to 2.0 ft.)	*23*	*24*	*2.0*	*2.1*	*Type X*	*Non-Hazardous*
0 to 1.0 ft	370	389	32.1	33.8	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (1.0 to 2.0 ft.)	*24*	*25*	*2.1*	*2.2*	*Type X*	*Non-Hazardous*
0 to 1.5 ft	254	267	22.0	23.2	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (1.5 to 2.0 ft.)	*26*	*29*	*2.3*	*2.5*	*Type X*	*Non-Hazardous*
0 to 2.0 ft.	197	207	17.1	18.0	Type Y-1	CA Hazardous (Type Z-2)

Notes:
Combined soil layer values are weighted averages based upon maximum concentrations for each depth interv
* = Value is the maximum reported total lead concentration because UCLs could not be calculated due to less than 5 unique values in the data se
WET lead concentrations are predicted using slope of regression line,
where y = predicted WET lead and x = total lead.
Regression Line Slope: $y = 0.0868 \quad x$
mg/kg = milligram per kilogram
mg/l = milligram per liter
Type X = Non-hazardous
Type Y-1 May be reused within Caltrans ROW and must be covered with at least one foot of non-hazardous soil.
Type Z-2 = California Hazardous Waste

TABLE 9
LEAD STATISTICAL ANALYSIS RESULTS
LOCATION 7
SOUTHBOUND ROUTE 2 ON RAMP FROM COLORADO BOULEVARD (BORINGS 1133-131 TO 1133-135)
LOS ANGELES COUNTY, CALIFORNIA

	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		Classification	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
Each Layer						
0 to 0.5 ft.	323	350	28.0	30.4	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 1.0 ft.	35	38	3.0	3.3	Type X	Non-Hazardous
1.5 to 2.0 ft.	17	18	1.5	1.6	Type X	Non-Hazardous
Combined Layer(s)						
0 to 0.5 ft	323	350	28.0	30.4	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (0.5 to 2.0 ft.)	*29*	*31*	2.5	*2.7*	*Type X*	*Non-Hazardous*
0 to 1.0 ft	179	194	15.5	16.9	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (1.0 to 2.0 ft.)	*26*	*28*	*2.3*	*2.4*	*Type X*	*Non-Hazardous*
0 to 1.5 ft	131	142	11.4	12.3	Type Y-1	CA Hazardous (Type Z-2)
Underlying Soil (1.5 to 2.0 ft.)	*17*	*18*	*1.5*	*1.6*	*Type X*	*Non-Hazardous*
0 to 2.0 ft.	103	111	8.9	9.6	Type Y-1	CA Hazardous (Type Z-2)

Notes:
Combined soil layer values are weighted averages based upon maximum concentrations for each depth interval.
WET lead concentrations are predicted using slope of regression line,
where y = predicted WET lead and x = total lead.
Regression Line Slope: $y = 0.0868 \quad x$
mg/kg = milligram per kilogram
mg/l = milligram per liter
Type X = Non-hazardous
Type Y-1 May be reused within Caltrans ROW and must be covered with at least one foot of non-hazardous soil
Type Z-2 = California Hazardous Waste

TABLE 10
LEAD STATISTICAL ANALYSIS RESULTS
LOCATION 8
NORTHBOUND ROUTE 2 ON RAMP FROM EAGLE ROCK BOULEVARD (BORINGS 1133-136 TO 1133-140)
LOS ANGELES COUNTY, CALIFORNIA

	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		Classification	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
Each Layer						
0 to 0.5 ft.	427	450	37.1	39.0	Type Y-2	CA Hazardous (Type Z-2)
0.5 to 1.0 ft.	136	150	11.8	13.0	Type Y-2	CA Hazardous (Type Z-2)
1.5 to 2.0 ft.	55	62	4.7	5.4	Type X	CA Hazardous (Type Z-2)
Combined Layer(s)						
0 to 0.5 ft	427	450	37.1	39.0	Type Y-2	CA Hazardous (Type Z-2)
Underlying Soil (0.5 to 2.0 ft.)	*109*	*121*	*9.5*	*10.5*	*Type Y-2*	*CA Hazardous (Type Z-2)*
0 to 1.0 ft	282	300	24.4	26.0	Type Y-2	CA Hazardous (Type Z-2)
Underlying Soil (1.0 to 2.0 ft.)	*95*	*106*	*8.3*	*9.2*	*Type Y-2*	*CA Hazardous (Type Z-2)*
0 to 1.5 ft	233	250	20.2	21.7	Type Y-2	CA Hazardous (Type Z-2)
Underlying Soil (1.5 to 2.0 ft.)	*55*	*62*	*4.7*	*5.4*	*Type X*	*CA Hazardous (Type Z-2)*
0 to 2.0 ft.	188	203	16.4	17.6	Type Y-2	CA Hazardous (Type Z-2)

Notes:
Combined soil layer values are weighted averages based upon maximum concentrations for each depth interv
WET lead concentrations are predicted using slope of regression line,
where y = predicted WET lead and x = total lead.
Regression Line Slope: $y = 0.0868 \quad x$
mg/kg = milligram per kilogram
mg/l = milligram per liter
Type X = Non-hazardous
Type Y-2 May be reused within Caltrans ROW and must be covered with a pavement structure maintained by Caltrans.
Type Z-2 = California Hazardous Waste

APPENDIX A

May 02, 2011

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 117462

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504

TEL: (818) 841-8388
FAX: (818) 841-1704

RE: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

Attention: Mike Conkle

Enclosed are the results for sample(s) received on April 20, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for samples 117462-050ADUP, 117462-060ADUP and 117462-070ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for Method 7420

Dilution was necessary for samples 117462-001A, 117462-007A, 117462-010A, 117462-017A, 117462-018A, 117462-019A, 117462-020A, 117462-022A, 117462-023A, 117462-025A, 117462-028A, 117462-031A, 117462-034A, 117462-037A, 117462-043A, 117462-046A, 117462-049A, 117462-058A and 117462-061A, due to sample matrix.

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for samples 117462-020AMS, 117462-043AMS, 117462-043AMSD, 117508-002AMS and 117508-002AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 *Tel: 562. 989.4045* *Fax: 562.989.4040*

Advanced Technology Laboratories

Date: 5/2/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117462
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/20/2011 6:06:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117462-001A	1133-101-0	390	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-002A	1133-101-1	21	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-003A	1133-101-2	5.2	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-004A	1133-102-0	120	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-005A	1133-102-1	14	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-006A	1133-102-2	5.2	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-007A	1133-103-0	160	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-008A	1133-103-1	3.6	mg/Kg	72426	0.13	5.0	J	1	4/20/2011	4/22/2011
117462-009A	1133-103-2	9.1	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-010A	1133-104-0	160	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-011A	1133-104-1	21	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-012A	1133-104-2	8.1	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-013A	1133-105-0	82	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-014A	1133-105-1	21	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-015A	1133-105-2	8.0	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-016A	1133-106-0	130	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-017A	1133-106-1	700	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-018A	1133-106-2	290	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/2/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117462
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/20/2011 6:06:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117462-019A	1133-107-0	180	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-020A	1133-107-1	590	mg/Kg	72426	0.13	5.0		1	4/20/2011	4/22/2011
117462-021A	1133-107-2	31	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-022A	1133-108-0	140	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-023A	1133-108-1	500	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-024A	1133-108-2	150	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-025A	1133-109-0	200	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-026A	1133-109-1	39	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-027A	1133-109-2	15	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-028A	1133-110-0	220	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-029A	1133-110-1	26	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-030A	1133-110-2	12	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-031A	1133-111-0	280	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-032A	1133-111-1	20	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-033A	1133-111-2	17	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-034A	1133-112-0	130	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-035A	1133-112-1	17	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-036A	1133-112-2	7.5	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/2/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117462
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/20/2011 6:06:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117462-037A	1133-113-0	120	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-038A	1133-113-1	12	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-039A	1133-113-2	15	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-040A	1133-114-0	53	mg/Kg	72427	0.13	5.0		1	4/20/2011	4/22/2011
117462-041A	1133-114-1	17	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-042A	1133-114-2	11	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-043A	1133-115-0	160	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-044A	1133-115-1	16	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-045A	1133-115-2	28	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-046A	1133-116-0	220	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-047A	1133-116-1	36	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-048A	1133-116-2	37	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-049A	1133-117-0	210	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-050A	1133-117-1	8.6	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-051A	1133-117-2	6.8	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-052A	1133-118-0	230	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-053A	1133-118-1	4.3	mg/Kg	72428	0.13	5.0	J	1	4/20/2011	4/22/2011
117462-054A	1133-118-2	12	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/2/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117462
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/20/2011 6:06:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117462-055A	1133-119-0	96	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-056A	1133-119-1	7.1	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-057A	1133-119-2	13	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-058A	1133-120-0	120	mg/Kg	72428	0.13	5.0		1	4/20/2011	4/22/2011
117462-059A	1133-120-1	3.9	mg/Kg	72428	0.13	5.0	J	1	4/20/2011	4/22/2011
117462-060A	1133-120-2	3.5	mg/Kg	72428	0.13	5.0	J	1	4/20/2011	4/22/2011
117462-061A	1133-121-0	160	mg/Kg	72429	0.13	5.0		1	4/20/2011	4/22/2011
117462-062A	1133-121-1	22	mg/Kg	72429	0.13	5.0		1	4/20/2011	4/22/2011
117462-063A	1133-121-2	14	mg/Kg	72429	0.13	5.0		1	4/20/2011	4/22/2011
117462-064A	1133-122-0	68	mg/Kg	72429	0.13	5.0		1	4/20/2011	4/22/2011
117462-065A	1133-122-1	52	mg/Kg	72429	0.13	5.0		1	4/20/2011	4/22/2011
117462-066A	1133-122-2	4.3	mg/Kg	72429	0.13	5.0	J	1	4/20/2011	4/22/2011
117462-067A	1133-123-0	29	mg/Kg	72429	0.13	5.0		1	4/20/2011	4/22/2011
117462-068A	1133-123-1	14	mg/Kg	72429	0.13	5.0		1	4/20/2011	4/22/2011
117462-069A	1133-123-2	24	mg/Kg	72429	0.13	5.0		1	4/20/2011	4/22/2011
117462-070A	1133-124-0	11	mg/Kg	72429	0.13	5.0		1	4/20/2011	4/22/2011
117462-071A	1133-124-1	5.5	mg/Kg	72429	0.13	5.0		1	4/20/2011	4/22/2011
117462-072A	1133-124-2	2.4	mg/Kg	72429	0.13	5.0	J	1	4/20/2011	4/22/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/2/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117462
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/20/2011 6:06:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117462-073A	1133-125-0	69	mg/Kg	72429	0.13	5.0		1	4/20/2011	4/22/2011
117462-074A	1133-125-1	6.8	mg/Kg	72429	0.13	5.0		1	4/20/2011	4/22/2011
117462-075A	1133-125-2	7.7	mg/Kg	72429	0.13	5.0		1	4/20/2011	4/22/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/2/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC) WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117462
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/20/2011 6:06:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117462-001A	1133-101-0	35	mg/L	72460	1.0	1.2		5	4/20/2011	4/28/2011
117462-004A	1133-102-0	6.4	mg/L	72460	0.21	0.25		1	4/20/2011	4/28/2011
117462-007A	1133-103-0	13	mg/L	72460	0.41	0.50		2	4/20/2011	4/28/2011
117462-010A	1133-104-0	17	mg/L	72460	0.41	0.50		2	4/20/2011	4/28/2011
117462-013A	1133-105-0	5.2	mg/L	72460	0.21	0.25		1	4/20/2011	4/28/2011
117462-016A	1133-106-0	8.9	mg/L	72460	0.21	0.25		1	4/20/2011	4/28/2011
117462-017A	1133-106-1	78	mg/L	72460	2.1	2.5		10	4/20/2011	4/28/2011
117462-018A	1133-106-2	30	mg/L	72460	1.0	1.2		5	4/20/2011	4/28/2011
117462-019A	1133-107-0	17	mg/L	72460	0.41	0.50		2	4/20/2011	4/28/2011
117462-020A	1133-107-1	51	mg/L	72460	2.1	2.5		10	4/20/2011	4/28/2011
117462-022A	1133-108-0	13	mg/L	72460	0.41	0.50		2	4/20/2011	4/28/2011
117462-023A	1133-108-1	44	mg/L	72460	1.0	1.2		5	4/20/2011	4/28/2011
117462-024A	1133-108-2	7.8	mg/L	72460	0.21	0.25		1	4/20/2011	4/28/2011
117462-025A	1133-109-0	15	mg/L	72460	0.41	0.50		2	4/20/2011	4/28/2011
117462-028A	1133-110-0	23	mg/L	72460	1.0	1.2		5	4/20/2011	4/28/2011
117462-031A	1133-111-0	12	mg/L	72460	0.41	0.50		2	4/20/2011	4/28/2011
117462-034A	1133-112-0	12	mg/L	72460	0.41	0.50		2	4/20/2011	4/28/2011
117462-037A	1133-113-0	10	mg/L	72460	0.41	0.50		2	4/20/2011	4/28/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/2/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117462
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/20/2011 6:06:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117462-040A	1133-114-0	4.7	mg/L	72460	0.21	0.25		1	4/20/2011	4/28/2011
117462-043A	1133-115-0	15	mg/L	72460	0.41	0.50		2	4/20/2011	4/28/2011
117462-046A	1133-116-0	17	mg/L	72461	0.41	0.50		2	4/20/2011	4/28/2011
117462-049A	1133-117-0	14	mg/L	72461	0.41	0.50		2	4/20/2011	4/28/2011
117462-052A	1133-118-0	0.41	mg/L	72461	0.21	0.25		1	4/20/2011	4/28/2011
117462-055A	1133-119-0	6.6	mg/L	72461	0.21	0.25		1	4/20/2011	4/28/2011
117462-058A	1133-120-0	11	mg/L	72461	0.41	0.50		2	4/20/2011	4/28/2011
117462-061A	1133-121-0	21	mg/L	72461	1.0	1.2		5	4/20/2011	4/28/2011
117462-064A	1133-122-0	5.2	mg/L	72461	0.21	0.25		1	4/20/2011	4/28/2011
117462-065A	1133-122-1	2.5	mg/L	72461	0.21	0.25		1	4/20/2011	4/28/2011
117462-073A	1133-125-0	5.3	mg/L	72461	0.21	0.25		1	4/20/2011	4/28/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-72426A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/22/2011	RunNo: 132296
Client ID: PBS	Batch ID: 72426	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 4/22/2011	SeqNo: 2155278

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.212	5.0									J

Sample ID: LCS-72426	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/22/2011	RunNo: 132296
Client ID: LCSS	Batch ID: 72426	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 4/22/2011	SeqNo: 2155279

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	266.222	5.0	250.0	0.2118	106	80	120				

Sample ID: 117462-010A-DUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/22/2011	RunNo: 132296
Client ID: 1133-104-0	Batch ID: 72426	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 4/22/2011	SeqNo: 2155290

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	181.501	5.0						157.1	14.4	20	

Sample ID: 117462-010A-MS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/22/2011	RunNo: 132296
Client ID: 1133-104-0	Batch ID: 72426	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 4/22/2011	SeqNo: 2155291

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	376.935	5.0	250.0	157.1	87.9	34	126				

Sample ID: MB-72426B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 4/22/2011	RunNo: 132296
Client ID: PBS	Batch ID: 72426	TestNo: EPA 6010B	EPA 3050M	Analysis Date: 4/22/2011	SeqNo: 2155292

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **117462-020A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132296**
Client ID: **1133-107-1** Batch ID: **72426** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155303**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	619.846	5.0						591.6	4.66	20	

Sample ID: **117462-020A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132296**
Client ID: **1133-107-1** Batch ID: **72426** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155304**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	736.477	5.0	250.0	591.6	57.9	34	126				

Sample ID: **117462-020A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132296**
Client ID: **1133-107-1** Batch ID: **72426** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155305**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	895.274	5.0	250.0	591.6	121	34	126	736.5	19.5	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-72427A | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 4/22/2011 | RunNo: 132304
Client ID: PBS | Batch ID: 72427 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 4/22/2011 | SeqNo: 2155362

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: LCS-72427 | SampType: LCS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 4/22/2011 | RunNo: 132304
Client ID: LCSS | Batch ID: 72427 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 4/22/2011 | SeqNo: 2155363

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	276.051	5.0	250.0	0	110	80	120				

Sample ID: 117462-030A-DUP | SampType: DUP | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 4/22/2011 | RunNo: 132304
Client ID: 1133-110-2 | Batch ID: 72427 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 4/22/2011 | SeqNo: 2155374

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.791	5.0						12.03	10.8	20	

Sample ID: 117462-030A-MS | SampType: MS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 4/22/2011 | RunNo: 132304
Client ID: 1133-110-2 | Batch ID: 72427 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 4/22/2011 | SeqNo: 2155375

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	241.208	5.0	250.0	12.03	91.7	34	126				

Sample ID: MB-72427A | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 4/22/2011 | RunNo: 132304
Client ID: PBS | Batch ID: 72427 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 4/22/2011 | SeqNo: 2155376

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **117462-040A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132304**
Client ID: **1133-114-0** Batch ID: **72427** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155387**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	50.193	5.0						53.30	6.00	20	

Sample ID: **117462-040A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132304**
Client ID: **1133-114-0** Batch ID: **72427** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155388**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	295.253	5.0	250.0	53.30	96.8	34	126				

Sample ID: **117462-040A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132304**
Client ID: **1133-114-0** Batch ID: **72427** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155389**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	262.251	5.0	250.0	53.30	83.6	34	126	295.3	11.8	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-72428A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132305**
Client ID: **PBS** Batch ID: **72428** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155390**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-72428** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132305**
Client ID: **LCSS** Batch ID: **72428** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155391**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	277.574	5.0	250.0	0	111	80	120				

Sample ID: **117462-050A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132305**
Client ID: **1133-117-1** Batch ID: **72428** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155402**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	26.187	5.0						8.645	101	20	R

Sample ID: **117462-050A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132305**
Client ID: **1133-117-1** Batch ID: **72428** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155403**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	188.002	5.0	250.0	8.645	71.7	34	126				

Sample ID: **MB-72428B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132305**
Client ID: **PBS** Batch ID: **72428** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155404**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **117462-060A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132305**
Client ID: **1133-120-2** Batch ID: **72428** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155415**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.572	5.0						3.459	46.8	20	R

Sample ID: **117462-060A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132305**
Client ID: **1133-120-2** Batch ID: **72428** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155416**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	183.638	5.0	250.0	3.459	72.1	34	126				

Sample ID: **117462-060A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132305**
Client ID: **1133-120-2** Batch ID: **72428** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155417**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	185.120	5.0	250.0	3.459	72.7	34	126	183.6	0.803	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: MB-72429A | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 4/22/2011 | RunNo: 132306
Client ID: PBS | Batch ID: 72429 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 4/22/2011 | SeqNo: 2155418

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: LCS-72429 | SampType: LCS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 4/22/2011 | RunNo: 132306
Client ID: LCSS | Batch ID: 72429 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 4/22/2011 | SeqNo: 2155419

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	270.383	5.0	250.0	0	108	80	120				

Sample ID: 117462-070A-DUP | SampType: DUP | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 4/22/2011 | RunNo: 132306
Client ID: 1133-124-0 | Batch ID: 72429 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 4/22/2011 | SeqNo: 2155430

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	6.619	5.0						10.60	46.2	20	R

Sample ID: 117462-070A-MS | SampType: MS | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 4/22/2011 | RunNo: 132306
Client ID: 1133-124-0 | Batch ID: 72429 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 4/22/2011 | SeqNo: 2155431

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	214.182	5.0	250.0	10.60	81.4	34	126				

Sample ID: MB-72429B | SampType: MBLK | TestCode: 6010_SPB | Units: mg/Kg | Prep Date: 4/22/2011 | RunNo: 132306
Client ID: PBS | Batch ID: 72429 | TestNo: EPA 6010B | EPA 3050M | Analysis Date: 4/22/2011 | SeqNo: 2155432

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **117462-075A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132306**
Client ID: **1133-125-2** Batch ID: **72429** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155438**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.482	5.0						7.652	2.24	20	

Sample ID: **117462-075A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132306**
Client ID: **1133-125-2** Batch ID: **72429** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155439**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	195.480	5.0	250.0	7.652	75.1	34	126				

Sample ID: **117462-075A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/22/2011** RunNo: **132306**
Client ID: **1133-125-2** Batch ID: **72429** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/22/2011** SeqNo: **2155440**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	201.653	5.0	250.0	7.652	77.6	34	126	195.5	3.11	20	

Qualifiers:

B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
S Spike/Surrogate outside of limits due to matrix interference
E Value above quantitation range
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: MB-72460A | SampType: MBLK | TestCode: 7420_ST | Units: mg/L | Prep Date: 4/26/2011 | RunNo: 132451
Client ID: PBS | Batch ID: 72460 | TestNo: WET/ EPA 74 WET | Analysis Date: 4/28/2011 | SeqNo: 2157849

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: LCS-72460 | SampType: LCS | TestCode: 7420_ST | Units: mg/L | Prep Date: 4/26/2011 | RunNo: 132451
Client ID: LCSS | Batch ID: 72460 | TestNo: WET/ EPA 74 WET | Analysis Date: 4/28/2011 | SeqNo: 2157850

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.058	0.25	5.000	0	101	80	120				

Sample ID: 117462-020A-DUP | SampType: DUP | TestCode: 7420_ST | Units: mg/L | Prep Date: 4/26/2011 | RunNo: 132451
Client ID: 1133-107-1 | Batch ID: 72460 | TestNo: WET/ EPA 74 WET | Analysis Date: 4/28/2011 | SeqNo: 2157861

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	50.874	2.5						51.00	0.248	20	

Sample ID: 117462-020A-MS | SampType: MS | TestCode: 7420_ST | Units: mg/L | Prep Date: 4/26/2011 | RunNo: 132451
Client ID: 1133-107-1 | Batch ID: 72460 | TestNo: WET/ EPA 74 WET | Analysis Date: 4/28/2011 | SeqNo: 2157862

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	57.839	2.5	5.000	51.00	137	80	120				S

Sample ID: MB-72460B | SampType: MBLK | TestCode: 7420_ST | Units: mg/L | Prep Date: 4/26/2011 | RunNo: 132451
Client ID: PBS | Batch ID: 72460 | TestNo: WET/ EPA 74 WET | Analysis Date: 4/28/2011 | SeqNo: 2157863

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **117462-043A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **4/26/2011** RunNo: **132451**
Client ID: **1133-115-0** Batch ID: **72460** TestNo: **WET/ EPA 74 WET** Analysis Date: **4/28/2011** SeqNo: **2157874**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	15.457	0.50						15.43	0.177	20	

Sample ID: **117462-043A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **4/26/2011** RunNo: **132451**
Client ID: **1133-115-0** Batch ID: **72460** TestNo: **WET/ EPA 74 WET** Analysis Date: **4/28/2011** SeqNo: **2157875**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	21.938	1.0	5.000	15.43	130	80	120				S

Sample ID: **117462-043A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **4/26/2011** RunNo: **132451**
Client ID: **1133-115-0** Batch ID: **72460** TestNo: **WET/ EPA 74 WET** Analysis Date: **4/28/2011** SeqNo: **2157876**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	22.098	1.0	5.000	15.43	133	80	120	21.94	0.727	20	S

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected below quantitation limits
- S Spike/Surrogate outside of limits due to matrix interference
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- DO Surrogate Diluted Out
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: MB-72461A | SampType: MBLK | TestCode: 7420_ST | Units: mg/L | Prep Date: 4/26/2011 | RunNo: 132452
Client ID: PBS | Batch ID: 72461 | TestNo: WET/ EPA 74 WET | Analysis Date: 4/28/2011 | SeqNo: 2157877

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: LCS-72461 | SampType: LCS | TestCode: 7420_ST | Units: mg/L | Prep Date: 4/26/2011 | RunNo: 132452
Client ID: LCSS | Batch ID: 72461 | TestNo: WET/ EPA 74 WET | Analysis Date: 4/28/2011 | SeqNo: 2157878

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.143	0.25	5.000	0	103	80	120				

Sample ID: 117508-002A-DUP | SampType: DUP | TestCode: 7420_ST | Units: mg/L | Prep Date: 4/26/2011 | RunNo: 132452
Client ID: ZZZZZZ | Batch ID: 72461 | TestNo: WET/ EPA 74 WET | Analysis Date: 4/28/2011 | SeqNo: 2157889

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	7.743	0.25						7.782	0.496	20	

Sample ID: 117508-002A-MS | SampType: MS | TestCode: 7420_ST | Units: mg/L | Prep Date: 4/26/2011 | RunNo: 132452
Client ID: ZZZZZZ | Batch ID: 72461 | TestNo: WET/ EPA 74 WET | Analysis Date: 4/28/2011 | SeqNo: 2157890

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	14.269	0.50	5.000	7.782	130	80	120				S

Sample ID: 117508-002A-MSD | SampType: MSD | TestCode: 7420_ST | Units: mg/L | Prep Date: 4/26/2011 | RunNo: 132452
Client ID: ZZZZZZ | Batch ID: 72461 | TestNo: WET/ EPA 74 WET | Analysis Date: 4/28/2011 | SeqNo: 2157891

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	14.011	0.50	5.000	7.782	125	80	120	14.27	1.83	20	S

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

FOR LABORATORY USE ONLY

P.O. #:
Logged By: [signature] Date: 4/20/11

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other:

Sample Condition Upon Receipt
1. CHILLED 5.8 Y ☑ N ☐
2. HEADSPACE (VOA) N/A Y ☐ N ☐
3. CONTAINER INTACT Y ☑ N ☐
4. SEALED Y ☐ N ☑
5. # OF SPLS MATCH COC Y ☑ N ☐
6. PRESERVED Y ☐ N ☑

Client: Geocon
Attention: Mike Conkle
Address: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: 818-841-1704

Project Name: LA Rts. 2 & 134 and Ventura Rt. 33 Project #: S9475-06-07 Sampler: Mike Alcoto (Signature) [signature]

Relinquished by: (Signature and Printed Name) [signature] Mike Alcoto Date: 04/20/11 Time: 1702 Received by: (Signature and Printed Name) [signature] Date: 4/20/11 Time: 1702
Relinquished by: (Signature and Printed Name) [signature] Date: 4/20/11 Time: 1806 Received by: (Signature and Printed Name) FPDiwa [signature] Date: 4/20/11 Time: 1806
Relinquished by: (Signature and Printed Name) [signature] Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Mike Conkle 04/20/11
Print Name Date
Mike Conkle
Signature

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
CT Contract 07A2729
Run samples with total lead greater than or equal to 50 mg/kg by WET. Filter and preseve water samples at lab.

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample ID / Location	Date	Time	Lead	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	117462-1	1133-101-0	4/20/11	0850	x	x				E	1	G J		
	-2	1133-101-1		0852	x	x				E	1	G J		
	-3	1133-101-2		0855	x	x				E	1	G J		
	-4	1133-102-0		0840	x	x				E	1	G J		
	-5	1133-102-1		0845	x	x				E	1	G J		
	-6	1133-102-2		0851	x	x				E	1	G J		
	-7	1133-103-0		0905	x	x				E	1	G J		
	-8	1133-103-1		0908	x	x				E	1	G J		
	-9	1133-103-2		0911	x	x				E	1	G J		
	-10	1133-104-0		0905	x	x				E	1	G J		
	-11	1133-104-1		0909	x	x				E	1	G J		
	-12	1133-104-2		0911	x	x				E	1	G J		
	-13	1133-105-0		0915	x	x				E	1	G J		
	-14	1133-105-1		0918	x	x				E	1	G J		
	-15	1133-105-2		0921	x	x				E	1	G J		
	-16	1133-106-0		1115	x	x				E	1	G J		
	-17	1133-106-1		1118	x	x				E	1	G J		
	-18	1133-106-2		1121	x	x				E	1	G J		
	-19	1133-107-0		1117	x	x				E	1	G J		
	-20	1133-107-1		1120	x	x				E	1	G J		

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: _____ Date: _____

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt
1. CHILLED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐
4. SEALED Y ☐ N ☐
5. # OF SPLS MATCH COC Y ☐ N ☐
6. PRESERVED Y ☐ N ☐

Client: Geocon
Attention: Mike Conkle
Address: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: 818-841-1704

Project Name: LA Rts. 2 & 134 and Ventura Rt. 33 Project #: S9475-06-07 Sampler: Mike Alcoto (Signature)

Relinquished by: (Signature and Printed Name) Mike Alcoto Date: 04/20/11 Time: 1700 Received by: (Signature and Printed Name) Date: 4/20/11 Time: 1706
Relinquished by: (Signature and Printed Name) Date: 4/20/11 Time: 1806 Received by: (Signature and Printed Name) FPDiwn Date: 4/20/11 Time: 1806
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Mike Conkle 04/20/11
Print Name Date
Mike Conkle
Signature

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
CT Contract 07A2729
Run samples with total lead greater than or equal to 50 mg/kg by WET. Filter and preseve water samples at lab.

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested — SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☐ SWRCB Logcode ☐ OTHER _____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample ID / Location	Date	Time	Lead	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	117462-21	1133-107-2	4/20/11	1122	x	x				E	1	G J		
	-22	1133-108-0		1125	x	x				E	1	G J		
	-23	1133-108-1		1128	x	x				E	1	G J		
	-24	1133-108-2		1132	x	x				E	1	G J		
	-25	1133-109-0		1134	x	x				E	1	G J		
	-26	1133-109-1		1136	x	x				E	1	G J		
	-27	1133-109-2		1137	x	x				E	1	G J		
	-28	1133-110-0		1142	x	x				E	1	G J		
	-29	1133-110-1		1145	x	x				E	1	G J		
	-30	1133-110-2		1148	x	x				E	1	G J		
	-31	1133-111-0		1233	x	x				E	1	G J		
	-32	1133-111-1		1235	x	x				E	1	G J		
	-33	1133-111-2		1238	x	x				E	1	G J		
	-34	1133-112-0		1238	x	x				E	1	G J		
	-35	1133-112-1		1240	x	x				E	1	G J		
	-36	1133-112-2		1242	x	x				E	1	G J		
	-37	1133-113-0		1255	x	x				E	1	G J		
	-38	1133-113-1		1258	x	x				E	1	G J		
	-39	1133-113-2		1301	x	x				E	1	G J		
	-40	1133-114-0		1253	x	x				E	1	G J		

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: _____ Date: _____

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt
1. CHILLED Y ☐ N ☐ 4. SEALED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐ 6. PRESERVED Y ☐ N ☐

Client: Geocon
Attention: Mike Conkle
Address: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: 818-841-1704

Project Name: LA Rts. 2 & 134 and Ventura Rt. 33 Project #: S9475-06-07 Sampler: Mike Alcoto (Signature)

Relinquished by: (Signature and Printed Name) Mike Alcoto Date: 04/20/11 Time: 1700 Received by: (Signature and Printed Name) Date: 4/20/11 Time: 1702
Relinquished by: (Signature and Printed Name) Date: 4/20/11 Time: 1806 Received by: (Signature and Printed Name) Fr Diwa Date: 4/20/11 Time: 1806
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Mike Conkle 04/20/11
Print Name Date
Mike Conkle
Signature

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
CT Contract 07A2729
Run samples with total lead greater than or equal to 50 mg/kg by WET. Filter and preseve water samples at lab.

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITE	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample ID / Location	Date	Time	Lead	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	117462-41	1133-114-1	4/20/11	1257	x	x				E	1	G J		
	-42	1133-114-2		1300	x	x				E	1	G J		
	-43	1133-115-0		1313	x	x				E	1	G J		
	-44	1133-115-1		1316	x	x				E	1	G J		
	-45	1133-115-2		1319	x	x				E	1	G J		
	-46	1133-116-0		1400	x	x				E	1	G J		
	-47	1133-116-1		1404	x	x				E	1	G J		
	-48	1133-116-2		1406	x	x				E	1	G J		
	-49	1133-117-0		1400	x	x				E	1	G J		
	-50	1133-117-1		1404	x	x				E	1	G J		
	-51	1133-117-2		1408	x	x				E	1	G J		
	-52	1133-118-0		1419	x	x				E	1	G J		
	-53	1133-118-1		1422	x	x				E	1	G J		
	-54	1133-118-2		1428	x	x				E	1	G J		
	-55	1133-119-0		1414	x	x				E	1	G J		
	-56	1133-119-1		1417	x	x				E	1	G J		
	-57	1133-119-2		1419	x	x				E	1	G J		
	-58	1133-120-0		1440	x	x				E	1	G J		
	-59	1133-120-1		1404	x	x				E	1	G J		
	-60	1133-120-2		1408	x	x				E	1	G J		

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: _____ Date: _____

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt: 1. CHILLED Y ☐ N ☐ 2. HEADSPACE (VOA) Y ☐ N ☐ 3. CONTAINER INTACT Y ☐ N ☐ 4. SEALED Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☐ N ☐ 6. PRESERVED Y ☐ N ☐

Client: Geocon
Attention: Mike Conkle
Address: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: 818-841-1704

Project Name: LA Rts. 2 & 134 and Ventura Rt. 33 Project #: S9475-06-07 Sampler: Mike Alcota (Signature)

Relinquished by: (Signature and Printed Name) Mike Alcota Date: 4/20/11 Time: 1700 Received by: (Signature and Printed Name) Date: 4/20/11 Time: 1702
Relinquished by: (Signature and Printed Name) Date: 4/20/11 Time: 1806 Received by: (Signature and Printed Name) FRDINA Date: 4/20/11 Time: 1805
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Mike Conkle 4/20/11
Print Name Date
Mike Conkle
Signature

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
CT Contract 07A2729
Run samples with total lead greater than or equal to 50 mg/kg by WET. Filter and preseve water samples at lab.

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested — SPECIFY APPROPRIATE MATRIX: SOIL, WATER, GROUND WATER, WASTEWATER

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample ID / Location	Date	Time	Lead	SOIL	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	A7462-01	1133-121-0	4/20/11	1515	x	x	E	1	G J		
	-02	1133-121-1		1522	x	x	E	1	G J		
	-03	1133-121-2		1524	x	x	E	1	G J		
	-04	1133-122-0		1520	x	x	E	1	G J		
	-05	1133-122-1		1524	x	x	E	1	G J		
	-06	1133-122-2		1528	x	x	E	1	G J		
	-07	1133-123-0		1535	x	x	E	1	G J		
	-08	1133-123-1		1541	x	x	E	1	G J		
	-09	1133-123-2		1543	x	x	E	1	G J		
	-10	1133-124-0		1540	x	x	E	1	G J		
	-11	1133-124-1		1543	x	x	E	1	G J		
	-12	1133-124-2		1546	x	x	E	1	G J		
	-13	1133-125-0		1555	x	x	E	1	G J		
	-14	1133-125-1		1584	x	x	E	1	G J		
	-15	1133-125-2		1604	x	x	E	1	G J		
		1133			x	x	E	1	G J		
		1133			x	x	E	1	G J		
		1133			x	x	E	1	G J		
		1133			x	x	E	1	G J		
		1133			x	x	E	1	G J		
		1133			x	x	E	1	G J		

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

May 17, 2011

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504
TEL: (818) 841-8388
FAX: (818) 841-1704

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 117462

RE: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

Attention: Mike Conkle

Enclosed are the results for sample(s) received on April 20, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

This is an addendum report. Please incorporate with documentation previously submitted.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter is an integral part of this analytical report. This Laboratory Report cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0
Lab Order: 117462

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for Method 6010

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for sample 117462-001AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/17/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117462
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/20/2011 6:06:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117462-001A	1133-101-0	0.38	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-004A	1133-102-0	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-007A	1133-103-0	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-010A	1133-104-0	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-013A	1133-105-0	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-016A	1133-106-0	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-017A	1133-106-1	0.66	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-018A	1133-106-2	0.23	mg/L	72863	0.21	0.25	J	1	4/20/2011	5/16/2011
117462-019A	1133-107-0	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-020A	1133-107-1	0.53	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-022A	1133-108-0	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-023A	1133-108-1	0.56	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-024A	1133-108-2	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-025A	1133-109-0	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-028A	1133-110-0	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-031A	1133-111-0	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-034A	1133-112-0	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-037A	1133-113-0	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/17/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117462
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/20/2011 6:06:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117462-043A	1133-115-0	ND	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-046A	1133-116-0	0.35	mg/L	72863	0.21	0.25		1	4/20/2011	5/16/2011
117462-049A	1133-117-0	ND	mg/L	72864	0.21	0.25		1	4/20/2011	5/16/2011
117462-055A	1133-119-0	ND	mg/L	72864	0.21	0.25		1	4/20/2011	5/16/2011
117462-058A	1133-120-0	ND	mg/L	72864	0.21	0.25		1	4/20/2011	5/16/2011
117462-061A	1133-121-0	0.24	mg/L	72864	0.21	0.25	J	1	4/20/2011	5/16/2011
117462-064A	1133-122-0	ND	mg/L	72864	0.21	0.25		1	4/20/2011	5/16/2011
117462-073A	1133-125-0	ND	mg/L	72864	0.21	0.25		1	4/20/2011	5/16/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/17/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117462
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/20/2011 6:06:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117462-001A	1133-101-0	0.33	mg/L	72900	0.21	0.25		1	4/20/2011	5/16/2011
117462-004A	1133-102-0	0.22	mg/L	72899	0.21	0.25	J	1	4/20/2011	5/16/2011
117462-007A	1133-103-0	0.23	mg/L	72899	0.21	0.25	J	1	4/20/2011	5/16/2011
117462-010A	1133-104-0	0.22	mg/L	72899	0.21	0.25	J	1	4/20/2011	5/16/2011
117462-013A	1133-105-0	0.25	mg/L	72899	0.21	0.25	J	1	4/20/2011	5/16/2011
117462-017A	1133-106-1	1.1	mg/L	72899	0.21	0.25		1	4/20/2011	5/16/2011
117462-018A	1133-106-2	0.60	mg/L	72899	0.21	0.25		1	4/20/2011	5/16/2011
117462-020A	1133-107-1	0.82	mg/L	72899	0.21	0.25		1	4/20/2011	5/16/2011
117462-023A	1133-108-1	0.62	mg/L	72899	0.21	0.25		1	4/20/2011	5/16/2011
117462-028A	1133-110-0	0.36	mg/L	72899	0.21	0.25		1	4/20/2011	5/16/2011
117462-031A	1133-111-0	0.21	mg/L	72899	0.21	0.25	J	1	4/20/2011	5/16/2011
117462-034A	1133-112-0	ND	mg/L	72899	0.21	0.25		1	4/20/2011	5/16/2011
117462-037A	1133-113-0	ND	mg/L	72899	0.21	0.25		1	4/20/2011	5/16/2011
117462-043A	1133-115-0	ND	mg/L	72899	0.21	0.25		1	4/20/2011	5/16/2011
117462-046A	1133-116-0	0.26	mg/L	72899	0.21	0.25		1	4/20/2011	5/16/2011
117462-049A	1133-117-0	0.27	mg/L	72899	0.21	0.25		1	4/20/2011	5/16/2011
117462-052A	1133-118-0	0.35	mg/L	72899	0.21	0.25		1	4/20/2011	5/16/2011
117462-055A	1133-119-0	0.22	mg/L	72899	0.21	0.25	J	1	4/20/2011	5/16/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/17/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117462
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/20/2011 6:06:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117462-058A	1133-120-0	0.22	mg/L	72899	0.21	0.25	J	1	4/20/2011	5/16/2011
117462-061A	1133-121-0	0.41	mg/L	72899	0.21	0.25		1	4/20/2011	5/16/2011
117462-064A	1133-122-0	0.22	mg/L	72899	0.21	0.25	J	1	4/20/2011	5/16/2011
117462-073A	1133-125-0	ND	mg/L	72900	0.21	0.25		1	4/20/2011	5/16/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/17/2011

ANALYTICAL RESULTS

pH
EPA 9045C

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117462
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/20/2011 6:06:00 PM
Project No:		**Matrix:**	Soil
Analyte:	pH	**Analyst:**	CBB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117462-001A	1133-101-0	7.6	pH Units	R132915	0.10	0.10		1	4/20/2011	5/13/2011
117462-007A	1133-103-0	8.1	pH Units	R132915	0.10	0.10		1	4/20/2011	5/13/2011
117462-017A	1133-106-1	7.1	pH Units	R132915	0.10	0.10		1	4/20/2011	5/13/2011
117462-020A	1133-107-1	7.1	pH Units	R132915	0.10	0.10		1	4/20/2011	5/13/2011
117462-031A	1133-111-0	7.8	pH Units	R132915	0.10	0.10		1	4/20/2011	5/13/2011
117462-043A	1133-115-0	7.7	pH Units	R132915	0.10	0.10		1	4/20/2011	5/13/2011
117462-046A	1133-116-0	7.7	pH Units	R132915	0.10	0.10		1	4/20/2011	5/13/2011
117462-052A	1133-118-0	7.9	pH Units	R132915	0.10	0.10		1	4/20/2011	5/13/2011
117462-061A	1133-121-0	7.5	pH Units	R132915	0.10	0.10		1	4/20/2011	5/13/2011
117462-064A	1133-122-0	7.6	pH Units	R132915	0.10	0.10		1	4/20/2011	5/13/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-May-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1133-101-0
Lab Order:	117462	**Collection Date:**	4/20/2011 8:50:00 AM
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06	**Matrix:**	SOIL
Lab ID:	117462-001A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B			**EPA 6010B**			
RunID: **ICP8_110513E**	QC Batch: **72869**				PrepDate:	**5/13/2011**	Analyst: **IL**
Antimony	1.1	0.16	2.0	J	mg/Kg	1	5/13/2011 05:50 PM
Arsenic	4.1	0.20	1.0		mg/Kg	1	5/13/2011 05:50 PM
Barium	650	0.056	1.0		mg/Kg	1	5/13/2011 05:50 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	5/13/2011 05:50 PM
Cadmium	1.1	0.043	1.0		mg/Kg	1	5/13/2011 05:50 PM
Chromium	17	0.13	1.0		mg/Kg	1	5/13/2011 05:50 PM
Cobalt	5.2	0.11	1.0		mg/Kg	1	5/13/2011 05:50 PM
Copper	23	0.18	2.0		mg/Kg	1	5/13/2011 05:50 PM
Molybdenum	0.52	0.097	1.0	J	mg/Kg	1	5/13/2011 05:50 PM
Nickel	24	0.11	1.0		mg/Kg	1	5/13/2011 05:50 PM
Selenium	ND	0.28	1.0		mg/Kg	1	5/13/2011 05:50 PM
Silver	ND	0.042	1.0		mg/Kg	1	5/13/2011 05:50 PM
Thallium	ND	0.098	1.0		mg/Kg	1	5/13/2011 05:50 PM
Vanadium	19	0.088	1.0		mg/Kg	1	5/13/2011 05:50 PM
Zinc	120	0.13	1.0		mg/Kg	1	5/13/2011 05:50 PM
MERCURY BY COLD VAPOR TECHNIQUE							
				EPA 7471A			
RunID: **AA5_110516B**	QC Batch: **72896**				PrepDate:	**5/16/2011**	Analyst: **VV**
Mercury	0.039	0.0076	0.10	J	mg/Kg	1	5/16/2011 06:17 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-May-11*

CLIENT: Geocon Consultants, Inc.
Lab Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06
Lab ID: 117462-017A

Client Sample ID: 1133-106-1
Collection Date: 4/20/2011 11:18:00 AM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110513E**	QC Batch: **72869**				PrepDate:	**5/13/2011**	Analyst: **IL**
Antimony	0.80	0.16	2.0	J	mg/Kg	1	5/13/2011 06:11 PM
Arsenic	ND	0.20	1.0		mg/Kg	1	5/13/2011 06:11 PM
Barium	120	0.056	1.0		mg/Kg	1	5/13/2011 06:11 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:11 PM
Cadmium	1.2	0.043	1.0		mg/Kg	1	5/13/2011 06:11 PM
Chromium	15	0.13	1.0		mg/Kg	1	5/13/2011 06:11 PM
Cobalt	9.6	0.11	1.0		mg/Kg	1	5/13/2011 06:11 PM
Copper	32	0.18	2.0		mg/Kg	1	5/13/2011 06:11 PM
Molybdenum	0.51	0.097	1.0	J	mg/Kg	1	5/13/2011 06:11 PM
Nickel	12	0.11	1.0		mg/Kg	1	5/13/2011 06:11 PM
Selenium	ND	0.28	1.0		mg/Kg	1	5/13/2011 06:11 PM
Silver	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:11 PM
Thallium	ND	0.098	1.0		mg/Kg	1	5/13/2011 06:11 PM
Vanadium	33	0.088	1.0		mg/Kg	1	5/13/2011 06:11 PM
Zinc	210	0.13	1.0		mg/Kg	1	5/13/2011 06:11 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA5_110516B**	QC Batch: **72896**				PrepDate:	**5/16/2011**	Analyst: **VV**
Mercury	0.040	0.0076	0.10	J	mg/Kg	1	5/16/2011 06:21 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-May-11*

CLIENT: Geocon Consultants, Inc.
Lab Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06
Lab ID: 117462-031A

Client Sample ID: 1133-111-0
Collection Date: 4/20/2011 12:33:00 PM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B			**EPA 6010B**			
RunID: **ICP8_110513E**	QC Batch: **72869**				PrepDate:	**5/13/2011**	Analyst: **IL**
Antimony	0.75	0.16	2.0	J	mg/Kg	1	5/13/2011 06:15 PM
Arsenic	ND	0.20	1.0		mg/Kg	1	5/13/2011 06:15 PM
Barium	87	0.056	1.0		mg/Kg	1	5/13/2011 06:15 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:15 PM
Cadmium	0.53	0.043	1.0	J	mg/Kg	1	5/13/2011 06:15 PM
Chromium	18	0.13	1.0		mg/Kg	1	5/13/2011 06:15 PM
Cobalt	6.6	0.11	1.0		mg/Kg	1	5/13/2011 06:15 PM
Copper	24	0.18	2.0		mg/Kg	1	5/13/2011 06:15 PM
Molybdenum	0.38	0.097	1.0	J	mg/Kg	1	5/13/2011 06:15 PM
Nickel	6.9	0.11	1.0		mg/Kg	1	5/13/2011 06:15 PM
Selenium	ND	0.28	1.0		mg/Kg	1	5/13/2011 06:15 PM
Silver	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:15 PM
Thallium	ND	0.098	1.0		mg/Kg	1	5/13/2011 06:15 PM
Vanadium	26	0.088	1.0		mg/Kg	1	5/13/2011 06:15 PM
Zinc	140	0.13	1.0		mg/Kg	1	5/13/2011 06:15 PM
MERCURY BY COLD VAPOR TECHNIQUE							
				EPA 7471A			
RunID: **AA5_110516B**	QC Batch: **72896**				PrepDate:	**5/16/2011**	Analyst: **VV**
Mercury	0.053	0.0076	0.10	J	mg/Kg	1	5/16/2011 06:27 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-May-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1133-118-0
Lab Order:	117462	**Collection Date:**	4/20/2011 2:19:00 PM
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06	**Matrix:**	SOIL
Lab ID:	117462-052A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110513E**	QC Batch: **72869**				PrepDate:	**5/13/2011**	Analyst: **IL**
Antimony	0.48	0.16	2.0	J	mg/Kg	1	5/13/2011 06:18 PM
Arsenic	ND	0.20	1.0		mg/Kg	1	5/13/2011 06:18 PM
Barium	110	0.056	1.0		mg/Kg	1	5/13/2011 06:18 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:18 PM
Cadmium	0.58	0.043	1.0	J	mg/Kg	1	5/13/2011 06:18 PM
Chromium	8.7	0.13	1.0		mg/Kg	1	5/13/2011 06:18 PM
Cobalt	8.8	0.11	1.0		mg/Kg	1	5/13/2011 06:18 PM
Copper	18	0.18	2.0		mg/Kg	1	5/13/2011 06:18 PM
Molybdenum	ND	0.097	1.0		mg/Kg	1	5/13/2011 06:18 PM
Nickel	6.0	0.11	1.0		mg/Kg	1	5/13/2011 06:18 PM
Selenium	ND	0.28	1.0		mg/Kg	1	5/13/2011 06:18 PM
Silver	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:18 PM
Thallium	ND	0.098	1.0		mg/Kg	1	5/13/2011 06:18 PM
Vanadium	37	0.088	1.0		mg/Kg	1	5/13/2011 06:18 PM
Zinc	99	0.13	1.0		mg/Kg	1	5/13/2011 06:18 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA5_110516B**	QC Batch: **72896**				PrepDate:	**5/16/2011**	Analyst: **VV**
Mercury	0.071	0.0076	0.10	J	mg/Kg	1	5/16/2011 06:29 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-May-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1133-121-0
Lab Order:	117462	**Collection Date:**	4/20/2011 3:15:00 PM
Project:	LA Rts. 2 & 134 and Ventura Rt.33, S9475-06	**Matrix:**	SOIL
Lab ID:	117462-061A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B			**EPA 6010B**			
RunID: **ICP8_110513E**	QC Batch: **72869**				PrepDate:	**5/13/2011**	Analyst: **IL**
Antimony	0.64	0.16	2.0	J	mg/Kg	1	5/13/2011 06:21 PM
Arsenic	ND	0.20	1.0		mg/Kg	1	5/13/2011 06:21 PM
Barium	110	0.056	1.0		mg/Kg	1	5/13/2011 06:21 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:21 PM
Cadmium	0.93	0.043	1.0	J	mg/Kg	1	5/13/2011 06:21 PM
Chromium	12	0.13	1.0		mg/Kg	1	5/13/2011 06:21 PM
Cobalt	7.1	0.11	1.0		mg/Kg	1	5/13/2011 06:21 PM
Copper	30	0.18	2.0		mg/Kg	1	5/13/2011 06:21 PM
Molybdenum	0.18	0.097	1.0	J	mg/Kg	1	5/13/2011 06:21 PM
Nickel	7.7	0.11	1.0		mg/Kg	1	5/13/2011 06:21 PM
Selenium	ND	0.28	1.0		mg/Kg	1	5/13/2011 06:21 PM
Silver	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:21 PM
Thallium	ND	0.098	1.0		mg/Kg	1	5/13/2011 06:21 PM
Vanadium	40	0.088	1.0		mg/Kg	1	5/13/2011 06:21 PM
Zinc	150	0.13	1.0		mg/Kg	1	5/13/2011 06:21 PM
MERCURY BY COLD VAPOR TECHNIQUE							
				EPA 7471A			
RunID: **AA5_110516B**	QC Batch: **72896**				PrepDate:	**5/16/2011**	Analyst: **VV**
Mercury	0.044	0.0076	0.10	J	mg/Kg	1	5/16/2011 06:31 PM

Qualifiers:				
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
		Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-72869** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/13/2011** RunNo: **132951**
Client ID: **PBS** Batch ID: **72869** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/13/2011** SeqNo: **2168162**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.198	2.0									J
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.139	1.0									J

Sample ID: **LCS-72869** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/13/2011** RunNo: **132951**
Client ID: **LCSS** Batch ID: **72869** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/13/2011** SeqNo: **2168163**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	54.330	2.0	50.00	0.1977	108	80	120				
Arsenic	53.267	1.0	50.00	0	107	80	120				
Barium	55.223	1.0	50.00	0	110	80	120				
Beryllium	49.258	1.0	50.00	0	98.5	80	120				
Cadmium	54.047	1.0	50.00	0	108	80	120				
Chromium	49.009	1.0	50.00	0	98.0	80	120				
Cobalt	53.610	1.0	50.00	0	107	80	120				

Qualifiers:

B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
S Spike/Surrogate outside of limits due to matrix interference
E Value above quantitation range
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-72869** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/13/2011** RunNo: **132951**
Client ID: **LCSS** Batch ID: **72869** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/13/2011** SeqNo: **2168163**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	54.692	2.0	50.00	0	109	80	120				
Lead	53.130	1.0	50.00	0	106	80	120				
Molybdenum	54.891	1.0	50.00	0	110	80	120				
Nickel	52.559	1.0	50.00	0	105	80	120				
Selenium	51.104	1.0	50.00	0	102	80	120				
Silver	51.572	1.0	50.00	0	103	80	120				
Thallium	51.502	1.0	50.00	0	103	80	120				
Vanadium	54.124	1.0	50.00	0	108	80	120				
Zinc	54.018	1.0	50.00	0.1394	108	80	120				

Sample ID: **117462-001A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/13/2011** RunNo: **132951**
Client ID: **1133-101-0** Batch ID: **72869** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/13/2011** SeqNo: **2168165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.714	2.0						1.103	0	20	J
Arsenic	3.828	1.0						4.073	6.20	20	
Barium	662.554	1.0						647.8	2.25	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	1.057	1.0						1.060	0.235	20	
Chromium	17.132	1.0						16.69	2.62	20	
Cobalt	5.085	1.0						5.225	2.73	20	
Copper	21.895	2.0						22.97	4.79	20	
Lead	331.589	1.0						382.5	14.3	20	
Molybdenum	0.593	1.0						0.5250	0	20	J
Nickel	22.435	1.0						24.05	6.96	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	20.022	1.0						19.35	3.39	20	
Zinc	119.876	1.0						119.3	0.492	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **117462-001A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/13/2011** RunNo: **132951**
Client ID: **1133-101-0** Batch ID: **72869** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/13/2011** SeqNo: **2168166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	96.678	2.0	125.0	1.103	76.5	32	105				
Arsenic	112.978	1.0	125.0	4.073	87.1	49	106				
Barium	750.408	1.0	125.0	647.8	82.1	31	133				
Beryllium	109.250	1.0	125.0	0	87.4	56	106				
Cadmium	105.670	1.0	125.0	1.060	83.7	51	103				
Chromium	118.239	1.0	125.0	16.69	81.2	45	114				
Cobalt	110.262	1.0	125.0	5.225	84.0	52	106				
Copper	141.156	2.0	125.0	22.97	94.5	54	125				
Lead	460.457	1.0	125.0	382.5	62.4	34	126				
Molybdenum	108.934	1.0	125.0	0.5250	86.7	54	106				
Nickel	125.961	1.0	125.0	24.05	81.5	45	111				
Selenium	104.905	1.0	125.0	0	83.9	47	104				
Silver	109.861	1.0	125.0	0	87.9	56	112				
Thallium	100.458	1.0	125.0	0	80.4	46	101				
Vanadium	130.531	1.0	125.0	19.35	88.9	54	114				
Zinc	216.708	1.0	125.0	119.3	77.9	28	125				

Sample ID: **117462-001A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/13/2011** RunNo: **132951**
Client ID: **1133-101-0** Batch ID: **72869** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/13/2011** SeqNo: **2168167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	95.423	2.0	125.0	1.103	75.5	32	105	96.68	1.31	20	
Arsenic	114.995	1.0	125.0	4.073	88.7	49	106	113.0	1.77	20	
Barium	844.434	1.0	125.0	647.8	157	31	133	750.4	11.8	20	S
Beryllium	106.903	1.0	125.0	0	85.5	56	106	109.2	2.17	20	
Cadmium	105.203	1.0	125.0	1.060	83.3	51	103	105.7	0.443	20	
Chromium	118.112	1.0	125.0	16.69	81.1	45	114	118.2	0.108	20	
Cobalt	109.926	1.0	125.0	5.225	83.8	52	106	110.3	0.305	20	
Copper	138.736	2.0	125.0	22.97	92.6	54	125	141.2	1.73	20	
Lead	456.624	1.0	125.0	382.5	59.3	34	126	460.5	0.836	20	

Qualifiers:

B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
S Spike/Surrogate outside of limits due to matrix interference
E Value above quantitation range
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **117462-001A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/13/2011** RunNo: **132951**
Client ID: **1133-101-0** Batch ID: **72869** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/13/2011** SeqNo: **2168167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	107.035	1.0	125.0	0.5250	85.2	54	106	108.9	1.76	20	
Nickel	125.896	1.0	125.0	24.05	81.5	45	111	126.0	0.0514	20	
Selenium	103.470	1.0	125.0	0	82.8	47	104	104.9	1.38	20	
Silver	108.290	1.0	125.0	0	86.6	56	112	109.9	1.44	20	
Thallium	99.113	1.0	125.0	0	79.3	46	101	100.5	1.35	20	
Vanadium	128.555	1.0	125.0	19.35	87.4	54	114	130.5	1.53	20	
Zinc	229.476	1.0	125.0	119.3	88.2	28	125	216.7	5.72	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **MB-72863A** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132963**
Client ID: **PBS** Batch ID: **72863** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168554**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-72863** SampType: **LCS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132963**
Client ID: **LCSS** Batch ID: **72863** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168555**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.992	0.25	5.000	0	99.8	80	120				

Sample ID: **117462-020A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132963**
Client ID: **1133-107-1** Batch ID: **72863** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168566**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.509	0.25						0.5266	3.40	20	

Sample ID: **117462-020A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132963**
Client ID: **1133-107-1** Batch ID: **72863** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168567**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.941	0.25	5.000	0.5266	88.3	70	130				

Sample ID: **MB-72863B** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132963**
Client ID: **PBS** Batch ID: **72863** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168568**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **117462-046A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132963**
Client ID: **1133-116-0** Batch ID: **72863** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168579**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.334	0.25						0.3509	5.00	20	

Sample ID: **117462-046A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132963**
Client ID: **1133-116-0** Batch ID: **72863** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168580**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.845	0.25	5.000	0.3509	89.9	70	130				

Sample ID: **117462-046A-MSD** SampType: **MSD** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132963**
Client ID: **1133-116-0** Batch ID: **72863** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168581**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.880	0.25	5.000	0.3509	90.6	70	130	4.845	0.732	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **MB-72864A** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132964**
Client ID: **PBS** Batch ID: **72864** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168582**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-72864** SampType: **LCS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132964**
Client ID: **LCSS** Batch ID: **72864** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168583**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.842	0.25	5.000	0	96.8	80	120				

Sample ID: **117512-010A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132964**
Client ID: **ZZZZZZ** Batch ID: **72864** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168593**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.277	0.25						0.2876	3.88	20	

Sample ID: **117512-010A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132964**
Client ID: **ZZZZZZ** Batch ID: **72864** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168595**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.858	0.25	5.000	0.2876	91.4	70	130				

Sample ID: **MB-72864B** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132964**
Client ID: **PBS** Batch ID: **72864** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168596**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **117512-040A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132964**
Client ID: ZZZZZZ Batch ID: **72864** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168607**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.241	0.25						1.235	0.475	20	

Sample ID: **117512-040A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132964**
Client ID: ZZZZZZ Batch ID: **72864** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168608**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.498	0.25	5.000	1.235	85.3	70	130				

Sample ID: **117512-040A-MSD** SampType: **MSD** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132964**
Client ID: ZZZZZZ Batch ID: **72864** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168609**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.565	0.25	5.000	1.235	86.6	70	130	5.498	1.21	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-72899A** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132987**
Client ID: **PBS** Batch ID: **72899** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168926**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-72861A TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132987**
Client ID: **PBS** Batch ID: **72899** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168927**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-72899** SampType: **LCS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132987**
Client ID: **LCSS** Batch ID: **72899** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168928**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.919	0.25	1.000	0	91.9	80	120				

Sample ID: **117462-031A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132987**
Client ID: **1133-111-0** Batch ID: **72899** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168938**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0.2143	0	20	

Sample ID: **117462-031A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132987**
Client ID: **1133-111-0** Batch ID: **72899** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168940**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.696	0.25	2.500	0.2143	99.3	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: MB-72899B | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132987
Client ID: PBS | Batch ID: 72899 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168941

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: MB-72861B TCLP | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132987
Client ID: PBS | Batch ID: 72899 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168942

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: 117462-064A-DUP | SampType: DUP | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132987
Client ID: 1133-122-0 | Batch ID: 72899 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168953

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0.2235	0	20	

Sample ID: 117462-064A-MS | SampType: MS | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132987
Client ID: 1133-122-0 | Batch ID: 72899 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168954

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.625	0.25	2.500	0.2235	96.1	70	130				

Sample ID: 117462-064A-MSD | SampType: MSD | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132987
Client ID: 1133-122-0 | Batch ID: 72899 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168955

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.702	0.25	2.500	0.2235	99.1	70	130	2.625	2.90	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: MB-72900A | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132988
Client ID: PBS | Batch ID: 72900 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168956

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: MB-72862B TCLP | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132988
Client ID: PBS | Batch ID: 72900 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168957

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: LCS-72900 | SampType: LCS | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132988
Client ID: LCSS | Batch ID: 72900 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168958

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.964	0.25	1.000	0	96.4	80	120				

Sample ID: 117512-025A-DUP | SampType: DUP | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132988
Client ID: ZZZZZZ | Batch ID: 72900 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168969

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.426	0.25						0.4187	1.62	20	

Sample ID: 117512-025A-MS | SampType: MS | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132988
Client ID: ZZZZZZ | Batch ID: 72900 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168970

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.282	0.25	2.500	0.4187	115	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-72900B** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132988**
Client ID: **PBS** Batch ID: **72900** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168971**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-72862B TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132988**
Client ID: **PBS** Batch ID: **72900** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168972**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **117519-010A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132988**
Client ID: **ZZZZZZ** Batch ID: **72900** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168980**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.701	0.25						0.6941	1.00	20	

Sample ID: **117519-010A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132988**
Client ID: **ZZZZZZ** Batch ID: **72900** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.263	0.25	2.500	0.6941	103	70	130				

Sample ID: **117519-010A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132988**
Client ID: **ZZZZZZ** Batch ID: **72900** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168982**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.256	0.25	2.500	0.6941	102	70	130	3.263	0.229	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: **MB-72896** SampType: **MBLK** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **5/16/2011** RunNo: **132990**
Client ID: **PBS** Batch ID: **72896** TestNo: **EPA 7471A** Analysis Date: **5/16/2011** SeqNo: **2169005**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: **LCS-72896** SampType: **LCS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **5/16/2011** RunNo: **132990**
Client ID: **LCSS** Batch ID: **72896** TestNo: **EPA 7471A** Analysis Date: **5/16/2011** SeqNo: **2169006**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.755	0.10	0.8300	0	91.0	80	120				

Sample ID: **117462-001A-MS** SampType: **MS** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **5/16/2011** RunNo: **132990**
Client ID: **1133-101-0** Batch ID: **72896** TestNo: **EPA 7471A** Analysis Date: **5/16/2011** SeqNo: **2169007**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.855	0.10	0.8300	0.03893	98.4	70	130				

Sample ID: **117462-001A-MSD** SampType: **MSD** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **5/16/2011** RunNo: **132990**
Client ID: **1133-101-0** Batch ID: **72896** TestNo: **EPA 7471A** Analysis Date: **5/16/2011** SeqNo: **2169008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.859	0.10	0.8300	0.03893	98.9	70	130	0.8553	0.485	20	

Sample ID: **117462-001A-DUP** SampType: **DUP** TestCode: **7471_S** Units: **mg/Kg** Prep Date: **5/16/2011** RunNo: **132990**
Client ID: **1133-101-0** Batch ID: **72896** TestNo: **EPA 7471A** Analysis Date: **5/16/2011** SeqNo: **2169010**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.038	0.10						0.03893	0	20	J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117462
Project: LA Rts. 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **117462-001ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **132915**
Client ID: **1133-101-0** Batch ID: **R132915** TestNo: **EPA 9045C** Analysis Date: **5/13/2011** SeqNo: **2167277**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.630	0.10						7.580	0.657	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

May 02, 2011

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504
TEL: (818) 841-8388
FAX: (818) 841-1704

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 117463

RE: LA Rts 2 & 134 and Ventura Rt 33, S9475-06-0

Attention: Mike Conkle

Enclosed are the results for sample(s) received on April 20, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Project: LA Rts 2 & 134 and Ventura Rt 33, S9475-06-0
Lab Order: 117463

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 *Tel: 562. 989.4045* *Fax: 562.989.4040*

Advanced Technology Laboratories

Date: 5/2/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117463
Project:	LA Rts 2 & 134 and Ventura Rt 33, S9475-06-0	**Date Received**	4/20/2011 6:06:00 PM
Project No:		**Matrix:**	Water
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117463-001A	1133-100-EB1	ND	mg/L	72441	0.00081	0.25		1	4/20/2011	4/25/2011
117463-002A	1133-100-EB2	ND	mg/L	72441	0.00081	0.25		1	4/20/2011	4/25/2011
117463-003A	1133-100-EB3	ND	mg/L	72441	0.00081	0.25		1	4/20/2011	4/25/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	ND	Not Detected at the Reporting Limit
S	Spike/Surrogate outside of limits due to matrix interference		Results are wet unless otherwise specified
DO	Surrogate Diluted Out		

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 117463
Project: LA Rts 2 & 134 and Ventura Rt 33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPB

Sample ID: **MB-72441** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **4/25/2011** RunNo: **132330**
Client ID: **PBW** Batch ID: **72441** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **4/25/2011** SeqNo: **2155731**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-72441** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **4/25/2011** RunNo: **132330**
Client ID: **LCSW** Batch ID: **72441** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **4/25/2011** SeqNo: **2155732**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.021	0.25	1.000	0	102	85	115				

Sample ID: **117463-001A-MS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **4/25/2011** RunNo: **132330**
Client ID: **1133-100-EB1** Batch ID: **72441** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **4/25/2011** SeqNo: **2155734**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.660	0.25	2.500	0	106	80	118				

Sample ID: **117463-001A-MSD** SampType: **MSD** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **4/25/2011** RunNo: **132330**
Client ID: **1133-100-EB1** Batch ID: **72441** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **4/25/2011** SeqNo: **2155735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.540	0.25	2.500	0	102	80	118	2.660	4.62	20	

Sample ID: **117513-002A-DUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **4/25/2011** RunNo: **132330**
Client ID: **ZZZZZZ** Batch ID: **72441** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **4/25/2011** SeqNo: **2155740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike/Surrogate outside of limits due to matrix interference
DO	Surrogate Diluted Out		Calculations are based on raw values		

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

FOR LABORATORY USE ONLY

P.O. #:
Logged By: Date: 4/20/11

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other:

Sample Condition Upon Receipt:
1. CHILLED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐
3. CONTAINER INTACT Y ☑ N ☐
4. SEALED Y ☐ N ☑
5. # OF SPLS MATCH COC Y ☑ N ☐
6. PRESERVED Y ☐ N ☑

Client: Geocon
Attention: Mike Conkle
Address: 3303 N. San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: 818-841-1704

Project Name: LA Rts 2 & 134 and Ventura Rt. 33 Project #: S9475-06-07 Sampler: Mike Akers (Signature)

Relinquished by: (Signature and Printed Name) Mike Akers Date: 04/20/11 Time: 1700 Received by: (Signature and Printed Name) Date: 4/20/11 Time: 1702
Relinquished by: (Signature and Printed Name) Date: 4/20/11 Time: 1800 Received by: (Signature and Printed Name) Date: 4/20/11 Time: 1800
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Mike Conkle 04/20/11
Print Name Date
Mike Conkle
Signature

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
CT Contract 07A2729
FILTER AND PRESEVE WATER SAMPLES AT LAB.

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample ID / Location	Date	Time	Lead	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	117403-1	1133-100-EB1	04/20/11	1155	x		x			E	1	P		
	-2	1133-100-EB2	04/20/11	1345	x		x			E	1	P		
	-3	1133-100-EB3	04/20/11	1405	x		x			E	1	P		
		~~1133-100-~~			x		x			E	1	P		
		~~1133-100-~~			x		x			E	1	P		

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

May 06, 2011

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504
TEL: (818) 841-8388
FAX: (818) 841-1704

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 117512

RE: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

Attention: Mike Conkle

Enclosed are the results for sample(s) received on April 22, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

for Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0
Lab Order: 117512

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for Method 6010

RPD for Duplicate (DUP) is outside criteria for sample 117512-040ADUP; however, the Laboratory Control Sample (LCS) validated the analytical batch.

Analytical Comments for Method 7420

Dilution was necessary for samples 117512-001A, 117512-004A, 117512-007A, 117512-010A, 117512-013A, 117512-019A, 117512-022A, 117512-025A, 117512-028A, 117512-031A, 117512-034A, 117512-037A, 117512-038A, 117512-040A and 117512-043A, due to sample matrix.

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for sample 117512-025AMS; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 *Tel: 562. 989.4045* *Fax: 562.989.4040*

Advanced Technology Laboratories

Date: 5/6/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117512
Project:	LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received:**	4/22/2011 5:10:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117512-001A	1133-126-0	210	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-002A	1133-126-1	11	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-003A	1133-126-2	3.0	mg/Kg	72467	0.13	5.0	J	1	4/21/2011	4/26/2011
117512-004A	1133-127-0	510	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-005A	1133-127-1	17	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-006A	1133-127-2	44	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-007A	1133-128-0	950	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-008A	1133-128-1	11	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-009A	1133-128-2	18	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-010A	1133-129-0	540	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-011A	1133-129-1	22	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-012A	1133-129-2	20	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-013A	1133-130-0	680	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-014A	1133-130-1	22	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-015A	1133-130-2	5.9	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-016A	1133-131-0	67	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-017A	1133-131-1	41	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-018A	1133-131-2	8.9	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/6/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117512
Project:	LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received:**	4/22/2011 5:10:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117512-019A	1133-132-0	340	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-020A	1133-132-1	52	mg/Kg	72467	0.13	5.0		1	4/21/2011	4/26/2011
117512-021A	1133-132-2	20	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-022A	1133-133-0	490	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-023A	1133-133-1	5.7	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-024A	1133-133-2	4.2	mg/Kg	72468	0.13	5.0	J	1	4/21/2011	4/26/2011
117512-025A	1133-134-0	130	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-026A	1133-134-1	8.6	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-027A	1133-134-2	24	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-028A	1133-135-0	140	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-029A	1133-135-1	11	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-030A	1133-135-2	3.9	mg/Kg	72468	0.13	5.0	J	1	4/21/2011	4/26/2011
117512-031A	1133-136-0	300	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-032A	1133-136-1	29	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-033A	1133-136-2	3.3	mg/Kg	72468	0.13	5.0	J	1	4/21/2011	4/26/2011
117512-034A	1133-137-0	180	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-035A	1133-137-1	7.0	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-036A	1133-137-2	6.0	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/6/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117512
Project:	LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received:**	4/22/2011 5:10:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117512-037A	1133-138-0	620	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-038A	1133-138-1	210	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-039A	1133-138-2	7.1	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-040A	1133-139-0	360	mg/Kg	72468	0.13	5.0		1	4/21/2011	4/26/2011
117512-041A	1133-139-1	170	mg/Kg	72469	0.13	5.0		1	4/21/2011	4/26/2011
117512-042A	1133-139-2	120	mg/Kg	72469	0.13	5.0		1	4/21/2011	4/26/2011
117512-043A	1133-140-0	250	mg/Kg	72469	0.13	5.0		1	4/21/2011	4/26/2011
117512-044A	1133-140-1	19	mg/Kg	72469	0.13	5.0		1	4/21/2011	4/26/2011
117512-045A	1133-140-2	4.1	mg/Kg	72469	0.13	5.0	J	1	4/21/2011	4/26/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/6/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117512
Project:	LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received:**	4/22/2011 5:10:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117512-001A	1133-126-0	14	mg/L	72615	0.41	0.50		2	4/21/2011	5/5/2011
117512-004A	1133-127-0	63	mg/L	72615	2.1	2.5		10	4/21/2011	5/5/2011
117512-007A	1133-128-0	93	mg/L	72615	4.1	5.0		20	4/21/2011	5/5/2011
117512-010A	1133-129-0	36	mg/L	72615	1.0	1.2		5	4/21/2011	5/5/2011
117512-013A	1133-130-0	48	mg/L	72615	2.1	2.5		10	4/21/2011	5/5/2011
117512-016A	1133-131-0	4.1	mg/L	72615	0.21	0.25		1	4/21/2011	5/5/2011
117512-019A	1133-132-0	26	mg/L	72615	1.0	1.2		5	4/21/2011	5/5/2011
117512-020A	1133-132-1	3.9	mg/L	72615	0.21	0.25		1	4/21/2011	5/5/2011
117512-022A	1133-133-0	32	mg/L	72615	1.0	1.2		5	4/21/2011	5/5/2011
117512-025A	1133-134-0	10	mg/L	72615	0.41	0.50		2	4/21/2011	5/5/2011
117512-028A	1133-135-0	11	mg/L	72615	0.41	0.50		2	4/21/2011	5/5/2011
117512-031A	1133-136-0	31	mg/L	72615	1.0	1.2		5	4/21/2011	5/5/2011
117512-034A	1133-137-0	18	mg/L	72615	0.41	0.50		2	4/21/2011	5/5/2011
117512-037A	1133-138-0	51	mg/L	72615	2.1	2.5		10	4/21/2011	5/5/2011
117512-038A	1133-138-1	13	mg/L	72615	0.41	0.50		2	4/21/2011	5/5/2011
117512-040A	1133-139-0	27	mg/L	72615	1.0	1.2		5	4/21/2011	5/5/2011
117512-041A	1133-139-1	8.5	mg/L	72615	0.21	0.25		1	4/21/2011	5/5/2011
117512-042A	1133-139-2	5.6	mg/L	72615	0.21	0.25		1	4/21/2011	5/5/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/6/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (STLC)
WET/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117512
Project:	LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received:**	4/22/2011 5:10:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117512-043A	1133-140-0	24	mg/L	72615	1.0	1.2		5	4/21/2011	5/5/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-72467A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132351**
Client ID: **PBS** Batch ID: **72467** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2155979**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.165	5.0									J

Sample ID: **LCS-72467** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132351**
Client ID: **LCSS** Batch ID: **72467** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2155980**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	266.567	5.0	250.0	0.1649	107	80	120				

Sample ID: **117512-010A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132351**
Client ID: **1133-129-0** Batch ID: **72467** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2155991**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	519.699	5.0						540.6	3.94	20	

Sample ID: **117512-010A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132351**
Client ID: **1133-129-0** Batch ID: **72467** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2155992**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	719.643	5.0	250.0	540.6	71.6	34	126				

Sample ID: **MB-72467B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132351**
Client ID: **PBS** Batch ID: **72467** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2155993**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **117512-020A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132351**
Client ID: **1133-132-1** Batch ID: **72467** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156004**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	46.695	5.0						51.54	9.86	20	

Sample ID: **117512-020A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132351**
Client ID: **1133-132-1** Batch ID: **72467** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156005**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	275.777	5.0	250.0	51.54	89.7	34	126				

Sample ID: **117512-020A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132351**
Client ID: **1133-132-1** Batch ID: **72467** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156006**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	283.366	5.0	250.0	51.54	92.7	34	126	275.8	2.71	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-72468A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132352**
Client ID: **PBS** Batch ID: **72468** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156007**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-72468** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132352**
Client ID: **LCSS** Batch ID: **72468** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156008**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	262.511	5.0	250.0	0	105	80	120				

Sample ID: **117512-030A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132352**
Client ID: **1133-135-2** Batch ID: **72468** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156019**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.731	5.0						3.863	0	20	J

Sample ID: **117512-030A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132352**
Client ID: **1133-135-2** Batch ID: **72468** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156020**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	216.046	5.0	250.0	3.863	84.9	34	126				

Sample ID: **MB-72468B** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132352**
Client ID: **PBS** Batch ID: **72468** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156021**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **117512-040A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132352**
Client ID: **1133-139-0** Batch ID: **72468** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156032**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	275.484	5.0						363.4	27.5	20	R

Sample ID: **117512-040A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132352**
Client ID: **1133-139-0** Batch ID: **72468** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156033**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	605.295	5.0	250.0	363.4	96.8	34	126				

Sample ID: **117512-040A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132352**
Client ID: **1133-139-0** Batch ID: **72468** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156034**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	597.715	5.0	250.0	363.4	93.7	34	126	605.3	1.26	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID: **MB-72469A** SampType: **MBLK** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132353**
Client ID: **PBS** Batch ID: **72469** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156035**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	5.0									

Sample ID: **LCS-72469** SampType: **LCS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132353**
Client ID: **LCSS** Batch ID: **72469** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156036**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	263.889	5.0	250.0	0	106	80	120				

Sample ID: **117512-045A-DUP** SampType: **DUP** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132353**
Client ID: **1133-140-2** Batch ID: **72469** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156042**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.256	5.0						4.105	0	20	J

Sample ID: **117512-045A-MS** SampType: **MS** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132353**
Client ID: **1133-140-2** Batch ID: **72469** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156043**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	192.120	5.0	250.0	4.105	75.2	34	126				

Sample ID: **117512-045A-MSD** SampType: **MSD** TestCode: **6010_SPB** Units: **mg/Kg** Prep Date: **4/26/2011** RunNo: **132353**
Client ID: **1133-140-2** Batch ID: **72469** TestNo: **EPA 6010B** **EPA 3050M** Analysis Date: **4/26/2011** SeqNo: **2156044**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	218.013	5.0	250.0	4.105	85.6	34	126	192.1	12.6	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: MB-72615A | SampType: MBLK | TestCode: 7420_ST | Units: mg/L | Prep Date: 5/3/2011 | RunNo: 132664
Client ID: PBS | Batch ID: 72615 | TestNo: WET/ EPA 74 WET | Analysis Date: 5/5/2011 | SeqNo: 2162044

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: LCS-72615 | SampType: LCS | TestCode: 7420_ST | Units: mg/L | Prep Date: 5/3/2011 | RunNo: 132664
Client ID: LCSS | Batch ID: 72615 | TestNo: WET/ EPA 74 WET | Analysis Date: 5/5/2011 | SeqNo: 2162045

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.035	0.25	5.000	0	101	80	120				

Sample ID: 117512-025A-DUP | SampType: DUP | TestCode: 7420_ST | Units: mg/L | Prep Date: 5/3/2011 | RunNo: 132664
Client ID: 1133-134-0 | Batch ID: 72615 | TestNo: WET/ EPA 74 WET | Analysis Date: 5/5/2011 | SeqNo: 2162056

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.259	0.50						10.25	0.0465	20	

Sample ID: 117512-025A-MS | SampType: MS | TestCode: 7420_ST | Units: mg/L | Prep Date: 5/3/2011 | RunNo: 132664
Client ID: 1133-134-0 | Batch ID: 72615 | TestNo: WET/ EPA 74 WET | Analysis Date: 5/5/2011 | SeqNo: 2162057

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	16.388	1.0	5.000	10.25	123	80	120				S

Sample ID: MB-72615B | SampType: MBLK | TestCode: 7420_ST | Units: mg/L | Prep Date: 5/3/2011 | RunNo: 132664
Client ID: PBS | Batch ID: 72615 | TestNo: WET/ EPA 74 WET | Analysis Date: 5/5/2011 | SeqNo: 2162058

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: **117512-043A-DUP** SampType: **DUP** TestCode: **7420_ST** Units: **mg/L** Prep Date: **5/3/2011** RunNo: **132664**
Client ID: **1133-140-0** Batch ID: **72615** TestNo: **WET/ EPA 74 WET** Analysis Date: **5/5/2011** SeqNo: **2162068**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	24.213	1.2						24.27	0.242	20	

Sample ID: **117512-043A-MS** SampType: **MS** TestCode: **7420_ST** Units: **mg/L** Prep Date: **5/3/2011** RunNo: **132664**
Client ID: **1133-140-0** Batch ID: **72615** TestNo: **WET/ EPA 74 WET** Analysis Date: **5/5/2011** SeqNo: **2162069**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	29.711	1.2	5.000	24.27	109	80	120				

Sample ID: **117512-043A-MSD** SampType: **MSD** TestCode: **7420_ST** Units: **mg/L** Prep Date: **5/3/2011** RunNo: **132664**
Client ID: **1133-140-0** Batch ID: **72615** TestNo: **WET/ EPA 74 WET** Analysis Date: **5/5/2011** SeqNo: **2162070**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	29.528	1.2	5.000	24.27	105	80	120	29.71	0.617	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: _____ Date: 4/22/11

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other:

Sample Condition Upon Receipt
1. CHILLED Y ☑ N ☐ 4. SEALED Y ☐ N ☑
2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☑ N ☐
3. CONTAINER INTACT Y ☑ N ☐ 6. PRESERVED Y ☐ N ☑

Client: Geocon
Attention: Mike Conkle
Address: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: 818-841-1704
Project Name: LA Rts. 2 & 134 and Ventura Rt. 33 Project #: S9475-06-07 Sampler: Mike Conkle (Signature)

Relinquished by: (Signature and Printed Name)	Date: 04/22/11	Time: 1255	Received by: (Signature and Printed Name)	Date: 4/22/11	Time: 1255
Relinquished by: (Signature and Printed Name)	Date: 4/22/11	Time: 1710	Received by: (Signature and Printed Name) FPDWA	Date: 4/22/11	Time: 1710
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Mike Conkle 04/21/11
Print Name Date
Mike Conkle
Signature

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
CT Contract 07A2729
Run samples with total lead greater than or equal to 50 mg/kg by WET. Filter and preseve water samples at lab.

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample ID / Location	Date	Time	Lead	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	117512-1	1133-126-0	4/22/11	0755	x	x				E	1	G J		
	-2	1133-126-1		0758	x	x				E	1	G J		
	-3	1133-126-2		0802	x	x				E	1	G J		
	-4	1133-127-0		0755	x	x				E	1	G J		
	-5	1133-127-1		0804	x	x				E	1	G J		
	6	1133-127-2		0806	x	x				E	1	G J		
	-7	1133-128-0		0810	x	x				E	1	G J		
	-8	1133-128-1		0814	x	x				E	1	G J		
	-9	1133-128-2		0816	x	x				E	1	G J		
	-10	1133-129-0		0815	x	x				E	1	G J		
	-11	1133-129-1		0822	x	x				E	1	G J		
	-12	1133-129-2		0824	x	x				E	1	G J		
	-13	1133-130-0		0830	x	x				E	1	G J		
	-14	1133-130-1		0833	x	x				E	1	G J		
	-15	1133-130-2		0836	x	x				E	1	G J		
	-16	1133-131-0		0947	x	x				E	1	G J		
	-17	1133-131-1		0951	x	x				E	1	G J		
	-18	1133-131-2		0955	x	x				E	1	G J		
	-19	1133-132-0		0944	x	x				E	1	G J		
	-20	1133-132-1		0947	x	x				E	1	G J		

■ TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: _____ Date: _____

Method of Transport: Client ☐ / ATL ☑ / CA OverN ☐ / FedEx ☐ / Other: _____

Sample Condition Upon Receipt:
1. CHILLED Y ☐ N ☐ 4. SEALED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐ 6. PRESERVED Y ☐ N ☐

Client: Geocon
Attention: Mike Conkle
Address: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: 818-841-1704

Project Name: LA Rts. 2 & 134 and Ventura Rt. 33 Project #: S9475-06-07 Sampler: Mike Alcoto (Signature)

Relinquished by: (Signature and Printed Name) Mike Alcoto Date: 04/22/11 Time: 1255 Received by: (Signature and Printed Name) Date: 4/22/11 Time: 1255
Relinquished by: (Signature and Printed Name) Date: 4/22/11 Time: 1710 Received by: (Signature and Printed Name) Date: 4/22/11 Time: 1710
Relinquished by: (Signature and Printed Name) Date: Time: Received by: (Signature and Printed Name) Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Mike Conkle 04/21/11
Print Name Date
Mike Conkle
Signature

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
CT Contract 07A2729
Run samples with total lead greater than or equal to 50 mg/kg by WET. Filter and preseve water samples at lab.

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.

Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode _____ OTHER _____

INTE	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample ID / Location	Date	Time	Lead	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Type		PRESERVATION	REMARKS
	11751-21	1133 - 132 - 2	4/21/11	0956	x	x				E	1	G	J		
	-22	1133 - 133 - 0		1009	x	x				E	1	G	J		
	-23	1133 - 133 - 1		1014	x	x				E	1	G	J		
	-24	1133 - 133 - 2		1018	x	x				E	1	G	J		
	-25	1133 - 134 - 0		1012	x	x				E	1	G	J		
	-26	1133 - 134 - 1		1015	x	x				E	1	G	J		
	-27	1133 - 134 - 2		1017	x	x				E	1	G	J		
	-28	1133 - 135 - 0		1035	x	x				E	1	G	J		
	-29	1133 - 135 - 1		1038	x	x				E	1	G	J		
	-30	1133 - 135 - 2		1040	x	x				E	1	G	J		
	-31	1133 - 136 - 0		1117	x	x				E	1	G	J		
	-32	1133 - 136 - 1		1120	x	x				E	1	G	J		
	-33	1133 - 136 - 2		1127	x	x				E	1	G	J		
	-34	1133 - 137 - 0		1118	x	x				E	1	G	J		
	-35	1133 - 137 - 1		1120	x	x				E	1	G	J		
	-36	1133 - 137 - 2		1123	x	x				E	1	G	J		
	-37	1133 - 138 - 0		1135	x	x				E	1	G	J		
	-38	1133 - 138 - 1		1138	x	x				E	1	G	J		
	-39	1133 - 138 - 2		1142	x	x				E	1	G	J		
	-40	1133 - 139 - 0		1135	x	x				E	1	G	J		

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤ 24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives:
H=HCl N=HNO_3 S=H_2SO_4 C=4°C
Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
3275 Walnut Avenue
Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

FOR LABORATORY USE ONLY

P.O. #: _____
Logged By: _____ Date: _____

Method of Transport: Client ☐ ATL ☑ CA OverN ☐ FedEx ☐ Other: _____

Sample Condition Upon Receipt
1. CHILLED Y ☐ N ☐ 4. SEALED Y ☐ N ☐
2. HEADSPACE (VOA) Y ☐ N ☐ 5. # OF SPLS MATCH COC Y ☐ N ☐
3. CONTAINER INTACT Y ☐ N ☐ 6. PRESERVED Y ☐ N ☐

Client: Geocon
Attention: Mike Conkle
Address: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip Code: 91504
Tel: 818-841-8388
Fax: 818-841-1704

Project Name: LA Rts. 2 & 134 and Ventura Rt. 33 Project #: S9475-06-07 Sampler: Mike Akoto (Signature)

Relinquished by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time
Mike Akoto	04/22/11	1255		4/22/11	1255
	4/22/11	1710	FPDIWA	4/22/11	1710

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Mike Conkle (Print Name) 04/22/11 (Date)
Mike Conkle (Signature)

Send Report To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Bill To:
Attn: Mike Conkle
Co: Geocon Consultants Inc.
Addr: 3303 North San Fernando Blvd Suite 100
City: Burbank State: CA Zip: 91504

Special Instructions/Comments:
CT Contract 07A2729
Run samples with total lead greater than or equal to 50 mg/kg by WET. Filter and preseve water samples at lab.

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all samples will be disposed 45 days after receipt and records will be disposed 1 year after submittal of final report.
Storage Fees (applies when storage is requested):
- Sample :$2.00 / sample /mo (after 45 days)
- Records: $1 /ATL workorder /mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

QA/QC: RTNE ☐ CT ☐ SWRCB ☐ Logcode ____ OTHER ____

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample ID / Location	Date	Time	Lead	SOIL	WATER	GROUND WATER	WASTEWATER	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	1175[illegible]-41	1133 - 139 - 1	4/21/11	1137	x	x				E	1	G J		
	-42	1133 - 139 - 2		1141	x	x				E	1	G J		
	-43	1133 - 140 - 0		1151	x	x				E	1	G J		
	-44	1133 - 140 - 1		1155	x	x				E	1	G J		
	-45	1133 - 140 - 2		1200	x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		
		1133			x	x				E	1	G J		

- TAT starts 8AM the following day if samples received after 3 PM

TAT: ☐ A = Overnight ≤24 hrs ☐ B = Emergency Next Workday ☐ C = Critical 2 Workdays ☐ D = Urgent 3 Workdays ☑ E = Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=$Zn(AC)_2$ O=NaOH T=$Na_2S_2O_3$

May 17, 2011

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504
TEL: (818) 841-8388
FAX: (818) 841-1704

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 117512

RE: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

Attention: Mike Conkle

Enclosed are the results for sample(s) received on April 22, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Analytical Comments for Method 6010

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are/is outside recovery criteria for sample 117462-001AMSD; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

Advanced Technology Laboratories
3275 Walnut Avenue, Signal Hill, CA 90755 *Tel: 562. 989.4045* *Fax: 562.989.4040*

Advanced Technology Laboratories

Date: 5/17/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117512
Project:	LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/22/2011 5:10:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117512-001A	1133-126-0	ND	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-004A	1133-127-0	0.64	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-007A	1133-128-0	0.77	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-010A	1133-129-0	0.29	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-013A	1133-130-0	0.67	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-019A	1133-132-0	0.64	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-022A	1133-133-0	ND	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-025A	1133-134-0	ND	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-028A	1133-135-0	ND	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-031A	1133-136-0	ND	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-034A	1133-137-0	ND	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-037A	1133-138-0	2.8	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-038A	1133-138-1	1.6	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-040A	1133-139-0	1.2	mg/L	72864	0.21	0.25		1	4/21/2011	5/16/2011
117512-041A	1133-139-1	0.27	mg/L	72865	0.21	0.25		1	4/21/2011	5/16/2011
117512-042A	1133-139-2	ND	mg/L	72865	0.21	0.25		1	4/21/2011	5/16/2011
117512-043A	1133-140-0	1.8	mg/L	72865	0.21	0.25		1	4/21/2011	5/16/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/17/2011

ANALYTICAL RESULTS

LEAD BY ATOMIC ABSORPTION (TCLP)
EPA 1311/ 7420

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117512
Project:	LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/22/2011 5:10:00 PM
Project No:		**Matrix:**	Soil
Analyte:	Lead	**Analyst:**	VV

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117512-001A	1133-126-0	0.25	mg/L	72900	0.21	0.25	J	1	4/21/2011	5/16/2011
117512-004A	1133-127-0	0.64	mg/L	72900	0.21	0.25		1	4/21/2011	5/16/2011
117512-007A	1133-128-0	0.79	mg/L	72900	0.21	0.25		1	4/21/2011	5/16/2011
117512-010A	1133-129-0	0.84	mg/L	72900	0.21	0.25		1	4/21/2011	5/16/2011
117512-013A	1133-130-0	1.1	mg/L	72900	0.21	0.25		1	4/21/2011	5/16/2011
117512-019A	1133-132-0	0.77	mg/L	72900	0.21	0.25		1	4/21/2011	5/16/2011
117512-022A	1133-133-0	0.71	mg/L	72900	0.21	0.25		1	4/21/2011	5/16/2011
117512-025A	1133-134-0	0.42	mg/L	72900	0.21	0.25		1	4/21/2011	5/16/2011
117512-028A	1133-135-0	0.38	mg/L	72900	0.21	0.25		1	4/21/2011	5/16/2011
117512-031A	1133-136-0	2.6	mg/L	72900	0.21	0.25		1	4/21/2011	5/16/2011
117512-037A	1133-138-0	1.2	mg/L	72900	0.21	0.25		1	4/21/2011	5/16/2011
117512-038A	1133-138-1	0.57	mg/L	72900	0.21	0.25		1	4/21/2011	5/16/2011
117512-040A	1133-139-0	0.50	mg/L	72900	0.21	0.25		1	4/21/2011	5/16/2011
117512-043A	1133-140-0	0.60	mg/L	72900	0.21	0.25		1	4/21/2011	5/16/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: 5/17/2011

ANALYTICAL RESULTS

pH
EPA 9045C

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117512
Project:	LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0	**Date Received**	4/22/2011 5:10:00 PM
Project No:		**Matrix:**	Soil
Analyte:	pH	**Analyst:**	CBB

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117512-007A	1133-128-0	6.6	pH Units	R132916	0.10	0.10		1	4/21/2011	5/13/2011
117512-013A	1133-130-0	7.1	pH Units	R132916	0.10	0.10		1	4/21/2011	5/13/2011
117512-019A	1133-132-0	7.0	pH Units	R132916	0.10	0.10		1	4/21/2011	5/13/2011
117512-022A	1133-133-0	6.8	pH Units	R132916	0.10	0.10		1	4/21/2011	5/13/2011
117512-037A	1133-138-0	6.8	pH Units	R132916	0.10	0.10		1	4/21/2011	5/13/2011
117512-040A	1133-139-0	7.1	pH Units	R132916	0.10	0.10		1	4/21/2011	5/13/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-May-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1133-128-0
Lab Order:	117512	**Collection Date:**	4/21/2011 8:10:00 AM
Project:	LA Rts 2 & 134 and Ventura Rt.33, S9475-06-	**Matrix:**	SOIL
Lab ID:	117512-007A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B			**EPA 6010B**			
RunID: **ICP8_110513E**	QC Batch: **72869**				PrepDate:	**5/13/2011**	Analyst: **IL**
Antimony	0.93	0.16	2.0	J	mg/Kg	1	5/13/2011 06:25 PM
Arsenic	ND	0.20	1.0		mg/Kg	1	5/13/2011 06:25 PM
Barium	100	0.056	1.0		mg/Kg	1	5/13/2011 06:25 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:25 PM
Cadmium	1.2	0.043	1.0		mg/Kg	1	5/13/2011 06:25 PM
Chromium	15	0.13	1.0		mg/Kg	1	5/13/2011 06:25 PM
Cobalt	7.7	0.11	1.0		mg/Kg	1	5/13/2011 06:25 PM
Copper	29	0.18	2.0		mg/Kg	1	5/13/2011 06:25 PM
Molybdenum	0.43	0.097	1.0	J	mg/Kg	1	5/13/2011 06:25 PM
Nickel	8.6	0.11	1.0		mg/Kg	1	5/13/2011 06:25 PM
Selenium	ND	0.28	1.0		mg/Kg	1	5/13/2011 06:25 PM
Silver	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:25 PM
Thallium	ND	0.098	1.0		mg/Kg	1	5/13/2011 06:25 PM
Vanadium	39	0.088	1.0		mg/Kg	1	5/13/2011 06:25 PM
Zinc	290	0.13	1.0		mg/Kg	1	5/13/2011 06:25 PM
MERCURY BY COLD VAPOR TECHNIQUE							
				EPA 7471A			
RunID: **AA5_110516B**	QC Batch: **72896**				PrepDate:	**5/16/2011**	Analyst: **VV**
Mercury	0.081	0.0076	0.10	J	mg/Kg	1	5/16/2011 06:33 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-May-11*

CLIENT: Geocon Consultants, Inc.
Lab Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-
Lab ID: 117512-022A

Client Sample ID: 1133-133-0
Collection Date: 4/21/2011 10:09:00 AM
Matrix: SOIL

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B		**EPA 6010B**				
RunID: **ICP8_110513E**	QC Batch: **72869**				PrepDate:	**5/13/2011**	Analyst: **IL**
Antimony	0.55	0.16	2.0	J	mg/Kg	1	5/13/2011 06:28 PM
Arsenic	ND	0.20	1.0		mg/Kg	1	5/13/2011 06:28 PM
Barium	110	0.056	1.0		mg/Kg	1	5/13/2011 06:28 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:28 PM
Cadmium	0.99	0.043	1.0	J	mg/Kg	1	5/13/2011 06:28 PM
Chromium	8.5	0.13	1.0		mg/Kg	1	5/13/2011 06:28 PM
Cobalt	7.4	0.11	1.0		mg/Kg	1	5/13/2011 06:28 PM
Copper	21	0.18	2.0		mg/Kg	1	5/13/2011 06:28 PM
Molybdenum	ND	0.097	1.0		mg/Kg	1	5/13/2011 06:28 PM
Nickel	7.4	0.11	1.0		mg/Kg	1	5/13/2011 06:28 PM
Selenium	ND	0.28	1.0		mg/Kg	1	5/13/2011 06:28 PM
Silver	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:28 PM
Thallium	ND	0.098	1.0		mg/Kg	1	5/13/2011 06:28 PM
Vanadium	43	0.088	1.0		mg/Kg	1	5/13/2011 06:28 PM
Zinc	170	0.13	1.0		mg/Kg	1	5/13/2011 06:28 PM
MERCURY BY COLD VAPOR TECHNIQUE							
			EPA 7471A				
RunID: **AA5_110516B**	QC Batch: **72896**				PrepDate:	**5/16/2011**	Analyst: **VV**
Mercury	0.035	0.0076	0.10	J	mg/Kg	1	5/16/2011 06:35 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *17-May-11*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	1133-138-0
Lab Order:	117512	**Collection Date:**	4/21/2011 11:35:00 AM
Project:	LA Rts 2 & 134 and Ventura Rt.33, S9475-06-	**Matrix:**	SOIL
Lab ID:	117512-037A		

Analyses	Result	MDL	PQL	Qual	Units	DF	Date Analyzed
ICP METALS							
	EPA 3050B			**EPA 6010B**			
RunID: **ICP8_110513E**	QC Batch: **72869**				PrepDate:	**5/13/2011**	Analyst: **IL**
Antimony	0.43	0.16	2.0	J	mg/Kg	1	5/13/2011 06:32 PM
Arsenic	ND	0.20	1.0		mg/Kg	1	5/13/2011 06:32 PM
Barium	100	0.056	1.0		mg/Kg	1	5/13/2011 06:32 PM
Beryllium	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:32 PM
Cadmium	0.78	0.043	1.0	J	mg/Kg	1	5/13/2011 06:32 PM
Chromium	7.8	0.13	1.0		mg/Kg	1	5/13/2011 06:32 PM
Cobalt	6.7	0.11	1.0		mg/Kg	1	5/13/2011 06:32 PM
Copper	14	0.18	2.0		mg/Kg	1	5/13/2011 06:32 PM
Molybdenum	ND	0.097	1.0		mg/Kg	1	5/13/2011 06:32 PM
Nickel	5.1	0.11	1.0		mg/Kg	1	5/13/2011 06:32 PM
Selenium	ND	0.28	1.0		mg/Kg	1	5/13/2011 06:32 PM
Silver	ND	0.042	1.0		mg/Kg	1	5/13/2011 06:32 PM
Thallium	ND	0.098	1.0		mg/Kg	1	5/13/2011 06:32 PM
Vanadium	39	0.088	1.0		mg/Kg	1	5/13/2011 06:32 PM
Zinc	150	0.13	1.0		mg/Kg	1	5/13/2011 06:32 PM
MERCURY BY COLD VAPOR TECHNIQUE							
				EPA 7471A			
RunID: **AA5_110516B**	QC Batch: **72896**				PrepDate:	**5/16/2011**	Analyst: **VV**
Mercury	0.070	0.0076	0.10	J	mg/Kg	1	5/16/2011 06:37 PM

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **MB-72869** SampType: **MBLK** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/13/2011** RunNo: **132951**
Client ID: **PBS** Batch ID: **72869** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/13/2011** SeqNo: **2168162**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.198	2.0									J
Arsenic	ND	1.0									
Barium	ND	1.0									
Beryllium	ND	1.0									
Cadmium	ND	1.0									
Chromium	ND	1.0									
Cobalt	ND	1.0									
Copper	ND	2.0									
Lead	ND	1.0									
Molybdenum	ND	1.0									
Nickel	ND	1.0									
Selenium	ND	1.0									
Silver	ND	1.0									
Thallium	ND	1.0									
Vanadium	ND	1.0									
Zinc	0.139	1.0									J

Sample ID: **LCS-72869** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/13/2011** RunNo: **132951**
Client ID: **LCSS** Batch ID: **72869** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/13/2011** SeqNo: **2168163**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	54.330	2.0	50.00	0.1977	108	80	120				
Arsenic	53.267	1.0	50.00	0	107	80	120				
Barium	55.223	1.0	50.00	0	110	80	120				
Beryllium	49.258	1.0	50.00	0	98.5	80	120				
Cadmium	54.047	1.0	50.00	0	108	80	120				
Chromium	49.009	1.0	50.00	0	98.0	80	120				
Cobalt	53.610	1.0	50.00	0	107	80	120				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **LCS-72869** SampType: **LCS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/13/2011** RunNo: **132951**
Client ID: **LCSS** Batch ID: **72869** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/13/2011** SeqNo: **2168163**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Copper	54.692	2.0	50.00	0	109	80	120				
Lead	53.130	1.0	50.00	0	106	80	120				
Molybdenum	54.891	1.0	50.00	0	110	80	120				
Nickel	52.559	1.0	50.00	0	105	80	120				
Selenium	51.104	1.0	50.00	0	102	80	120				
Silver	51.572	1.0	50.00	0	103	80	120				
Thallium	51.502	1.0	50.00	0	103	80	120				
Vanadium	54.124	1.0	50.00	0	108	80	120				
Zinc	54.018	1.0	50.00	0.1394	108	80	120				

Sample ID: **117462-001A-DUP** SampType: **DUP** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/13/2011** RunNo: **132951**
Client ID: ZZZZZZ Batch ID: **72869** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/13/2011** SeqNo: **2168165**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.714	2.0						1.103	0	20	J
Arsenic	3.828	1.0						4.073	6.20	20	
Barium	662.554	1.0						647.8	2.25	20	
Beryllium	ND	1.0						0	0	20	
Cadmium	1.057	1.0						1.060	0.235	20	
Chromium	17.132	1.0						16.69	2.62	20	
Cobalt	5.085	1.0						5.225	2.73	20	
Copper	21.895	2.0						22.97	4.79	20	
Lead	331.589	1.0						382.5	14.3	20	
Molybdenum	0.593	1.0						0.5250	0	20	J
Nickel	22.435	1.0						24.05	6.96	20	
Selenium	ND	1.0						0	0	20	
Silver	ND	1.0						0	0	20	
Thallium	ND	1.0						0	0	20	
Vanadium	20.022	1.0						19.35	3.39	20	
Zinc	119.876	1.0						119.3	0.492	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: **117462-001A-MS** SampType: **MS** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/13/2011** RunNo: **132951**
Client ID: **ZZZZZZ** Batch ID: **72869** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/13/2011** SeqNo: **2168166**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	96.678	2.0	125.0	1.103	76.5	32	105				
Arsenic	112.978	1.0	125.0	4.073	87.1	49	106				
Barium	750.408	1.0	125.0	647.8	82.1	31	133				
Beryllium	109.250	1.0	125.0	0	87.4	56	106				
Cadmium	105.670	1.0	125.0	1.060	83.7	51	103				
Chromium	118.239	1.0	125.0	16.69	81.2	45	114				
Cobalt	110.262	1.0	125.0	5.225	84.0	52	106				
Copper	141.156	2.0	125.0	22.97	94.5	54	125				
Lead	460.457	1.0	125.0	382.5	62.4	34	126				
Molybdenum	108.934	1.0	125.0	0.5250	86.7	54	106				
Nickel	125.961	1.0	125.0	24.05	81.5	45	111				
Selenium	104.905	1.0	125.0	0	83.9	47	104				
Silver	109.861	1.0	125.0	0	87.9	56	112				
Thallium	100.458	1.0	125.0	0	80.4	46	101				
Vanadium	130.531	1.0	125.0	19.35	88.9	54	114				
Zinc	216.708	1.0	125.0	119.3	77.9	28	125				

Sample ID: **117462-001A-MSD** SampType: **MSD** TestCode: **6010_S** Units: **mg/Kg** Prep Date: **5/13/2011** RunNo: **132951**
Client ID: **ZZZZZZ** Batch ID: **72869** TestNo: **EPA 6010B** **EPA 3050B** Analysis Date: **5/13/2011** SeqNo: **2168167**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	95.423	2.0	125.0	1.103	75.5	32	105	96.68	1.31	20	
Arsenic	114.995	1.0	125.0	4.073	88.7	49	106	113.0	1.77	20	
Barium	844.434	1.0	125.0	647.8	157	31	133	750.4	11.8	20	S
Beryllium	106.903	1.0	125.0	0	85.5	56	106	109.2	2.17	20	
Cadmium	105.203	1.0	125.0	1.060	83.3	51	103	105.7	0.443	20	
Chromium	118.112	1.0	125.0	16.69	81.1	45	114	118.2	0.108	20	
Cobalt	109.926	1.0	125.0	5.225	83.8	52	106	110.3	0.305	20	
Copper	138.736	2.0	125.0	22.97	92.6	54	125	141.2	1.73	20	
Lead	456.624	1.0	125.0	382.5	59.3	34	126	460.5	0.836	20	

Qualifiers:

B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
S Spike/Surrogate outside of limits due to matrix interference
E Value above quantitation range
ND Not Detected at the Reporting Limit
DO Surrogate Diluted Out
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits
Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_S

Sample ID: 117462-001A-MSD	SampType: MSD	TestCode: 6010_S	Units: mg/Kg	Prep Date: 5/13/2011	RunNo: 132951
Client ID: ZZZZZZ	Batch ID: 72869	TestNo: EPA 6010B	EPA 3050B	Analysis Date: 5/13/2011	SeqNo: 2168167

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Molybdenum	107.035	1.0	125.0	0.5250	85.2	54	106	108.9	1.76	20	
Nickel	125.896	1.0	125.0	24.05	81.5	45	111	126.0	0.0514	20	
Selenium	103.470	1.0	125.0	0	82.8	47	104	104.9	1.38	20	
Silver	108.290	1.0	125.0	0	86.6	56	112	109.9	1.44	20	
Thallium	99.113	1.0	125.0	0	79.3	46	101	100.5	1.35	20	
Vanadium	128.555	1.0	125.0	19.35	87.4	54	114	130.5	1.53	20	
Zinc	229.476	1.0	125.0	119.3	88.2	28	125	216.7	5.72	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: MB-72864A | SampType: MBLK | TestCode: 7420_DI_GEO | Units: mg/L | Prep Date: 5/14/2011 | RunNo: 132964
Client ID: PBS | Batch ID: 72864 | TestNo: WET DI/ EPA WET | Analysis Date: 5/16/2011 | SeqNo: 2168582

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: LCS-72864 | SampType: LCS | TestCode: 7420_DI_GEO | Units: mg/L | Prep Date: 5/14/2011 | RunNo: 132964
Client ID: LCSS | Batch ID: 72864 | TestNo: WET DI/ EPA WET | Analysis Date: 5/16/2011 | SeqNo: 2168583

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.842	0.25	5.000	0	96.8	80	120				

Sample ID: 117512-010A-DUP | SampType: DUP | TestCode: 7420_DI_GEO | Units: mg/L | Prep Date: 5/14/2011 | RunNo: 132964
Client ID: 1133-129-0 | Batch ID: 72864 | TestNo: WET DI/ EPA WET | Analysis Date: 5/16/2011 | SeqNo: 2168593

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.277	0.25						0.2876	3.88	20	

Sample ID: 117512-010A-MS | SampType: MS | TestCode: 7420_DI_GEO | Units: mg/L | Prep Date: 5/14/2011 | RunNo: 132964
Client ID: 1133-129-0 | Batch ID: 72864 | TestNo: WET DI/ EPA WET | Analysis Date: 5/16/2011 | SeqNo: 2168595

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.858	0.25	5.000	0.2876	91.4	70	130				

Sample ID: MB-72864B | SampType: MBLK | TestCode: 7420_DI_GEO | Units: mg/L | Prep Date: 5/14/2011 | RunNo: 132964
Client ID: PBS | Batch ID: 72864 | TestNo: WET DI/ EPA WET | Analysis Date: 5/16/2011 | SeqNo: 2168596

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories 3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: 117512-040A-DUP SampType: DUP TestCode: 7420_DI_GEO Units: mg/L Prep Date: 5/14/2011 RunNo: 132964
Client ID: 1133-139-0 Batch ID: 72864 TestNo: WET DI/ EPA WET Analysis Date: 5/16/2011 SeqNo: 2168607

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.241	0.25						1.235	0.475	20	

Sample ID: 117512-040A-MS SampType: MS TestCode: 7420_DI_GEO Units: mg/L Prep Date: 5/14/2011 RunNo: 132964
Client ID: 1133-139-0 Batch ID: 72864 TestNo: WET DI/ EPA WET Analysis Date: 5/16/2011 SeqNo: 2168608

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.498	0.25	5.000	1.235	85.3	70	130				

Sample ID: 117512-040A-MSD SampType: MSD TestCode: 7420_DI_GEO Units: mg/L Prep Date: 5/14/2011 RunNo: 132964
Client ID: 1133-139-0 Batch ID: 72864 TestNo: WET DI/ EPA WET Analysis Date: 5/16/2011 SeqNo: 2168609

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.565	0.25	5.000	1.235	86.6	70	130	5.498	1.21	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI_GEOCON

Sample ID: **MB-72865A** SampType: **MBLK** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132965**
Client ID: **PBS** Batch ID: **72865** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168618**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-72865** SampType: **LCS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132965**
Client ID: **LCSS** Batch ID: **72865** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168619**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.856	0.25	5.000	0	97.1	80	120				

Sample ID: **117512-043A-DUP** SampType: **DUP** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132965**
Client ID: **1133-140-0** Batch ID: **72865** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168623**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.824	0.25						1.826	0.0826	20	

Sample ID: **117512-043A-MS** SampType: **MS** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132965**
Client ID: **1133-140-0** Batch ID: **72865** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168624**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.832	0.25	5.000	1.826	80.1	70	130				

Sample ID: **117512-043A-MSD** SampType: **MSD** TestCode: **7420_DI_GEO** Units: **mg/L** Prep Date: **5/14/2011** RunNo: **132965**
Client ID: **1133-140-0** Batch ID: **72865** TestNo: **WET DI/ EPA WET** Analysis Date: **5/16/2011** SeqNo: **2168625**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.949	0.25	5.000	1.826	82.5	70	130	5.832	1.99	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: MB-72900A | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132988
Client ID: PBS | Batch ID: 72900 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168956

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: MB-72862B TCLP | SampType: MBLK | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132988
Client ID: PBS | Batch ID: 72900 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168957

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: LCS-72900 | SampType: LCS | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132988
Client ID: LCSS | Batch ID: 72900 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168958

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.964	0.25	1.000	0	96.4	80	120				

Sample ID: 117512-025A-DUP | SampType: DUP | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132988
Client ID: 1133-134-0 | Batch ID: 72900 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168969

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.426	0.25						0.4187	1.62	20	

Sample ID: 117512-025A-MS | SampType: MS | TestCode: 7420_TC | Units: mg/L | Prep Date: 5/16/2011 | RunNo: 132988
Client ID: 1133-134-0 | Batch ID: 72900 | TestNo: EPA 1311/ 74 EPA3010A | Analysis Date: 5/16/2011 | SeqNo: 2168970

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.282	0.25	2.500	0.4187	115	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **MB-72900B** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132988**
Client ID: **PBS** Batch ID: **72900** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168971**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **MB-72862B TCLP** SampType: **MBLK** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132988**
Client ID: **PBS** Batch ID: **72900** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168972**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **117519-010A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132988**
Client ID: **ZZZZZZ** Batch ID: **72900** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168980**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.701	0.25						0.6941	1.00	20	

Sample ID: **117519-010A-MS** SampType: **MS** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132988**
Client ID: **ZZZZZZ** Batch ID: **72900** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168981**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.263	0.25	2.500	0.6941	103	70	130				

Sample ID: **117519-010A-MSD** SampType: **MSD** TestCode: **7420_TC** Units: **mg/L** Prep Date: **5/16/2011** RunNo: **132988**
Client ID: **ZZZZZZ** Batch ID: **72900** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **5/16/2011** SeqNo: **2168982**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.256	0.25	2.500	0.6941	102	70	130	3.263	0.229	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 7471_S

Sample ID: MB-72896 | SampType: MBLK | TestCode: 7471_S | Units: mg/Kg | Prep Date: 5/16/2011 | RunNo: 132990
Client ID: PBS | Batch ID: 72896 | TestNo: EPA 7471A | Analysis Date: 5/16/2011 | SeqNo: 2169005

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.10									

Sample ID: LCS-72896 | SampType: LCS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 5/16/2011 | RunNo: 132990
Client ID: LCSS | Batch ID: 72896 | TestNo: EPA 7471A | Analysis Date: 5/16/2011 | SeqNo: 2169006

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.755	0.10	0.8300	0	91.0	80	120				

Sample ID: 117462-001A-MS | SampType: MS | TestCode: 7471_S | Units: mg/Kg | Prep Date: 5/16/2011 | RunNo: 132990
Client ID: ZZZZZZ | Batch ID: 72896 | TestNo: EPA 7471A | Analysis Date: 5/16/2011 | SeqNo: 2169007

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.855	0.10	0.8300	0.03893	98.4	70	130				

Sample ID: 117462-001A-MSD | SampType: MSD | TestCode: 7471_S | Units: mg/Kg | Prep Date: 5/16/2011 | RunNo: 132990
Client ID: ZZZZZZ | Batch ID: 72896 | TestNo: EPA 7471A | Analysis Date: 5/16/2011 | SeqNo: 2169008

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.859	0.10	0.8300	0.03893	98.9	70	130	0.8553	0.485	20	

Sample ID: 117462-001A-DUP | SampType: DUP | TestCode: 7471_S | Units: mg/Kg | Prep Date: 5/16/2011 | RunNo: 132990
Client ID: ZZZZZZ | Batch ID: 72896 | TestNo: EPA 7471A | Analysis Date: 5/16/2011 | SeqNo: 2169010

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.038	0.10						0.03893	0	20	J

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

CLIENT: Geocon Consultants, Inc.
Work Order: 117512
Project: LA Rts 2 & 134 and Ventura Rt.33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID: **117512-040ADUP** SampType: **DUP** TestCode: **9045_S** Units: **pH Units** Prep Date: RunNo: **132916**
Client ID: **1133-139-0** Batch ID: **R132916** TestNo: **EPA 9045C** Analysis Date: **5/13/2011** SeqNo: **2167293**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.070	0.10						7.070	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

May 02, 2011

ELAP No.: 1838
NELAP No.: 02107CA
CSDLAC No.: 10196
ORELAP No.: CA300003

Workorder No.: 117513

Mike Conkle
Geocon Consultants, Inc.
3303 N. San Fernando Blvd., Suite 100
Burbank, CA 91504
TEL: (818) 841-8388
FAX: (818) 841-1704

RE: LA Rts 2 & 134 and Ventura Rt 33, S9475-06-0

Attention: Mike Conkle

Enclosed are the results for sample(s) received on April 22, 2011 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Eddie F. Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and cannot be reproduced in part or in its entirety without written permission from the client and Advanced Technology Laboratories.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Consultants, Inc.
Project: LA Rts 2 & 134 and Ventura Rt 33, S9475-06-0
Lab Order: 117513

CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" Flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

Advanced Technology Laboratories

Date: 5/2/2011

ANALYTICAL RESULTS

LEAD BY ICP
EPA 6010B

CLIENT:	Geocon Consultants, Inc.	**Lab Order:**	117513
Project:	LA Rts 2 & 134 and Ventura Rt 33, S9475-06-0	**Date Received**	4/22/2011 5:10:00 PM
Project No:		**Matrix:**	Water
Analyte:	Lead	**Analyst:**	IL

Laboratory ID	Client Sample ID	Results	Units	QC Batch	MDL	PQL	Qual	DF	Date Collected	Date Analyzed
117513-001A	1133-100-EB4	ND	mg/L	72441	0.00081	0.25		1	4/21/2011	4/25/2011
117513-002A	1133-100-EB5	ND	mg/L	72441	0.00081	0.25		1	4/21/2011	4/25/2011

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	S	Spike/Surrogate outside of limits due to matrix interference
	Results are wet unless otherwise specified	DO	Surrogate Diluted Out

Advanced Technology Laboratories

3275 Walnut Avenue, Signal Hill, CA 90755 Tel: 562. 989.4045 Fax: 562.989.4040

Advanced Technology Laboratories

Date: *02-May-11*

CLIENT: Geocon Consultants, Inc.
Work Order: 117513
Project: LA Rts 2 & 134 and Ventura Rt 33, S9475-06-0

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPB

Sample ID: **MB-72441** SampType: **MBLK** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **4/25/2011** RunNo: **132330**
Client ID: **PBW** Batch ID: **72441** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **4/25/2011** SeqNo: **2155731**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25									

Sample ID: **LCS-72441** SampType: **LCS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **4/25/2011** RunNo: **132330**
Client ID: **LCSW** Batch ID: **72441** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **4/25/2011** SeqNo: **2155732**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.021	0.25	1.000	0	102	85	115				

Sample ID: **117463-001A-MS** SampType: **MS** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **4/25/2011** RunNo: **132330**
Client ID: **ZZZZZZ** Batch ID: **72441** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **4/25/2011** SeqNo: **2155734**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.660	0.25	2.500	0	106	80	118				

Sample ID: **117463-001A-MSD** SampType: **MSD** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **4/25/2011** RunNo: **132330**
Client ID: **ZZZZZZ** Batch ID: **72441** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **4/25/2011** SeqNo: **2155735**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.540	0.25	2.500	0	102	80	118	2.660	4.62	20	

Sample ID: **117513-002A-DUP** SampType: **DUP** TestCode: **6010_WPB** Units: **mg/L** Prep Date: **4/25/2011** RunNo: **132330**
Client ID: **1133-100-EB5** Batch ID: **72441** TestNo: **EPA 6010B** **EPA 3010A** Analysis Date: **4/25/2011** SeqNo: **2155740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.25						0	0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike/Surrogate outside of limits due to matrix interference	DO	Surrogate Diluted Out		Calculations are based on raw values

Advanced Technology Laboratories *3275 Walnut Avenue, Signal Hill, CA 90755* *Tel: 562. 989.4045* *Fax: 562.989.4040*

APPENDIX A

Location 1 – Route 33 at Shell Road (Borings 1133-101 to 1133-105)

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		Classification	
	90% UCL/MAX	95% UCL/MAX	90% UCL/MAX	95% UCL/MAX	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	244	260	21.2	22.6	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*17*	*17*	*1.4*	*1.5*	*Type X*	*Non-Hazardous*
0 to 1.0 feet	132	140	11.5	12.2	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*15*	*15*	*1.3*	*1.3*	*Type X*	*Non-Hazardous*
0 to 1.5 feet	95	101	8.3	8.7	Type Y-1	CA Hazardous (Type Z-2)
1.5 to 2.0 feet	*8.0*	*8.3*	*0.7*	*0.7*	*Type X*	*Non-Hazardous*
0 to 2.0 feet	73	78	6.4	6.7	Type Y-1	CA Hazardous (Type Z-2)

Location 2 – Westbound Route 134 on ramp from San Fernando Road (Borings 1133-106 to 1133-110)

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		CLASSIFICATION	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	194	199	16.8	17.3	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*409*	*445*	*35.5*	*38.6*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 1.0 feet	364	388	31.6	33.7	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*347*	*379*	*30.1*	*32.9*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 1.5 feet	420	451	36.5	39.2	Type Y-1	CA Hazardous (Type Z-2)
1.5 to 2.0 feet	*161*	*180*	*14.0*	*15.6*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 2.0 feet	355	384	30.8	33.3	Type Y-1	CA Hazardous (Type Z-2)

Location 3 – Eastbound Route 134 on ramp from San Rafael Avenue (Borings 1133-111 to 1133-115)

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		SOIL TYPE	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	191	203	16.6	17.6	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*19*	*19*	*1.6*	*1.7*	*Type X*	*Non-Hazardous*
0 to 1.0 feet	105	110	9.1	9.6	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*19*	*20*	*1.6*	*1.7*	*Type X*	*Non-Hazardous*
0 to 1.5 feet	76	80	6.6	6.9	Type Y-1	*CA Hazardous (Type Z-2)*
1.5 to 2.0 feet	*20*	*21*	*1.7*	*1.8*	*Type X*	*Non-Hazardous*
0 to 2.0 feet	62	65	5.4	5.6	Type Y-1	CA Hazardous (Type Z-2)

Location 4 – Westbound Route 134 on ramp from San Rafael Avenue (Borings 1133-116 to 1133-120)

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		CLASSIFICATION	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	207	218	18	19	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*20*	*22*	*1.7*	*1.9*	*Type X*	*Non-Hazardous*
0 to 1.0 feet	113	120	9.8	10.4	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*20*	*22*	*1.7*	*1.9*	*Type X*	*Non-Hazardous*
0 to 1.5 feet	82	87	7.1	7.5	Type Y-1	CA Hazardous (Type Z-2)
1.5 to 2.0 feet	*21*	*23*	*1.8*	*2.0*	*Type X*	*Non-Hazardous*
0 to 2.0 feet	67	71	5.8	6.1	Type Y-1	CA Hazardous (Type Z-2)

Location 5 – Southbound Route 2 on ramp from Westbound 134 (Borings 1133-121 to 1133-125)

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		CLASSIFICATION	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	96	105	8.4	9.1	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*25*	*27*	*2.2*	*2.3*	*Type X*	*Non-Hazardous*
0 to 1.0 feet	63	69	5.5	6.0	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*22*	*24*	*1.9*	*2.1*	*Type X*	*Non-Hazardous*
0 to 1.5 feet	52	57	4.5	4.9	Type X	Non-Hazardous
1.5 to 2.0 feet	*15*	*16*	*1.3*	*1.4*	*Type X*	*Non-Hazardous*
0 to 2.0 feet	43	46	3.7	4.0	Type X	Non-Hazardous

Location 6 – Northbound Route 2 on ramp from York Boulevard (Borings 1133-126 to 1133-130)

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		CLASSIFICATION	
	90% UCL/MAX	95% UCL/MAX	90% UCL/MAX	95% UCL/MAX	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	717	757	62.2	65.7	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*24*	*24*	*2.0*	*2.1*	*Type X*	*Non-Hazardous*
0 to 1.0 feet	370	389	32.1	33.8	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*24*	*25*	*2.1*	*2.2*	*Type X*	*Non-Hazardous*
0 to 1.5 feet	254	267	22.0	23.2	Type Y-1	CA Hazardous (Type Z-2)
1.5 to 2.0 feet	*27*	*29*	*2.3*	*2.5*	*Type X*	*Non-Hazardous*
0 to 2.0 feet	197	207	17.1	18.0	Type Y-1	CA Hazardous (Type Z-2)

Location 7 – South bound Route 2 on ramp from Colorado Boulevard (Borings 1133-131 to 1133-135)

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		CLASSIFICATION	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Classification	Off Site Disposal Classification
0 to 0.5 foot	323	350	28.0	30.4	Type Y-1	CA Hazardous (Type Z-2)
0.5 to 2.0 feet	*29*	*31*	*2.5*	*2.7*	*Type X*	*Non-Hazardous*
0 to 1.0 feet	179	194	15.5	16.9	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*26*	*28*	*2.3*	*2.4*	*Type X*	*Non-Hazardous*
0 to 1.5 feet	131	142	11.4	12.3	Type Y-1	CA Hazardous (Type Z-2)
1.5 to 2.0 feet	*17*	*18*	*1.5*	*1.6*	*Type X*	*Non-Hazardous*
0 to 2.0 feet	103	111	8.9	9.6	Type Y-1	Type Z-2

Location 8 – Northbound Route 2 on ramp from Eagle Boulevard (Borings 1133-136 to 1133-140)

Combined Layer (s)	Total Lead (mg/kg)		Predicted WET Lead (mg/l)		CLASSIFICATION	
	90% UCL	95% UCL	90% UCL	95% UCL	On Site Reuse Classification	Off Site Disposal Classification
0 to 0.5 foot	427	450	37.1	39.0	Type Y-1	CA Hazardous(Type Z-2)
0.5 to 2.0 feet	*109*	*121*	*9.5*	*10.5*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 1.0 feet	282	300	24.4	26.0	Type Y-1	CA Hazardous (Type Z-2)
1.0 to 2.0 feet	*95*	*106*	*8.3*	*9.2*	*Type Y-1*	*CA Hazardous (Type Z-2)*
0 to 1.5 feet	233	250	20.2	21.7	Type Y-1	CA Hazardous (Type Z-2)
1.5 to 2.0 feet	*55*	*62*	*4.7*	*5.4*	*Type X*	*CA Hazardous (Type Z-2)*
0 to 2.0 feet	188	203	16.4	17.6	Type Y-1	CA Hazardous (Type Z-2)

The soil classification is defined as follow:

Type X: These materials are not regulated and the soils may be used on project or relinquished to contractor.

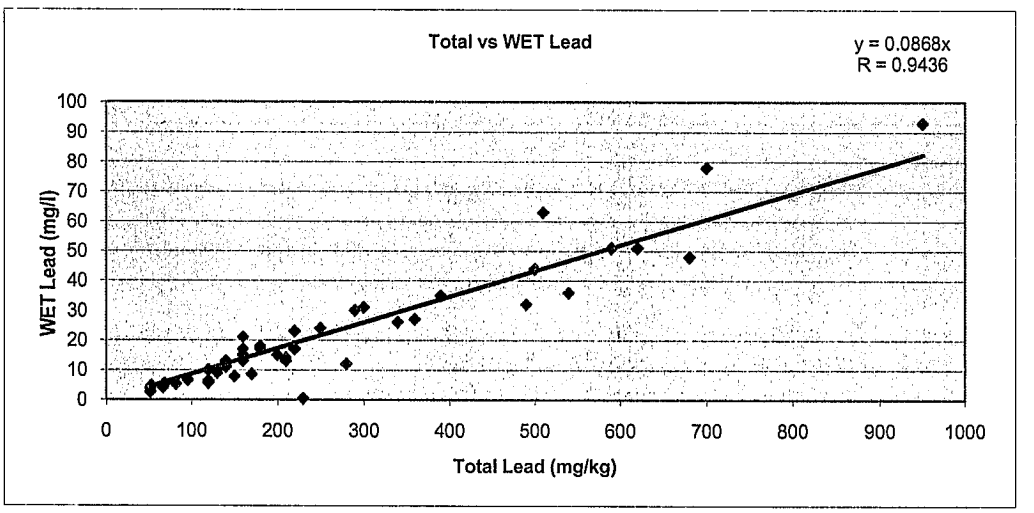
Type Z-2: These materials are hazardous waste regulated by the State of California and shall be transported and disposed to a designated Class 1 disposal facility per Title 22 of the California Code of Regulations (CCR).

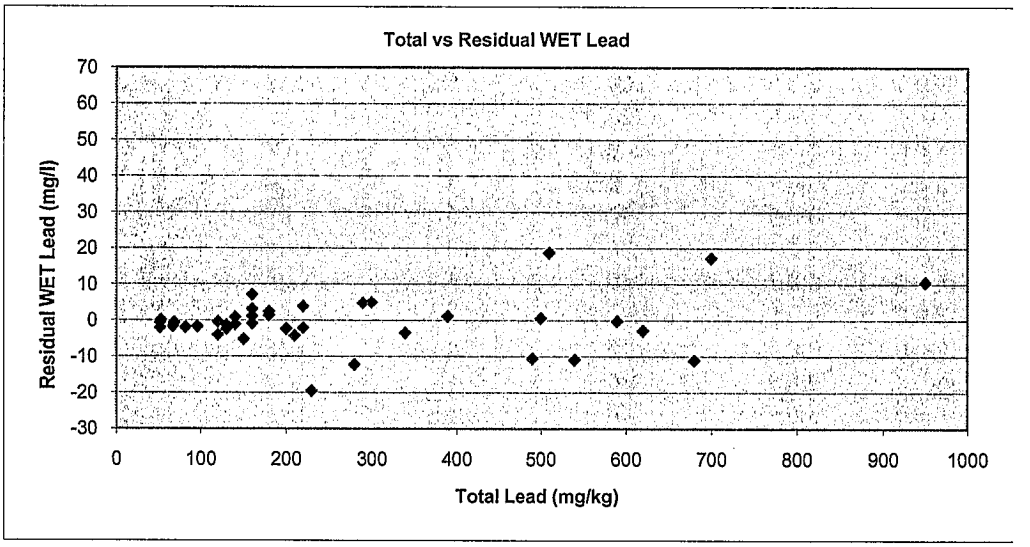
APPENDIX B

APPENDIX B - Lead Regression Analysis

Sample ID	Sample Depth (feet)	Total Lead (mg/kg)	WET Lead (mg/l)	Residual WET Lead (mg/l)	Squared Residual WET Lead (mg/l)
1133-101-0.0	0-0.5	390	35	1.16	1.3407
1133-102-0.0	0-0.5	120	6.4	-4.01	16.1038
1133-103-0.0	0-0.5	160	13	-0.88	0.781
1133-104-0.0	0-0.5	160	17	3.12	9.71
1133-105-0.0	0-0.5	82	5.2	-1.92	3.67
1133-106-0.0	0-0.5	130	8.9	-2.38	5.67
1133-106-1.0	0.5-1.0	700	78	17.26	297.83
1133-106-2.0	1.5-2.0	290	30	4.84	23.38
1133-107-0.0	0-0.5	180	17	1.38	1.91
1133-107-1.0	0.5-1.0	590	51	-0.20	0.04
1133-108-0.0	0-0.5	140	13	0.85	0.73
1133-108-1.0	0.5-1.0	500	44	0.61	0.38
1133-108-2.0	1.5-2.0	150	7.8	-5.22	27.21
1133-109-0.0	0-0.5	200	15	-2.35	5.55
1133-110-0.0	0-0.5	220	23	3.91	15.28
1133-111-0.0	0-0.5	280	12	-12.30	151.21
1133-112-0.0	0-0.5	130	10	-1.28	1.64
1133-113-0.0	0-0.5	120	10	-0.41	0.17
1133-114-0.0	0-0.5	53	4.7	0.10	0.01
1133-115-0.0	0-0.5	160	15	1.12	1
1133-116-0.0	0-0.5	220	17	-2.09	4.37
1133-117-0.0	0-0.5	210	14	-4.22	17.8
1133-118-0.0	0-0.5	230	0.41	-19.55	382.13
1133-119-0.0	0-0.5	96	6.6	-1.73	2.9942
1133-121-0.0	0-0.5	160	21	7.12	50.64
1133-122-0.0	0-0.5	68	5.2	-0.70	0
1133-122-1.0	0.5-1.0	52	2.5	-2.01	4.0
1133-125-0.0	0-0.5	69	5.3	-0.69	0.47
1133-126-0.0	0-0.5	210	14	-4.22	17.831
1133-127-0.0	0-0.5	510	63	18.74	351.4
1133-128-0.0	0-0.5	950	93	10.56	112
1133-129-0.0	0-0.5	540	36	-10.86	118
1133-130-0.0	0-0.5	680	48	-11.01	121.148
1133-131-0.0	0-0.5	67	4.1	-1.71	2.9
1133-132-0.0	0-0.5	340	26	-3.50	12.274
1133-132-1.0	0.5-1.0	52	3.9	-0.61	0.3749
1133-133-0.0	0-0.5	490	32	-10.52	110.66
1133-134-0.0	0-0.5	130	10	-1.28	1.64
1133-135-0.0	0-0.5	140	11	-1.15	1.3
1133-136-0.0	0-0.5	300	31	4.97	24.677
1133-137-0.0	0-0.5	180	18	2.38	5.667
1133-138-0.0	0-0.5	620	51	-2.80	7.84148
1133-138-1.0	0.5-1.0	210	13	-5.22	27.27628
1133-139-0.0	0-0.5	360	27	-4.24	17.96796
1133-139-1.0	0.5-1.0	170	8.5	-6.25	39.08357
1133-139-2.0	1.5-2.0	120	5.6	-4.81	23.16453
1133-140-0.0	0-0.5	250	24	2.31	5.31923

APPENDIX B - Lead Regression Analysis





Notes:

The Total vs. WET Lead graph is a linear regression scatter plot with a best-fit line using the least squares method and forcing the y-intercept through zero. The least squares method minimizes the sum of squared distances between the observed points in the dataset and the points predicted by the linear approximation. A test for data correlation is used to verify the quality of the equation used to predict soluble lead concentrations. There should be a correlation coefficient ("r") of 0.8 or greater between total and soluble lead (WET) analytical results. The correlation coefficient for these results is 0.9436. The slope of the line obtained from this graph is used to calculate the predicted soluble lead concentration.

The Total vs. Residual WET lead graph depicts the error, or residual variation, after fitting the regression line. The residual value is the difference (or left over) between the observed value of the variable and the value suggested by the regression line. The squared residual is the standardized error value. This plot is used to assist in identifying anomalous outliers in the data set.

Appendix B- Lead UCLs

Shell Road 0.0-0.5	
Number of Valid Observations	5
Number of Distinct Observations	4
Minimum	82
Maximum	390
Mean	182.4
Median	160
SD	120.5
Variance	14519
Coefficient of Variation	0.661
Skewness	1.827
Mean of log data	5.062
SD of log data	0.575
90% Standard Bootstrap UCL	243.7
95% Standard Bootstrap UCL	259.8

Shell Road 0.5-1.0	
Number of Valid Observations	5
Number of Distinct Observations	3
Minimum	3.6
Maximum	21
Mean	16.12
Median	21
SD	7.627
Variance	58.17
Coefficient of Variation	0.473
Skewness	-1.525
Mean of log data	2.611
SD of log data	0.764
95% Standard Bootstrap UCL	N/A
90% Standard Bootstrap UCL	N/A

Shell Road 1.5-2.0	
Number of Valid Observations	5
Number of Distinct Observations	4
Minimum	5.2
Maximum	9.1
Mean	7.12
Median	8
SD	1.805
Variance	3.257
Coefficient of Variation	0.253
Skewness	-0.338
Mean of log data	1.935
SD of log data	0.267
95% Standard Bootstrap UCL	8.269
90% Standard Bootstrap UCL	8.015

San Fernando Blvd 0.0-0.5	
Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	130
Maximum	220
Mean	174
Median	180
SD	38.47
Variance	1480
Coefficient of Variation	0.221
Skewness	-0.0685
Mean of log data	5.139
SD of log data	0.227
95% Standard Bootstrap UCL	198.9
90% Standard Bootstrap UCL	193.9

San Fernando Blvd 0.5-1.0	
Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	26
Maximum	700
Mean	371
Median	500
SD	317.1
Variance	100523
Coefficient of Variation	0.855
Skewness	-0.384
Mean of log data	5.213
SD of log data	1.611
95% Standard Bootstrap UCL	577.7
90% Standard Bootstrap UCL	533.2

San Fernando Blvd 1.5-2.0	
Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	12
Maximum	290
Mean	99.6
Median	31
SD	120.8
Variance	14582
Coefficient of Variation	1.212
Skewness	1.285
Mean of log data	3.861
SD of log data	1.414
95% Standard Bootstrap UCL	179.9
90% Standard Bootstrap UCL	161.1

E/B 134 San Refael Ave 0.0-0.5	
Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	53
Maximum	280
Mean	148.6
Median	130
SD	83.22
Variance	6925
Coefficient of Variation	0.56
Skewness	0.988
Mean of log data	4.867
SD of log data	0.601
95% Standard Bootstrap UCL	202.6
90% Standard Bootstrap UCL	191.1

E/B 134 San Refael Ave 0.5-1.0	
Number of Valid Observations	5
Number of Distinct Observations	4
Minimum	12
Maximum	20
Mean	16.4
Median	17
SD	2.881
Variance	8.3
Coefficient of Variation	0.176
Skewness	-0.665
Mean of log data	2.784
SD of log data	0.187
90% Standard Bootstrap UCL	17.87
95% Standard Bootstrap UCL	18.27

E/B 134 San Refael Ave 1.5-2.0	
Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	7.5
Maximum	28
Mean	15.7
Median	15
SD	7.791
Variance	60.7
Coefficient of Variation	0.496
Skewness	1.064
Mean of log data	2.657
SD of log data	0.492
90% Standard Bootstrap UCL	19.79
95% Standard Bootstrap UCL	20.83

W/B 134 San Refael Ave 0.0-0.5	
Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	96
Maximum	230
Mean	175.2
Median	210
SD	62.33
Variance	3885
Coefficient of Variation	0.356
Skewness	-0.634
Mean of log data	5.106
SD of log data	0.402
95% Standard Bootstrap UCL	218.1
90% Standard Bootstrap UCL	207.3

W/B 134 San Refael Ave 0.5-1.0	
Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	3.9
Maximum	36
Mean	11.98
Median	7.1
SD	13.57
Variance	184.1
Coefficient of Variation	1.133
Skewness	2.122
Mean of log data	2.103
SD of log data	0.892
90% Standard Bootstrap UCL	18.83
95% Standard Bootstrap UCL	21.1

W/B 134 San Refael Ave 1.5-2.0	
Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	3.5
Maximum	37
Mean	14.46
Median	12
SD	13.18
Variance	173.8
Coefficient of Variation	0.912
Skewness	1.759
Mean of log data	2.366
SD of log data	0.872
90% Standard Bootstrap UCL	21.16
95% Standard Bootstrap UCL	23.09

S/B Route 2 on ramp from W/B 134 0.0-0.5

Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	11
Maximum	160
Mean	67.4
Median	68
SD	57.52
Variance	3308
Coefficient of Variation	0.853
Skewness	1.222
Mean of log data	3.859
SD of log data	1.016
95% Standard Bootstrap UCL	105.2
90% Standard Bootstrap UCL	96.4

S/B Route 2 on ramp from W/B 134 0.5-1.0

Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	5.5
Maximum	52
Mean	20.06
Median	14
SD	19.03
Variance	362.1
Coefficient of Variation	0.949
Skewness	1.63
Mean of log data	2.661
SD of log data	0.911
90% Standard Bootstrap UCL	29.7
95% Standard Bootstrap UCL	32.3

S/B Route 2 on ramp from W/B 134 1.5-2.0

Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	2.4
Maximum	24
Mean	10.48
Median	7.7
SD	8.752
Variance	76.6
Coefficient of Variation	0.835
Skewness	1.075
Mean of log data	2.038
SD of log data	0.915
90% Standard Bootstrap UCL	15.01
95% Standard Bootstrap UCL	16.18

N/B Route 2 on-ramp from York Blvd 0.0-0.5

Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	210
Maximum	950
Mean	578
Median	540
SD	269.4
Variance	72570
Coefficient of Variation	0.466
Skewness	0.0498
Mean of log data	6.25
SD of log data	0.561
95% Standard Bootstrap UCL	756.7
90% Standard Bootstrap UCL	716.8

N/B Route 2 on-ramp from York Blvd 0.5-1.0

Number of Valid Observations	5
Number of Distinct Observations	3
Minimum	11
Maximum	22
Mean	16.6
Median	17
SD	5.505
Variance	30.3
Coefficient of Variation	0.332
Skewness	-0.0905
Mean of log data	2.762
SD of log data	0.349
90% Standard Bootstrap UCL	N/A
95% Standard Bootstrap UCL	N/A

N/B Route 2 on-ramp from York Blvd 1.5-2.0

Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	3
Maximum	44
Mean	18.18
Median	18
SD	16.21
Variance	262.8
Coefficient of Variation	0.892
Skewness	1.161
Mean of log data	2.509
SD of log data	1.065
90% Standard Bootstrap UCL	26.48
95% Standard Bootstrap UCL	28.68

S/B Route 2 on ramp from Colorado Blvd 0.0-0.5

Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	67
Maximum	490
Mean	233.4
Median	140
SD	176.3
Variance	31078
Coefficient of Variation	0.755
Skewness	0.881
Mean of log data	5.207
SD of log data	0.799
95% Standard Bootstrap UCL	350.4
90% Standard Bootstrap UCL	322.9

S/B Route 2 on ramp from Colorado Blvd 0.5-1.0

Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	5.7
Maximum	52
Mean	23.66
Median	11
SD	21.29
Variance	453.4
Coefficient of Variation	0.9
Skewness	0.722
Mean of log data	2.791
SD of log data	0.983
90% Standard Bootstrap UCL	35.05
95% Standard Bootstrap UCL	37.85

S/B Route 2 on ramp from Colorado Blvd 1.5-2.0

Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	3.9
Maximum	24
Mean	12.2
Median	8.9
SD	9.272
Variance	85.97
Coefficient of Variation	0.76
Skewness	0.522
Mean of log data	2.231
SD of log data	0.848
90% Standard Bootstrap UCL	17.02
95% Standard Bootstrap UCL	18.3

N/B Route 2 on ramp from Eagle Rock Blvd 0.0-0.5

Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	180
Maximum	620
Mean	342
Median	300
SD	168.9
Variance	28520
Coefficient of Variation	0.494
Skewness	1.418
Mean of log data	5.747
SD of log data	0.46
95% Standard Bootstrap UCL	449.6
90% Standard Bootstrap UCL	427.1

N/B Route 2 on ramp from Eagle Rock Blvd 0.5-1.0

Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	7
Maximum	210
Mean	87
Median	29
SD	95.4
Variance	9102
Coefficient of Variation	1.097
Skewness	0.677
Mean of log data	3.748
SD of log data	1.46
90% Standard Bootstrap UCL	136.1
95% Standard Bootstrap UCL	149.9

N/B Route 2 on ramp from Eagle Rock Blvd 1.5-2.0

Number of Valid Observations	5
Number of Distinct Observations	5
Minimum	3.3
Maximum	120
Mean	28.1
Median	6
SD	51.4
Variance	2642
Coefficient of Variation	1.829
Skewness	2.231
Mean of log data	2.229
SD of log data	1.462
90% Standard Bootstrap UCL	54.54
95% Standard Bootstrap UCL	62.02

Task Order Number: 7
EA: 07-266901
Project Name: Ventura Route 33 PM 2.712
Project No.: S9475-06-07

Route 33 at Shell Road
Borings 1133-101 to 1133-105

	90% UCL		95% UCL		Surplus Soil
0 ft					
0.5 ft	Total Lead 244 mg/kg	Predicted WET Lead 21.2 mg/l	Total Lead 260 mg/kg	Predicted WET Lead 22.6 mg/l	Type Z-2
1.0 ft					
1.5 ft					
2.0 ft	Total Lead 17 mg/kg	Predicted WET Lead 1.4 mg/l	Total Lead 17 mg/kg	Predicted WET Lead 1.5 mg/l	Non-Haz
0 ft					
0.5 ft					Type Z-2
1.0 ft	Total Lead 132 mg/kg	Predicted WET Lead 11.5 mg/l	Total Lead 140 mg/kg	Predicted WET Lead 12.2 mg/l	
1.5 ft					
2.0 ft	Total Lead 15 mg/kg	Predicted WET Lead 1.3 mg/l	Total Lead 15 mg/kg	Predicted WET Lead 1.3 mg/l	Non-Haz
0 ft					
0.5 ft					
1.0 ft					
1.5 ft	Total Lead 95 mg/kg	Predicted WET Lead 8.3 mg/l	Total Lead 101 mg/kg	Predicted WET Lead 8.7 mg/l	Type Z-2
2.0 ft	Total Lead 8.0 mg/kg	Predicted WET Lead 0.7 mg/l	Total Lead 8.3 mg/kg	Predicted WET Lead 0.7 mg/l	Non-Haz
0 ft					
0.5 ft					
1.0 ft					
1.5 ft					
2.0 ft	Total Lead 73 mg/kg	Predicted WET Lead 6.4 mg/l	Total Lead 78 mg/kg	Predicted WET Lead 6.7 mg/l	Type Z-2

Task Order Number: 7
EA: 07-266901
Project Name: Los Angeles Route 134 PM 5.369
Project No.: S9475-06-07

Westbound Route 134 on ramp from San Fernando Road
Borings 1133-106 to 1133-110

	90% UCL		95% UCL		Surplus Soil
0 ft					
0.5 ft	Total Lead 194 mg/kg	Predicted WET Lead 16.8 mg/l	Total Lead 199 mg/kg	Predicted WET Lead 17.3 mg/l	Type Z-2
1.0 ft					
1.5 ft					
2.0 ft	Total Lead 409 mg/kg	Predicted WET Lead 35.5 mg/l	Total Lead 445 mg/kg	Predicted WET Lead 38.6 mg/l	Type Z-2
0 ft					
0.5 ft					Type Z-2
1.0 ft	Total Lead 364 mg/kg	Predicted WET Lead 31.6 mg/l	Total Lead 388 mg/kg	Predicted WET Lead 33.7 mg/l	
1.5 ft					
2.0 ft	Total Lead 347 mg/kg	Predicted WET Lead 30.1 mg/l	Total Lead 379 mg/kg	Predicted WET Lead 32.9 mg/l	Type Z-2
0 ft					
0.5 ft					
1.0 ft					
1.5 ft	Total Lead 420 mg/kg	Predicted WET Lead 36.5 mg/l	Total Lead 451 mg/kg	Predicted WET Lead 39.2 mg/l	Type Z-2
2.0 ft	Total Lead 161 mg/kg	Predicted WET Lead 14.0 mg/l	Total Lead 180 mg/kg	Predicted WET Lead 15.6 mg/l	Type Z-2
0 ft					
0.5 ft					
1.0 ft					
1.5 ft					
2.0 ft	Total Lead 355 mg/kg	Predicted WET Lead 30.8 mg/l	Total Lead 384 mg/kg	Predicted WET Lead 33.3 mg/l	Type Z-2

Task Order Number: 7
EA: 07-266901
Project Name: Los Angeles Route 134 PM 12.446
Project No.: S9475-06-07

Eastbound Route 134 on ramp from San Rafael Avenue
Borings 1133-111 to 1133-115

	90% UCL		95% UCL		Surplus Soil
0 ft					
0.5 ft	Total Lead 191 mg/kg	Predicted WET Lead 16.6 mg/l	Total Lead 203 mg/kg	Predicted WET Lead 17.6 mg/l	Type Z-2
1.0 ft					
1.5 ft					
2.0 ft	Total Lead 19 mg/kg	Predicted WET Lead 1.6 mg/l	Total Lead 19 mg/kg	Predicted WET Lead 1.7 mg/l	Non-Haz
0 ft					
0.5 ft					
1.0 ft	Total Lead 105 mg/kg	Predicted WET Lead 9.1 mg/l	Total Lead 110 mg/kg	Predicted WET Lead 9.6 mg/l	Type Z-2
1.5 ft					
2.0 ft	Total Lead 19 mg/kg	Predicted WET Lead 1.6 mg/l	Total Lead 20 mg/kg	Predicted WET Lead 1.7 mg/l	Non-Haz
0 ft					
0.5 ft					
1.0 ft					
1.5 ft	Total Lead 76 mg/kg	Predicted WET Lead 6.6 mg/l	Total Lead 80 mg/kg	Predicted WET Lead 6.9 mg/l	Type Z-2
2.0 ft	Total Lead 20 mg/kg	Predicted WET Lead 1.7 mg/l	Total Lead 21 mg/kg	Predicted WET Lead 1.8 mg/l	Non-Haz
0 ft					
0.5 ft					
1.0 ft					
1.5 ft					
2.0 ft	Total Lead 62 mg/kg	Predicted WET Lead 5.4 mg/l	Total Lead 65 mg/kg	Predicted WET Lead 5.6 mg/l	Type Z-2

Task Order Number: 7
EA: 07-266901
Project Name: Los Angeles Route 134 PM 12.268
Project No.: S9475-06-07

Westbound Route 134 on ramp from San Rafael Avenue
Borings 1133-116 to 1133-120

	90% UCL	95% UCL	Surplus Soil
0 ft			
0.5 ft	Total Lead 207 mg/kg; Predicted WET Lead 18 mg/l	Total Lead 218 mg/kg; Predicted WET Lead 19 mg/l	Type Z-2
1.0 ft			
1.5 ft			
2.0 ft	Total Lead 20 mg/kg; Predicted WET Lead 1.7 mg/l	Total Lead 22 mg/kg; Predicted WET Lead 1.9 mg/l	Non-Haz
0 ft			
0.5 ft			
1.0 ft	Total Lead 113 mg/kg; Predicted WET Lead 9.8 mg/l	Total Lead 120 mg/kg; Predicted WET Lead 10.4 mg/l	Type Z-2
1.5 ft			
2.0 ft	Total Lead 20.0 mg/kg; Predicted WET Lead 1.7 mg/l	Total Lead 22 mg/kg; Predicted WET Lead 1.9 mg/l	Non-Haz
0 ft			
0.5 ft			
1.0 ft			
1.5 ft	Total Lead 82 mg/kg; Predicted WET Lead 7.1 mg/l	Total Lead 87 mg/kg; Predicted WET Lead 7.5 mg/l	Type Z-2
2.0 ft	Total Lead 21 mg/kg; Predicted WET Lead 1.8 mg/l	Total Lead 23 mg/kg; Predicted WET Lead 2.0 mg/l	Non-Haz
0 ft			
0.5 ft			
1.0 ft			
1.5 ft			
2.0 ft	Total Lead 67 mg/kg; Predicted WET Lead 5.8 mg/l	Total Lead 71 mg/kg; Predicted WET Lead 6.1 mg/l	Type Z-2

Task Order Number: 7
EA: 07-266901
Project Name: Los Angeles Route 2 PM 18.622
Project No.: S9475-06-07

Southbound Route 2 on ramp from Westbound Route 134
Borings 1133-121 to 1133-125

	90% UCL		95% UCL		Surplus Soil
0 ft	Total Lead 96 mg/kg	Predicted WET Lead 8.4 mg/l	Total Lead 105 mg/kg	Predicted WET Lead 9.1 mg/l	Type Z-2
0.5 ft					
1.0 ft					
1.5 ft					
2.0 ft	Total Lead 25 mg/kg	Predicted WET Lead 2.2 mg/l	Total Lead 27 mg/kg	Predicted WET Lead 2.3 mg/l	Non-Haz
0 ft					Type Z-2
0.5 ft					
1.0 ft	Total Lead 63 mg/kg	Predicted WET Lead 5.5 mg/l	Total Lead 69 mg/kg	Predicted WET Lead 6.0 mg/l	
1.5 ft					
2.0 ft	Total Lead 22 mg/kg	Predicted WET Lead 1.9 mg/l	Total Lead 24 mg/kg	Predicted WET Lead 2.1 mg/l	Non-Haz
0 ft					
0.5 ft					
1.0 ft					
1.5 ft	Total Lead 52 mg/kg	Predicted WET Lead 4.5 mg/l	Total Lead 57 mg/kg	Predicted WET Lead 4.9 mg/l	Non-Haz
2.0 ft	Total Lead 15 mg/kg	Predicted WET Lead 1.3 mg/l	Total Lead 16 mg/kg	Predicted WET Lead 1.4 mg/l	Non-Haz
0 ft					
0.5 ft					
1.0 ft					
1.5 ft					
2.0 ft	Total Lead 43 mg/kg	Predicted WET Lead 3.7 mg/l	Total Lead 46 mg/kg	Predicted WET Lead 4.0 mg/l	Non-Haz

Task Order Number: 7
EA: 07-266901
Project Name: Los Angeles Route 2 PM 17.584
Project No.: S9475-06-07

Northbound Route 2 on ramp from York Boulevard
Borings 1133-126 to 1133-130

	90% UCL		95% UCL		Surplus Soil
0 ft	Total Lead 717 mg/kg	Predicted WET Lead 62.2 mg/l	Total Lead 757 mg/kg	Predicted WET Lead 65.7 mg/l	
0.5 ft					Type Z-2
1.0 ft					
1.5 ft					
2.0 ft	Total Lead 24 mg/kg	Predicted WET Lead 2.0 mg/l	Total Lead 24 mg/kg	Predicted WET Lead 2.1 mg/l	Non-Haz
0 ft					
0.5 ft					
1.0 ft	Total Lead 370 mg/kg	Predicted WET Lead 32.1 mg/l	Total Lead 389 mg/kg	Predicted WET Lead 33.8 mg/l	Type Z-2
1.5 ft					
2.0 ft	Total Lead 24 mg/kg	Predicted WET Lead 2.1 mg/l	Total Lead 25 mg/kg	Predicted WET Lead 2.2 mg/l	Non-Haz
0 ft					
0.5 ft					
1.0 ft					
1.5 ft	Total Lead 254 mg/kg	Predicted WET Lead 22.0 mg/l	Total Lead 267 mg/kg	Predicted WET Lead 23.2 mg/l	Type Z-2
2.0 ft	Total Lead 27 mg/kg	Predicted WET Lead 2.3 mg/l	Total Lead 29 mg/kg	Predicted WET Lead 2.5 mg/l	Non-Haz
0 ft					
0.5 ft					
1.0 ft					
1.5 ft					
2.0 ft	Total Lead 197 mg/kg	Predicted WET Lead 17.1 mg/l	Total Lead 207 mg/kg	Predicted WET Lead 18.0 mg/l	Type Z-2

Task Order Number: 7
EA: 07-266901
Project Name: Los Angeles Route 2 PM 18.237
Project No.: S9475-06-07

Southbound Route 2 on ramp from Colorado Boulevard
Borings 1133-131 to 1133-135

	90% UCL		95% UCL		Surplus Soil
0 ft					
0.5 ft	Total Lead 323 mg/kg	Predicted WET Lead 28.0 mg/l	Total Lead 350 mg/kg	Predicted WET Lead 30.4 mg/l	Type Z-2
1.0 ft					
1.5 ft					
2.0 ft	Total Lead 29 mg/kg	Predicted WET Lead 2.5 mg/l	Total Lead 31 mg/kg	Predicted WET Lead 2.7 mg/l	Non-Haz
0 ft					
0.5 ft					
1.0 ft	Total Lead 179 mg/kg	Predicted WET Lead 15.5 mg/l	Total Lead 194 mg/kg	Predicted WET Lead 16.9 mg/l	Type Z-2
1.5 ft					
2.0 ft	Total Lead 26 mg/kg	Predicted WET Lead 2.3 mg/l	Total Lead 28 mg/kg	Predicted WET Lead 2.4 mg/l	Non-Haz
0 ft					
0.5 ft					
1.0 ft					
1.5 ft	Total Lead 131 mg/kg	Predicted WET Lead 11.4 mg/l	Total Lead 142 mg/kg	Predicted WET Lead 12.3 mg/l	Type Z-2
2.0 ft	Total Lead 17 mg/kg	Predicted WET Lead 1.5 mg/l	Total Lead 18 mg/kg	Predicted WET Lead 1.6 mg/l	Non-Haz
0 ft					
0.5 ft					
1.0 ft					
1.5 ft					
2.0 ft	Total Lead 103 mg/kg	Predicted WET Lead 8.9 mg/l	Total Lead 111 mg/kg	Predicted WET Lead 9.6 mg/l	Type Z-2

Task Order Number: 7
EA: 07-266901
Project Name: Los Angeles Route 2 PM 16.856
Project No.: S9475-06-07

Northbound Route 2 on ramp from Eagle Boulevard
Borings 1133-136 to 1133-140

	90% UCL	95% UCL	Surplus Soil
0 ft			
0.5 ft	Total Lead 427 mg/kg; Predicted WET Lead 37.1 mg/l	Total Lead 450 mg/kg; Predicted WET Lead 39.0 mg/l	Type Z-2
1.0 ft			
1.5 ft			
2.0 ft	Total Lead 109 mg/kg; Predicted WET Lead 9.5 mg/l	Total Lead 121 mg/kg; Predicted WET Lead 10.5 mg/l	Type Z-2
0 ft			
0.5 ft			
1.0 ft	Total Lead 282 mg/kg; Predicted WET Lead 24.4 mg/l	Total Lead 300 mg/kg; Predicted WET Lead 26.0 mg/l	Type Z-2
1.5 ft			
2.0 ft	Total Lead 95.3 mg/kg; Predicted WET Lead 8.3 mg/l	Total Lead 106 mg/kg; Predicted WET Lead 9.2 mg/l	Type Z-2
0 ft			
0.5 ft			
1.0 ft			
1.5 ft	Total Lead 233 mg/kg; Predicted WET Lead 20.2 mg/l	Total Lead 250 mg/kg; Predicted WET Lead 21.7 mg/l	Type Z-2
2.0 ft	Total Lead 55 mg/kg; Predicted WET Lead 4.7 mg/l	Total Lead 62 mg/kg; Predicted WET Lead 5.4 mg/l	Type Z-2
0 ft			
0.5 ft			
1.0 ft			
1.5 ft			
2.0 ft	Total Lead 188 mg/kg; Predicted WET Lead 16.4 mg/l	Total Lead 203 mg/kg; Predicted WET Lead 17.6 mg/l	Type Z-2

APPENDIX B

Location 9 – NB Route 170 on Ramp From WB Victory Blvd (Stage 3, NB)

Route/Stage	Depth (m)	UCL 90% for Re-use Evaluation			UCL 95% for Disposal Evaluation		Soil Classification	Excess Soil Handling
		Total Lead mg/kg	STLC mg/l	DI-STLC mg/l	Total Lead mg/kg	STLC mg/l		
Route 170, Entire NB	All depths	359.1	23.27	0.51*	378.8	24.57	Type Y	Type Z-2
	0.15	775.8	50.73	0.87*	837.4	54.79	Type Y	Type Z-2
	0.45+0.75+1.5	273.7	17.64	0.44	292.4	18.88	Type Y	Type Z-2
Route 170, Stage 1, NB	All depths	634.5	41.42	0.75*	679.6	44.39	Type Y	Type Z-2
	0.15	1388.6	91.12	1.4*	1527	100.24	Type Y	Type Z-2
	0.45+0.75+1.5	514.5	33.51	0.64*	559.4	36.47	Type Y	Type Z-2
	0.15+0.45	1069	70.05	1.12*	1149.3	75.35	Type Y	Type Z-2
	0.75+1.5	301.8	19.5	0.46	335.5	21.72	Type Y	Type Z-2
Route 170, Stage 2, NB	All depths	379.8	24.64	0.53*	418.1	27.16	Type Y	Type Z-2
	0.15	983.5	64.42	1.05*	1116.9	73.21	Type Y	Type Z-2
	0.45+0.75+1.5	294.3	19	0.45	330.5	21.39	Type Y	Type Z-2
Route 170, Stage 3, NB	All depths	214.1	13.72	0.38	255.3	16.43	Type Y	Type Z-2

ADL Soil Classification:

Type Y: These materials are hazardous waste regulated by the State of California permitted for reuse under the DTSC Variance. The materials shall be placed as shown on the contract plans and covered with a minimum 0.3m (1') of non-hazardous soils (soft cover) or under a pavement section (hard cover). Excess materials shall be handled as Type Z-2.

Type Z-2: These materials are hazardous waste regulated by the State of California and shall be transported and disposed to an approved Class 1 disposal facility.

* Soil can be re-used under a pavement (hard cover only) based on DI-WET result (> 0.5 mg/l)

AESCO
TECHNOLOGIES, INC.

18548 Beach Boulevard
Huntington Beach, California 92648
Tele: (714) 593 – 2567
Fax: (714) 593 – 0022

Volume III
Aerially Deposited Lead Study

MTA Soundwall Projects
Phase I Priority 2 State Routes 134 and 170
State Route 134, P.M./K.P. 10.8/17.4 to 11.4/18.4 EB
State Route 170, P.M./K.P. 14.7/23.7 to 16.6/26.7 SB
State Route 170 P.M./KP 14.7/23.7 to 16.0 /25.7 NB
State Route 170, P.M./K.P. 16.7/26.9 to 18.3/29.4 SB
State Route 170, P.M./K.P. 17.2/27.7 to 18.3/29.4 NB & SB
Los Angeles County, California

CALTRANS EA: 23280K
District 7, South Region, Los Angeles County

AESCO Project No. 20020155 (Sites #1, #2, #3, #4, & #5)

Prepared for:

Metropolitan Transportation Authority
c/o Washington Infrastructure Services, Inc.
17300 Redhill Avenue
Suite 150
Irvine, California 91614-5650

Attention: Mr. Carlos Cadena, P.E., Project Manager

Prepared by:

AESCO Technologies, Inc.
18548 Beach Boulevard
Huntington Beach, California 92648

Adam Chamaa, P.E.
Engineering Manager

RECEIVED
MAY 28 2003

May 23, 2003

AESCO
TECHNOLOGIES, INC.

18548 Beach Boulevard
Huntington Beach, California 92648
Tele: (714) 593 – 2567
Fax: (714) 593 – 0022

May 23, 2003

Metropolitan Transportation Authority (MTA)
c/o Washington Infrastructure Services, Inc.
17300 Red Hill Avenue, Suite 150
Irvine, California 92614-5650

Attention: Mr. Carlos A. Cadena, P.E.
Project Manager

Our Reference: MTA Soundwall Projects
Phase I – Priority 2
Los Angeles County, California
AESCO Project No. 20020155-1 (Sites 1, 2, 3, 4 & 5)

Caltrans Reference: File 07-LA-134 KP 17.4/18.3
07-LA-170 KP 23.7/29.5
Soundwall Project, Phase I, Priority II,
MTA Oversight Project
EA: 23280K Unique ID: 577 (Routes 134 and 170)

Dear Mr. Cadena:

Attached is the Aerially Deposited Lead (ADL) Study for the above referenced project. This study will be part of the Noise Barrier Scope Summary Report (NBSSR), which will be prepared by Washington Infrastructure Services. This study evaluates the sites of the proposed soundwalls for ADL and provides our findings and recommendations.

This study evaluates the sites of the proposed soundwalls for State Routes 134 and 170 for ADL and provides our findings and recommendations. This revision has addressed the issues discussed in our Caltrans meetings on February 21, 2003 and May 21, 2003.

We understand from Caltrans, that the entire appendixes are not required until a final approval is made. However, we have attached the revised appendixes listed below for your insertion:

Appendix A – September 22, 2000 Soil Lead Variance DTSC Legislative Summary, AB-414, modification Letter

Appendix G – Memorandums from the Department of Transportation OEEFS-Hazardous Waste Branch, South Region, MS 16, dated, November 19, 2002, February 6, 2003, and May 5, 2003

AESCO
TECHNOLOGIES, INC.

18548 Beach Boulevard
Huntington Beach, California 92648
Tele: (714) 593 – 2567
Fax: (714) 593 – 0022

It has been a pleasure to perform this work for you. If we can be of any further assistance, please contact us.

Very truly yours,
AESCO Technologies, Inc.

CERTIFIED ENGINEERING GEOLOGIST
RONALD C. HANSON
No. 1841
Exp. Date: 11/30/03
STATE OF CALIFORNIA

Ron Hanson,, R. G., C.E.G.
R. G. #5143 & CEG #1841

Adam Chamaa, P.E.
C.E. #53992
Manager

REGISTERED PROFESSIONAL ENGINEER
ADAM CHAMAA
No. C 53992
Exp. 12/31/03
CIVIL
STATE OF CALIFORNIA

AC:mb

Table of Contents

SECTION	PAGE
Executive Summary	1
1.0 Introduction	6
1.1 Purpose	6
1.2 Scope of Work	6
1.3 Location of Study	6
1.4 Study Limitations	7
1.5 Lead-Based Paint	8
2.0 Site Reconnaissance	9
2.1 Sites Locations Information	9
3.0 Geophysical Setting	10
3.1 Topography, Surface Water and Hydrogeology	10
3.1.1 State Route 134	10
3.1.2 State Route 170	10
4.0 Soil-Lead Survey (SLS)	12
4.1 Historical Background of Aerially Deposited Lead	12
4.2 Public Health Threat by Lead	13
4.3 Available Records & Previous Studies	13
4.4 Background on DTSC Regulatory Requirements for Caltrans Project	14
4.5 Site Investigation (SI)	15
5.0 Field Work and Procedures	17
5.1 Equipment & Tools Used	17
5.2 ADL Sampling Procedures	17
5.3 Decontamination of Field Equipment	17
5.4 Work Procedures at Site	18
6.0 Borehole General Information	19
6.1 Borehole Location	19
6.2 Quantity of ADL Soil Borings and Sampling Criteria	19
6.3 Predicted Construction Stages	20
7.0 Laboratory	22
7.1 General Information	22
7.2 Laboratory Testing	22
7.3 Laboratory Test Reporting	23
7.4 Laboratory Test Results	23

8.0 Conclusion & Recommendation 37
8.1 Statistical Analysis 37
8.2 State Route 134, Site #1 (Eastbound) 39
8.2.1 Total Lead Analysis 39
8.2.2 Soluble Lead STLC (Citrate) 40
8.2.3 Soluble Lead STLC (Di-Ionized) 40
8.2.4 pH 40
8.2.5 TCLP 40
8.2.6 Total Metal (CAM 17) 40
8.2.7 Soil Re-use Evaluation (Based on TTLC and Di-STLC) 41
8.2.8 Soil Handling Disposals 41
8.3 State Route 170, Sites #3 and #5 (Northbound) 42
8.3.1 Total Lead Analysis 42
8.3.2 Soluble Lead STLC (Citrate) 42
8.3.3 Soluble Lead STLC (Di-Ionized) 42
8.3.4 pH 43
8.3.5 TCLP 43
8.3.6 Total Metal (CAM 17) 43
8.3.7 Soil Re-use Evaluation (Based on TTLC and Di-STLC) 44
8.3.8 Soil Handling Disposals 45
8.4 State Route 170, Sites #2, #4, and #5 (Southbound) 45
8.4.1 Total Lead Analysis 45
8.4.2 Soluble Lead STLC (Citrate) 46
8.4.3 Soluble Lead STLC (Di-Ionized) 46
8.4.4 pH 46
8.4.5 TCLP 46
8.4.6 Total Metal (CAM 17) 47
8.4.7 Soil Re-use Evaluation (Based on TTLC and Di-STLC) 47
8.4.8 Soil Handling Disposals 49
9.0 Disclaimer 50
10.0 References 51
11.0 Glossary 53

Appendix

Appendix A	September 22, 2000 Soil Lead Variance DTSC Legislative Summary, AB-414, Modification Letter	A
Appendix B	ADL Boring Location Plans & Proposed Location of the Soundwalls (Aerial Photos)	B
Appendix C	Letter from Associated Laboratory dated, February 27, 2003, regarding the EPA 9045 Test Method Results from Associated Laboratory	C
Appendix D	Statistic Analysis for Upper Confidence Level	D
Appendix E	Chain of Custody	E
Appendix F	Latitude & Longitude of Borehole Locations	F
Appendix G	Memorandum from the Department of Transportation OEEFS-Hazardous Waste Branch, South Region, MS 16 dated, November 19, 2002, February 6, 2003, and May 5, 2003	G
Appendix H	GIS Data	H

EXECUTIVE SUMMARY

AESCO Technologies, Inc. contracted with Washington Infrastructure Services, Inc. in May, 2002, to perform an Aerially Deposited Lead Study (ADL), as required by the California Department of Transportation (Caltrans) for the proposed soundwalls located along parts of State Routes 134 and 170. This ADL study was performed in conformance with the California Environmental Protection Agency, The Department of Toxic Substances Control Variance and AB-414.

Prior to starting the field investigation, AESCO submitted the Health and Safety Plan and Work Plan to Caltrans. The Health and Safety Plan and the Work Plan were reviewed and approved by Caltrans. The ADL study included the installation and sampling of soil borings at the subject sites.

Thresholds of 1411 and 3397 milligrams per kilogram (mg/kg) for the total lead and 0.5 milligrams per liter (mg/L) extractable lead (based on modified waste extraction test using de-ionized water as the extractant), based on DTSC Variance Modification letter, dated 12/13/2002, were used to determine the re-use and fill possibility of the soil, as per the DTSC. The reuse of soils shall be as per the requirements of the DTSC Variance. This modification letter is presented in Appendix A. The DTSC Variance criteria allows the use of soil provided it is covered with an impermeable membrane or 0.3-meter (1-foot) of non-hazardous soil (soft cover) based on the result of the extractable lead using a modified waste extraction test using de-ionized water (Di-Wet). A threshold of 350 mg/kg, 2500 parts per million (ppm) of copper and 2000 ppm of nickel were used to determine handling and the disposal process of the soil. The statistical analyses included the calculation of the upper confidence limit (UCL) 90% and UCL 95% of the total lead concentration. The UCL 90% is used for soil re-use decision making; while the UCL 95% is used for handling and disposal evaluation.

The proposed soundwalls along the five sites along State Routes 134 and 170 were grouped in eight construction stages as outlined below. The predicted construction stages were submitted to Caltrans with the work plan.

CONSTRUCTION STAGES WITH BORING NUMBERS	
State Route 134 (Eastbound)	
Anticipated Construction Stages	**Borehole Number**
1	**577-215 Thru 577-219**
State Route 170 (Northbound)	
Anticipated Construction Stages	**Borehole Number**
1	**577-136 Thru 577-147**
2	**577-148 Thru 577-163**
3	**577-200 Thru 577-210**
State Route 170 (Southbound)	
Anticipated Construction Stages	**Borehole Number**
1	**577-180 Thru 577-196**
2	**577-173 Thru 577-179**
3	**577-112 Thru 577-121 and 577-170 thru 577-172**
4	**577-101 Thru 577-111 and 577-122 thru 577-129**

The spacing between the borings was maintained between 164 feet/50 meters and 328 feet/100 meters. The actual numbers of test borings are based on the length of the proposed soundwalls and length of existing bridges. Selected soil samples were analyzed according to the work plan. The following table summarizes the number of tests performed for each route.

Description of number of tests on samples obtained from parts along State Routes 134: Eastbound & 170: Northbound and Southbound		
Analyte	Number of Samples Tested along State Route 134, Site # 1	Number of Samples Tested along State Route 170, Sites # 2, 3, 4 and 5
TTLC	20	380
STLC	15	201
Di-STLC	14	156
TCLP	8	94
pH	5	42
CAM 17	4	38

TTLC, STLC and Di-STLC statistical test results are presented in the following tables:

Route/Stage	Depth (m)	UCL 90% for Re-use Evaluation			UCL 95% for Disposal Evaluation		Soil Classification	Excess Soil Management
		Total Lead mg/kg	STLC mg/l	Di-STLC mg/l	Total Lead mg/kg	STLC mg/l		
Route 134, Site 1, EB	All depths	399.3	27.34	0.1	433.2	29.66	Type Y	Type Z-2
	0.15	976.4	66.98	0.1	1051.6	72.15	Type Y	Type Z-2
	0.45+0.75+1.5	199.5	13.61	0.1	214	14.61	Type Y	Type Z-2

Route/Stage	Depth (m)	UCL 90% for Re-use Evaluation			UCL 95% for Disposal Evaluation		Soil Classification	Excess Soil Management
		Total Lead mg/kg	STLC mg/l	Di-STLC mg/l	Total Lead mg/kg	STLC mg/l		
Route 170, Entire SB	All depths	373.8	20.79	0.18	391.1	21.56	Type Y	Type Z-2
	0.15	744.4	37.43	0.2	791.9	39.56	Type Y	Type Z-2
	0.45+0.75+1.5	298.9	17.42	0.17	317.4	18.25	Type Y	Type Z-2
Route 170, Stage 1, SB	All depths	274.5	16.33	0.17	291.6	17.09	Type Y	Type Z-2
Route 170, Stage 2, SB	All depths	591.7	30.57	0.19	650.8	33.22	Type Y	Type Z-2
	0.15	1741.7	82.2	0.26	1921.8	90.92	Type Y	Type Z-2
	0.45+0.75+1.5	236.5	14.62	0.17	259.8	15.67	Type Y	Type Z-2
Route 170, Stage 3, SB	All depths	512.1	27	0.19	559.7	29.13	Type Y	Type Z-2
	0.15	1378.2	65.88	0.24	1558.9	74	Type Y	Type Z-2
	0.45+0.75+1.5	351.7	19.79	0.18	386.6	21.36	Type Y	Type Z-2
	0.15+0.45	855.3	42.4	0.21	948.4	46.59	Type Y	Type Z-2
	0.75+1.5	293.1	17.16	0.17	324.6	18.58	Type Y	Type Z-2
Route 170, Stage 4, SB	All depths	547.7	28.59	0.19	586.9	30.35	Type Y	Type Z-2
	0.15	817.1	40.69	0.2	890.2	43.97	Type Y	Type Z-2
	0.45+0.75+1.5	554	28.88	0.19	603.6	31.1	Type Y	Type Z-2

Route/Stage	Depth (m)	UCL 90% for Re-use Evaluation			UCL 95% for Disposal Evaluation		Soil Classification	Excess Soil Management
		Total Lead mg/kg	STLC mg/l	DI-STLC mg/l	Total Lead mg/kg	STLC mg/l		
	0.15+0.45	644.5	32.94	0.19	698.4	35.36	Type Y	Type Z-2
	0.75+1.5	617.4	31.72	0.19	683.4	34.69	Type Y	Type Z-2
	0.15+0.45+0.75	625.6	32.09	0.19	672.6	34.2	Type Y	Type Z-2
	1.5	718	36.24	0.2	826.9	41.13	Type Y	Type Z-2

Route/Stage	Depth (m)	UCL 90% for Re-use Evaluation			UCL 95% for Disposal Evaluation		Soil Classification	Excess Soil Handling
		Total Lead mg/kg	STLC mg/l	DI-STLC mg/l	Total Lead mg/kg	STLC mg/l		
Route 170, Entire NB	All depths	359.1	23.27	0.51*	378.8	24.57	Type Y	Type Z-2
	0.15	775.8	50.73	0.87*	837.4	54.79	Type Y	Type Z-2
	0.45+0.75+1.5	273.7	17.64	0.44	292.4	18.88	Type Y	Type Z-2
Route 170, Stage 1, NB	All depths	634.5	41.42	0.75*	679.6	44.39	Type Y	Type Z-2
	0.15	1388.6	91.12	1.4*	1527	100.24	Type Y	Type Z-2
	0.45+0.75+1.5	514.5	33.51	0.64*	559.4	36.47	Type Y	Type Z-2
	0.15+0.45	1069	70.05	1.12*	1149.3	75.35	Type Y	Type Z-2
	0.75+1.5	301.8	19.5	0.46	335.5	21.72	Type Y	Type Z-2
Route 170, Stage 2, NB	All depths	379.8	24.64	0.53*	418.1	27.16	Type Y	Type Z-2
	0.15	983.5	64.42	1.05*	1116.9	73.21	Type Y	Type Z-2
	0.45+0.75+1.5	294.3	19	0.45	330.5	21.39	Type Y	Type Z-2
Route 170, Stage 3, NB	All depths	214.1	13.72	0.38	255.3	16.43	Type Y	Type Z-2

ADL Soil Classification:

Type Y: These materials are hazardous waste regulated by the State of California permitted for reuse under the DTSC Variance. The materials shall be placed as shown on the contract plans and covered with a minimum 0.3m (1') of non-hazardous soils (soft cover) or under a pavement section (hard cover). Excess materials shall be handled as Type Z-2.

Type Z-2: These materials are hazardous waste regulated by the State of California and shall be transported and disposed to an approved Class 1 disposal facility.

* Soil can be re-used under a pavement (hard cover only) based on DI-WET result (> 0.5 mg/l)

Aerially deposited lead contaminated soil exists within the project limits. Remediation of aerially deposited lead contaminated soils shall be as per variance issued to Caltrans by the State Department of Toxic Substances Control (DTSC).

AESCO's findings and conclusions are summarized below:

- Soils that can be re-used under soft cover

Soils along 1: State Route 134 EB, Site #1, 2: State Route 170 SB, Stages #1, #2, #3, and #4, 3: State Route 170 NB, Stages #1 at depth of 0.75m + 1.5m and Stage #2 at depth of 0.45m + 0.75m + 1.5m and Stage #3 are considered hazardous soil of Type Y that can be re-used as fill provided that it should be covered with an impermeable membrane or at least 0.3m (1-foot) of non-hazardous soil (Soft cover) and that the lead contaminated soil is placed a minimum of five feet above the maximum water table elevation.

- Soils that can be re-used under hard cover

The following soils are considered hazardous of Type Y that can be re-used as fill provided that the lead-contaminated soils are placed a minimum of five (5) feet above the maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.

- Soils along State Route 170 SB, Stage #2 layer of 0.15m,
- Soils along State Route 170 NB, Stage #1 at combination of all layers or if separated the combined layers of 0.75+1.5m are excluded,
- Stage #2 at combination of all depths, or if separated only layer 0.15m requires hard cover.

Excess soils along all the stages for State Routes 134 and 170 are considered hazardous soil of type Z-2. Excess soils of Type Z-2 shall be disposed at Class I Landfill. Also, all the TCLP values were less than 5 mg/l. Therefore and based on the Code of Federal Regulation (CFR), the soil can be considered as non-RCRA waste.

In addition, appropriate health and safety measures should be taken to minimize the exposure of construction personnel to lead.

INTRODUCTION

1.1 Purpose

This report presents the Phase I Priority II Soundwall Projects for Metropolitan Transportation Authority's (MTA) Aerially Deposited Lead Study. The projects are located within the California Department of Transportation (Caltrans) right-of-way (ROW). This study was performed in pursuant to Washington Infrastructure Services Inc. (Washington) acceptance dated; May 9, 2002 of AESCO's written proposal.

The objective of this assessment was to evaluate if aerially deposited lead from vehicle exhaust fallout impacted the subsurface soils of the subject site. Activities included soil sampling for the Aerially Deposited Lead (ADL) investigation, laboratory testing and evaluation of test results.

The assessment was undertaken in preparation for construction of new soundwalls and extension of existing soundwalls. The purpose of the soundwall is to reduce and mitigate the noise decibels generated by vehicles driving along the freeway to neighborhood and residences located adjacent to portions of State Routes 134 and 170.

1.2 Scope of Work

AESCO performed the following tests as part of this study:

- AESCO reviewed available information developed by the design team for planning the ADL investigation,
- A health and safety plan was prepared prior to performing this work,
- AESCO submitted their work plan to Caltrans and was approved,
- Approximate boring locations were plotted on aerial photos that were prepared by Washington Infrastructure Services, Inc.,
- AESCO collected soil samples by powered auger boring techniques during daytime hours with traffic control as defined by the Health and Safety Plan of this project, and according to the approved Work Plan,
- An accredited testing laboratory was engaged by AESCO to perform TOTAL LEAD ANALYSIS, SOLUBLE LEAD (Citrate) ANALYSIS, SOLUBLE LEAD (De-Ionized) ANALYSIS, pH, SOLUBLE LEAD TCLP, all metals (CAM 17/Title 22 Metals Analysis), and
- AESCO prepared the ADL report with tables, graphs, analysis and recommendations to be submitted as a hardcopy and in PDF form file.

1.3 Location of Study

Aforementioned study for the ADL investigation for the proposed new soundwalls locations was made in September 2002 and October 2002. The proposed new soundwalls are located along parts of State Route 134 in Eagle Rock and State Route 170 in Los Angeles. The study area locations, postmiles/kiloposts, description and lengths of each

site are in the following table. The locations of the soundwalls are shown on the attached aerial photos maps in Appendix B of this report.

ADL Study Location Summary						
	Postmile/ KiloPost				Project Description	
Site Nos.	From	To	Dist. mile/Kilometer	Total Project Dist(mile)	General location	Location
State Route 134						
1	10.8/17.4	11.4/18.4	0.6/ 1.0	0.6	Eagle Rock	West of Mt. Helen Ave / W. of Figueroa St: EB
Total Length in Miles				0.6		
State Route 170						
2	14.7/23.7	16.6/26.7	1.9/3.1	1..9	Los Angeles	State Route 134/ Oxnard Street: SB
3	14.7/23.7	16.0/25.7	1.3/2.1	1..3	Los Angeles	State Route 134/ Burbank Blvd.: NB
4	16.7/26.9	17.2/27.7	0.5/0.8	0..5	Los Angeles	Laurel Canyon Blvd. / Victory Blvd.: SB
5	17.2/27.7	18.3/29.4	1.1/1.8	2..2	Los Angeles	Victory Blvd. / Sherman Way: NB & SB
Total Length in Miles				5..9		

1.4 Study Limitations

The soil lead survey and ADL study results contained herein are based solely on the analytical results of a limited number of soil borings; drilled, samples collected and tested. The results, conclusions, and recommendations regarding soil areas and/or dimensions contained herein are considered as an estimate based on similar studies performed in the vicinity and cannot be: construed, inferred, or relied upon as an engineering estimate. Additionally, the placements of the soil borings locations to assess the subsurface soil-lead conditions were located as close as possible to the actual location mark on the proposed soundwall project map, where they were accessible and safe. It should also be noted that the difference in soil-lead concentrations between boring locations could vary laterally and with depth at any given site, although the results contained herein are considered representative of the subject site as a whole.

This report all field data and notes were gathered and/or prepared by AESCO in accordance with the agreed-upon scope of work and generally accepted engineering, and scientific practice in effect at the time of AESCO's investigation of the site. The statements, conclusions, and opinions contained in this report are only intended to give approximations of the ADL conditions of the site. Moreover, there are several major limitations that inherent in the conduct of this, or any other, environmental due diligence assessment.

- First, it is difficult to predict which; if any, of the potential environmental issues identified will become actual problems in the future, for federal and state environmental regulations continually change, as do the enforcement priorities of

the applicable governmental agencies involved. It should be noted that the criteria/methods for measuring hazardous level/content of the waste are different from agency to agency.

- Second, even for problems currently identified, it is often difficult and sometimes impossible to accurately estimate the liabilities that may be involved in remedying the problem(s), for the legal and technological standards for evaluating, remedying, and allocating liability for environmental issues are in a constant state of change. Moreover, the liability for remedying environmental problems tends to be highly dependent upon agency negotiations and the sometimes arbitrary and unpredictable nature of agency officials charged with such negotiations.

- Third, there is always the distinct possibility that major sources of future environmental liability have yet to manifest themselves to the point where they are reasonable identifiable through an external investigation such as the one conducted herein.

This report, including all supporting field data, notes, and laboratory data (where applicable) (collectively referred to hereinafter as "information"), was prepared or collected by AESCO for the benefit of its client, MTA, Caltrans and Washington Infrastructure Group, Inc. AESCO's client may release the information to third parties, who may use and rely upon the information at their discretion. However, any use of or reliance upon the information by a party other than specifically named above shall be solely at the risk of such third party and without legal recourse against AESCO, its parent, its subsidiaries and affiliates, or their respective employees, officers, or directors regardless of whether the action in which recovery of damages is sought is based upon contract, or (including the sole, concurrent, or other negligence and strict liability of AESCO), statute, or otherwise. This information shall not be used or relied upon by a party that does not agree to be bound by the above statement.

1.5 Lead-Based Paint

Painted structures were neither observed nor evaluated on the sites at the time of AESCO's site visits. It should be noted that lead-based paint sampling was not conducted as part of this assessment and was not part of the scope of work.

2.0 SITE RECONNAISSANCE

When the work plan was approved by Caltrans, an initial site reconnaissance team of AESCO personnel made a general traverse of the site area. This traverse included visual observation of nature of the location of the work, neighborhood facility, sensitive offsite objects, and traffic conditions and provided a feed back report to AESCO's head office. It facilitated the Site Investigation (SI) crew to proceed with the field work efficiently.

2.1 Sites Locations Information

The sites within our study are located along two state routes. State Route 134 currently consists of 10 lanes (five eastbound lanes and five westbound lanes), the high occupancy vehicle lane on each direction is 3.6m (11.8 ft.) in width, and each of travel lanes is 3.3m (10.8 ft.) in width. Paved shoulders and auxiliary lanes are located at some ramp locations. The width of the shoulder is approximately 3m (9.8 ft.).

State Route 170 currently consists of 8 lanes (four northbound lanes and four southbound lanes). Each of the travel lanes is 3.3m (10.8 ft.) in width. Paved shoulders and auxiliary lanes are located at some ramp locations. The width of the shoulder is approximately 3m (9.8 ft.).

3.0 GEOPHYSICAL SETTING

3.1 Topography, Surficial Water, Groundwater and Hydrogeology

One area of concern is the spread of contamination brought on by migration through the subsurface agents. The direction of contaminant migration normally follows the direction of groundwater flow, which generally corresponds to the elevation of the ground.

The rate and extent of contaminant transport depends on several factors which include; but not limited to: type of contaminant, soil types and chemistry, aquifer characteristics, and influences on aquifer behavior.

The available information included existing Log of Test Borings (LOTB's) under Caltrans Document numbers 70000230, 70000019, 70001860, 70002327, and 6103, monitoring wells and boreholes conducted by Department of Conservation, Division of Mines and Geology, 1998.

3.1.1 State Route 134

The topographic study near Site #20020155-1-(Site #1) is as follows:

> The northern part of the site, State Route 134, has higher topographic contours ranging from 335m to 426m (1100 ft. to 1400 ft.) and the southern part of the site has lower topographic contours ranging from 213m to 274m (700 ft. to 900 ft.).

Usually, surface water flow follows the elevation (gradient) of the ground surface. The general surface water flow is towards the southwest.

The existing Log of Test Borings (LOTBs) indicated variations in the groundwater elevations. The ground water table was found at elevation 248.6m (815.5 ft.) in borings conducted on October 1, 1964 and at 260.21m (853.7 ft.) in borings conducted on August 23, 1967.

3.1.2 State Route 170

The topographic study at [Site #2002155-1-(Site #2), Site #2002155-1-(Site #3), Site #2002155-1-(Site #4), and Site #2002155-1-(Site #5)] along the northbound and southbound of State Route 170, California, is as follows:

> The northwestern part of the site, State Route 170, has higher topographic contours ranging from 213m to 226m (700 ft. to 740 ft.) and gradually lesser toward southeast direction, where contours ranged from 183m to 198m (600 ft. to 650 ft.). Usually, surficial water flow follows the elevation (gradient) of the ground surface. The general surface water flow is toward the southeast direction.

The existing Log of Test Borings available to us indicated that most of the locations had no groundwater table encountered. However, the groundwater table was encountered at the Riverside-Tujunga Avenue Undercrossing where the measurements showed a groundwater elevation of 178m (584 ft.) on March 21, 1959; and 181.26m (594.7 ft.) on February 12, 1959. The other available LOTBs did not show any ground water.

The groundwater data information plays a significant role in the distribution and concentration of subsurface solid waste, especially for the interpretation of locally high anomalies in the results. The fluctuation and movement of subsurface ground water affect the concentration of contaminants. When ground water rises, it may transport contaminant from higher elevation to lower elevation. No groundwater was encountered during the subsurface exploration at the maximum depth of the boring at 1.5m.

4.0 SOIL-LEAD SURVEY (SLS)

Lead has accumulated in the soils adjacent to the highways above the natural levels due to the historic use of lead antiknock compounds in gasoline, the use of lead tire weights, lead in paints used for highway lane markings, paint striping, and lead paint used on structures; such as, highways, bridges and ambient levels of lead in crude oil and/or gasoline.

The history of Aerially Deposited Lead, a description of the Caltrans/DTSC requirements for aerially deposited lead from vehicle exhaust fallout, the soil sampling methodology, and analytical results of the SLS are also listed here.

4.1 Historical Background of Aerially Deposited Lead

Historically, leaded gas was widely used in United States. Some of the fact-sheet data is listed below for informational purposes only.

Year	: Milestones
• Pre-1900	: Toxicity known
• 1922	: Tetraethyl lead (TEL) discovered, leaded gasoline introduced
• 1925	: Public controversy and the start of "scientific hegemony" • Numerous lead poisonings (some deaths) in TEL manufacturing facilities, • Leaded gasoline voluntarily withdrawn from the market, and • Leaded gasoline reintroduced.
• 1965	: Contaminated and Natural Lead Environments of Man
• *1972*	: *Airborne Lead in Perspective.* 90% of all gasoline is leaded.
• 1974	: Sub clinical lead exposure in Philadelphia schoolchildren
• *1974*	: *EPA announces phase out of lead in gasoline.*
• 1981	: Failed attempt to reverse lead phase out
• *1990*	: *Clean Air Act: leaded gasoline banned.*

Although no leaded gas is used nowadays for motor vehicles, accumulation of lead above natural level is expected in soils adjacent to Freeways. Previous studies indicated that the lead concentration is high within the upper 0.6m /2 ft. and decreases with depth.

One extraordinary finding is, in the United States, using leaded gasoline for automobiles has been phased out nowadays because there is negative health effect associated with lead inhalation. However, because of technical hurdles in producing fuels for high-performance engines, leaded fuels have been allowed to continue in the aviation industry. This facts can be used to conclude air-bound lead contamination contribute higher level lead concentration near local, state and federal airports.

Typically, soundwall construction involves foundation excavation and/or cut and fills work along the freeway shoulders. Therefore, study of ADL is required to avoid unnecessary risk and measuring of accumulation of lead in Caltrans right-of-way.

4.2 Public Health Threat by Lead

There are near highway surface soils that contain lead at sufficient concentrations to represent a potential threat to public health and environment. Aerially Deposited Lead is toxic to humans, aquatic life, and wildlife.

Major health threats to the public caused by lead are:

1) Through surface water contamination of domestic water supplies above the U.S. EPA "action level",

2) Through accumulation in the soils to a level that could cause harm through ingestion by children or absorption by pregnant woman, and to an unborn child.

4.3 Available Records & Previous Studies

During this report preparation, AESCO reviewed information related to Lead Concentration Study reports. A summary of the lead literature and information are below.

Until the early 1970s, the concentrations of lead in storm water runoff from highways were much higher than they are today. It was about the time that there were significant decreases in the amount of lead added to gasoline as an antiknock compound. Since then there have been decreases in the total lead concentration in urban area, highways shoulders, and highways storm water runoff.

The lead content measured in storm water runoff of highways reflects lead concentration levels along state and federal highways.

In 1987, the Southern California Coastal Water Research Project (SCCWRP website address: http://www.sccwrp.org), reported that the lead content of the storm water run-off in the Los Angeles River during 1971–1972 was 910 and 980 μg/L for two different storms; while in 1979 – 1980, the lead content was found to be 74, 210, and 180 μg/L for three different storms. In 1986 – 1987, the monitoring of a single storm showed a lead content of 164 μg/L.

In 1998, G.F Lee et al., prepared a report for Caltrans and noted the rapid decrease in the concentration of lead in storm water run-off, domestic wastewater, and some industrial wastewaters in the early to mid-1970. It was apparently due to the decreased use of lead as a gasoline additive and to increased wastewater source control treatment. In their report, they focused on continued used of lead as a tire weight and as a reflective material in striping paint coupled with the naturally occurring lead in gasoline, that are apparently the sources of elevated lead in current highway systems. Refined petroleum products

such as gasoline, typically contains 10 to 15 mg/L of Total Lead. This amount of lead is present in crude oil as well.

Primarily through atmospheric transportation, the Aerially Deposited Lead is scattered and is added to the surface soil near highways. These soils and the lead content is the main interest of this study.

R.J. Mahmood (1997) reviewed the lead contamination of the soil near the highways and indicated most of the roadway traffic contribution of lead was within 150 meters (492 ft.) of the roadway. Mahmood concluded that generally, lead is "immobile" due to its strong affinity for soils.

4.4 Background on DTSC Regulatory Requirements For Caltrans Projects

AESCO reviewed the DTSC variance and AB – 414. The following subsection describes the Caltrans/Department of Toxic Substance Control (DTSC) requirements for Aerially Deposited Lead from vehicles exhaust fallout, AB – 414, the soil sampling methodology, and analytical results of the study.

The DTSC issued a variance for the reuse of soils containing aerially deposited lead in State of California highway construction projects. A copy of this Variance is attached in the Appendix of this report. DTSC has reviewed previous projects and concluded that hazardous concentrations of aerially-deposited lead resulting from past vehicle emissions have been detected alongside many of the state's urban and rural highways.

Analytical testing has shown that the uppermost 0.61m (2 ft.) of soil has been found to contain concentrations of lead in excess of regulatory thresholds. DTSC has prepared a risk assessment showing the soils impacted with the low concentrations of lead can be managed and presented no significant risk to the human health and the environment. As a result of the presence of elevated lead concentrations, disturbance of these soils requires compliance with California hazardous waste regulations for the proper excavating, handling, transportation, storage, burial, and disposal of large volumes of these soils.

In lieu of costly transportation and disposal of excavated highway construction soils containing hazardous concentrations of lead, this variance allows Caltrans, under specified conditions, to remove and reuse these soils only within existing Caltrans right-of-way.

Further, the use of the variance requires extra health and safety considerations for the general public and the contractors during Caltrans (soundwall) construction activities.

The DTSC variance requires that all samples collected from site be collected and preserved per U.S. EPA Publication SW – 846 Soil Sampling and Testing Protocol. Additionally, Caltrans requires that a statistical evaluation be calculated using samples collected and analytical results for total and soluble lead based on a U.S. EPA Publication SW – 846, Chapter 9 sampling plan.

Caltrans shall manage all soils impacted with lead at concentrations such that are considered a hazardous waste in pursuant to the Health and Safety Code (HSC) 25143, Chapter 6.5, Division 20 and Title 22 of the California Code of Regulation (CCR), Division 4.5, Chapter 11 unless the containment concentrations and management practices meet criteria specified in the DTSC Variance.

As per the DTSC Variance, in general, thresholds of 1411 milligrams per kilogram (mg/kg) for the total lead and 0.5 milligrams per liter (mg/L) extractable lead (based on modified waste extraction test using de-ionized water as the extractant) were used to determine the re-use of the soil. A threshold of 350 mg/kg for total lead, 2500 parts per million (ppm) of copper and 2000 ppm of nickel were used to determine handling and the disposal process of the soil, as per the AB-414.

The detailed text can be found at the website address given below and in the appendix section of this report.
http://info.sen.ca.gov/pub/bill/asm/ab_0401-0450/ab_414_bill_20011014_chaptered.html

4.5 Site Investigation (SI)

The main objective of the site investigation was to obtain a representative soil sample of the subsurface ground materials and determine level of contamination at the subject site. AESCO had contact with the chemical laboratory regarding the required analyses on the samples and any special criteria for performing the analyses.

AESCO's site activities were conducted in accordance with the submitted Site Health and Safety Plan and Site Investigation ADL Work Plan, dated September 19, 2002. These plans were prepared according to the Caltrans Hazardous Waste Protocol (dated July 15, 2002), local, state and federal regulatory agencies, U.S. EPA publication SW–846 and EPA Guidance manual and other regulatory measures were consulted.

Throughout the SI work, underground utilities, other underground obstacles including; but not limited to; water, electric, gas and sewer line, etc. were checked and avoided. The required fieldwork was performed under the supervision of AESCO's Professional Engineer (P.E.).

The borings were located on unpaved areas approximately within 3m (10 ft.) of the freeway. The off-sets for the boring locations were determined in the field, using available aerial photos with soundwall locations along the edge of paved shoulders of the existing freeways. This was based on the assumption that the proposed soundwall will be a minimum of 3m (10 ft.) off the shoulder edge. The actual soundwall locations or proposed construction plans have not been finalized during the preparation of the study. Therefore, AESCO personnel used their best judgment to estimate the alignment of the soundwalls while maintaining the safety of site personnel.

The actual boring locations were recorded as detailed in Borehole Location Section of this report with the latitude and longitude. Upon completion of the sampling activities, each boring was backfilled with sand, and native soil to match the surrounding surface.

5.0 Field Work and Procedures

5.1 Equipment and Tools Used

Soil samples were obtained by using a bucket auger sampler powered by a 3-horse power engine (TECUMSEH 3.0 HP, Model: AV520, Spec: 670127U). This method was used to prevent freeway lane closure and to access sites, which were not accessible to AESCO's truck-mounted drilling rig. Samples were collected at the appropriate depths using a 3" bucket auger. Minor soil cuttings were generated with this method.

5.2 ADL Sampling Procedures

Number, intervals, locations of boreholes and soil samples depths were in compliance as per Caltrans Guidance, dated; March 16, 2001 and SW-846 guidance.

Samples were taken at approximate intervals below existing ground surface in the top 150mm, 300 to 450mm, 600 to 750mm and 1350 to 1500mm (top 0.5 ft., 1.0 ft. to 1.5 ft., 2.0 ft. to 2.5 ft., 4.5 ft. to 5.0 ft.). Surface debris and vegetation were cleared before collecting the surface sample. Some locations, as shown on the aerial photographs, have soundwalls already installed and no sampling was performed at the existing sections. Further, some sections of the new soundwall will be placed over concrete bridges and no ADL borings were placed at these sections.

Each sample was labeled with the appropriate project number, boring number, depth, Caltrans unique identification number, and date of sampling. The samples were removed directly from the 3" bucket-sampler, placed into the glass jars and preserved immediately at 4° C in ice chests. The amount of each sample collected was more than the required volume to perform the planned testing program. Each sample was sealed in the glass jar, recorded on chain-of-custody forms and delivered to the laboratory; Associated Laboratory (AL), for analyses within 24 hours of sampling, except for soil samples collected prior to holidays or weekends. These samples were held chilled to 4° C at AESCO's facility until the next business day to deliver to the laboratory. The Chain-of Custodies were marked for analysis for Total Lead. The remaining tests were performed by the laboratory based on the laboratory procedure in Section 7.2 "Laboratory Testing".

5.3 Decontamination of Field Equipment

Sampling equipment that came into contact with soil samples were cleaned in tap water and Alconox wash solution followed by two subsequent rinses of tap and deionized water and air dried. This procedure was applied after each sample collection and before the initiation of a new borehole. No liquid was released into storm water drains.

All generated decontamination water (solution) was collected from the site investigation work area and stored at AESCO's facility in 55 gallon steel drums lined with plastic liners. The collected solution was thoroughly mixed and homogenized. A water sample

was collected for testing of Total Lead as per EPA Method 7420. The test results of the decontamination water are in Appendix C. The chain-of-custody for the sampling testing for this project is included in Appendix E of this report. The lead test results, as per EPA 7420, were below detection limits. Based on these results, the collected decontamination water can be considered as non-hazardous and does not require special handling and disposing.

To avoid further damage to the existing site conditions along the proposed soundwall construction, AESCO retrieved all of the field materials; such as: hand-gloves, towels, sampling jars, etc., which were disposed of at a solid waste landfill.

An equipment blank sample for every chain-of-custody sheet was performed to check the decontamination operation of the field equipment. The equipment blank was performed by pouring deionized water through or over the sampling device and into laboratory containers. These samples were submitted together with the soil samples and reported on the Chain-of-Custody forms.

All equipment blanks test results for lead analyses were lower than the detection limit for reporting (DLR), which indicated the field decontamination method during the ADL sampling was acceptable. The results are identified in the attached Appendix C, titled; "Laboratory Test Results from Associated Laboratory".

5.4 Work Procedures at Site

All fieldwork was performed during the working hours established in the ADL Work Plan. The teams that were involved in the fieldwork had direct communication with AESCO's head office and were supervised by an AESCO Licensed Professional Engineer (P.E.). The boreholes were surveyed by Global Positioning System (GPS) instruments and recorded on the Chain-of-Custody forms for each boring. Equipment blanks were collected and sent for testing according to the work plan. The equipment blank samples were identified by a unique number, having the boring number of the last boring before collecting and using 000 for the depth.

Traffic control during the fieldwork was provided. No lane closure during site work was required. All work teams occupied and worked on the off-limit (shoulders of the freeway) to avoid any unnecessary traffic obstruction. Our site safety officer visited the site to perform an inspection of the field personnel on a regular basis.

6.0 Borehole General Information

6.1 Borehole Location

Geographic Information System (GIS) data format for all boring sites were received from Caltrans. To obtain the longitude and latitude information, the field personnel used hand-held GPS instrument (GARMIN GPS 12). Longitude and latitude of the boring locations were recorded on the Chain-of-Custodies located in Appendix E. From this survey, actual borehole locations at the sites were recorded in decimal format specified by Caltrans. Changes, which were encountered or adjusted at the site, were reflected in this report. Our recording system of Geographic Information System using Global Position System is as follows:

GIS Data Collection

a) The locations of the borings were recorded at the end of boring in the field using GPS NAD83 datum. AESCO had been provided with an electronic Microsoft Access 2000 Data Base file to enter all of the data for each boring, sample, and tests performed with Caltrans' unique identity system as follows:

Borehole names consist of a 3 digit unique ID (577) assigned by Caltrans followed by a dash and the sequential boring number beginning with "101."

Each sample bears the name of the borehole from which it was derived, followed by a dash and the depth of the sample in meters.

The Unique ID number for this project is 577, and Caltrans EA number is 23280K for Routes 134 and 170.

b) AESCO has compiled the database file for the Caltrans Contract Manager. The final e-file of the GIS database was submitted to Caltrans on February 21, 2003. Caltrans reviewed the format of the database and it was approved. A hard copy of the GIS database is in the Appendix.

c) The boring locations are shown on the aerial photographs located in Appendix B.

6.2 Quantity of ADL Soil Boring and Sampling Criteria

The quantity of the ADL borings and sampling plan adhered to the decision made at Project Development Team (PDT) meeting for this project. A minimum of five (5) borings per site and a minimum of four samples per boring location were collected. The spacing between the borings was maintained between 164 feet/50 meters and 328

feet/100 meters. The actual numbers of test borings are based on the length of the proposed soundwalls and length of existing bridges. A summary of boring quantities is tabulated in the following table:

Summary of Boring Quantities		
AESCO's Site Number	**Quantity**	**Boring Numbers**
20020155-1 (1)	5	577-215 to 577-219
20020155-1 (2)	29	577-101 to 577-129
20020155-1 (3)	28	577-136 to 577-163
20020155-1 (4)	10	577-170 to 577-179
20020155-1 (5)	28	577-180 to 577-196 and 577-200 to 577-210

Soil sampling and boring were not performed at the existing concrete bridges or overhead bridges. As per the aerial photos of the sites, proposed soundwalls that will exist on bridges or elevated structures are walls #3, #12, and #10. The aerial photos are presented in Appendix B.

6.3 Predicted Construction Stages

AESCO evaluated the soundwalls lengths along the site based on topographic maps, aerial photos and actual site work. In the approved work plan, eight construction stages were submitted as follows:

CONSTRUCTION STAGES WITH BORING NUMBERS		
State Route 134 (Eastbound)		
Anticipated Construction Stages	**Soundwall Sections (Wall)**	**Borehole Number**
1	Wall 1	577-215 Thru 577-219

State Route 170 (Northbound)		
Anticipated Construction Stages	**Soundwall Sections (Wall)**	**Borehole Number**
1	Wall 1, 2 and 3	577-136 Thru 577-147
2	Wall 4	577-148 Thru 577-163
3	Wall 5	577-200 Thru 577-210

State Route 170 (Southbound)		
Anticipated Construction Stages	**Soundwall Sections (Wall)**	**Borehole Number**
1	Wall 6	577-180 Thru 577-196
2	Wall 7	577-173 Thru 577-179
3	Wall 8, 9 and 10	577-112 Thru 577-121 and 577-170 thru 577-172
4	Wall 11, 12, 13 and 14	577-101 Thru 577-111 and 577-122 thru 577-129
Note: Wall number is shown on the wall location aerial photos		

The logic for this analysis was to determine the most cost efficient and effective management of the soil. Based on this construction staging, AESCO performed statistic analysis as listed below:

- Combination of all layers, entire direction samples,
- Combination of all layers, whole stage samples,
- Combination of layers at different adjacent depths.

The statistical analyses were based on the results received from Associated Laboratory. The results were given by batch-by-batch. Laboratory tests were performed according to "LABORATORY" section of this report. Laboratory reports and chain-of-custodies are included in Appendix C and Appendix E of this report. All values of ND in the test results were replaced with ½ DLR to run the statistical analysis.

7.0 LABORATORY

7.1 General Information

AESCO engaged a chemical laboratory, to perform chemical analyses of the soil samples, which is certified by the California Department of Health Services Environmental Laboratory Accreditation Program (DHS-ELAP).

The remaining of any unused portions of samples was stored in a chilled state (4° C) at the laboratory for 30 days following completion of the last analyses. Disposal of samples is the responsibility of the laboratory.

7.2 Laboratory Testing

All samples per study sections were analyzed for Total Lead as per EPA Method 7420. A total of 400 TTLC tests were performed for this study.

All samples tested for the Total Lead concentration that exceed 50 mg/kg but less than 1000 mg/kg (>50mg/kg and <1000mg/kg) were tested for Soluble Lead (Citrate) according to California WET Method (EPA 3050A) Extraction and 6010/7420 Analysis. A total of 216 STLC tests were performed during this study.

All samples that exceeded the regulatory limit for Citric WET of 5 mg/l were tested for Soluble Lead (De-ionized) according to California WET Method (EPA 3050A) Extraction and 6010/7420 Analysis. This procedure resulted in 170 Di-STLC tests performed.

All samples exceeding 1000 mg/kg of the total lead concentration or a minimum of 25% of the total samples with the highest total lead concentrations were tested for the Soluble Lead TCLP according to Soluble Lead TCLP (EPA 1311) Extraction and 6010/7420 Analysis. A total of 102 TCLP tests were performed.

10% of the total tested samples were analyzed for the pH or minimum of four samples (4 Nos.) per soundwall location according to the pH EPA Method. A total of 47 pH tests were performed for this study. A letter from Associated Laboratory presented in Appendix C clarifies the method used for the pH analysis.

A total of 10% or a minimum of four samples were analyzed for all metals (CAM 17, Title 22 Metal Analysis) per study section. A total of 42 CAM 17 tests were performed for this study.

The following table illustrates analytes and the number of tested samples for each analyte:

Description of number of tests on samples obtained from parts along State Routes 134: Eastbound & 170: Northbound and Southbound		
Analyte	Number of Samples Tested along State Route 134, Site # 1	Number of Samples Tested along State Route 170, Sites # 2, 3, 4 and 5
TTLC	20	380
STLC	15	201
Di-STLC	14	156
TCLP	8	94
pH	5	42
CAM 17	4	38

7.3 Laboratory Test Reporting

With this report; a summary of laboratory results, tables, presentations, and summaries of the laboratory data are included. The laboratory report followed the guidelines provided.

All the definitions related to laboratory testing methods and standard can be found in Chapter One, page 23 to 29 of U. S EPA SW-846. AESCO and Associated Laboratory used these terms and definitions in this report. A Glossary reference is located in Section 11 of this report.

7.4 Laboratory Test Results

The following table contains lab test results that were obtained from Associated Laboratories:

State Routes 134: Eastbound & 170: Northbound and Southbound					
Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4, & 5)					
Client Sample ID	TTLC (mg/kg)	STLC (mg/l)	Di-STLC (mg/l)	TCLP (mg/l)	pH
577-101-.15	226	14.9	0.1	-	7.79
577-101-.45	166	12.1	0.1	-	-
577-101-.75	17.6	-	-	-	-
577-101-1.50	16.4	-	-	-	-
577-102-.15	86.4	4.05	-	-	-
577-102-.45	67.6	2.05	-	-	-
577-102-.75	18.3	-	-	-	-
577-102-1.50	11.6	-	-	-	-

State Routes 134: Eastbound & 170: Northbound and Southbound					
Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4, & 5)					
Client Sample ID	TTLC (mg/kg)	STLC (mg/l)	Di-STLC (mg/l)	TCLP (mg/l)	pH
577-103-.15	124	6.35	0.1	-	-
577-103-.45	25	-	-	-	-
577-103-.75	33.3	-	-	-	-
577-103-000	ND	-	-	-	-
577-103-1.50	10.4	-	-	-	-
577-104-.15	46.6	-	-	-	-
577-104-.45	ND	-	-	-	-
577-104-.75	50	3.4	-	-	7.36
577-104-1.50	ND	-	-	-	-
577-105-.15	321	22.4	0.1	0.46	-
577-105-.45	26.7	-	-	-	-
577-105-.75	11.8	-	-	-	-
577-105-1.50	11.3	-	-	-	-
577-106-.15	136	6.45	0.21	-	7.58
577-106-.45	168	8.55	0.1	-	-
577-106-.75	314	21.8	0.1	0.35	-
577-106-.75 DUP	331	-	-	-	-
577-106-000	ND	-	-	-	-
577-106-1.50	ND	-	-	-	-
577-107-.15	716	51	0.21	0.66	-
577-107-.45	35.6	-	-	-	-
577-107-.75	21.3	-	-	-	-
577-107-1.50	21.6	-	-	-	-
577-108-.15	2120			3.85	
577-108-.45	96.6	6.75	0.1		
577-108-.75	11.6	-	-	-	-
577-108-1.50	218	15	0.1		
577-109-.15	315	18.8	0.1	ND	
577-109-.45	292	12.7	0.1	ND	
577-109-.75	372	19.7	0.1	ND	7.93
577-109-000	ND	-	-	-	-
577-109-1.50	72.1	3.65	-	-	-
577-110-.15	971	39.6	0.1	1.67	-
577-110-.45	921	47.4	0.1	1.35	-
577-110-.75	2130	40.9	0.1	1.02	-
577-110-1.50	71.5	3.95	-	-	-
577-111-.15	355	19.1	0.1	ND	7.57
577-111-.45	117	3.2	-	-	-
577-111-.75	ND	-	-	-	-

State Routes 134: Eastbound & 170: Northbound and Southbound

Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4, & 5)

Client Sample ID	TTLC (mg/kg)	STLC (mg/l)	Di-STLC (mg/l)	TCLP (mg/l)	pH
577-111-1.50	13.4	-	-	-	-
577-112-.15	3920	-	-	1.82	-
577-112-.45	32.4	-	-	-	7.22
577-112-.75	394	27.4	0.1	0.61	-
577-112-.75 DUP	395	-	-	-	-
577-112-000	ND	-	-	-	-
577-112-1.50	1260	-	-	0.8	-
577-113-.15	404	26.4	0.1	0.52	-
577-113-.45	2120	-	-	1.08	-
577-113-.75	159	8.95	0.1	-	-
577-113-1.50	902	55.5	0.1	0.7	-
577-114-.15	13.1	-	-	-	-
577-114-.45	ND	-	-	-	-
577-114-.75	ND	-	-	-	-
577-114-1.50	13.9	-	-	-	-
577-115-.15	47.7	-	-	-	-
577-115-.45	ND	-	-	-	-
577-115-.75	10.8	-	-	-	-
577-115-000	ND	-	-	-	-
577-115-1.50	ND	-	-	-	7.6
577-116-.15	976	54.7	0.1	0.77	-
577-116-.45	453	33	0.1	0.46	-
577-116-.75	144	8.85	0.1	-	-
577-116-1.50	ND	-	-	-	-
577-117-.15	24.3	-	-	-	7.1
577-117-.45	99	5.35	0.1	-	
577-117-.75	33.6	-	-	-	-
577-117-1.50	16.1	-	-	-	-
577-118-.15	467	24.6	0.1	0.41	-
577-118-.45	41.7	-	-	-	-
577-118-.75	84.3	4.25	-	-	-
577-118-000	ND	-	-	-	-
577-118-1.50	125	7.25	0.1	-	-
577-119-.15	69.4	3.2	-	-	-
577-119-.45	63.6	0.5	-	-	-
577-119-.75	17.2	-	-	-	-
577-119-1.50	96.5	5.9	0.1	-	-
577-120-.15	412	19.4	0.1	0.54	-
577-120-.45	24.5	-	-	-	-

State Routes 134: Eastbound & 170: Northbound and Southbound

Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4, & 5)

Client Sample ID	TTLC (mg/kg)	STLC (mg/l)	Di-STLC (mg/l)	TCLP (mg/l)	pH
577-120-.75	28.8	-	-	-	8.42
577-120-1.50	23.6	-	-	-	-
577-121-.15	99	4.2	-	-	-
577-121-.45	17.1	-	-	-	-
577-121-.75	25.9	-	-	-	-
577-121-000	ND	-	-	-	-
577-121-1.50	46.2	-	-	-	-
577-122-.15	146	7.75	0.4	-	7.24
577-122-.45	179	15.6	0.53	-	-
577-122-.75	74	3.5	-	-	-
577-122-1.50	ND	-	-	-	-
577-123-.15	153	6.7	0.27	-	-
577-123-.45	53	1.35	-	-	-
577-123-.75	79.6	2.8	-	-	-
577-123-1.50	113	5.65	0.4	-	-
577-124-.15	1900	-	-	3.07	-
577-124-.45	3080	-	-	3.72	-
577-124-.75	3070	-	-	3.34	-
577-124-000	ND	-	-	-	-
577-124-1.50	3390	-	-	3.2	7
577-125-.15	142	7	0.26	-	-
577-125-.45	490	24.7	1.27	0.95	-
577-125-.75	13.4	-	-	-	-
577-125-1.50	96.1	4.6	-	-	-
577-126-.15	314	16.3	0.1	0.37	-
577-126-.45	139	4.6	-	-	-
577-126-.75	195	10.9	0.1	-	7.36
577-126-1.50	107	5.7	0.1	-	-
577-127-.15	49.5	-	-	-	-
577-127-.45	226	12.1	0.1	-	-
577-127-.75	475	34.7	0.36	0.81	-
577-127-.75	421	34.7	0.36	0.81	-
577-127-000	ND	-	-	-	-
577-127-1.50	441	24.3	0.23	0.58	-
577-128-.15	911	40.5	1.12	0.57	-
577-128-.45	39.1	-	-	-	-
577-128-.75	259	14	0.29	ND	-
577-128-1.50	159	7.35	0.1	-	-
577-129-.15	147	7.9	0.1	-	-

State Routes 134: Eastbound & 170: Northbound and Southbound

Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4, & 5)

Client Sample ID	TTLC (mg/kg)	STLC (mg/l)	Di-STLC (mg/l)	TCLP (mg/l)	pH
577-129-.45	20	-	-	-	8.03
577-129-.75	17.5	-	-	-	-
577-129-000	ND	-	-	-	-
577-129-1.50	35	-	-	-	-
577-136-.15	318	20.6	0.1	0.56	-
577-136-.45	133	4.05	-	-	-
577-136-.75	69	5.15	0.1	-	7.64
577-136-000	ND	-	-	-	-
577-136-1.50	229	13.8	0.1	-	-
577-137-.15	98.5	3.9	-	-	-
577-137-.45	14.1	-	-	-	-
577-137-.75	20.5	-	-	-	-
577-137-1.50	16.7	-	-	-	-
577-138-.15	68.6	2.8	-	-	6.5
577-138-.45	18	-	-	-	-
577-138-.75	20.8	-	-	-	-
577-138-1.50	34	-	-	-	-
577-139-.15	837	46.1	0.51	0.59	-
577-139-.45	70.5	4.4	-	-	-
577-139-.75	159	10.6	0.1	-	-
577-139-000	ND			-	8.09
577-139-1.50	138	11.6	0.1	-	-
577-140-.15	247	13.4	0.1	-	-
577-140-.45	1620	-	-	0.74	-
577-140-.75	726	26	0.1	0.75	-
577-140-1.50	14.4	-	-	-	-
577-141-.15	2970	-	-	1.17	-
577-141-.45	1700	-	-	0.95	-
577-141-.75	163	10.2	0.1	-	-
577-141-000	ND	-	-	-	-
577-141-1.50	91.8	3.9	-	-	-
577-142-.15	973	69.4	0.25	0.62	-
577-142-.45	2240	-	-	0.7	-
577-142-.75	120	7.05	0.1	-	7.94
577-142-1.50	1320	-	-	0.68	-
577-143-.15	269	8.35	0.1	ND	-
577-143-.45	804	78.9	0.62	0.39	-
577-143-.75	12.5	-	-	-	-
577-143-1.50	ND	-	-	-	-

State Routes 134: Eastbound & 170: Northbound and Southbound

Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4, & 5)

Client Sample ID	TTLC (mg/kg)	STLC (mg/l)	Di-STLC (mg/l)	TCLP (mg/l)	pH
577-144-.15	1490	-	-	0.76	-
577-144-.45	338	14.4	0.1	0.23	-
577-144-.75	35.1	-	-	-	-
577-144-000	ND	-	-	-	-
577-144-1.50	39.8	-	-	-	-
577-145-.15	655	43.8	0.25	0.57	-
577-145-.45	245	14	1.14	-	-
577-145-.75	211	8.5	0.1	-	7.03
577-145-1.50	12.3	-	-	-	-
577-146-.15	1320	-	-	0.63	-
577-146-.45	253	4.7	-	ND	-
577-146-.75	30.8		-	-	-
577-146-1.50	96.5	4.45	-	-	-
577-147-.15	231	13.3	0.1	-	-
577-147-.45	19.9	-	-	-	7.6
577-147-.75	30.6	-	-	-	-
577-147-000	ND	-	-	-	-
577-147-1.50	128	8.7	0.1	-	-
577-148-.15	3510	-	-	2.52	7
577-148-.45	2840	-	-	2.23	-
577-148-.75	130	8.8	0.1	-	-
577-148-1.50	40.1	-	-	-	-
577-149-.15	470	43	0.29	0.79	-
577-149-.45	56.9	2.4	-	-	-
577-149-.75	90.5	4.9	-	-	-
577-149-1.50	43.9	-	-	-	-
577-150-.15	35.2	-	-	-	-
577-150-.45	24.3	-	-	-	-
577-150-.75	282	17.1	0.1	0.27	-
577-150-000	ND	-	-	-	-
577-150-1.50	14.6	-	-	-	-
577-151-.15	155	10.4	0.1	-	7.32
577-151-.45	14.5	-	-	-	-
577-151-.75	126	8.6	0.1	-	-
577-151-1.50	221	13.4	0.1	-	-
577-152-.15	1180	-	-	0.74	-
577-152-.45	140	8.8	0.1		-
577-152-.75	ND	-	-	-	-
577-152-1.50	133	8.35	0.1	-	-

State Routes 134: Eastbound & 170: Northbound and Southbound

Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4, & 5)

Client Sample ID	TTLC (mg/kg)	STLC (mg/l)	Di-STLC (mg/l)	TCLP (mg/l)	pH
577-153-.15	128	8.7	0.1	-	-
577-153-.45	10.2	-	-	-	6.7
577-153-.75	13.2	-	-	-	-
577-153-000	ND	-	-	-	-
577-153-1.50	14.7	-	-	-	-
577-154-.15	63.8	2.8	-	-	7.51
577-154-.45	117	7.9	0.1	-	-
577-154-.75	ND	-	-	-	-
577-154-1.50	19.2	-	-	-	-
577-155-.15	260	16.9	0.27	0.23	-
577-155-.45	ND	-	-	-	-
577-155-.75	229	15.8	0.1	-	-
577-155-1.50	332	20	0.32	0.39	-
577-156-.15	41.5	-	-	-	-
577-156-.45	21.3	-	-	-	-
577-156-.75	14.4	-	-	-	-
577-156-000	ND	-	-	-	-
577-156-1.50	288	14.2	0.1	ND	-
577-157-.15	46.6	-	-	-	7.34
577-157-.45	151	6.4	0.2	-	-
577-158-.15	120	7	0.1	-	-
577-158-.45	34.2	-	-	-	-
577-158-.75	17.6	-	-	-	-
577-158-1.50	19.7		-	-	-
577-159-.15	70.3	1.85	-	-	-
577-159-.45	56	3	-	-	-
577-159-.75	18.6	-	-	-	-
577-159-000	ND	-	-	-	-
577-159-1.50	19	-	-	-	-
577-160-.15	104	3.05	-	-	-
577-160-.45	30	-	-	-	-
577-160-.75	ND	-	-	-	8.42
577-160-1.50	193	12.6	0.46	-	-
577-161-.15	125	10.8	0.1	-	-
577-161-.45	14.5	-	-	-	-
577-161-.75	ND	-	-	-	-
577-161-1.50	ND	-	-	-	-
577-162-.15	245	13.5	0.54	-	-
577-162-.45	78.4	4.55	-	-	-

State Routes 134: Eastbound & 170: Northbound and Southbound

Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4, & 5)

Client Sample ID	TTLC (mg/kg)	STLC (mg/l)	Di-STLC (mg/l)	TCLP (mg/l)	pH
577-162-.75	46.1	-	-	-	-
577-162-000	ND	-	-	-	-
577-162-1.50	226	15.2	0.23	-	-
577-163-.15	92.8	4.2	-	-	-
577-163-.45	17.3	-	-	-	-
577-163-.75	ND	-	-	-	8.41
577-163-1.50	ND	-	-	-	-
577-170-.15	414	30.8	0.1	0.77	-
577-170-.45	54.9	3.2	-	-	8.12
577-170-.75	27.5	-	-	-	-
577-170-000	ND	-	-	-	-
577-170-1.50	20.2	-	-	-	-
577-171-.15	1020	-	-	0.55	-
577-171-.45	630	27.6	0.1	ND	-
577-171-.75	396	24.4	0.1	ND	-
577-171-000	ND	-	-	-	-
577-171-1.50	27.4	-	-	-	-
577-172-.15	114	9	0.1	-	-
577-172-.45	146	7.75	0.1	-	-
577-172-.75	ND	-	-	-	-
577-172-1.50	149	8.6	0.1	-	-
577-173-.15	766	33.7	0.1	0.3	-
577-173-.15 Dup	378	-	-	-	-
577-173-.45	81.9	5.15	0.1	-	-
577-173-.75	56.4	2.2	-	-	-
577-173-1.50	61.2	7.8	0.1	-	7.69
577-174-.15	745	29.8	0.1	0.55	-
577-174-.15 Dup	466	-	-	-	-
577-174-.45	224	17	0.1	-	-
577-174-.75	110	11.8	0.1	-	-
577-174-.75	209	11.8	0.1	-	-
577-174-000	ND	-	-	-	-
577-174-1.50	26.2	-	-	-	-
577-175-.15	2090	-	-	1.63	-
577-175-.45	141	9.05	0.1	-	-
577-175-.75	24.4	-	-	-	-
577-175-1.50	811	43.8	0.1	1.56	-
577-176-.15	2440	-	-	0.99	7.57
577-176-.45	47.5	-	-	-	-

State Routes 134: Eastbound & 170: Northbound and Southbound

Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4, & 5)

Client Sample ID	TTLC (mg/kg)	STLC (mg/l)	Di-STLC (mg/l)	TCLP (mg/l)	pH
577-176-.75	59.2	4	-	-	-
577-176-1.50	366	22.6	0.1	0.74	-
577-177-.15	444	37.3	0.26	1.07	8.14
577-177-.15	495	37.3	0.26	1.07	8.14
577-177-.45	16.8	-	-	-	-
577-177-.75	ND	-	-	-	-
577-177-1.50	ND	-	-	-	-
577-178-.15	461	30.6	0.1	0.817	-
577-178-.15	342	30.6	0.1	0.817	-
577-178-.45	358	17.9	0.1	0.279	-
577-178-.75	250	25.4	0.1	0.288	-
577-178-.75	237	25.4	0.1	0.288	-
577-178-000	ND	-	-	-	-
577-178-1.50	169	10.3	0.1	-	-
577-179-.15	ND	-	-	-	-
577-179-.45	ND	-	-	-	-
577-179-.75	14.3	-	-	-	-
577-179-1.50	ND	-	-	-	-
577-180-.15	327	11.5	0.22	0.25	-
577-181-.15	58	3.95	-	-	8.23
577-181-.45	ND	-	-	-	-
577-181-.75	ND	-	-	-	-
577-181-1.50	ND	-	-	-	-
577-182-.15	57	4.65	-	-	-
577-182-.45	70.8	4.75	-	-	-
577-182-.75	47.5		-	-	8.11
577-182-1.50	81.7	5.35	0.49	-	-
577-183-.15	75.2	4.85	-	-	-
577-183-.45	ND	-	-	-	-
577-183-.75	10.9	-	-	-	-
577-183-1.50	63.7	4.2	-	-	-
577-184-.15	38	-	-	-	-
577-184-.45	46.5	-	-	-	-
577-184-.75	45.1	-	-	-	-
577-184-000	ND	-	-	-	-
577-184-1.50	46.1	-	-	-	-
577-185-.15	64.7	4.1	-	-	-
577-185-.45	11	-	-	-	-
577-185-.75	ND	-	-	-	-

State Routes 134: Eastbound & 170: Northbound and Southbound

Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4, & 5)

Client Sample ID	TTLC (mg/kg)	STLC (mg/l)	Di-STLC (mg/l)	TCLP (mg/l)	pH
577-185-000	ND	-	-	-	-
577-185-1.50	12.9	-	-	-	-
577-186-.15	81.9	3.5	-	-	
577-186-.45	22.3	-	-	-	8.02
577-186-.75	24.7	-	-	-	-
577-186-1.50	33	-	-	-	-
577-187-.15	96.5	5.45	0.54	-	-
577-187-.45	88.8	4.7	-	-	-
577-187-.75	33.5	-	-	-	-
577-187-1.50	26.7	-	-	-	-
577-188-.15	382	17.3	0.1	0.23	8.06
577-188-.45	34.9	-	-	-	-
577-188-.75	20.4	-	-	-	-
577-188-000	ND	-	-	-	-
577-188-1.50	46	-	-	-	-
577-189-.15	1190	-	-	0.55	-
577-189-.45	237	15	0.1	-	-
577-189-.75	329	21.3	0.1	0.5	-
577-189-1.50	320	21.9	0.1	0.61	-
577-190-.15	900	59.2	0.1	0.81	-
577-190-.45	675	51	0.1	1.08	7.87
577-190-.75	723	48	0.1	1.24	-
577-190-000	ND	-	-	-	-
577-190-1.50	67.2	4.95	-	-	-
577-191-.15	835	62.3	0.52	1.3	-
577-191-.45	32	-	-	-	-
577-191-.75	902	61.1	0.52	1.2	-
577-191-.75 DUP	747	-	-	-	-
577-191-1.50	18.5	-	-	-	-
577-192-.15	1180	-	-	1.88	-
577-192-.45	936	69.8	0.1	1.47	-
577-192-.75	28.7	-	-	-	-
577-192-1.50	58.9	7.15	0.1	-	-
577-193-.15	163	14.9	0.1	-	-
577-193-.45	172	11.6	0.1	-	-
577-193-.75	180	11.1	0.1	-	8.12
577-193-000	ND	-	-	-	-
577-193-1.50	156	12.6	0.24	-	-
577-194-.15	268	17.3	0.1	0.47	-

State Routes 134: Eastbound & 170: Northbound and Southbound

Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4, & 5)

Client Sample ID	TTLC (mg/kg)	STLC (mg/l)	Di-STLC (mg/l)	TCLP (mg/l)	pH
577-194-.45	41.6	-	-	-	-
577-194-.75	46.5	-	-	-	-
577-194-1.50	22.8	-	-	-	-
577-195-.15	338	23.2	0.1	0.64	7.17
577-195-.45	53.5	3.15	-	-	-
577-195-.75	28.7	-	-	-	-
577-195-1.50	252	16.9	0.1	0.258	-
577-196-.000	ND	-	-	-	-
577-196-.15	222	12.1	0.54	-	-
577-196-.45	14.6	-	-	-	-
577-196-.75	27.2	-	-	-	-
577-196-1.50	32.5	-	-	-	9.14
577-200-.15	189	15.8	0.57	-	8
577-200-.45	ND	-	-	-	-
577-200-.75	ND	-	-	-	-
577-200-1.50	112	4.25		-	-
577-201-.15	396	22.3	1.29	0.56	-
577-201-.45	187	11.3	0.49	-	-
577-201-.75	119	11.2	0.32	-	7.48
577-201-1.50	83.2	7.5	0.46	-	-
577-202-.15	847	42.8	2.2	1.45	-
577-202-.45	293	29.4	1.56	1.5	-
577-202-.75	472	40.3	0.78	2.25	-
577-202-000	ND	-	-	-	-
577-202-1.50	327	26.9	2.29	1.29	-
577-203-.15	61.9	4.75	-	-	-
577-203-.45	22.5	-	-	-	-
577-203-.75	73.8	6.9	0.27	-	-
577-203-1.50	145	7.55	0.61	-	-
577-204-.15	132	8.95	0.1	-	-
577-204-.45	18.3	-	-	-	8.14
577-204-.75	10.3	-	-	-	-
577-204-1.50	ND	-	-	-	-
577-205-.15	296	21.8	0.3	0.77	-
577-205-.45	83.8	8.85	0.51	-	-
577-205-.75	43.6	-	-	-	-
577-205-000	ND	-	-	-	-
577-205-1.50	18.1	-	-	-	-
577-206-.15	261	19.5	1.43	1.11	-

State Routes 134: Eastbound & 170: Northbound and Southbound

Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4, & 5)

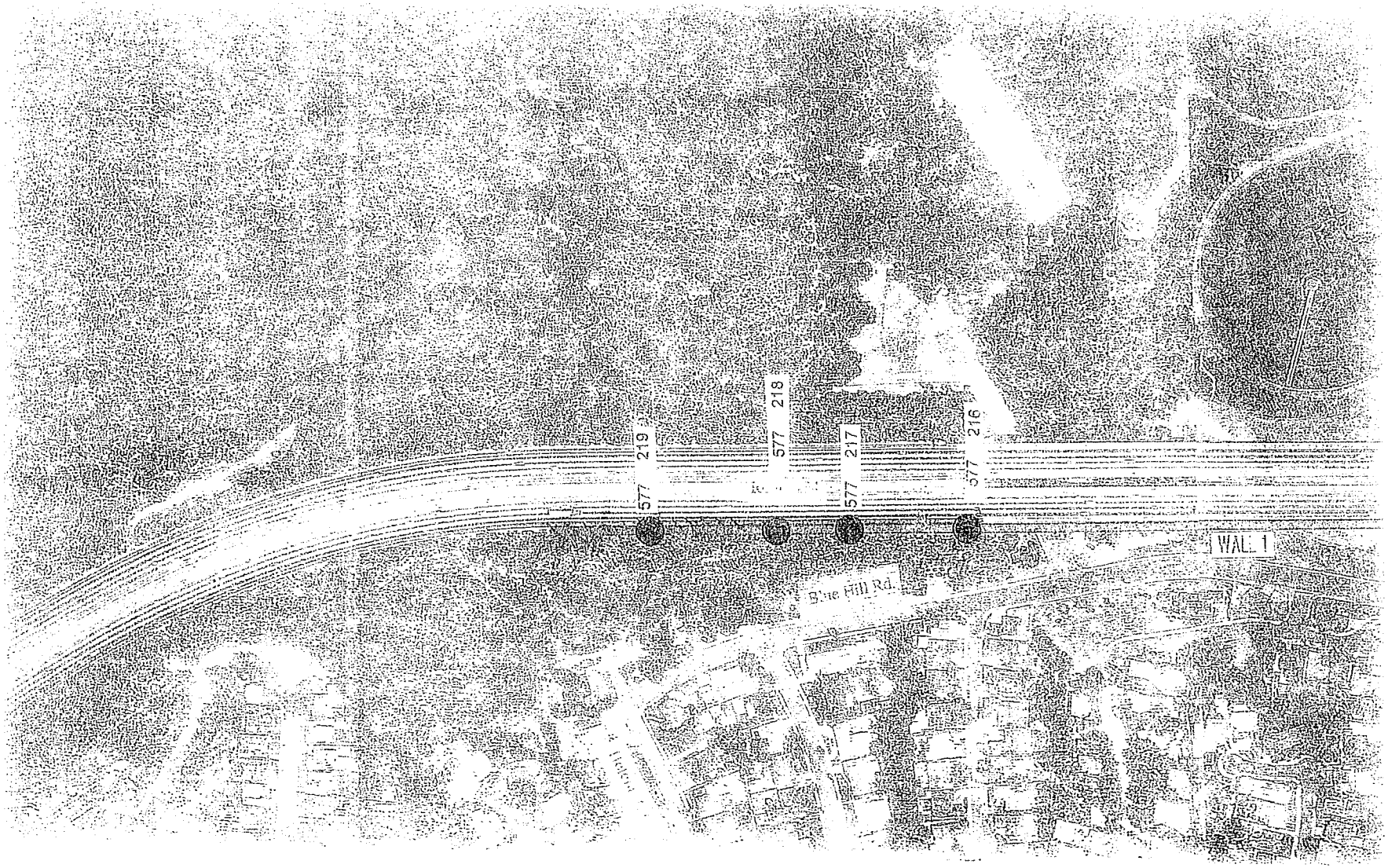
Client Sample ID	TTLC (mg/kg)	STLC (mg/l)	Di-STLC (mg/l)	TCLP (mg/l)	pH
577-206-.45	227	19.2	0.26	-	-
577-206-.75	101	10.3	0.56	-	-
577-206-1.50	82.4	5.3	0.1	-	-
577-207-.15	777	54.9	1.53	1.56	-
577-207-.45	208	15.4	0.86	-	-
577-207-.75	630	36.8	1.33	1.09	7.67
577-207-1.50	276	21.7	0.1	0.75	-
577-208-.15	53.9	5.1	0.31	-	-
577-208-.45	129	11.3	0.69	-	-
577-208-.75	188	12.8	0.76	-	-
577-208-000	ND	-	-	-	-
577-208-1.50	103	8.9	0.89	-	-
577-209-.15	181	9.8	0.62	-	-
577-209-.45	99.5	6.4	0.24	-	-
577-209-.75	161	9.4	0.48	-	-
577-209-1.50	148	8.2	0.26	-	-
577-210-.15	35	-	-	-	-
577-210-.45	13.4	-	-	-	7.55
577-210-.75	17	-	-	-	-
577-210-000	ND	-	-	-	-
577-210-1.50	18	-	-	-	-
577-215-.15	213	17.7	0.1	-	-
577-215-.45	267	19.5	0.1	0.56	-
577-215-.75	55.4	3.65	-	-	8.37
577-215-000	ND	-	-	-	-
577-215-1.50	19.6	-	-	-	-
577-216-.15	1140	-	-	3.08	-
577-216-.45	463	16.3	0.1	ND	8.14
577-216-.45 Dup	209	-	-	-	-
577-216-.75	110	7.4	0.1	-	-
577-216-1.50	398	21.7	0.1	0.31	-
577-217-.15	363	23.4	0.1	ND	-
577-217-.45	105	7.05	0.1	-	-
577-217-.75	34.1	-	-	-	8.48
577-217-000	ND	-	-	-	-
577-217-1.50	26.2	-	-	-	-
577-218-.15	548	43.9	0.1	2.76	-
577-218-.45	257	22.3	0.1	0.73	-
577-218-.75	187	10.2	0.1	-	-
577-218-1.50	146	5.4	0.1	-	8.48

LA 134

State Routes 134: Eastbound & 170: Northbound and Southbound					
Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4, & 5)					
Client Sample ID	TTLC (mg/kg)	STLC (mg/l)	Di-STLC (mg/l)	TCLP (mg/l)	pH
577-219-.15	723	46.6	0.1	0.2	-
577-219-.45	36.6	-	-	-	-
577-219-.75	54.9	5.1	0.1	-	-
577-219-1.50	101	5.1	0.1	-	-

Also, the following table contains the CAM 17 values obtained from Associated Laboratories:

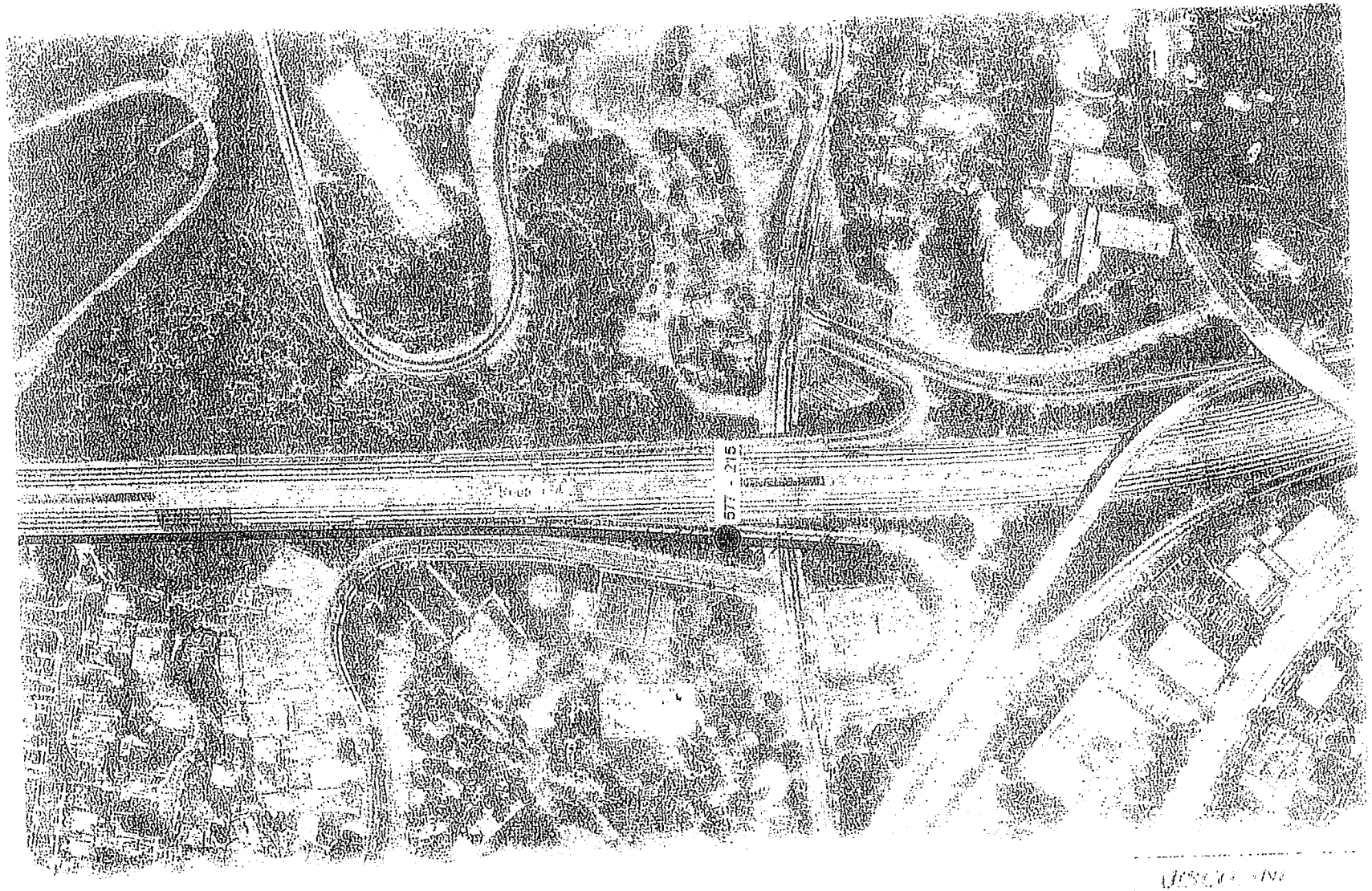
State Routes 134: Eastbound & 170: Northbound and Southbound																	
Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4 & 5)																	
Samples tested for CAM 17 (mg/Kg)																	
Client Smpl. ID	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
577-102-.15	ND	3.97	72.8	0.6	2.77	19.5	8.58	22.4	66.3	ND	5.75	19.9	3.18	ND	ND	54.9	93.3
577-108-.15	ND	1.19	135	ND	1.6	23.7	11.1	44.2	1670	ND	2.43	20.9	3.53	ND	ND	47.9	283
577-110-.75	ND	ND	80.2	ND	ND	15.2	10.4	11.9	601	ND	ND	10.1	2.9	ND	ND	41.6	191
577-112-1.50	ND	ND	149	ND	0.775	25.9	13	26.2	865	ND	1.16	15.7	3.49	ND	ND	57.3	198
577-114-.15	ND	2.34	85.1	0.54	2.68	16.8	8.02	14.3	6.95	ND	7.3	18.2	2.44	ND	ND	54.2	52.5
577-117-.45	ND	1.25	122	0.57	0.581	22.3	9.55	19.5	98.9	ND	1.49	14.7	2.3	ND	ND	49.8	91.5
577-121-.15	ND	2.34	91.3	0.61	2.19	20.5	9.71	22	80.7	ND	2.81	16.5	2.52	ND	ND	58.3	77.9
577-124-.15	ND	ND	172	ND	1.49	24.3	12.5	35.6	1840	ND	2.1	16.1	3.43	ND	ND	55.8	242
577-124-.45	ND	ND	178	ND	1.57	27.2	11.8	45.4	2530	ND	1.92	16.9	3.25	ND	ND	52.3	309
577-124-.75	ND	ND	183	ND	1.69	27.1	12	49.6	2660	ND	2.62	17.9	3.53	ND	ND	58.9	322
577-124-1.50	ND	ND	206	ND	1.87	26.9	11.7	46	2960	ND	2.09	22.5	3.4	ND	ND	55.2	310
577-128-.15	ND	ND	134	0.53	3.4	25.9	10.4	41.9	746	ND	2.06	22.3	1.32	ND	ND	49.3	202
577-136-.15	ND	3.98	78.7	0.51	2.14	17.3	8.7	32.6	270	ND	2.76	15.4	2.48	ND	ND	50.8	102
577-140-.45	ND	3.29	83.5	ND	4.69	22.8	8.97	34.2	1260	ND	3.31	18.3	3.76	ND	ND	52.5	238
577-141-.15	ND	0.977	133	ND	2.86	27.2	8.87	49	2440	ND	2.8	21.8	3.49	ND	ND	43.1	407
577-142-.45	ND	1.83	133	ND	2.7	25.2	8.69	56.7	1830	ND	3.45	22.1	3.71	ND	ND	42.6	466
577-142-1.50	ND	3.77	98.2	ND	2.86	25.6	9.26	134	1120	ND	3.51	24	3.46	ND	ND	47.9	351
577-144-.15	ND	1.27	131	ND	2.25	28.3	10.6	52.8	1560	ND	3.28	23.2	4.11	ND	ND	48.9	407
577-146-.15	ND	1.43	166	0.525	2.15	23.7	11.3	33.2	1150	ND	2.44	18.4	4.03	ND	ND	54.1	232
577-148-.15	ND	ND	172	ND	1.79	29.9	11.3	82.7	3070	ND	2.62	21	3.56	2.31	ND	51.7	396

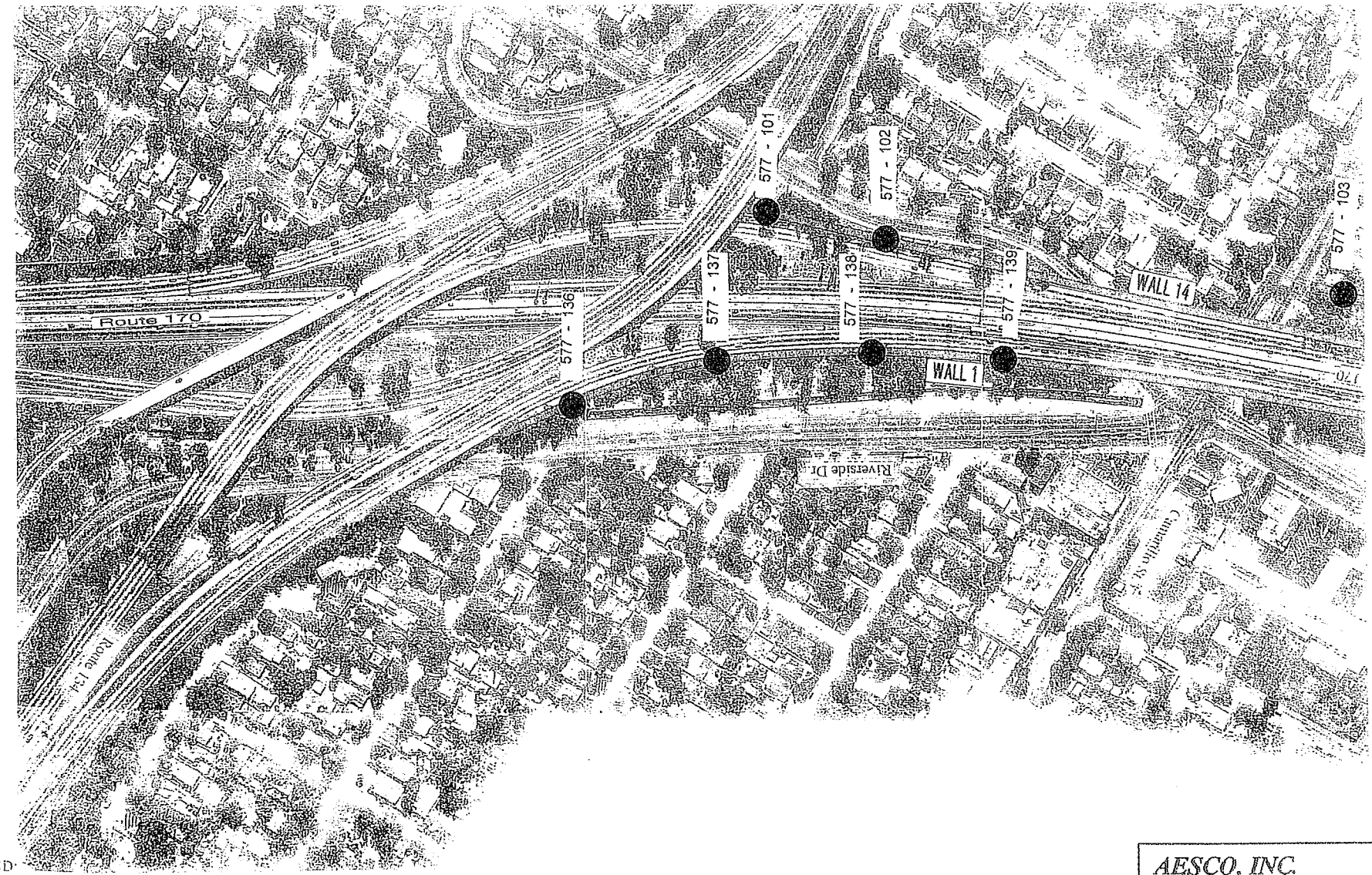


ROUTE 134
MTA Soundwalls

LAYOUT 1

AESCO, INC.
FIGURE
ROUTE 1
ADL BORING LOCATIONS
SHEET #

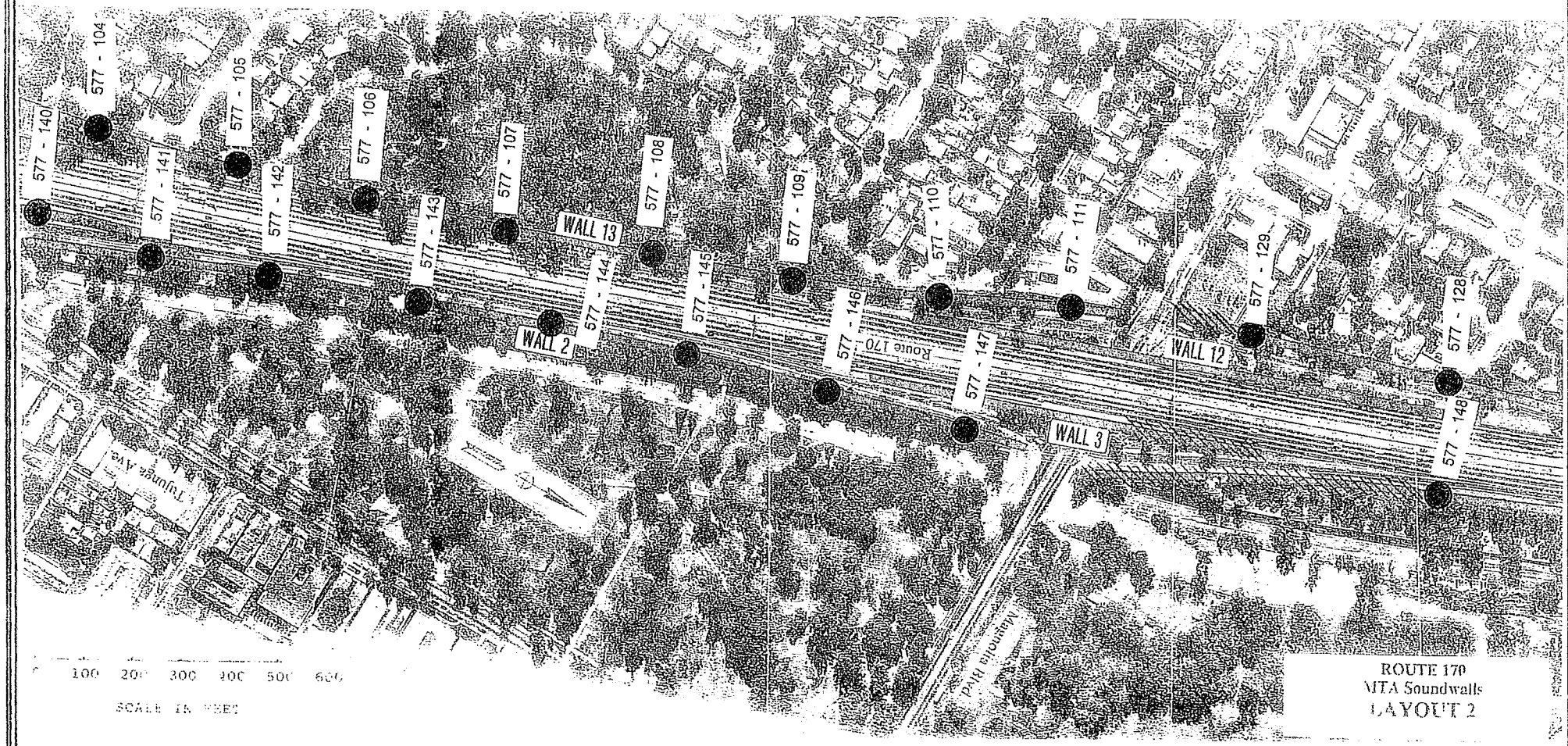

67 - 216



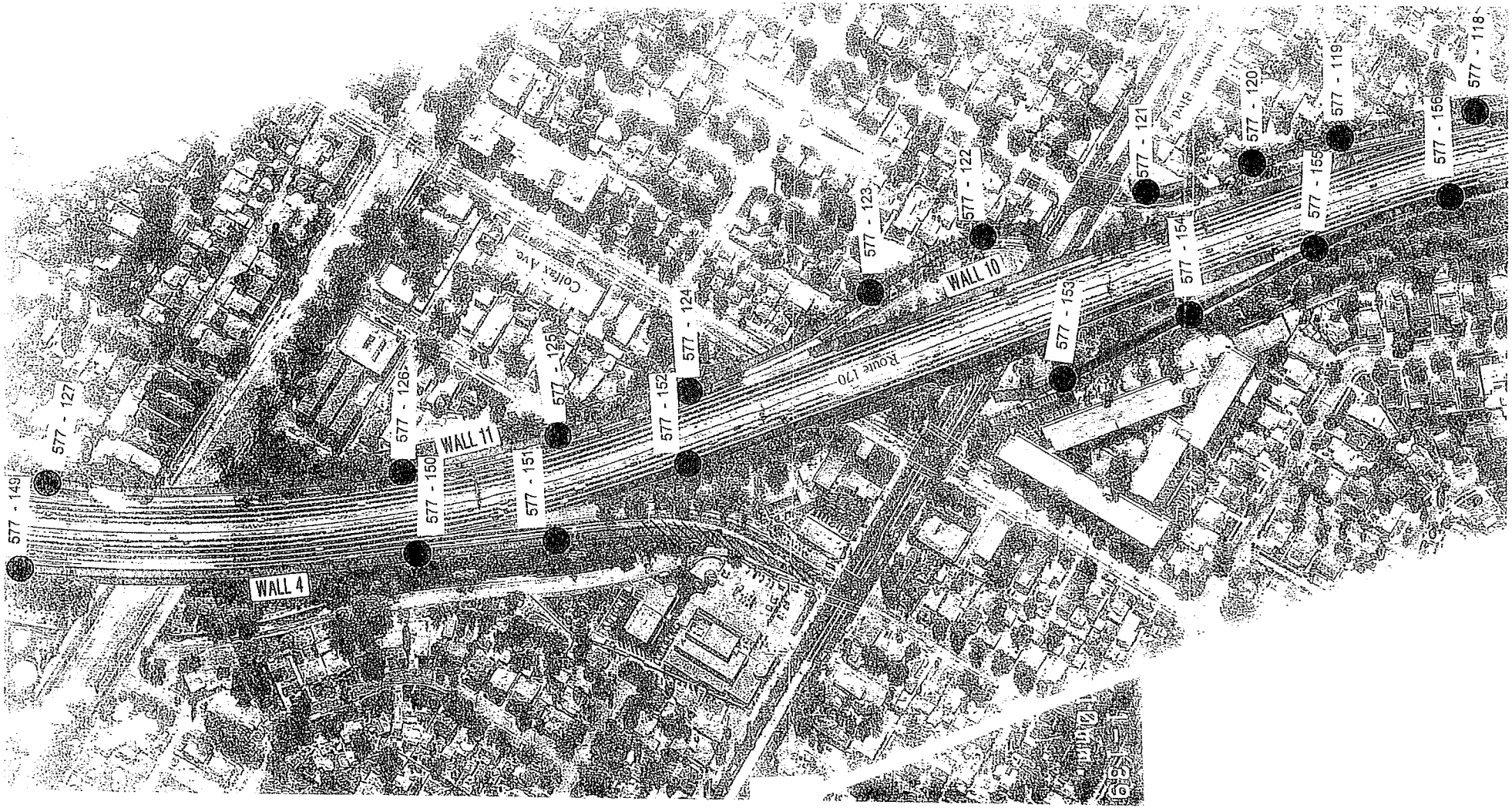
LEGEND:
- Proposed Noise Barrier Location
- Proposed Noise Barrier Location [illegible] Commercial [illegible]
- Proposed Noise Barrier Location with Existing Sound Wall
- Proposed Noise Barrier Location with Sound Wall Under [illegible]
- Approximate ADL Boring Location

ROUTE 170
MTA Soundwalls
LAYOUT 1

AESCO, INC.
FIGURE 3
ROUTE 170
ADL BORING LOCATIONS
SITES #2, #3, #4 & #5



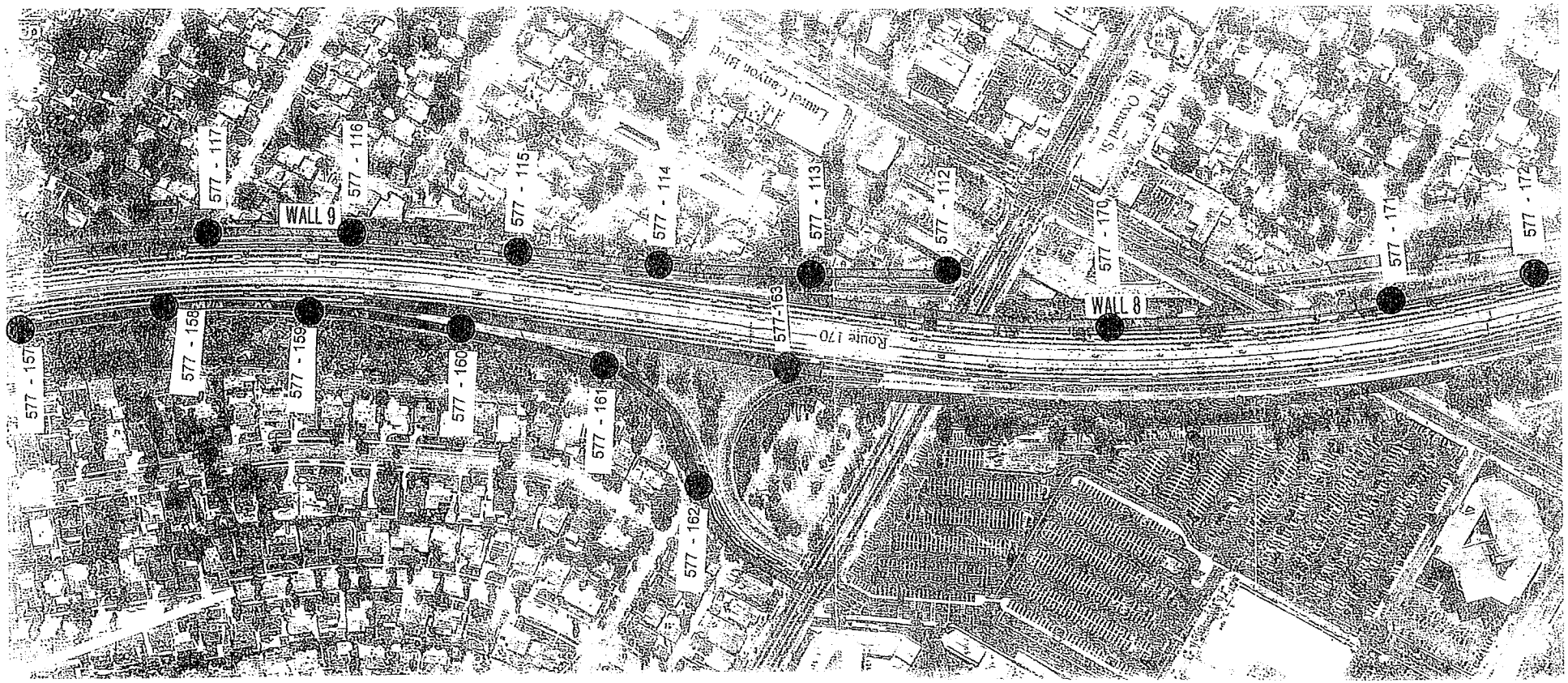
AESCO, INC.
FIGURE 4
ROUTE 170
ADL BORING LOCATIONS
SITES #2, #3, #4 & #5



ROUTE 170
MTA Soundwalls
LAYOUT 3

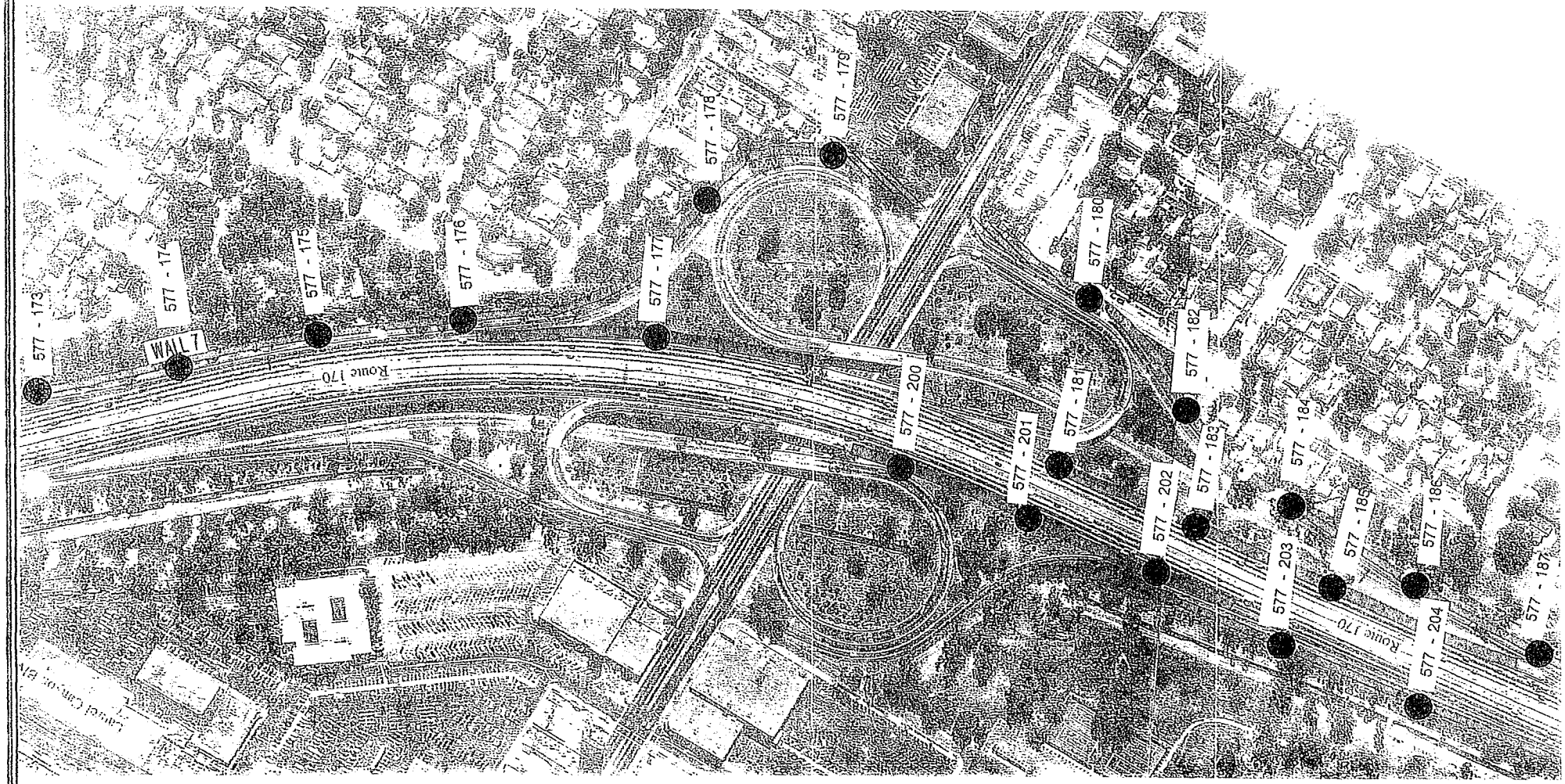
SCALE IN FEET

AESCO, INC.
FIGURE 5
ROUTE 170
ADL BORING LOCATIONS
SITES #2, #3, #4 & #5



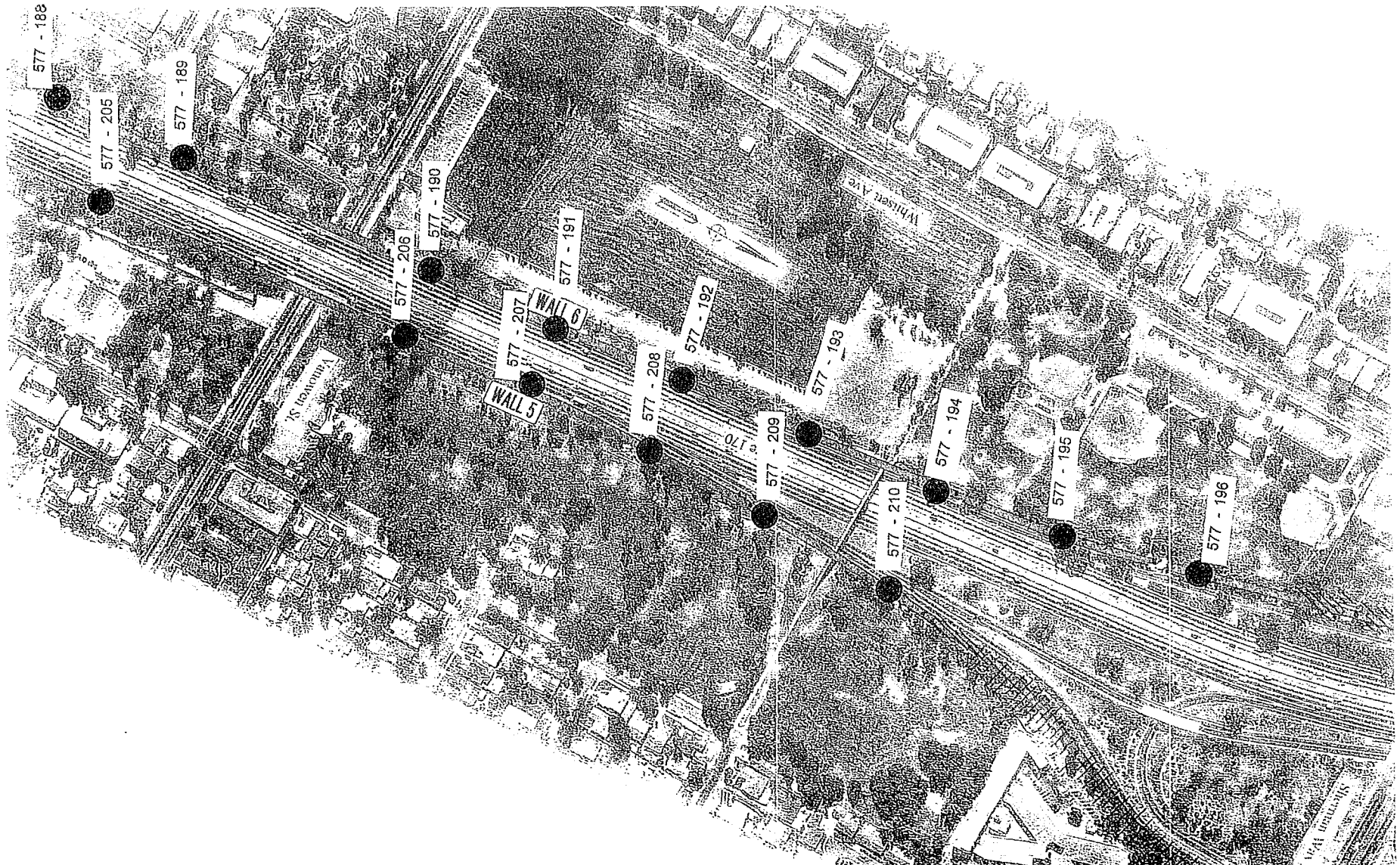
ROUTE 170
MTA Soundwalls
LAYOUT 3

AESCO, INC.
FIGURE 6
ROUTE 170
ADL BORING LOCATIONS
SITES #2, #3, #4 & #5



ROUTE 170
MTA Soundwalls
LAYOUT 5

AESCO, INC.
FIGURE 7
ROUTE 170
ADL BORING LOCATIONS
SITES #2, #3, #4 & #5



AESCO, INC.
FIGURE 8
ROUTE 170
ADL BORING LOCATIONS
SITES #2, #3, #4 & #5

State Routes 134: Eastbound & 170: Northbound and Southbound

Site ID: 20020155-1 (1) + 20020155-1 (2, 3, 4 & 5)

Samples tested for CAM 17 (mg/Kg)

Client Smpl. ID	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
577-148-.45	ND	ND	197	ND	1.93	30.4	11.7	59.4	2380	ND	3.07	26.7	3.51	ND	ND	51.1	415
577-152-.15	ND	2.34	116	ND	1.82	25.2	8.04	46	1030	0.23	3.23	24	4.21	ND	ND	51.3	235
577-155-.15	ND	6.17	93	0.53	1.8	21.6	9.09	42.7	266	ND	3.54	16.4	2.76	ND	ND	58.7	120
577-159-.15	ND	1.7	108	0.61	0.719	18.3	9.73	18.8	56.3	ND	1.96	14.1	1.97	ND	ND	51.3	52.7
577-162-.15	ND	ND	152	ND	ND	17.3	11.5	20.2	219	ND	ND	10.5	1.62	ND	ND	47.6	136
577-171-.15	ND	ND	192	ND	0.958	24.7	13.5	33.5	621	ND	1.68	15.7	4.19	ND	ND	64	173
577-175-.15	ND	2.26	161	ND	1.39	25.8	10.7	68.7	1550	ND	3.12	18.4	3.72	ND	ND	48.3	314
577-176-.15	4.04	5.28	167	ND	1.61	28.9	11.1	122	1750	ND	6.12	20.6	4.76	ND	ND	51.4	434
577-180-.15	ND	ND	111	ND	0.897	16.2	8.39	29.7	248	ND	1.41	11.2	ND	ND	ND	40.6	420
577-186-.15	ND	ND	93.3	ND	ND	12.7	7.67	14	44.8	ND	ND	7.9	1.91	ND	ND	41.3	59.2
577-189-.15	ND	1.04	144	ND	2.4	23.4	8.16	254	1150	ND	3.05	19.6	3.07	ND	ND	35.9	376
577-190-.15	ND	ND	99.1	ND	0.803	15.9	7.33	36.9	613	ND	1.19	11.2	1.41	ND	ND	33.9	195
577-192-.15	ND	ND	101	ND	0.737	17.2	7.6	29	833	ND	1.11	12.3	2.45	ND	ND	33.4	161
577-194-.15	ND	ND	82.7	ND	ND	13.8	8.12	19.9	256	ND	ND	10	1.29	ND	ND	40.8	74.2
577-200-.15	ND	ND	53.1	ND	ND	7.23	4.78	12.5	141	ND	ND	4.52	ND	ND	ND	25.9	43
577-203-1.50	ND	ND	85.8	ND	ND	11.1	7.5	12.7	125	ND	ND	8.32	1.4	ND	ND	38.5	54.4
577-207-.15	ND	ND	104	ND	0.517	15.4	8.31	27.8	630	ND	ND	10.6	1.72	ND	ND	41.6	142
577-210-.15	ND	ND	76.5	ND	ND	12.7	8.41	17.8	27.6	ND	ND	7.47	1.57	ND	ND	42.8	140
577-215-.45	ND	ND	93.2	0.77	ND	15.5	11.4	17.4	184	0.16	ND	26.2	1.59	ND	ND	43.7	221
577-216-.15	ND	ND	141	0.589	ND	23.8	14.7	36.1	1090	ND	ND	13.3	ND	ND	ND	36.3	275
577-217-.15	ND	ND	132	0.701	ND	22.1	15.9	27.8	270	ND	1.71	13	1.31	ND	ND	74.4	125
577-218-.15	ND	1.13	151	ND	ND	16.2	11	27.5	490	ND	4.53	12.2	1.22	ND	ND	47.7	264

8.0 CONCLUSIONS AND RECOMMENDATION

8.1 Statistic Analysis

As per the DTSC Variance, thresholds of 1411 and 3397 milligrams per kilogram (mg/kg) for the total lead and 0.5 milligrams per liter (mg/L) extractable lead (based on modified Waste Extraction Test using de-ionized water as the extractant), based on DTSC Variance Modification letter, were used to determine the re-use of soils within Caltrans Right of Way. A threshold of 350 mg/kg for total lead, 2500 parts per million (ppm) of Copper and 2000 ppm of Nickel were used to determine handling and the disposal process of the soil.

The statistical analyses included the calculation of the upper confidence level (UCL) 90% and UCL 95% of the total lead concentration. The UCL 90% was used for soil re-use decision making; while the UCL 95% was used for disposal evaluation. Arcsin transformation of data was applied when the variance of the data was greater than the mean. The results of the statistical analyses are included in this report. All ND values were replaced with half the value of DLR (Detection Limit for Reporting purposes).

Statistic analyses were performed for total lead results. Histograms for the total lead values along with regression analyses were performed between TTLC and STLC and between STLC and Di-STLC and calculating the correlation coefficient between the total lead and soluble lead were performed. As a quality check of the data of the TTLC and the STLC, correlation coefficient was calculated for samples per each direction. Duplicate tests were performed to maintain the required correlation coefficient between the TTLC and STLC values. All correlation coefficients calculated were greater than 0.8. Therefore, and per the July 15, 2002 Protocol, the quality of the data is acceptable. Results of the statistical analysis are summarized in the following tables. From these tables we notice that all STLC values exceeded the threshold of 5 mg/L and that no TTLC value exceeded the threshold of 3397 mg/kg.

Route/Stage	Depth (m)	UCL 90% for Re-use Evaluation			UCL 95% for Disposal Evaluation		Soil Classification	Excess Soil Management
		Total Lead mg/kg	STLC mg/l	Di-STLC mg/l	Total Lead mg/kg	STLC mg/l		
Route 134, Site 1, EB	All depths	399.3	27.34	0.1	433.2	29.66	Type Y	Type Z-2
	0.15	976.4	66.98	0.1	1051.6	72.15	Type Y	Type Z-2
	0.45+0.75+1.5	199.5	13.61	0.1	214	14.61	Type Y	Type Z-2

Route/Stage	Depth (m)	UCL 90% for Re-use Evaluation			UCL 95% for Disposal Evaluation		Soil Classification	Excess Soil Management
		Total Lead mg/kg	STLC mg/l	DI-STLC mg/l	Total Lead mg/kg	STLC mg/l		
Route 170, Entire SB	All depths	373.8	20.79	0.18	391.1	21.56	Type Y	Type Z-2
	0.15	744.4	37.43	0.2	791.9	39.56	Type Y	Type Z-2
	0.45+0.75+1.5	298.9	17.42	0.17	317.4	18.25	Type Y	Type Z-2
Route 170, Stage 1, SB	All depths	274.5	16.33	0.17	291.6	17.09	Type Y	Type Z-2
Route 170, Stage 2, SB	All depths	591.7	30.57	0.19	650.8	33.22	Type Y	Type Z-2
	0.15	1741.7	82.2	0.26	1921.8	90.92	Type Y	Type Z-2
	0.45+0.75+1.5	236.5	14.62	0.17	259.8	15.67	Type Y	Type Z-2
Route 170, Stage 3, SB	All depths	512.1	27	0.19	559.7	29.13	Type Y	Type Z-2
	0.15	1378.2	65.88	0.24	1558.9	74	Type Y	Type Z-2
	0.45+0.75+1.5	351.7	19.79	0.18	386.6	21.36	Type Y	Type Z-2
	0.15+0.45	855.3	42.4	0.21	948.4	46.59	Type Y	Type Z-2
	0.75+1.5	293.1	17.16	0.17	324.6	18.58	Type Y	Type Z-2
Route 170, Stage 4, SB	All depths	547.7	28.59	0.19	586.9	30.35	Type Y	Type Z-2
	0.15	817.1	40.69	0.2	890.2	43.97	Type Y	Type Z-2
	0.45+0.75+1.5	554	28.88	0.19	603.6	31.1	Type Y	Type Z-2
	0.15+0.45	644.5	32.94	0.19	698.4	35.36	Type Y	Type Z-2
	0.75+1.5	617.4	31.72	0.19	683.4	34.69	Type Y	Type Z-2
	0.15+0.45+0.75	625.6	32.09	0.19	672.6	34.2	Type Y	Type Z-2
	1.5	718	36.24	0.2	826.9	41.13	Type Y	Type Z-2

Route/Stage	Depth (m)	UCL 90% for Re-use Evaluation			UCL 95% for Disposal Evaluation		Soil Classification	Excess Soil Handling
		Total Lead mg/kg	STLC mg/l	DI-STLC mg/l	Total Lead mg/kg	STLC mg/l		
Route 170, Entire NB	All depths	359.1	23.27	0.51*	378.8	24.57	Type Y	Type Z-2
	0.15	775.8	50.73	0.87*	837.4	54.79	Type Y	Type Z-2
	0.45+0.75+1.5	273.7	17.64	0.44	292.4	18.88	Type Y	Type Z-2
Route 170, Stage 1, NB	All depths	634.5	41.42	0.75*	679.6	44.39	Type Y	Type Z-2
	0.15	1388.6	91.12	1.4*	1527	100.24	Type Y	Type Z-2
	0.45+0.75+1.5	514.5	33.51	0.64*	559.4	36.47	Type Y	Type Z-2
	0.15+0.45	1069	70.05	1.12*	1149.3	75.35	Type Y	Type Z-2
	0.75+1.5	301.8	19.5	0.46	335.5	21.72	Type Y	Type Z-2
Route 170, Stage 2, NB	All depths	379.8	24.64	0.53*	418.1	27.16	Type Y	Type Z-2
	0.15	983.5	64.42	1.05*	1116.9	73.21	Type Y	Type Z-2
	0.45+0.75+1.5	294.3	19	0.45	330.5	21.39	Type Y	Type Z-2
Route 170, Stage 3, NB	All depths	214.1	13.72	0.38	255.3	16.43	Type Y	Type Z-2

ADL Soil Classification:

Type Y: These materials are hazardous waste regulated by the State of California permitted for reuse under the DTSC Variance. The materials shall be placed as shown on the contract plans and covered with a minimum 0.3m (1') of non-hazardous soils (soft cover) or under a pavement section (hard cover). Excess materials shall be handled as Type Z-2.

Type Z-2: These materials are hazardous waste regulated by the State of California and shall be transported and disposed to an approved Class 1 disposal facility.

* Soil can be re-used under a pavement (hard cover only) based on DI-WET result (> 0.5 mg/l)

8.2 State Route 134, Site #1 (Eastbound)

The Eastbound of Site #1 involved Stage #1. Refer to the Construction Stages Table with Boring Numbers in Section 6.3 for further details. The values used in the following sections are based on the tables in section 8.1.

8.2.1 Total Lead Analysis

The maximum UCL 90% of the TTLC was 976.4 mg/kg and from the UCL 95% TTLC was 1051.6 mg/kg. These values were derived from the combination of all samples at depth of 0.15m along the site.

Total lead UCL 90% value will be used for re-use evaluation and the Total Lead UCL 95% value will be used for disposal evaluation.

8.2.2 Soluble Lead STLC (Citrate)

The STLC value obtained using UCL 90% total lead of 976.4 mg/kg in the regression equation was 66.98 mg/L. Also, STLC value obtained using UCL 95% total lead of 1051.6 mg/kg in the regression equation was 72.15 mg/L.

The value of 66.98 mg/L will be used to obtain Di-STLC values from the regression equation between the STLC and the Di-STLC.

8.2.3 Soluble Lead STLC (De-ionized)

All the Di-STLC values were 0.1 mg/L, which is less than the threshold of 0.5mg/l. These values will be used to determine utilizing the hard or soft cover.

8.2.4 pH

The minimum value of the pH for the entire tested samples along the eastbound direction is 8.14 which is greater than the threshold of five (5) and the maximum value along this direction is 8.48 which is less than 12.5. Therefore, no special handling is required based on the soil pH values as per the DTSC Variance.

8.2.5 TCLP

The maximum value obtained of TCLP is 3.08 mg/L, which is less than the threshold of 5 mg/L. Therefore and based on the Code of Federal Regulation (CFR), the soil can be considered as non-RCRA waste.

8.2.6 CAM17

Maximum values obtained for CAM 17 constituents are presented in the following table:

Table 8.2.6 Site 1 (Eastbound) CAM 17 Elements		
Constituent Name	Maximum Value (mg/kg)	Threshold Limits (mg/kg)
Antimony	ND	500
Arsenic	1.13	500
Barium	151	10,000
Beryllium	0.77	75
Cadmium	ND	100
Chromium	23.8	2,500
Cobalt	15.9	8,000
Copper	36.1	2,500
Mercury	0.16	20
Molybdenum	4.53	3,500
Nickel	26.2	2,000
Selenium	1.59	100
Silver	ND	500
Thallium	ND	700
Vanadium	74.4	2,400
Zinc	275	5,000

None of these values exceed the thresholds outlined in Title 22.

8.2.7 Soil Re-Use Evaluation: "Based on Total Lead and Di-STLC"

The 90% UCL value obtained of STLC was greater than the threshold of 5 mg/l. Therefore, the soil at all depths and at each studied combination of adjacent layers is considered hazardous soil of type Y. All total lead values obtained from the Upper Confidence Level UCL 90% Statistical Study along this site were less than 1411 mg/kg, and the Di-STLC values obtained for all the samples were 0.1 mg/l, which is less than 0.5mg/L. Therefore, the soil along this site maybe used as fill provided it is covered with an impermeable membrane or at least 0.3m (1-foot) of non-hazardous soil (Soft cover) and that the lead contaminated soil is placed a minimum of five feet above the maximum water table elevation.

8.2.8 Soil Handling and Disposals: (State Route 134, Eastbound)

The UCL 95% STLC values exceeded the threshold of 5 mg/l. Therefore, the excess soil at all depths and at each studied combination of adjacent layers is considered hazardous soil of type Z-2. The disposal of this soil shall be at Class I Landfill. Also, the maximum value obtained of TCLP is 3.08 mg/L, which is less than the threshold of 5 mg/L. Therefore and based on the Code of Federal Regulation (CFR), the soil can be considered as non-RCRA waste.

8.3 State Route 170, Sites # 3 and 5 (Northbound)

The Northbound of Sites #3 and 5 involved Stages 1, 2, and 3. Description of these are mentioned in the table in section 6.3. The values used in the following sections are based on the tables in section 8.1.

8.3.1 Total Lead Analysis

The maximum UCL 90% TTLC was 1388.6 mg/kg and from the UCL 95% TTLC was 1527 mg/kg. These values were derived from the combination of all Stage 1 samples at depth of 0.15m along the northbound. Also, the statistical study for Stage 2 at depth of 0.15m illustrated that the maximum value of the UCL 90% TTLC was 983.5 mg/kg and from the UCL 95% TTLC was 1116.9 mg/kg. The total lead values obtained from the Upper Confidence Level UCL 90% and UCL 95% statistical studies along Stage 3 were 214.1 mg/kg and 255.3 mg/kg respectively. These values are less than 350 mg/kg.

Total lead UCL 90% value will be used for re-use evaluation and the Total Lead UCL 95% value will be used for disposal evaluation.

8.3.2 Soluble Lead STLC (Citrate)

The STLC value obtained using UCL 90% total lead of 1388.6 mg/kg in the regression equation was 91.12 mg/L. The STLC value obtained using UCL 95% total lead of 1527 mg/kg in the regression equation was 100.24 mg/L.

The value obtained of STLC using UCL 90% total lead of 983.5 mg/kg in the regression equation was 64.42 mg/L. Also, the value obtained for STLC using UCL 95% total lead of 1116.9 mg/kg in the regression equation was 73.21 mg/L.

The STLC values obtained using UCL 90% total lead 214 mg/kg and UCL 95% total lead 255.3 mg/kg, were 13.72 and 16.43 mg/l, respectively.

The values of the STLC will be used to obtain Di-STLC values from the regression equation between the STLC and the Di-STLC.

8.3.3 Soluble Lead STLC (De-ionized)

The values obtained of Di-STLC using the STLC values of 91.12, 64.42, and 13.72 mg/L in the regression equation between the STLC and Di-STLC were 1.4, 1.05, and 0.38 mg/L, respectively. These values will be used to determine utilizing the hard or soft cover.

8.3.4 pH

The minimum value of the pH for the entire tested samples along the northbound direction was 6.5 which is greater than the threshold of five (5) and the maximum value on this direction is 8.42 which is less than 12.5. Therefore, no special handling is required on the soil pH values as per the DTSC Variance.

8.3.5 TCLP

The maximum value obtained of TCLP was 2.52 mg/L, which is less than the threshold of 5 mg/L. Therefore and based on the Code of Federal Regulation (CFR), the soil can be considered as non-RCRA waste.

8.3.6 CAM17

Maximum values obtained for CAM 17 constituents are presented in the following table:

8.3.6 CAM 17 Elements Sites 3 and 5, State Route 170 (Northbound)		
Constituent Name	**Maximum Value (mg/kg)**	**Threshold Limits (mg/kg)**
Antimony	ND	500
Arsenic	6.17	500
Barium	197	10,000
Beryllium	0.61	75
Cadmium	4.69	100
Chromium	30.4	2,500
Cobalt	11.7	8,000
Copper	134	2,500
Mercury	0.23	20
Molybdenum	3.54	3,500
Nickel	26.7	2,000
Selenium	4.21	100
Silver	2.31	500
Thallium	ND	700
Vanadium	58.7	2,400
Zinc	466	5,000

None of these values exceed the thresholds outlined in Title 22.

8.3.7 Soil Re-Use Evaluation: "Based on TTLC and Di-STLC"

- **Stage #1 (State Route 170 Northbound):**

The UCL 90% STLC values were greater than the threshold of 5 mg/l. Therefore, the soil at all depths and at each studied combination of adjacent layers is considered hazardous soil of type Y. All total lead values obtained from the Upper Confidence Level UCL 90% were less than 1411 mg/kg. The Di-STLC value obtained from the regression equation between STLC and Di-STLC values, for the combination of all samples along Stage 1 along the northbound direction, was 0.75 mg/L. Also, the Di-STLC value obtained for layer at depth of 0.15m and for the combination of layers at depths of (0.45+0.75+1.5m) along Stage 1 along the northbound direction was 1.4 mg/l and 0.64 mg/l, respectively. Both of these values exceeded the threshold of 0.5 mg/l. Therefore, if the soil at depth of 0.15m was separated, it can be used as fill provided that the lead-contaminated soils are placed a minimum of five (5) feet above the maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans. Also, the Di-STLC value obtained for the combination of samples of layers at depths of 0.15 and 0.45m along Stage 1 along the northbound direction was 1.12 mg/l. This value is greater than 0.5mg/L. On the other hand, the Di-STLC value obtained for the combination of samples of layers at depths of 0.75 and 1.5m along Stage 1 was 0.46 mg/l, which is less than 0.5 mg/l. Therefore, if the soil of layers at depths 0.15m and 0.45m was separated, the soil below, maybe used as fill provided it is covered with an impermeable membrane or at least 0.3m (1-foot) of non-hazardous soil (Soft cover) and that the lead contaminated soil is placed a minimum of five feet above the maximum water table elevation. Otherwise, if the soil at depths of 0.15m and 0.45m could not be separated, the soil of the Stage 1 may be used as fill provided that the lead-contaminated soils are placed a minimum of five (5) feet above the maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.

- **Stage #2 (State Route 170 Northbound):**

The UCL 90% STLC values for samples along Stage 2, were greater than the threshold of 5 mg/l. Therefore, the soil at all depths and at each studied combination of adjacent layers is considered hazardous soil of type Y.

If the soil at depth of 0.15m along Stage 2, where the Di-STLC value was 1.05 mg/l, was separated, the soil below, where the Di-STLC of the combination of these soils is 0.45 mg/l, may be used as fill provided it is covered with an impermeable membrane or at least 0.3m (1-foot) of non-hazardous soil (Soft cover) and that the lead contaminated soil is placed a minimum of five feet above the maximum water table elevation. Otherwise, if the soil at depth of 0.15m could not be separated, the soil of the Stage 2, where the Di-STLC of the combination of these soils is 0.53 mg/l, may be used as fill provided that the lead-

contaminated soils are placed a minimum of five (5) feet above the maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.

- **Stage #3 (State Route 170 Northbound):**

The UCL 90% STLC values were greater than the threshold of 5 mg/l. Therefore, the soil at all depths and at each studied combination of adjacent layers is considered hazardous soil of type Y. Also, based on the TTLC values along with the Di-STLC values for Stage 3 where the TTLC values are less than 1411 mg/kg and the Di-STLC values are less than 0.5 mg/l, the soil along this stage maybe used as fill provided it is covered with an impermeable membrane or at least 0.3m (1-foot) of non-hazardous soil (Soft cover) and that the lead contaminated soil is placed a minimum of five feet above the maximum water table elevation.

8.3.8 Soil Handling and Disposals (State Route 170 Northbound):

The UCL 95% STLC values for the soils along the stages of this bound exceeded the threshold of 5 mg/l. Therefore, the excess soil at all depths and at each studied combination of adjacent layers is considered hazardous soil of type Z-2. The disposal of this soil shall be at Class I Landfill. Also, the maximum value obtained of TCLP was 2.52 mg/L, which is less than the threshold of 5 mg/L. Therefore and based on the Code of Federal Regulation (CFR), the soil can be considered as non-RCRA waste.

8.4 State Route 170 Sites # 2, 4, and 5 (Southbound)

The Southbound of Sites #2, 4, and 5 involved Stages 1, 2, 3, and 4. Descriptions of these stages are mentioned in the table in section 6.3. The values used in the following sections are based on tables in section 8.1.

8.4.1 Total Lead Analysis

The Statistical study for the combination of all Stage 1 samples illustrated that the UCL 90% and UCL 95% of the TTLC at this stage were 274.5 mg/kg and 291.6 mg/kg. These values are less than the threshold of 350 mg/kg. The UCL 90% of the TTLC was 1741.7 mg/kg and from the UCL 95% statistical study was 1921.8 mg/kg. These values were derived from the combination of all Stage 2 samples at depth of 0.15m along the southbound. Also, the statistical study for Stage 3 at depth of 0.15m illustrated that the UCL 90% for TTLC was 1378.2 mg/kg and from the UCL 95% statistical study for the same samples at depth of 0.15m was 1558.9 mg/kg.

The statistical study for Stage 4 at depth of 0.15m illustrated that the UCL 90% for TTLC was 817.1 mg/kg and from the UCL 95% statistical study for the same samples at depth of 0.15m was 890.2 mg/kg.

Total lead UCL 90% value will be used for re-use evaluation and the Total Lead UCL 95% value will be used for disposal evaluation.

8.4.2 Soluble Lead STLC (Citrate)

The value obtained of STLC using UCL 90% total lead of 274.5 mg/kg in the regression equation was 16.33 mg/L. Also, the value obtained for STLC using UCL 95% total lead of 291.6 mg/kg in the regression equation was 17.09 mg/L.

The value obtained of STLC using UCL 90% total lead of 1741.7 mg/kg in the regression equation was 82.2 mg/L. The value obtained of STLC using UCL 95% total lead of 1921.8 mg/kg in the regression equation was 90.92 mg/L.

Also, the value obtained of STLC using UCL 90% total lead of 1378.2 mg/kg in the regression equation was 65.88 mg/L. Also, the value obtained for STLC using UCL 95% total lead of 1558.9 mg/kg in the regression equation was 74 mg/L. The value obtained of STLC using UCL 90% total lead of 817.1 mg/kg in the regression equation was 40.69 mg/L. Also, the value obtained for STLC using UCL 95% total lead of 890.2 mg/kg in the regression equation was 43.97 mg/L.

The values of the STLC will be used to obtain Di-STLC values from the regression equation between the STLC and the Di-STLC.

8.4.3 Soluble Lead STLC (De-ionized)

The Di-STLC values obtained using the STLC values of 82.2, 65.88, 40.69 and 16.33 mg/L were 0.26, 0.24, 0.2 and 0.17 mg/L, respectively. These values will be used to determine utilizing the hard or soft cover.

8.4.4 pH

The minimum value of the pH for the entire tested samples along the northbound direction was 7.0 which is greater than the threshold of five (5) and the maximum value on this direction is 9.14 which is less than 12.5. Therefore, no special handling is required on the soil pH values as per the DTSC Variance.

8.4.5 TCLP

The maximum value obtained of TCLP was 3.85 mg/L, which is less than the threshold of 5 mg/L. Therefore and based on the Code of Federal Regulation (CFR), the soil can be considered as non-RCRA waste.

8.4.6 CAM17

Maximum values obtained for CAM 17 constituents are presented in the following table:

Table 8.4.6 CAM 17 Elements Sites 2, 4, and 5 (Southbound)		
Constituent Name	**Maximum Value (mg/kg)**	**Threshold Limits (mg/kg)**
Antimony	4.04	500
Arsenic	5.28	500
Barium	206	10,000
Beryllium	0.61	75
Cadmium	3.4	100
Chromium	28.9	2,500
Cobalt	13.5	8,000
Copper	254	2,500
Mercury	ND	20
Molybdenum	7.3	3,500
Nickel	22.5	2,000
Selenium	4.76	100
Silver	ND	500
Thallium	ND	700
Vanadium	64	2,400
Zinc	434	5,000

None of these values exceed the thresholds outlined in Title 22.

8.4.7 Soil Re-Use Evaluation: "Based on TTLC and Di-STLC"

- **Stage #1 (State Route 170 Southbound):**

The UCL 90% STLC values were greater than the threshold of 5 mg/l. Therefore, the soil along Stage #1, at all depths and at each studied combination of adjacent layers is considered hazardous soil of type Y. Total lead value obtained from the Upper Confidence Level UCL 90% for Stage 1 was 274.5 mg/kg, which is less than 1411 mg/kg. The Di-STLC value obtained from the regression equation between STLC and Di-STLC values, for the combination of all samples along Stage 1 along the southbound direction, was 0.17 mg/L. Therefore, the soil along this stage maybe used as fill provided it is covered with an impermeable membrane or at least 0.3m (1-foot) of non-hazardous soil (Soft cover) and that the lead contaminated soil is placed a minimum of five feet above the maximum water table elevation.

- **Stage #2 (State Route 170 Southbound):**

The UCL 90% STLC values were greater than the threshold of 5 mg/l. Therefore, the soil along Stage #2, at all depths and at each studied combination of adjacent layers is considered hazardous soil of type Y. All Di-STLC values obtained along Stage 2 are less than 0.5 mg/L. The UCL 90% of the TTLC of the combination of samples of layers at depth of 0.15m along Stage 2 was 1741.7 mg/kg, which is greater than the threshold of 1411 mg/kg and less than 3397 mg/kg. The UCL 90% of the TTLC of the combination of all Stage 2 samples and the combination of all Stage 2 samples at depths of 0.45m, 0.75m and 1.5m were 591.7 and 236.5 mg/kg respectively. Both of these values are less than 1411 mg/kg. Therefore, if the soil of layer at depth 0.15m was separated, this soil can be reused as fill provided that the lead-contaminated soils are placed a minimum of five (5) feet above the maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans. The soil below the layer at depth of 0.15m, maybe used as fill provided it is covered with an impermeable membrane or at least 0.3m (1-foot) of non-hazardous soil (Soft cover) and that the lead contaminated soil is placed a minimum of five feet above the maximum water table elevation. Also, if the soil at depth 0.15m was not separated, the soil along this stage maybe used as fill provided that the lead-contaminated soil is placed a minimum of five (5) feet above the maximum water table elevation and covered with at least one (1) foot of non-hazardous soil.

- **Stage #3 (State Route 170 Southbound):**

The UCL 90% STLC values were greater than the threshold of 5 mg/l. Therefore, the soil at all depths and at each studied combination of adjacent layers is considered hazardous soil of type Y. Total lead values obtained from the Upper Confidence Level UCL 90% for Stage 3 were less than 1411 mg/kg. The Di-STLC value obtained from the regression equation between STLC and Di-STLC values were less than the threshold of 0.5 mg/L. Therefore, the soil along this stage maybe used as fill provided it is covered with an impermeable membrane or at least 0.3m (1-foot) of non-hazardous soil (Soft cover) and that the lead contaminated soil is placed a minimum of five feet above the maximum water table elevation

- **Stage #4 (State Route 170 Southbound):**

The UCL 90% STLC values were greater than the threshold of 5 mg/l. Therefore, the soil at all depths and at each studied combination of adjacent layers is considered hazardous soil of type Y. Total lead values obtained from the Upper Confidence Level UCL 90% for Stage 4 were less than 1411 mg/kg. The Di-STLC value obtained from the regression equation between STLC and Di-STLC values were less than the threshold of 0.5 mg/L. Therefore, the soil along this stage maybe used as fill provided it is covered with an impermeable membrane or at least 0.3m (1-foot) of non-hazardous soil (Soft cover) and that the lead

contaminated soil is placed a minimum of five feet above the maximum water table elevation.

8.4.8 Soil Handling and Disposals (State Route 170 Southbound):

The UCL 95% STLC values for the soils along the stages of this bound exceeded the threshold of 5 mg/l. Therefore, the excess soil at all depths and at each studied combination of adjacent layers is considered hazardous soil of type Z-2. The disposal of this soil shall be at Class I Landfill. Also, the maximum value obtained of TCLP was 3.85 mg/L, which is less than the threshold of 5 mg/L. Therefore and based on the Code of Federal Regulation (CFR), the soil can be considered as non-RCRA waste.

9.0 DISCLAIMER

This report has been prepared and compiled by the persons below. All correspondence shall be directed to the following office:

Adam Chamaa, P.E., Project Manager
Ronald C. Hanson, R.G., C.E.G.
AESCO Technologies, Inc.
18548 Beach Boulevard
Huntington Beach, California 92648
Phone (714) 593-2567
Fax (714) 593-0022

10.0 REFERENCES

We used following Web site and published paper for our reference.

- Web Site Address
  [1] http://www.dtsc.ca.gov/
  [2] http://www.dtsc.ca.gov/PublicationsForms/index.html
  [3] http://www.dtsc.ca.gov/database/Publications/pub_index.cfm
  [4] http://www.epa.gov/
  [5] http://www.epa.gov/epahome/publications2.htm
  [6] http://www.dot.ca.gov/
  [7] http://caltrans-opac.ca.gov/publicat.htm
  [8] http://www.epa.gov/epaoswer/hazwaste/test/sw846.htm
  [9] http://www.ott.doe.gov/pdfs/farrell.pdf
  [10] http://www.sccwrp.org
  [11] http://info.sen.ca.gov/pub/bill/asm/ab_0401-0450/ab_414_bill_20011014_chaptered.html

- Published Papers
  [12] Barrett, Barrett, M.E., Irish, Jr., L.B., Malina, Jr., J.F., Charbeneau, R.J., "Characterization of Highway, Runoff in Austin, Texas Area," Journal of Environmental Engineering, 124: (No. 2), pp 131-137, (1998).
  [13] Boerngen, J.G. and Shacklette, H.T., "Chemical Analyses of Soils and Other Surficial Materials of the Conterminous United States," U.S. Geological Survey Open-File Report, (1981).
  [14] Caltrans Hazardous Waste Protocol / July, 2002.
  [15] DTSC Soil Lead Variance, California Environmental Protection Agency, Frederick S. Moss / September 2000.
  [16] Dragun, J. and Chiasson, A., Elements in North American Soils, Hazardous Materials Control Resources Institute, Greenbelt, MD, (1991).
  [17] ENSR International, "Phase I, Environmental Site Assessment and Soil Lead Survey, Soundwall Nos. 442 and 446 Eastbound Highway 118", November 2001.
  [18] Geocon Environmental Consultants; submitted a series of site investigation reports to Caltrans on the lead content of soils near highways (1996-1998).
  [19] Kinnetic Laboratories, Inc., Technical Report, "Lead Content of Caltrans Highway and Freeway Soils," CTSW-RT-98-32 prepared for Caltrans, Sacramento, CA, (May 1998).
  [20] Lee, G.F., Taylor, Scott and Bein, Robert., "Soil Lead Management Criteria as Part of Caltrans Highway Construction Maintenance" , June 1998
  [21] Mahmood, R.J., "Review of Lead Contamination in Soils Near Highways," Report to California Department of Transportation Environmental Engineering Program, Sacramento, CA (1997).
  [22] Office of the Science Advisor Guidance Chapter 8, DDT in Soil, Guidance for the Assessment of Health Risk to Human, Fred Martz, PhD., DABT / July 1992.
  [23] Office of the Science Advisor Guidance Chapter 2, Use of Soil Concentration Data in Exposure Assessments, James C. Carlisle, D.V.M., M.Sc. / July 1992.

[24] Preliminary Endangerment Assessment, Preliminary Endangerment Assessment Guidance Manual, Chapter 1, State of California Environmental Protection Agency, Department of Toxic Substances Control / January 1994.
[25] Preliminary Endangerment Assessment, Preliminary Endangerment Assessment Guidance Manual, Chapter 2, State of California Environmental Protection Agency, Department of Toxic Substances Control / January 1994.
[26] Preliminary Endangerment Assessment, Preliminary Endangerment Assessment Guidance Manual, Chapter 3, State of California Environmental Protection Agency, Department of Toxic Substances Control / January 1994.
[27] U. S. EPA SW-846 Chapter 1 to Chapter 13, CD Version / December 1996.
[28] Code of Federal Regulation (CFR), Title 40, August 2002.
[29] Volume II Preliminary Foundation Report State Route 134 (Site #1), AESCO Technologies, Inc. December, 2002.
[30] Volume II Preliminary Foundation Report State Route 170 (Sites #2, #3, #4, & #5), AESCO Technologies, Inc. December, 2002.
[31] NBSSR (Noise Barrier Scope Study Report), Washington Infrastructure Services, Inc. July 2002.
[32] Caltrans Lead Contaminated Soil Variance Modification Letter, District 7, dated December 13, 2002.

11.0 GLOSSARY

ADL	Aerially Deposited Lead
AESCO	AESCO Technologies, Inc.
AL	Associated Laboratory
Caltrans	California Department of Transportation
CCR	California Code of Regulation
DTSC	Department of Toxic Substances Control
EDR	Environmental Data Source
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
HSC	Health and Safety Code
ISA	Initial Site Assessment
LOTBs	Log of Test Borings
MTA	Metropolitan Transportation Authority
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PEA	Preliminary Endangerment Assessment
ppm	Part per Million
SLS	Soil Lead Survey
SLV	Soil Lead Variance
SCCWRP	Southern California Coastal Water Research Project
TOC	Total Organic Carbon
UCL	Upper Confidence Level
UPI	Upper Confidence Interval
UST	Underground Storage Tanks
WASHINGTON	Washington Infrastructure Services, Inc.
WET	California Waste Extraction Test Method

Appendix

September 22, 2000 Soil Lead Variance and DTSC Legislative Summary

+

AB 414

+

Caltrans Lead Contaminated Soil Variance Modification, District 7

Appendix

September 22, 2000 Soil Lead Variance and DTSC Legislative Summary

+

AB 414

+

Caltrans Lead Contaminated Soil Variance Modification, District 7

California Environmental Protection Agency
Department of Toxic Substances Control

VARIANCE

Applicant Names:

Mr. Robert Sassaman, District Director
State of California
Department of Transportation, District 7
(Caltrans)
120 South Spring Street
Los Angeles, California 90012

Variance No. 00-H-VAR-03

Effective Date: September 22, 2000

Expiration Date: September 22, 2005

Modification History:

Pursuant to Section 25143 of the California Health and Safety Code, the Department of Toxic Substances Control hereby issues the attached Variance consisting of 8 pages to Department of Transportation District 07.

Frederick S. Moss
Chief, Permitting Division
Department of Toxic Substances Control

Date: 9/22/00

VARIANCE

1. INTRODUCTION.

1.1 Pursuant to Section 25143, Chapter 6.5, Division 20 of the Health and Safety Code (HSC), the California Department of Toxic Substances Control (DTSC) grants a variance to the applicant below for waste considered hazardous solely because of its contaminant concentrations and as further specified herein.

1.2 DTSC hereby grants a variance only from the requirements specified herein and only in accordance with all terms and conditions specified herein.

2. IDENTIFYING INFORMATION.

APPLICANT/OWNER/OPERATOR

Mr. Robert Sassaman, District Director
State of California
Department of Transportation, District 7 (Caltrans)
120 South Spring Street
Los Angeles, California 90012

3. TYPE OF VARIANCE.

Generation, Manifest, Transportation, Storage and Disposal

4. ISSUANCE AND EXPIRATION DATES.

DATE ISSUED: September 22, 2000 EXPIRATION DATE: September 22, 2005.

5. APPLICABLE STATUTES AND REGULATIONS. The hazardous waste that is the subject of this variance is fully regulated under HSC, Section 25100, et seq. and Title 22 of the California Code of Regulations (CCR) Division 4.5 except as specifically identified in Section 8 of this variance.

6. DEFINITION. For the purposes of this variance, waste that meets the criteria in paragraphs a) and b) of section 9 below, shall be referred to as "lead-contaminated soil(s)".

7. FINDINGS/DETERMINATIONS. DTSC has determined that the variance applicant meets the requirements set forth in HSC Section 25143 for a variance from specific regulatory requirements as outlined in Section 8 of this variance. The specific determinations and findings made by DTSC are as follows:

a) Caltrans intends to excavate, stockpile, transport, bury and cover large volumes of soil associated with highway construction projects throughout the State. In the more urbanized highway corridors this soil is contaminated with lead, primarily due

to historic emissions from automobile exhausts. In situ testing has shown the uppermost two feet of soil have been found to contain concentrations of lead in excess of regulatory thresholds. However, DTSC has prepared a risk assessment that shows that soil contaminated with low concentrations of lead can be managed in a way that presents no significant risk to human health and the environment.

b) The lead-contaminated soil will be placed only in Caltrans rights of way. Based on concentration levels, the wastes will be covered with a minimum thickness of one (1) foot of non-hazardous soil or asphalt cover and will always be five (5) feet above the highest groundwater elevation. Caltrans will assure that proper health and safety procedures will be followed for workers. This includes any persons engaged in maintenance work in areas where the waste has been buried and covered.

c) DTSC finds and requires that the lead contaminated soil excavated, stockpiled, transported, buried and covered is a non-RCRA hazardous waste, and that the hazardous waste management activity is insignificant as a potential hazard to human health and safety and the environment, when managed in accordance with the conditions, limitations and other requirements specified in this variance.

8. PROVISIONS SUBJECT TO VARIANCE.

DTSC, subject to all terms and conditions herein, waives the hazardous waste management requirements of Title 22,CCR, sections 66264.250 through 66264.259, 22 CCR 66268.1 through 66268.9, 22 CCR 66262.10, 22 CCR 66262.12, 22 CCR 66262.20, 22 CCR 66262.30 through 66262.34, 22 CCR 66262.40 through 66262.42, 22 CCR 66263.10 through 66263.18 and 22 CCR 66263.20 through 66263.23 for the generation, transportation, manifesting, storage and land disposal of hazardous waste. These management requirements are only waived provided all other requirements of this variance are complied with at Caltrans construction projects in the Caltrans District specified in section 2 above.

9. SPECIFICATIONS OF THE CONDITIONS, LIMITATIONS, OR OTHER REQUIREMENTS. The owner/operator shall be subject to the following conditions:

a) Caltrans shall manage all soil contaminated with lead at concentrations such that it is considered a hazardous waste pursuant to HSC 25117 and 22 CCR, Div 4.5, Chapter 11, unless the contaminant concentrations and management practices meet the following conditions:

1. Soil containing 500 ug/l extractible lead or less (based on a modified waste extraction test using deionized water as the extractant) and 350 ppm or less total lead may be used as fill provided that the lead-contaminated soil is placed a minimum of five (5) feet above the maximum water table elevation and covered with at least one (1) foot of nonhazardous soil. The limit on total lead within shall be the following: Total parts per million (ppm) lead shall be at or below the statutory limits in effect when the soil is used as fill or the risk based limit of 1496mg/kg, whichever is less. On the effective date of this variance, HSC section 25157.8 limits total lead concentrations to 350 ppm. That section may be amended and/or expire in the

future. Additionally, other parts of relevant statutes may be added or amended in the future to include lead limits applicable to this variance.

2. Soil containing more than 500 ug/l and less than 50 mg/l extractible lead (based on a modified waste extraction test using deionized water as the extractant) and 350 or less ppm total lead may be used as fill provided that the lead-contaminated soils are placed a minimum of five (5) feet above the maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans. Caltrans shall comply with the lead limits discussed in paragraph a) 1 above.

3. Contaminated soil with a pH < 5.0 shall be used only as fill material under the paved portion of the roadway.

b) Caltrans will implement appropriate health and safety procedures to protect its employees and the public, and to prevent or minimize exposure to potentially hazardous substances. A project-specific health and safety plan must be prepared and implemented. The monitoring and exposure standards shall be based on Construction Standards in Title 22, CCR section 1532.1.

c) All lead-contaminated soil that cannot be buried and covered within the same Caltrans corridor from where it originated shall be managed as a hazardous waste.

d) Lead-contaminated soil will not be moved outside the designated corridor boundaries (see paragraph q) below).

e) Lead-contaminated soil shall not be buried in areas where it will be in contact with groundwater or surface water.

f) Lead-contaminated soil shall be buried and covered only in locations that are protected from erosion resulting from storm water run-on and run-off.

g) The lead-contaminated soil shall be buried and covered in a manner that will prevent accidental or deliberate breach of the asphalt, concrete, and/or cover soil.

h) The presence of lead-contaminated soil will be incorporated into the projects' as-built drawings. The as-built drawings shall be annotated with the location, representative analytical data, and volume of lead-contaminated soil. The as-built drawings shall also state the depth of the cover. These as-built drawings shall be retained by Caltrans until its rights-of-way or property ownership are relinquished.

i) Caltrans shall ensure that no other hazardous wastes, other than the lead-contaminated soil, are placed in the burial areas.

j) Lead-contaminated soil shall not be buried within ten (10) feet of culverts or locations subject to frequent worker exposure.

k) Excavated lead-contaminated soil not placed into the designated area (fill area, roadbed

area) by the end of the working day shall be stockpiled and covered with sheets of polyethylene or at least one foot of non-hazardous soil. The lead contaminated soil, while stockpiled or under transport, shall be protected from contacting surface water and being dislodged or transported by wind or storm water. The stockpile covers shall be inspected at least once a week and within 24 hours after rainstorms.

l) Caltrans shall ensure that all stockpiling of lead contaminated soil remains within the specified corridor. Stockpiling of lead-contaminated soil outside the area of contamination is in direct violation of land disposal restrictions and is prohibited.

m) Caltrans shall conduct confirmatory sampling, if appropriate, of any stockpile area after removal of the lead- contaminated soil to ensure that contamination has not been left behind or has not migrated from the stockpiled material to the surrounding soils. Caltrans shall ensure that test results are kept with Caltrans project records located at the District office or a subsequent permanent location and are available to DTSC upon request.

n) Caltrans shall stockpile lead-contaminated soil only on high ground (i.e. no sump areas or low points) which will not be affected by surface water run-on or run-off.

o) Caltrans shall not stockpile soil in an environmentally sensitive area.

p) Caltrans shall ensure that run-off which has come into contact with stockpiled lead-contaminated soil will not flow to storm drains, inlets, or waters of the state.

q) Caltrans may move lead-contaminated soil from one Caltrans project to another Caltrans project so long as the lead-contaminated soil remains within the same designated Caltrans corridor. Caltrans shall record this movement of lead- contaminated soil by using a bill of lading. The bill of lading must contain: 1) US DOT description including shipping name, hazard class and ID number; 2) handling codes; 3) quantity of material; 4) volume of material; and 5) any specific handling instructions. The bill of lading shall be referenced in and kept on file with the project's as-built drawings. Lead-contaminated soil must be kept covered during transportation.

r) For each specific corridor where this variance is to be implemented, all of the following information will be submitted in writing to DTSC at least five (5) days before construction of any project begins:

1. a plan drawing designating the boundaries of the corridor where lead-contaminated soils will be excavated, stockpiled, buried and covered;

2. a list of the Caltrans projects that the corridor encompasses;

3. a list of Caltrans contractors that will be conducting any phase of work on any project affected by this variance;

4. duration of corridor construction;

5. location where sampling and analytical data used to make lead concentration level determinations are kept (e.g. a particular Caltrans project file);

6. name and phone number (please include area code) of project resident engineer and project manager;

7. location where Caltrans and contractor health and safety records are kept;

8. location of project special provisions (including page or section number) for soil excavation, transportation, stockpile, burial and placement of cover material;

9. location of project drawings (including drawing page number) for soil excavation, burial and placement of cover in plan and cross section (For example, "The project plans are located at the resident engineer's office located at 5th and Main Streets, City of Fresno,. See pages xxxxx of contract xxxx");

10. If a Caltrans project within the corridor is added, changed or deleted, Caltrans must update the information provided to DTSC five (5) days before construction begins; and

11. The type of environmental document for each project, date of adoption, document title, Clearing House number and where the document is available for review. A copy of the Notice of Exemption for any project shall be submitted to the DTSC Headquarters Project Manager within five (5) days of signing.

s) Changes in location of lead-contaminated soil placement, quantities or protection measures (field changes) will be noted in the resident engineer's project log within five (5) days of the field change.

t) Caltrans shall ensure that field changes are in compliance with the requirements of this variance.

u) If areas subject to the terms of this variance are sold, relinquished or abandoned (including roadways), all future property owners shall be notified in writing in advance by Caltrans of the requirements of this variance, and Caltrans shall provide the owner with a copy of the variance. A copy of such a notice shall be sent to and contain the corridor location and project. Caltrans shall also disclose to the new owner the location of areas where lead contaminated soil has been buried. Future property owners will be subject to the same requirements as Caltrans retains the right to modify or revoke this variance pursuant to HSC 25143 upon a change of ownership or at any other time.

v) For the purposes of informing the public about instances where the variance is implemented, Caltrans shall:

1. Maintain current fact sheets at all Caltrans resident engineer offices and the Caltrans District office. Caltrans shall make the fact sheets available to anyone expressing an interest in variance-related work.

2. Maintain a binder(s) containing copies of all reports submitted to DTSC at the District office. Caltrans shall ensure that the binders are readily accessible to the public.

3. Carry out the following actions when it identifies additional projects:

(A) Notify the public via a display advertisement in a newspaper of general circulation in that area.

(B) Update and distribute the fact sheet to the mailing list and repository locations.

w) Caltrans implementation of this variance shall comply with all applicable state policies for water quality control, water quality control plans, waste discharge requirements (including storm water permits), and others issued by the State Water Resources Control Board or a California Regional Water Quality Control Board.

x) This variance is applicable only to soil considered hazardous because of aerially-deposited lead contamination. The variance is not applicable to any other hazardous waste.

y) Lead-contaminated soil may be buried only in areas where access is limited or where lead-contaminated soil is covered and contained by a pavement structure.

1) Dust containing lead-contaminated soil must be controlled. Water or dust palliative may be applied to control dust. If visible dust migration occurs, all excavation, stockpiling and truck loading and burying must be stopped. The granting of this variance confers no relief on Caltrans from compliance with the laws, regulations and requirements enforced by any local air district or the California Air Resources Board.

2) Sampling and analysis is required to show the lead contaminated soil meets the variance criteria specified in a). All sampling and analysis must be done according to U.S. EPA subsection SW-846.

z) All correspondence shall be directed to the following office:

Frederick S. Moss, Chief
Permitting Division
Department of Toxic Substances Control
400 P Street, 4th Floor
P.O. Box 806
Sacramento, CA 95812-0806

Attn: Caltrans Lead Variance Notification Unit

10. DISCLAIMER.

10.1 The issuance of this variance does not relieve Caltrans of the responsibility for compliance with Division 20, Chapter 6.5, HSC, or the regulations adopted thereunder, and any other laws and regulations other than those specifically identified in Section 8 of this variance. Caltrans is subject to all terms and conditions herein. The granting of this variance confers no relief from compliance with any federal, state or local requirements other than those specifically provided herein.

10.2 The issuance of this variance does not release Caltrans from any liability associated with the handling of hazardous waste, except as specifically provided herein and subject to all terms and conditions of this variance.

11. VARIANCE MODIFICATION OR REVOCATION. This variance is subject to review at the discretion of DTSC and may be modified or revoked at any time pursuant to Health and Safety Code section 25143.

12. CEQA DETERMINATION. DTSC adopted a Negative Declaration on September 22, 2000.

Approved:

9/22/00
Date

Frederick S. Moss
Frederick S. Moss, Chief
Permitting Division
Hazardous Waste Management Program
Department of Toxic Substances Control

DTSC
LEGISLATIVE SUMMARY

2001 Legislative Session

A compilation of legislation from the first year of the 2001-2002 Legislative Session affecting the Department of Toxic Substances Control

State of California

Gray Davis
Governor

Winston H. Hickox
Secretary for Environmental Protection
California Environmental Protection Agency

Department of Toxic Substances Control

Edwin F. Lowry

Director

February 2002

Prepared by:
Department of Toxic Substances Control
Office of Legislation
Alan H. Gordon, Legislative Director
(916) 322-3902

Acronyms

AB	Assembly Bill
AESTM	Assembly Environmental Safety and Toxic Materials Committee
CalARP	California Accidental Release Prevention Program
Cal/EPA	California Environmental Protection Agency
CEQA	California Environmental Quality Act
CLEAN	Cleanup Loans and Environmental Assistance to Neighborhoods
DTSC	Department of Toxic Substances Control
FAIR	Financial Assurance and Insurance for Redevelopment
PUC	Public Utilities Commission
SB	Senate Bill
SEQ	Senate Environmental Quality Committee
SPER	Senate Public Employment and Retirement Committee
State	The State of California

[At page 9, http://www.dtsc.ca.gov/LawsRegulationsPolicies/Legislative_Summary_01.pdf]

AB 414 Dutra – Hazardous Waste Disposal: Lead: Nickel: Copper (Stats. 2001, ch. 861) URGENCY

AB 414 exempts a State or local agency from the existing law prohibiting the disposal, at other than a hazardous waste disposal facility, of soil contaminated with lead in excess of 350 parts per million. The bill also extends the sunset date on the disposal restrictions on wastes contaminated with specified levels of lead, copper, or nickel from July 1, 2003, to July 1, 2006.

BILL NUMBER: AB 414CHAPTERED
BILL TEXT

CHAPTER 861
FILED WITH SECRETARY OF STATE OCTOBER 14, 2001
APPROVED BY GOVERNOR OCTOBER 13, 2001
PASSED THE ASSEMBLY AUGUST 30, 2001
PASSED THE SENATE AUGUST 23, 2001
AMENDED IN SENATE JULY 19, 2001
AMENDED IN ASSEMBLY APRIL 17, 2001
AMENDED IN ASSEMBLY MARCH 29, 2001

INTRODUCED BY Assembly Member Dutra

FEBRUARY 20, 2001

An act to amend Section 25157.8 of the Health and Safety Code, relating to hazardous waste, and declaring the urgency thereof, to take effect immediately.

LEGISLATIVE COUNSEL'S DIGEST

AB 414, Dutra. Hazardous waste disposal: lead: nickel: copper.

(1) Existing law prohibits, until July 1, 2003, any person from disposing of waste that contains specified concentrations of lead, copper, or nickel to land, except as specified, until the appropriate California regional water quality control board amends the solid waste facility's waste discharge requirements and the appropriate local enforcement agency revises the solid waste facility's permit.

Existing law also prohibits, until July 1, 2003, any person from disposing hazardous waste to land in any facility that is not a class I hazardous waste disposal facility, until the Department of Toxic Substances Control issues a variance, the appropriate California regional water quality control board amends the solid waste facility's waste discharge requirements, and the appropriate local enforcement agency revises the solid waste facility's permit. Existing law excludes, from that land disposal prohibition, wastes disposed pursuant to a variance issued before August 21, 1998, or pursuant to a variance for the disposal of special waste. A violation of the hazardous waste control laws is a crime.

This bill would extend the date of the repeal of these prohibitions until July 1, 2006, thereby imposing a state-mandated local program by extending the operation of a crime.

The bill would additionally exempt the wastes that are excluded under existing law from the hazardous waste land disposal prohibition, from the prohibition on the disposal of wastes containing specified concentrations of lead, copper, or nickel. The bill would also exempt, from both of these prohibitions, wastes disposed of pursuant to a variance issued by the department to a state or local agency for the disposal of lead-contaminated soils, if the disposal is only within the operating right-of-way of an existing highway. The bill would specify that this exemption applies to lead-contaminated soil that is moved

from one project to another, only if the lead-contaminated soil is managed, as specified.

(2) The California Constitution requires the state to reimburse local agencies and school districts for certain costs mandated by the state. Statutory provisions establish procedures for making that reimbursement.

This bill would provide that no reimbursement is required by this act for a specified reason.

(3) The bill would declare that it is to take effect immediately as an urgency statute.

THE PEOPLE OF THE STATE OF CALIFORNIA DO ENACT AS FOLLOWS:

SECTION 1. Section 25157.8 of the Health and Safety Code is amended to read:

25157.8. (a) Except as provided in subdivision (c), on and after January 1, 1999, no person shall dispose waste that contains total lead in excess of 350 parts per million, copper in excess of 2500 parts per million, or nickel in excess of 2000 parts per million to land at other than a class I hazardous waste disposal facility, unless the waste is disposed at the site of generation pursuant to express approval of the regional water quality control board granted prior to August 21, 1998, and the waste was classified as nonhazardous at that time, until both of the following occur:

(1) The appropriate California regional water quality control board has amended the solid waste facility's waste discharge requirements to specifically allow disposal of the waste.

(2) The appropriate local enforcement agency has revised the solid waste facility permit of the facility to specifically allow this disposal pursuant to Chapter 3 (commencing with Section 44001) of Part 4 of Division 30 of the Public Resources Code.

(b) Except as provided in subdivision (c), no person shall dispose any material to land at other than a class I hazardous waste disposal facility, if the material is regulated as a hazardous waste by the department, until all of the following have occurred:

(1) The department has issued a variance pursuant to Section 25143 to specifically allow disposal of the material to a disposal facility other than a class I hazardous waste disposal facility.

(2) The appropriate California regional water quality control board has amended the solid waste facility's waste discharge requirements to specifically allow disposal of the material.

(3) The appropriate local enforcement agency has revised the solid waste facility permit of the facility at which the material is proposed to be disposed to specifically allow this disposal pursuant to Chapter 3 (commencing with Section 44001) of Part 4 of Division 30 of the Public Resources Code.

(c) This section does not apply to any of the following:

(1) Wastes that are disposed of pursuant to a variance issued by the department prior to August 21, 1998.

(2) Wastes that are disposed of pursuant to a variance issued by the department and that the department classified and managed as a "special waste" pursuant to regulations adopted by the department that were in effect on August 21, 1998.

(3) Wastes disposed of pursuant to a variance issued to a state or local agency by the department pursuant to Section 25143 for the disposal of lead contaminated soil, if the disposal is only within the operating right-of-way of an existing highway, as defined in Section 23 of the Streets and Highways Code. This paragraph applies to lead-contaminated soil that is moved from one project to another only if the lead-contaminated soil remains within the designated, contiguously contaminated corridor and within the same transportation district for which the department has specifically issued the variance.

(d) This section does not exempt any state or local agency, or any other person, from any conditions or requirements of a California regional water quality control board, or any other agency, that may be placed on the reuse or disposal of waste pursuant to a variance issued by the department.

(e) This section shall remain in effect until July 1, 2006, and as of that date is repealed unless a later enacted statute repeals or extends that date.

SEC. 2. No reimbursement is required by this act pursuant to Section 6 of Article XIIIB of the California Constitution because the only costs that may be incurred by a local agency or school district will be incurred because this act creates a new crime or infraction, eliminates a crime or infraction, or changes the penalty for a crime or infraction, within the meaning of Section 17556 of the Government Code, or changes the definition of a crime within the meaning of Section 6 of Article XIIIB of the California Constitution.

SEC. 3. This act is an urgency statute necessary for the immediate preservation of the public peace, health, or safety within the meaning of Article IV of the Constitution and shall go into immediate effect. The facts constituting the necessity are:

In order to extend the operation of a prohibition on the disposal on land of lead, copper, and nickel except in accordance with specified provisions and in order for various state and transportation agencies to take advantage of the benefits of this act for the construction of freeway projects that have already been planned, designed, and funded as soon as possible, it is necessary for this act to take effect immediately.

[Web site address at: http://info.sen.ca.gov/pub/bill/asm/ab_0401-0450/ab_414_bill_20011014_chaptered.html]

AB 414 Dutra Hazardous waste disposal: lead: nickel: copper
Chaptered # 0861 10/14/2001

Existing law prohibits, until July 1, 2003, any person from disposing of waste that contains specified concentrations of lead, copper, or nickel to land, except as specified, until the appropriate California regional water quality control board amends the solid waste facility's waste discharge requirements and the appropriate local enforcement agency revises the solid waste facility's permit. This bill would extend the date of the repeal of these prohibitions until July 1, 2006, thereby imposing a state-mandated local program by extending the operation of a crime. This bill contains other related provisions and other existing laws.

[Web site address at: http://www.calepa.ca.gov/Legislation/2001/Chaptered.htm]

Department of Toxic Substances Control

Edwin F. Lowry, Director
1001 "I" Street, 25th Floor
P.O. Box 806
Sacramento, California 95812-0806

RECEIVED DEC 1 9 2002

Winston H. Hickox
Agency Secretary
California Environmental
Protection Agency

Gray Davis
Governor

AESCO

MAR 25 2003

AESCO Technologies, Inc.

Copy to: All parties.
Lead is: John Yang

December 13, 2002

Mr. Robert Sassaman
District Director
California Department of Transportation, District 7
120 South Spring Street
Los Angeles, California 90012

CALTRANS LEAD CONTAMINATED SOIL VARIANCE MODIFICATION, DISTRICT 7.

Dear Mr. Sassaman:

This letter concerns the lead contaminated soil variance the Department of Toxic Substances Control (DTSC) issued to Caltrans, District 7 (the District) on September 22, 2000. The variance governs the District's management of soil that contains aerially deposited lead. DTSC has conducted a new risk assessment in the course of processing another variance application from Caltrans. The new risk assessment shows the total lead levels specified in the District's current variance are somewhat higher than the new recommended levels. Therefore, conditions 9.a.1 and 2 in the District's variance have been modified to incorporate the new recommended lead levels and provide more clarity. Specifically, the following paragraphs shall replace the existing sections in the variances:

9.a.1. Lead contaminated soil containing 500 ug/l extractible lead or less (based on a modified waste extraction test using deionized water as the extractant) and 1411 mg/kg or less total lead may be used as fill provided that this soil is placed a minimum of five (5) feet above the maximum water table elevation and covered with at least one (1) foot of nonhazardous soil.

9.a.2. Lead contaminated soil containing more than 500 ug/l and less than 50 mg/l extractible lead (based on a modified waste extraction test using deionized water as the extractant) and more than 1411 mg/kg total lead but less than 3397 mg/kg total lead may be used as fill provided that this soil is placed a minimum of five (5) feet above the maximum water table elevation and protected from infiltration by a pavement structure which will be maintained by Caltrans.

The energy challenge facing California is real. Every Californian needs to take immediate action to reduce energy consumption. For a list of simple ways you can reduce demand and cut your energy costs, see our Web-site at www.dtsc.ca.gov.

Printed on Recycled Paper

Effective upon receipt of this modification language, all new projects conducted pursuant to the District's variance shall be required to use the modified lead levels specified above. This letter will formally modify the variance issued to the District and shall be attached as addendum to the existing variance.

If you have any questions or comments, please contact Mr. Michael Choe of my staff at (916) 322-5308.

Sincerely,

Frederick S. Moss

AESCO
MAR 25 2003
AESCO Technologies, Inc.

Frederick S. Moss, Chief
Permitting Division
Hazardous Waste Management Program

cc: Ms. Marge Rouch, Chief
Office of Noise, Vibration,
and Hazardous Waste Management
Department of Transportation
1120 N Street, MS 27
Sacramento, California 95814

Ms. Marilee Hanson
Office of Legal Counsel and Investigations
Department of Toxic Substances Control
P.O. Box 806
Sacramento, California 95812-0806

Mr. Jan Radimsky, P.E., Chief
Permit Streamlining Branch
Department of Toxic Substances Control
P.O. Box 806
Sacramento, California 95812-0806

Mr. David Wright, P.E., Chief
Permit Program Development Section
Department of Toxic Substances Control
P.O. Box 806
Sacramento, California 95812-0806

Appendix

ADL Boring Location Plans & Aerial Photographs

Appendix

Results from Associated Laboratory

C

ASSOCIATED LABORATORIES
806 North Batavia – Orange, California 92868 – 714-771-6900 *FAX 714-538-1209*

Date: February 27, 2003

AESCO
MAR 11 2003
AESCO Technologies, Inc.

To: Adam Chamaa
Aesco Technologies
FAX 714-593-0022

From: Jim McCall
QA Director

Subject: EPA 9045 Test Method

Caltrans is correct in stating that EPA Method 9045 should be used for pH measurements in soil samples. In fact, this is the method that was used for the pH measurements of the submitted soil samples in the laboratory.

The samples were mistakenly logged into the computer system for testing by EPA 150.1, which of course is intended for water samples. The Lab Reports will be corrected for the correct method.

I apologize for any inconvenience this may have caused.

Sincerely,

James McCall, Jr.
QA Director

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT AESCO Technologies (9650)
ATTN: Adam Chamaa
18548 Beach Blvd.
Huntington Beach, CA 92648

LAB REQUEST 99943

REPORTED 10/28/2002
RECEIVED 10/02/2002

PROJECT #20020155-1 (4)
ADL Study @ Route 170

SUBMITTER Client

COMMENTS Added TCLP Lead to order #382221, 237, 241, 242, 247, 256, 257 and 260 on 12-2-02.
Added TCLP Lead to order #382229-231 on 12-17-02. Added Pb Duplicates for 221, 229, 231, 244, new numbers are 243-246 per DJ 12-31-02 AV. 01/02/03- Add duplicates for samples 382221, 382229, 382231, 382244.
Added 404303 & 304 ad DUP's for 382242 & 247 on 1/7/03.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
382221	577-177-.15
382222	577-177-.45
382223	577-177-.75
382224	577-177-1.50
382225	577-179-.15
382226	577-179-.45
382227	577-179-.75

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

CLIENT AESCO Technologies (9650)
ATTN: Adam Chamaa
18548 Beach Blvd.
Huntington Beach, CA 92648

LAB REQUEST 99943

REPORTED 10/28/2002
RECEIVED 10/02/2002

PROJECT #20020155-1 (4)
ADL Study @ Route 170

SUBMITTER Client

COMMENTS Added TCLP Lead to order #382221, 237, 241, 242, 247, 256, 257 and 260 on 12-2-02.
Added TCLP Lead to order #382229-231 on 12-17-02. Added Pb Duplicates for 221, 229, 231, 244, new numbers are 243-246 per DJ 12-31-02 AV. 01/02/03- Add duplicates for samples 382221, 382229, 382231, 382244.
Added 404303 & 304 ad DUP's for 382242 & 247 on 1/7/03.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
382228	577-179-1.50
382229	577-178-.15
382230	577-178-.45
382231	577-178-.75
382232	577-178-1.50
382233	577-178-000
382234	577-176-.15
382235	577-176-.45
382236	577-176-.75
382237	577-176-1.50
382238	577-175-.15
382239	577-175-.45
382240	577-175-.75
382241	577-175-1.50
382242	577-174-.15

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

CLIENT AESCO Technologies (9650)
ATTN: Adam Chamaa
18548 Beach Blvd.
Huntington Beach, CA 92648

LAB REQUEST 99943

REPORTED 10/28/2002
RECEIVED 10/02/2002

PROJECT #20020155-1 (4)
ADL Study @ Route 170

SUBMITTER Client

COMMENTS Added TCLP Lead to order #382221, 237, 241, 242, 247, 256, 257 and 260 on 12-2-02.
Added TCLP Lead to order #382229-231 on 12-17-02. Added Pb Duplicates for 221, 229, 231, 244, new numbers are 243-246 per DJ 12-31-02 AV. 01/02/03- Add duplicates for samples 382221, 382229, 382231, 382244.
Added 404303 & 304 ad DUP's for 382242 & 247 on 1/7/03.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
382243	577-174-.45
382244	577-174-.75
382245	577-174-1.50
382246	577-174-000
382247	577-173-.15
382248	577-173-.45
382249	577-173-.75
382250	577-173-1.50
382251	577-172-.15
382252	577-172-.45
382253	577-172-.75
382254	577-172-1.50
382255	577-171-.15
382256	577-171-.45
382257	577-171-.75

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT AESCO Technologies (9650)
ATTN: Adam Chamaa
18548 Beach Blvd.
Huntington Beach, CA 92648

LAB REQUEST 99943

REPORTED 10/28/2002
RECEIVED 10/02/2002

PROJECT #20020155-1 (4)
ADL Study @ Route 170

SUBMITTER Client

COMMENTS Added TCLP Lead to order #382221, 237, 241, 242, 247, 256, 257 and 260 on 12-2-02.
Added TCLP Lead to order #382229-231 on 12-17-02. Added Pb Duplicates for 221, 229, 231, 244, new numbers are 243-246 per DJ 12-31-02 AV. 01/02/03- Add duplicates for samples 382221, 382229, 382231, 382244.
Added 404303 & 304 ad DUP's for 382242 & 247 on 1/7/03.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
382258	577-171-1.50
382259	577-171-000
382260	577-170-.15
382261	577-170-.45
382262	577-170-.75
382263	577-170-1.50
382264	577-170-000
382265	Laboratory Method Blank-S
382266	Laboratory Method Blank-W
403243	577-177-.15
403244	577-178-.15
403245	577-178-.75
403246	577-174-.75
404303	577-173-.15 Dup
404304	577-174-.15 Dup

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 382221 **Client Sample ID:** 577-177-.15
Matrix: SOLID

Time Sampled: 09:00

Analyte	Result	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA					
Lead TCLP	1.07	0.2	mg/L	12/04/02	NK
150.1 pH					
pH	8.14		NA	10/03/02	EL
7420 Lead by Atomic Absorption					
Lead	444	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA					
Lead DI-STLC	0.26	0.2	mg/L	10/17/02	NK
7420 STLC Lead by AA					
Lead STLC	37.3	1.0	mg/L	10/08/02	NK

der #: 382222 **Client Sample ID:** 577-177-.45
Matrix: SOLID

Time Sampled: 09:00

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	16.8	10.0	mg/Kg	10/03/02	NK

Order #: 382223 **Client Sample ID:** 577-177-.75
Matrix: SOLID

Time Sampled: 09:00

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	ND	10.0	mg/Kg	10/03/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Order #: 382224 **Client Sample ID:** 577-177-1.50
Matrix: SOLID

Time Sampled: 09:00

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	ND	10.0	mg/Kg	10/03/02	NK

Order #: 382225 **Client Sample ID:** 577-179-.15
Matrix: SOLID

Time Sampled: 09:10

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	ND	10.0	mg/Kg	10/03/02	NK

Order #: 382226 **Client Sample ID:** 577-179-.45
Matrix: SOLID

Time Sampled: 09:10

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	ND	10.0	mg/Kg	10/03/02	NK

Order #: 382227 **Client Sample ID:** 577-179-.75
Matrix: SOLID

Time Sampled: 09:10

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	14.3	10.0	mg/Kg	10/03/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Order #: 382228 **Client Sample ID:** 577-179-1.50
Matrix: SOLID

Time Sampled: 09:10

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	ND	10.0	mg/Kg	10/03/02	NK

Order #: 382229 **Client Sample ID:** 577-178-.15
Matrix: SOLID

Time Sampled: 09:25

Analyte	Result	DLR	Units	Date/Analyst	
1311/6010B TCLP (ICP Metals)					
Lead TCLP	0.817	0.005	mg/L	12/18/02	KN
7420 Lead by Atomic Absorption					
Lead	461	100.0	mg/Kg	10/03/02	NK
9 DI-STLC Lead by AA					
Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK
7420 STLC Lead by AA					
Lead STLC	30.6	1.0	mg/L	10/08/02	NK

Order #: 382230 **Client Sample ID:** 577-178-.45
Matrix: SOLID

Time Sampled: 09:25

Analyte	Result	DLR	Units	Date/Analyst	
1311/6010B TCLP (ICP Metals)					
Lead TCLP	0.279	0.005	mg/L	12/18/02	KN
7420 Lead by Atomic Absorption					
Lead	358	10.0	mg/Kg	10/03/02	NK
20 DI-STLC Lead by AA					

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK

7420 STLC Lead by AA

Lead STLC	17.9	1.0	mg/L	10/08/02	NK

Order #: 382231 **Client Sample ID:** 577-178-.75
Matrix: SOLID

Time Sampled: 09:25

Analyte	Result	DLR	Units	Date/Analyst	
1311/6010B TCLP (ICP Metals)					
Lead TCLP	0.288	0.005	mg/L	12/18/02	KN
7420 Lead by Atomic Absorption					
Lead	250	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA					
Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK
7420 STLC Lead by AA					
Lead STLC	25.4	1.0	mg/L	10/08/02	NK

Order #: 382232 **Client Sample ID:** 577-178-1.50
Matrix: SOLID

Time Sampled: 09:25

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	169	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA					
Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK
7420 STLC Lead by AA					
Lead STLC	10.3	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Order #: 382233 **Client Sample ID:** 577-178-000
Matrix: WATER

Time Sampled: 09:25

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	ND	0.2	mg/L	10/03/02	NK

Order #: 382234 **Client Sample ID:** 577-176-.15
Matrix: SOLID

Time Sampled: 09:35

Analyte	Result	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA					
Lead TCLP	0.99	0.2	mg/L	10/08/02	NK
150.1 pH					
pH	7.57		NA	10/03/02	EL
0B ICP CAM Metals Only (16 Metals)					
Antimony	4.04	3.0	mg/Kg	10/17/02	KN
Arsenic	5.28	0.5	mg/Kg	10/17/02	KN
Barium	167	1.0	mg/Kg	10/17/02	KN
Beryllium	ND	0.5	mg/Kg	10/17/02	KN
Cadmium	1.61	0.5	mg/Kg	10/17/02	KN
Chromium	28.9	1.0	mg/Kg	10/17/02	KN
Cobalt	11.1	0.5	mg/Kg	10/17/02	KN
Copper	122	1.0	mg/Kg	10/17/02	KN
Lead	1750	0.5	mg/Kg	10/17/02	KN
Molybdenum	6.12	1.0	mg/Kg	10/17/02	KN
Nickel	20.6	1.5	mg/Kg	10/17/02	KN
Selenium	4.76	1.0	mg/Kg	10/17/02	KN
Silver	ND	0.5	mg/Kg	10/17/02	KN
Thallium	ND	1.0	mg/Kg	10/17/02	KN
Vanadium	51.4	0.5	mg/Kg	10/17/02	KN
Zinc	434	5.0	mg/Kg	10/17/02	KN
7420 Lead by Atomic Absorption					
Lead	2440	100.0	mg/Kg	10/03/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

7471A Mercury in Solid

Mercury	ND	0.14	mg/Kg	10/16/02 MDJ

ler #: 382235 **Client Sample ID:** 577-176-.45
atrix: SOLID

Time Sampled: 09:35

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	47.5	10.0	mg/Kg	10/03/02 NK

Order #: 382236 **Client Sample ID:** 577-176-.75
Matrix: SOLID

Time Sampled: 09:35

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	59.2	10.0	mg/Kg	10/03/02 NK
.0 STLC Lead by AA				
Lead STLC	4.00	1.0	mg/L	10/08/02 NK

Order #: 382237 **Client Sample ID:** 577-176-1.50
Matrix: SOLID

Time Sampled: 09:35

Analyte	Result	DLR	Units	Date/Analyst
1311/7420 TCLP Lead by AA				
Lead TCLP	0.74	0.2	mg/L	12/04/02 NK
7420 Lead by Atomic Absorption				
Lead	366	10.0	mg/Kg	10/03/02 NK
7420 DI-STLC Lead by AA				
Lead DI-STLC	ND	0.2	mg/L	10/17/02 NK

420 STLC Lead by AA

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Lead STLC	22.6	1.0	mg/L	10/08/02	NK

Order #: 382238 **Client Sample ID:** 577-175-.15

rix: SOLID

ime Sampled: 09:45

Analyte	Result	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA					
Lead TCLP	1.63	0.2	mg/L	10/08/02	NK
6010B ICP CAM Metals Only (16 Metals)					
Antimony	ND	3.0	mg/Kg	10/17/02	KN
Arsenic	2.26	0.5	mg/Kg	10/17/02	KN
Barium	161	1.0	mg/Kg	10/17/02	KN
Beryllium	ND	0.5	mg/Kg	10/17/02	KN
Cadmium	1.39	0.5	mg/Kg	10/17/02	KN
Chromium	25.8	1.0	mg/Kg	10/17/02	KN
Cobalt	10.7	0.5	mg/Kg	10/17/02	KN
Copper	68.7	1.0	mg/Kg	10/17/02	KN
Lead	1550	0.5	mg/Kg	10/17/02	KN
Molybdenum	3.12	1.0	mg/Kg	10/17/02	KN
Nickel	18.4	1.5	mg/Kg	10/17/02	KN
Selenium	3.72	1.0	mg/Kg	10/17/02	KN
Silver	ND	0.5	mg/Kg	10/17/02	KN
Thallium	ND	1.0	mg/Kg	10/17/02	KN
Vanadium	48.3	0.5	mg/Kg	10/17/02	KN
Zinc	314	5.0	mg/Kg	10/17/02	KN
7420 Lead by Atomic Absorption					
Lead	2090	100.0	mg/Kg	10/03/02	NK
7471A Mercury in Solid					
Mercury	ND	0.14	mg/Kg	10/16/02	MDJ

Order #: 382239 **Client Sample ID:** 577-175-.45

Matrix: SOLID

Time Sampled: 09:45

Analyte	Result	DLR	Units	Date/Analyst

20 Lead by Atomic Absorption

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Lead	141	10.0	mg/Kg	10/03/02	NK

7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK

[illegible]0 STLC Lead by AA

Lead STLC	9.05	1.0	mg/L	10/08/02	NK

Order #: 382240 **Client Sample ID:** 577-175-.75
Matrix: SOLID

Time Sampled: 09:45

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	24.4	10.0	mg/Kg	10/03/02	NK

Order #: 382241 **Client Sample ID:** 577-175-1.50
Matrix: SOLID

Time Sampled: 09:45

Analyte	Result	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA					
Lead TCLP	1.56	0.2	mg/L	12/04/02	NK
7420 Lead by Atomic Absorption					
Lead	811	100.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA					
Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK
7420 STLC Lead by AA					
Lead STLC	43.8	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Order #: 382242 **Client Sample ID:** 577-174-.15
Matrix: SOLID

Time Sampled: 09:50

Analyte	Result	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA					
Lead TCLP	0.55	0.2	mg/L	12/04/02	NK
7420 Lead by Atomic Absorption					
Lead	745	100.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA					
Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK
7420 STLC Lead by AA					
Lead STLC	29.8	1.0	mg/L	10/08/02	NK

Order #: 382243 **Client Sample ID:** 577-174-.45
Matrix: SOLID

Time Sampled: 09:50

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	224	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA					
Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK
7420 STLC Lead by AA					
Lead STLC	17.0	1.0	mg/L	10/08/02	NK

Order #: 382244 **Client Sample ID:** 577-174-.75
Matrix: SOLID

Time Sampled: 09:50

Analyte	Result	DLR	Units	Date/Analyst

20 Lead by Atomic Absorption

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Lead	110	10.0	mg/Kg	10/03/02 NK

7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	10/17/02 NK

7420 STLC Lead by AA

Lead STLC	11.8	1.0	mg/L	10/08/02 NK

Order #: 382245 **Client Sample ID:** 577-174-1.50
Matrix: SOLID

Time Sampled: 09:50

Analyte	Result	DLR	Units	Date/Analyst

7420 Lead by Atomic Absorption

Lead	26.2	10.0	mg/Kg	10/03/02 NK

Order #: 382246 **Client Sample ID:** 577-174-000
Matrix: WATER

Time Sampled: 09:50

Analyte	Result	DLR	Units	Date/Analyst

7420 Lead by Atomic Absorption

Lead	ND	0.2	mg/L	10/03/02 NK

Order #: 382247 **Client Sample ID:** 577-173-.15
Matrix: SOLID

Time Sampled: 10:15

Analyte	Result	DLR	Units	Date/Analyst

1311/7420 TCLP Lead by AA

Lead TCLP	0.30	0.2	mg/L	12/04/02 NK

7420 Lead by Atomic Absorption

Lead	766	100.0	mg/Kg	10/03/02 NK

7420 DI-STLC Lead by AA

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK

7420 STLC Lead by AA

Lead STLC	33.7	1.0	mg/L	10/08/02	NK

Order #: 382248 **Client Sample ID:** 577-173-.45
Matrix: SOLID

Time Sampled: 10:15

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	81.9	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA					
Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK
7420 STLC Lead by AA					
Lead STLC	5.15	1.0	mg/L	10/08/02	NK

Order #: 382249 **Client Sample ID:** 577-173-.75
Matrix: SOLID

Time Sampled: 10:15

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	56.4	10.0	mg/Kg	10/03/02	NK
7420 STLC Lead by AA					
Lead STLC	2.20	1.0	mg/L	10/08/02	NK

Order #: 382250 **Client Sample ID:** 577-173-1.50
Matrix: SOLID

Time Sampled: 10:15

Analyte	Result	DLR	Units	Date/Analyst	
150.1 pH					
pH	7.69		NA	10/03/02	EL

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

7420 Lead by Atomic Absorption

Lead	61.2	10.0	mg/Kg	10/03/02	NK

) DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	10/25/02	NK

7420 STLC Lead by AA

Lead STLC	7.80	1.0	mg/L	10/08/02	NK

Order #: 382251 **Client Sample ID:** 577-172-.15

Matrix: SOLID

Time Sampled: 10:25

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	114	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA					
Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK
20 STLC Lead by AA					
Lead STLC	9.00	0.2	mg/L	10/08/02	NK

Order #: 382252 **Client Sample ID:** 577-172-.45

Matrix: SOLID

Time Sampled: 10:25

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	146	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA					
Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK
7420 STLC Lead by AA					
Lead STLC	7.75	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Order #: 382253 **Client Sample ID:** 577-172-.75
Matrix: SOLID

Time Sampled: 10:25

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	ND	10.0	mg/Kg	10/03/02	NK

Order #: 382254 **Client Sample ID:** 577-172-1.50
Matrix: SOLID

Time Sampled: 10:25

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	149	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA					
Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK
20 STLC Lead by AA					
Lead STLC	8.60	1.0	mg/L	10/08/02	NK

Order #: 382255 **Client Sample ID:** 577-171-.15
Matrix: SOLID

Time Sampled: 10:30

Analyte	Result	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA					
Lead TCLP	0.55	0.2	mg/L	10/08/02	NK
6010B ICP CAM Metals Only (16 Metals)					
Antimony	ND	3.0	mg/Kg	10/17/02	KN
Arsenic	ND	0.5	mg/Kg	10/17/02	KN
Barium	192	1.0	mg/Kg	10/17/02	KN
Beryllium	ND	0.5	mg/Kg	10/17/02	KN
Cadmium	0.958	0.5	mg/Kg	10/17/02	KN
Chromium	24.7	1.0	mg/Kg	10/17/02	KN

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Cobalt	13.5	0.5	mg/Kg	10/17/02	KN
Copper	33.5	1.0	mg/Kg	10/17/02	KN
Lead	621	0.5	mg/Kg	10/17/02	KN
Molybdenum	1.68	1.0	mg/Kg	10/17/02	KN
Nickel	15.7	1.5	mg/Kg	10/17/02	KN
Selenium	4.19	1.0	mg/Kg	10/17/02	KN
Silver	ND	0.5	mg/Kg	10/17/02	KN
Thallium	ND	1.0	mg/Kg	10/17/02	KN
Vanadium	64.0	0.5	mg/Kg	10/17/02	KN
Zinc	173	5.0	mg/Kg	10/17/02	KN

7420 Lead by Atomic Absorption

Lead	1020	100.0	mg/Kg	10/03/02	NK

7471A Mercury in Solid

Mercury	ND	0.14	mg/Kg	10/16/02	MDJ

Order #: 382256 **Client Sample ID:** 577-171-.45

Matrix: SOLID

Time Sampled: 10:30

Analyte	Result	DLR	Units	Date/Analyst	
1/7420 TCLP Lead by AA					
Lead TCLP	ND	0.2	mg/L	12/04/02	NK
7420 Lead by Atomic Absorption					
Lead	630	100.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA					
Lead DI-STLC	ND	0.2	mg/L	10/17/02	NK
7420 STLC Lead by AA					
Lead STLC	27.6	1.0	mg/L	10/08/02	NK

Order #: 382257 **Client Sample ID:** 577-171-.75

Matrix: SOLID

Time Sampled: 10:30

Analyte	Result	DLR	Units	Date/Analyst
11/7420 TCLP Lead by AA				

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Lead TCLP	ND	0.2	mg/L	12/04/02 NK

7420 Lead by Atomic Absorption

Lead	396	10.0	mg/Kg	10/03/02 NK

7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	10/17/02 NK

7420 STLC Lead by AA

Lead STLC	24.4	1.0	mg/L	10/08/02 NK

Order #: 382258 **Client Sample ID:** 577-171-1.50
Matrix: SOLID

Time Sampled: 10:30

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	27.4	10.0	mg/Kg	10/03/02 NK

der #: 382259 **Client Sample ID:** 577-171-000
atrix: WATER

Time Sampled: 10:30

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	ND	0.2	mg/L	10/03/02 NK

Order #: 382260 **Client Sample ID:** 577-170-.15
Matrix: SOLID

Time Sampled: 10:37

Analyte	Result	DLR	Units	Date/Analyst
1311/7420 TCLP Lead by AA				
Lead TCLP	0.77	0.2	mg/L	12/04/02 NK

20 Lead by Atomic Absorption

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Lead	414	10.0	mg/Kg	10/03/02 NK

7420 DI-STLC Lead by AA

Lead DI-STLC	ND	0.2	mg/L	10/17/02 NK

20 STLC Lead by AA

Lead STLC	30.8	1.0	mg/L	10/08/02 NK

Order #: 382261 **Client Sample ID:** 577-170-.45
Matrix: SOLID

Time Sampled: 10:37

Analyte	Result	DLR	Units	Date/Analyst
150.1 pH				
pH	8.12		NA	10/03/02 EL
7420 Lead by Atomic Absorption				
Lead	54.9	10.0	mg/Kg	10/03/02 NK
7420 STLC Lead by AA				
Lead STLC	3.20	1.0	mg/L	10/08/02 NK

Order #: 382262 **Client Sample ID:** 577-170-.75
Matrix: SOLID

Time Sampled: 10:37

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	27.5	10.0	mg/Kg	10/03/02 NK

Order #: 382263 **Client Sample ID:** 577-170-1.50
Matrix: SOLID

Time Sampled: 10:37

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	20.2	10.0	mg/Kg	10/03/02 NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Order #: 382264 **Client Sample ID:** 577-170-000
Matrix: WATER

.e Sampled: 10:37

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	ND	0.2	mg/L	10/03/02	NK

Order #: 382265 **Client Sample ID:** Laboratory Method Blank-S
Matrix: SOLID

Analyte	Result	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA					
Lead TCLP	ND	0.2	mg/L	12/04/02	NK
150.1 pH					
pH	6.25		NA	10/03/02	EL
6010B ICP CAM Metals Only (16 Metals)					
Antimony	ND	3.00	mg/Kg	10/17/02	NK
Arsenic	ND	0.50	mg/Kg	10/17/02	NK
Barium	ND	1.00	mg/Kg	10/17/02	NK
Beryllium	ND	0.50	mg/Kg	10/17/02	NK
Cadmium	ND	0.50	mg/Kg	10/17/02	NK
Chromium	ND	1.00	mg/Kg	10/17/02	NK
Cobalt	ND	0.50	mg/Kg	10/17/02	NK
Copper	ND	1.00	mg/Kg	10/17/02	NK
Lead	ND	0.50	mg/Kg	10/17/02	NK
Molybdenum	ND	1.00	mg/Kg	10/17/02	NK
Nickel	ND	1.50	mg/Kg	10/17/02	NK
Selenium	ND	1.00	mg/Kg	10/17/02	NK
Silver	ND	0.50	mg/Kg	10/17/02	NK
Thallium	ND	1.00	mg/Kg	10/17/02	NK
Vanadium	ND	0.50	mg/Kg	10/17/02	NK
Zinc	ND	5.00	mg/Kg	10/17/02	NK
7420 Lead by Atomic Absorption					
Lead	ND	10.0	mg/Kg	10/03/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

7471A Mercury in Solid

Mercury	ND	0.14	mg/Kg	10/16/02 MDJ

Order #: 382266 **Client Sample ID:** Laboratory Method Blank-W
Matrix: WATER

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	ND	0.2	mg/L	10/03/02 NK

Order #: 403243 **Client Sample ID:** 577-177-.15
Matrix: SOLID

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	495	10.0	mg/Kg	01/02/03 NK

Order #: 403244 **Client Sample ID:** 577-178-.15
Matrix: SOLID

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	342	10.0	mg/Kg	01/02/03 NK

Order #: 403245 **Client Sample ID:** 577-178-.75
Matrix: SOLID

Analyte	Result	DLR	Units	Date/Analyst
7420 Lead by Atomic Absorption				
Lead	237	10.0	mg/Kg	01/02/03 NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

Order #: 403246 **Client Sample ID:** 577-174-.75
Matrix: SOLID

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	209	10.0	mg/Kg	01/02/03	NK

Order #: 404303 **Client Sample ID:** 577-173-.15 Dup
Matrix: SOLID

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	378	10.0	mg/Kg	01/09/03	NK

Order #: 404304 **Client Sample ID:** 577-174-.15 Dup
Matrix: SOLID

Analyte	Result	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption					
Lead	466	10.0	mg/Kg	01/09/03	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT AESCO Technologies (9650)
ATTN: Adam Chamaa
18548 Beach Blvd.
Huntington Beach, CA 92648

LAB REQUEST 99942

REPORTED 10/25/2002
RECEIVED 10/02/2002

PROJECT #20020155-1 (1)
ADL Study @ Route 134

SUBMITTER Client

COMMENTS Added TCLP Lead to order #382197, 202, 204, 206, 210, 211, 214 and pH to 382202, 216 CAM Metals to 382201, 206 on 12-2-02.
Added CAM Metals to order #382210 and 214 on 12-13-02. Add dup lead for sample 382202.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
382197	577-219-.15
382198	577-219-.45
382199	577-219-.75
382200	577-219-1.50
382201	577-216-.15
382202	577-216-.45

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT AESCO Technologies (9650)
ATTN: Adam Chamaa
18548 Beach Blvd.
Huntington Beach, CA 92648

LAB REQUEST 99942

REPORTED 10/25/2002
RECEIVED 10/02/2002

PROJECT #20020155-1 (1)
ADL Study @ Route 134

SUBMITTER Client

COMMENTS Added TCLP Lead to order #382197, 202, 204, 206, 210, 211, 214 and pH to 382202, 216 CAM Metals to 382201, 206 on 12-2-02.
Added CAM Metals to order #382210 and 214 on 12-13-02. Add dup lead for sample 382202.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
382203	577-216-.75
382204	577-216-1.50
382205	577-215-.15
382206	577-215-.45
382207	577-215-.75
382208	577-215-1.50
382209	577-215-000
382210	577-218-.15
382211	577-218-.45
382212	577-218-.75
382213	577-218-1.50
382214	577-217-.15

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT AESCO Technologies (9650)

ATTN: Adam Chamaa

18548 Beach Blvd.

Huntington Beach, CA 92648

LAB REQUEST 99942

REPORTED 10/25/2002

RECEIVED 10/02/2002

PROJECT #20020155-1 (1)
ADL Study @ Route 134

SUBMITTER Client

COMMENTS Added TCLP Lead to order #382197, 202, 204, 206, 210, 211, 214 and pH to 382202, 216 CAM Metals to 382201, 206 on 12-2-02.
Added CAM Metals to order #382210 and 214 on 12-13-02. Add dup lead for sample 382202.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
382215	577-217-.45
382216	577-217-.75
382217	577-217-1.50
382218	577-217-000
382219	Laboratory Method Blank-S
382220	Laboratory Method Blank-W
403247	577-216-.45 Dup

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 382197
Matrix: SOLID
Date Sampled:
Time Sampled: 13:00
mpled By:

Client: AESCO Technologies
Client Sample ID: 577-219-.15

Analyte	Result	DF	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA						
Lead TCLP	0.20	1	0.2	mg/L	12/04/02	NK
7420 Lead by Atomic Absorption						
Lead	723	10	100.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/25/02	NK
7420 STLC Lead by AA						
Lead STLC	46.6	5	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382198
Matrix: SOLID
Date Sampled:
Time Sampled: 13:00
Sampled By:

Client: AESCO Technologies
Client Sample ID: 577-219-.45

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	36.6	1	10.0	mg/Kg	10/03/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382199
Matrix: SOLID
Date Sampled:
me Sampled: 13:00
mpled By:

Client: AESCO Technologies
Client Sample ID: 577-219-.75

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	54.9	1	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/25/02	NK
7420 STLC Lead by AA						
Lead STLC	5.10	5	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382200
Matrix: SOLID
Date Sampled:
ne Sampled: 13:00
npled By:

Client: AESCO Technologies
Client Sample ID: 577-219-1.50

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	101	1	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/25/02	NK
7420 STLC Lead by AA						
Lead STLC	5.1	1	0.2	mg/L	10/25/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382201
Matrix: SOLID
Date Sampled:
ne Sampled: 13:20
npled By:

Client: AESCO Technologies
Client Sample ID: 577-216-.15

Analyte	Result	DF	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA						
Lead TCLP	3.08	1	0.2	mg/L	10/31/02	NK
6010B ICP CAM Metals Only (16 Metals)						
Antimony	ND	1	3.0	mg/Kg	12/06/02	KN
Arsenic	ND	1	0.5	mg/Kg	12/06/02	KN
Barium	141	1	1.0	mg/Kg	12/06/02	KN
Beryllium	0.589	1	0.5	mg/Kg	12/06/02	KN
Cadmium	ND	1	0.5	mg/Kg	12/06/02	KN
Chromium	23.8	1	1.0	mg/Kg	12/06/02	KN
Cobalt	14.7	1	0.5	mg/Kg	12/06/02	KN
Copper	36.1	1	1.0	mg/Kg	12/06/02	KN
Lead	1090	1	0.5	mg/Kg	12/06/02	KN
Molybdenum	ND	1	1.0	mg/Kg	12/06/02	KN
Nickel	13.3	1	1.5	mg/Kg	12/06/02	KN
Selenium	ND	1	1.0	mg/Kg	12/06/02	KN
Silver	ND	1	0.5	mg/Kg	12/06/02	KN
Thallium	ND	1	1.0	mg/Kg	12/06/02	KN
Vanadium	36.3	1	0.5	mg/Kg	12/06/02	KN
Zinc	275	1	5.0	mg/Kg	12/06/02	KN
7420 Lead by Atomic Absorption						
Lead	1140	10	100.0	mg/Kg	10/03/02	NK
7471A Mercury in Solid						
Mercury	ND	1	0.14	mg/Kg	12/03/02	MDJ

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382202
Matrix: SOLID
Date Sampled:
Time Sampled: 13:20
Sampled By:

Client: AESCO Technologies
Client Sample ID: 577-216-.45

Analyte	Result	DF	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA						
Lead TCLP	ND	1	0.2	mg/L	12/04/02	NK
150.1 pH						
pH	8.14	1		NA	12/02/02	LN
7420 Lead by Atomic Absorption						
Lead	463	1	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/23/02	NK
7420 STLC Lead by AA						
Lead STLC	16.3	5	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382203
Matrix: SOLID
Date Sampled:
Time Sampled: 13:20
Sampled By:

Client: AESCO Technologies
Client Sample ID: 577-216-.75

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	110	1	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/23/02	NK
7420 STLC Lead by AA						
Lead STLC	7.40	5	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382204
Matrix: SOLID
Date Sampled:
me Sampled: 13:20
mpled By:

Client: AESCO Technologies
Client Sample ID: 577-216-1.50

Analyte	Result	DF	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA						
Lead TCLP	0.31	1	0.2	mg/L	12/04/02	NK
7420 Lead by Atomic Absorption						
Lead	398	1	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/23/02	NK
7420 STLC Lead by AA						
Lead STLC	21.7	5	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382205
Matrix: SOLID
Date Sampled:
Time Sampled: 13:31
Sampled By:

Client: AESCO Technologies
Client Sample ID: 577-215-.15

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	213	1	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/23/02	NK
7420 STLC Lead by AA						
Lead STLC	17.7	5	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382206
Matrix: SOLID
Date Sampled:
me Sampled: 13:31
mpled By:

Client: AESCO Technologies
Client Sample ID: 577-215-.45

Analyte	Result	DF	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA						
Lead TCLP	0.56	1	0.2	mg/L	12/04/02	NK
6010B ICP CAM Metals Only (16 Metals)						
Antimony	ND	1	3.0	mg/Kg	12/03/02	KN
Arsenic	ND	1	0.5	mg/Kg	12/03/02	KN
Barium	93.2	1	1.0	mg/Kg	12/03/02	KN
Beryllium	0.77	1	0.5	mg/Kg	12/04/02	KN
Cadmium	ND	1	0.5	mg/Kg	12/03/02	KN
Chromium	15.5	1	1.0	mg/Kg	12/03/02	KN
Cobalt	11.4	1	0.5	mg/Kg	12/03/02	KN
Copper	17.4	1	1.0	mg/Kg	12/03/02	KN
Lead	184	1	0.5	mg/Kg	12/03/02	KN
Molybdenum	ND	1	1.0	mg/Kg	12/03/02	KN
Nickel	26.2	1	1.5	mg/Kg	12/03/02	KN
Selenium	1.59	1	1.0	mg/Kg	12/04/02	KN
Silver	ND	1	0.5	mg/Kg	12/03/02	KN
Thallium	ND	1	1.0	mg/Kg	12/03/02	KN
Vanadium	43.7	1	0.5	mg/Kg	12/03/02	KN
Zinc	221	1	5.0	mg/Kg	12/03/02	KN
7420 Lead by Atomic Absorption						
Lead	267	1	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/23/02	NK
7420 STLC Lead by AA						
Lead STLC	19.5	5	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382206
Matrix: SOLID
Date Sampled:
Time Sampled: 13:31
Sampled By:

Client: AESCO Technologies
Client Sample ID: 577-215-.45

Analyte	Result	DF	DLR	Units	Date/Analyst	
7471A Mercury in Solid						
Mercury	0.16	1	0.14	mg/Kg	12/03/02	MDJ

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382207
Matrix: SOLID
Date Sampled:
ne Sampled: 13:31
npled By:

Client: AESCO Technologies
Client Sample ID: 577-215-.75

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	55.4	1	10.0	mg/Kg	10/02/02	NK
7420 STLC Lead by AA						
Lead STLC	3.65	5	1.0	mg/L	10/08/02	NK

LR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382208
Matrix: SOLID
Date Sampled:
ne Sampled: 13:31
ampled By:

Client: AESCO Technologies
Client Sample ID: 577-215-1.50

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	19.6	1	10.0	mg/Kg	10/03/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382209
Matrix: WATER
Date Sampled:
me Sampled: 13:31
ampled By:

Client: AESCO Technologies
Client Sample ID: 577-215-000

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	ND	1	0.2	mg/L	10/03/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382210
Matrix: SOLID
Date Sampled:
Time Sampled: 13:50
Sampled By:

Client: AESCO Technologies
Client Sample ID: 577-218-.15

Analyte	Result	DF	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA						
Lead TCLP	2.76	1	0.2	mg/L	12/04/02	NK
6010B ICP CAM Metals Only (16 Metals)						
Antimony	ND	1	3.0	mg/Kg	12/16/02	KN
Arsenic	1.13	1	0.5	mg/Kg	12/16/02	KN
Barium	151	1	1.0	mg/Kg	12/16/02	KN
Beryllium	ND	1	0.5	mg/Kg	12/16/02	KN
Cadmium	ND	1	0.5	mg/Kg	12/16/02	KN
Chromium	16.2	1	1.0	mg/Kg	12/16/02	KN
Cobalt	11.0	1	0.5	mg/Kg	12/16/02	KN
Copper	27.5	1	1.0	mg/Kg	12/16/02	KN
Lead	490	1	0.5	mg/Kg	12/16/02	KN
Molybdenum	4.53	1	1.0	mg/Kg	12/16/02	KN
Nickel	12.2	1	1.5	mg/Kg	12/16/02	KN
Selenium	1.22	1	1.0	mg/Kg	12/16/02	KN
Silver	ND	1	0.5	mg/Kg	12/16/02	KN
Thallium	ND	1	1.0	mg/Kg	12/16/02	KN
Vanadium	47.7	1	0.5	mg/Kg	12/16/02	KN
Zinc	264	1	5.0	mg/Kg	12/16/02	KN
7420 Lead by Atomic Absorption						
Lead	548	10	100.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/23/02	NK
7420 STLC Lead by AA						
Lead STLC	43.9	5	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382210
Matrix: SOLID
Date Sampled:
me Sampled: 13:50
mpled By:

Client: AESCO Technologies
Client Sample ID: 577-218-.15

Analyte	Result	DF	DLR	Units	Date/Analyst	
7471A Mercury in Solid						
Mercury	ND	1	0.14	mg/Kg	12/13/02	MDJ

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382211
Matrix: SOLID
Date Sampled:
Time Sampled: 13:50
Sampled By:

Client: AESCO Technologies
Client Sample ID: 577-218-.45

Analyte	Result	DF	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA						
Lead TCLP	0.73	1	0.2	mg/L	12/04/02	NK
7420 Lead by Atomic Absorption						
Lead	257	1	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/23/02	NK
7420 STLC Lead by AA						
Lead STLC	22.3	5	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382212
Matrix: SOLID
Date Sampled:
ne Sampled: 13:50
mpled By:

Client: AESCO Technologies
Client Sample ID: 577-218-.75

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	187	1	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/23/02	NK
7420 STLC Lead by AA						
Lead STLC	10.2	5	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382213
Matrix: SOLID
Date Sampled:
ne Sampled: 13:50
ampled By:

Client: AESCO Technologies
Client Sample ID: 577-218-1.50

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	146	1	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/23/02	NK
7420 STLC Lead by AA						
Lead STLC	5.40	5	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382214
Matrix: SOLID
Date Sampled:
Time Sampled: 14:10
Sampled By:

Client: AESCO Technologies
Client Sample ID: 577-217-.15

Analyte	Result	DF	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA						
Lead TCLP	ND	1	0.2	mg/L	12/04/02	NK
6010B ICP CAM Metals Only (16 Metals)						
Antimony	ND	1	3.0	mg/Kg	12/16/02	KN
Arsenic	ND	1	0.5	mg/Kg	12/16/02	KN
Barium	132	1	1.0	mg/Kg	12/16/02	KN
Beryllium	0.701	1	0.5	mg/Kg	12/16/02	KN
Cadmium	ND	1	0.5	mg/Kg	12/16/02	KN
Chromium	22.1	1	1.0	mg/Kg	12/16/02	KN
Cobalt	15.9	1	0.5	mg/Kg	12/16/02	KN
Copper	27.8	1	1.0	mg/Kg	12/16/02	KN
Lead	270	1	0.5	mg/Kg	12/16/02	KN
Molybdenum	1.71	1	1.0	mg/Kg	12/16/02	KN
Nickel	13.0	1	1.5	mg/Kg	12/16/02	KN
Selenium	1.31	1	1.0	mg/Kg	12/16/02	KN
Silver	ND	1	0.5	mg/Kg	12/16/02	KN
Thallium	ND	1	1.0	mg/Kg	12/16/02	KN
Vanadium	74.4	1	0.5	mg/Kg	12/16/02	KN
Zinc	125	1	5.0	mg/Kg	12/16/02	KN
7420 Lead by Atomic Absorption						
Lead	363	1	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/23/02	NK
7420 STLC Lead by AA						
Lead STLC	23.4	5	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382214
Matrix: SOLID
Date Sampled:
me Sampled: 14:10
mpled By:

Client: AESCO Technologies
Client Sample ID: 577-217-.15

Analyte	Result	DF	DLR	Units	Date/Analyst	
7471A Mercury in Solid						
Mercury	ND	1	0.14	mg/Kg	12/13/02	MDJ

LR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382215
Matrix: SOLID
Date Sampled:
Time Sampled: 14:10
Sampled By:

Client: AESCO Technologies
Client Sample ID: 577-217-.45

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	105	1	10.0	mg/Kg	10/03/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	ND	1	0.2	mg/L	10/23/02	NK
7420 STLC Lead by AA						
Lead STLC	7.05	5	1.0	mg/L	10/08/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382216
Matrix: SOLID
Date Sampled:
ne Sampled: 14:10
mpled By:

Client: AESCO Technologies
Client Sample ID: 577-217-.75

Analyte	Result	DF	DLR	Units	Date/Analyst	
150.1 pH						
pH	8.48	1		NA	12/02/02	LN
7420 Lead by Atomic Absorption						
Lead	34.1	1	10.0	mg/Kg	10/03/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382217
Matrix: SOLID
Date Sampled:
me Sampled: 14:10
ampled By:

Client: AESCO Technologies
Client Sample ID: 577-217-1.50

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	26.2	1	10.0	mg/Kg	10/03/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382218
Matrix: WATER
Date Sampled:
ne Sampled: 14:10
..mpled By:

Client: AESCO Technologies
Client Sample ID: 577-217-000

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	ND	1	0.2	mg/L	10/03/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382219
Matrix: SOLID
Date Sampled:
ne Sampled:
mpled By:

Client: AESCO Technologies
Client Sample ID: Laboratory Method Blank-S

Analyte	Result	DF	DLR	Units	Date/Analyst	
1311/7420 TCLP Lead by AA						
Lead TCLP	ND	1	0.2	mg/L	12/04/02	NK
150.1 pH						
pH	6.25	1		NA	10/03/02	LN
6010B ICP CAM Metals Only (16 Metals)						
Antimony	ND	1	3.00	mg/Kg	12/16/02	KN
Arsenic	ND	1	0.50	mg/Kg	12/16/02	KN
Barium	ND	1	1.00	mg/Kg	12/16/02	KN
Beryllium	ND	1	0.50	mg/Kg	12/16/02	KN
Cadmium	ND	1	0.50	mg/Kg	12/16/02	KN
Chromium	ND	1	1.00	mg/Kg	12/16/02	KN
Cobalt	ND	1	0.50	mg/Kg	12/16/02	KN
Copper	ND	1	1.00	mg/Kg	12/16/02	KN
Lead	ND	1	0.50	mg/Kg	12/16/02	KN
Molybdenum	ND	1	1.00	mg/Kg	12/16/02	KN
Nickel	ND	1	1.50	mg/Kg	12/16/02	KN
Selenium	ND	1	1.00	mg/Kg	12/16/02	KN
Silver	ND	1	0.50	mg/Kg	12/16/02	KN
Thallium	ND	1	1.00	mg/Kg	12/16/02	KN
Vanadium	ND	1	0.50	mg/Kg	12/16/02	KN
Zinc	ND	1	5.00	mg/Kg	12/16/02	KN
7420 Lead by Atomic Absorption						
Lead	ND	1	10.0	mg/Kg	10/03/02	NK
7471A Mercury in Solid						
Mercury	ND	1	0.14	mg/Kg	12/13/02	MDJ

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 382220
Matrix: WATER
Date Sampled:
ne Sampled:
npled By:

Client: AESCO Technologies
Client Sample ID: Laboratory Method Blank-W

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	ND	1	0.2	mg/L	10/03/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: 99861-381994 QC# 120402tclp2

Matrix: TCLP

Prep. Date: 12/04/02

Analysis Date: 12/04/02

Lab ID#'s in Batch: LR 99861, 99942

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	0.230		2	2.30	2.20	104	99	4.4

NC = Not Calculated
ND = "U" - Not Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate
%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Lead	7420	2.16	2	108	80%	120%	0.005	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*
L.LIMIT / H.LIMIT = Low / High Control Limits
MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: 99943-382244 QC# 123002SO1

Matrix: SOLID

Prep. Date: 12/30/02

Analysis Date: 01/02/03

Lab ID#'s in Batch: LR 99942, 99943, 99859, 99861, 99808

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	* 7420	209		97.1	306	332	100	127	8

*** = Outside QC limits, due to matrix Interference**
If Sample Result > 4 times Spike Added, then "NC"
ND = "U" - Not Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate
%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Lead	7420	116	100	116	80%	120%	10	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*
L.LIMIT / H.LIMIT = Low / High Control Limits
MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES
806 North Batavia - Orange, California 92868 - 714/771-6900
FAX 714/538-1209

CLIENT AESCO Technologies (9650)
ATTN: Adam Chamaa
18548 Beach Blvd.
Huntington Beach, CA 92648

LAB REQUEST 99860
REPORTED 10/15/2002
RECEIVED 10/01/2002

PROJECT #20020155-1 (5)
ADL Study @ Route 170

SUBMITTER Client

COMMENTS Added TCLP Lead to order #381918, 922-925, 935, 940, 944, 946, 947 and CAM Metals to order #914, 930, 944, 957 on 12-2-02.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
381914	577-200-.15
381915	577-200-.45
381916	577-200-.75
381917	577-200-1.50
381918	577-201-.15
381919	577-201-.45
381920	577-201-.75
381921	577-201-1.50
381922	577-202-.15
381923	577-202-.45
381924	577-202-.75

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT AESCO Technologies (9650)
ATTN: Adam Chamaa
18548 Beach Blvd.
Huntington Beach, CA 92648

LAB REQUEST 99860

REPORTED 10/15/2002
RECEIVED 10/01/2002

PROJECT #20020155-1 (5)
ADL Study @ Route 170

SUBMITTER Client

COMMENTS Added TCLP Lead to order #381918, 922-925, 935, 940, 944, 946, 947 and CAM Metals to order #914, 930, 944, 957 on 12-2-02.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
381925	577-202-1.50
381926	577-202-000
381927	577-203-.15
381928	577-203-.45
381929	577-203-.75
381930	577-203-1.50
381931	577-204-.15
381932	577-204-.45
381933	577-204-.75
381934	577-204-1.50
381935	577-205-.15
381936	577-205-.45
381937	577-205-.75
381938	577-205-1.50
381939	577-205-000
381940	577-206-.15
381941	577-206-.45
381942	577-206-.75

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT AESCO Technologies (9650)
ATTN: Adam Chamaa
18548 Beach Blvd.
Huntington Beach, CA 92648

LAB REQUEST 99860

REPORTED 10/15/2002
RECEIVED 10/01/2002

PROJECT #20020155-1 (5)
ADL Study @ Route 170

SUBMITTER Client

COMMENTS Added TCLP Lead to order #381918, 922-925, 935, 940, 944, 946, 947 and CAM Metals to order #914, 930, 944, 957 on 12-2-02.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
381943	577-206-1.50
381944	577-207-.15
381945	577-207-.45
381946	577-207-.75
381947	577-207-1.50
381948	577-208-.15
381949	577-208-.45
381950	577-208-.75
381951	577-208-1.50
381952	577-208-000
381953	577-209-.15
381954	577-209-.45
381955	577-209-.75
381956	577-209-1.50
381957	577-210-.15
381958	577-210-.45
381959	577-210-.75
381960	577-210-1.50

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT AESCO Technologies (9650)
ATTN: Adam Chamaa
18548 Beach Blvd.
Huntington Beach, CA 92648

LAB REQUEST 99860

REPORTED 10/15/2002
RECEIVED 10/01/2002

PROJECT #20020155-1 (5)
ADL Study @ Route 170

SUBMITTER Client

COMMENTS Added TCLP Lead to order #381918, 922-925, 935, 940, 944, 946, 947 and CAM Metals to order #914, 930, 944, 957 on 12-2-02.

This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

Order No.	Client Sample Identification
381961	577-210-000
381962	Laboratory Method Blank-S
381963	Laboratory Method Blank-W

Thank you for the opportunity to be of service to your company. Please feel free to call if there are any questions regarding this report or if we can be of further service.

ASSOCIATED LABORATORIES by,

Edward S. Behare, Ph.D.
Vice President

NOTE: Unless notified in writing, all samples will be discarded by appropriate disposal protocol 30 days from date reported.

The reports of the Associated Laboratories are confidential property of our clients and may not be reproduced or used for publication in part or in full without our written permission. This is for the mutual protection of the public, our clients, and ourselves.

TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 381914
Matrix: SOLID
Date Sampled:
Time Sampled: 13:05
mpled By:

Client: AESCO Technologies
Client Sample ID: 577-200-.15

Analyte	Result	DF	DLR	Units	Date/Analyst	
150.1 pH						
pH	8.00	1		NA	10/03/02	EL
6010B ICP CAM Metals Only (16 Metals)						
Antimony	ND	1	3.0	mg/Kg	12/03/02	KN
Arsenic	ND	1	0.5	mg/Kg	12/03/02	KN
Barium	53.1	1	1.0	mg/Kg	12/03/02	KN
Beryllium	ND	1	0.5	mg/Kg	12/04/02	KN
Cadmium	ND	1	0.5	mg/Kg	12/03/02	KN
Chromium	7.23	1	1.0	mg/Kg	12/03/02	KN
Cobalt	4.78	1	0.5	mg/Kg	12/03/02	KN
Copper	12.5	1	1.0	mg/Kg	12/03/02	KN
Lead	141	1	0.5	mg/Kg	12/03/02	KN
Molybdenum	ND	1	1.0	mg/Kg	12/03/02	KN
Nickel	4.52	1	1.5	mg/Kg	12/03/02	KN
Selenium	ND	1	1.0	mg/Kg	12/04/02	KN
Silver	ND	1	0.5	mg/Kg	12/03/02	KN
Thallium	ND	1	1.0	mg/Kg	12/03/02	KN
Vanadium	25.9	1	0.5	mg/Kg	12/03/02	KN
Zinc	43.0	1	5.0	mg/Kg	12/03/02	KN
7420 Lead by Atomic Absorption						
Lead	189	1	10.0	mg/Kg	10/07/02	NK
7420 DI-STLC Lead by AA						
Lead DI-STLC	0.57	1	0.2	mg/L	10/24/02	NK
7420 STLC Lead by AA						
Lead STLC	15.8	5	1.0	mg/L	10/14/02	NK
7471A Mercury in Solid						
Mercury	ND	1	0.14	mg/Kg	12/03/02	MDJ

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 381915
Matrix: SOLID
Date Sampled:
Time Sampled: 13:05
Sampled By:

Client: AESCO Technologies
Client Sample ID: 577-200-.45

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	ND	1	10.0	mg/Kg	10/07/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 381916
Matrix: SOLID
Date Sampled:
Time Sampled: 13:05
mpled By:

Client: AESCO Technologies
Client Sample ID: 577-200-.75

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	ND	1	10.0	mg/Kg	10/07/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 381917
Matrix: SOLID
Date Sampled:
Time Sampled: 13:05
mpled By:

Client: AESCO Technologies
Client Sample ID: 577-200-1.50

Analyte	Result	DF	DLR	Units	Date/Analyst	
7420 Lead by Atomic Absorption						
Lead	112	1	10.0	mg/Kg	10/07/02	NK
7420 STLC Lead by AA						
Lead STLC	4.25	5	1.0	mg/L	10/14/02	NK

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: 99808-381382 QC# 120402tclp3

Matrix: WATER

Prep. Date: 12/04/02

Analysis Date: 12/04/02

Lab ID#'s in Batch: LR 99808, 99857, 99858

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	7420	0.350		2	2.52	2.42	109	104	4.0

NC = Not Calculated
ND = "U" - Not Detected
RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate
%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	Method Blank MB	Method Blank ND
Lead	7420	2.23	2	112	80%	120%	0.005	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*
L.LIMIT / H.LIMIT = Low / High Control Limits
MB = Method Blank; ND = " U " for Non- Detected

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: 99943-382244 QC# 123002SO1

Matrix: SOLID

Prep. Date: 12/30/02

Analysis Date: 01/02/03

Lab ID#'s in Batch: LR 99942, 99943, 99859, 99861, 99808

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/Kg

TEST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	* 7420	209		97.1	306	332	100	127	8

*** = Outside QC limits, due to matrix Interference**

If Sample Result > 4 times Spike Added, then "NC"

ND = "U" - Not Detected

RPD = Relative Percent Difference of Matrix Spike and Matrix Spike Duplicate

%REC-MS&MSD = Percent Recovery of Matrix Spike & Matrix Spike Duplicate

% REC LIMITS = 75 -125
RPD LIMITS = 20

LCS/MB REPORT FORM

LCS Source(QC21-LOT#QC2/91/1;QC7-LOT7A92/1

							Method Blank	
Element	Method	Result	TRUE	%Rec	L.Limit	H.Limit	MB	ND
Lead	7420	116	100	116	80%	120%	10	U

*Notes : RESULT = Sample Result; TRUE = True Value; %Rec = 100*Result/True*

L.LIMIT / H.LIMIT = Low / High Control Limits

MB = Method Blank; ND = " U " for Non- Detected

Appendix

Statistic Analysis for Upper Confidence Level

D

Route 134 (Eastbound)
Combination of All Samples

Statistic Analysis Datasheet

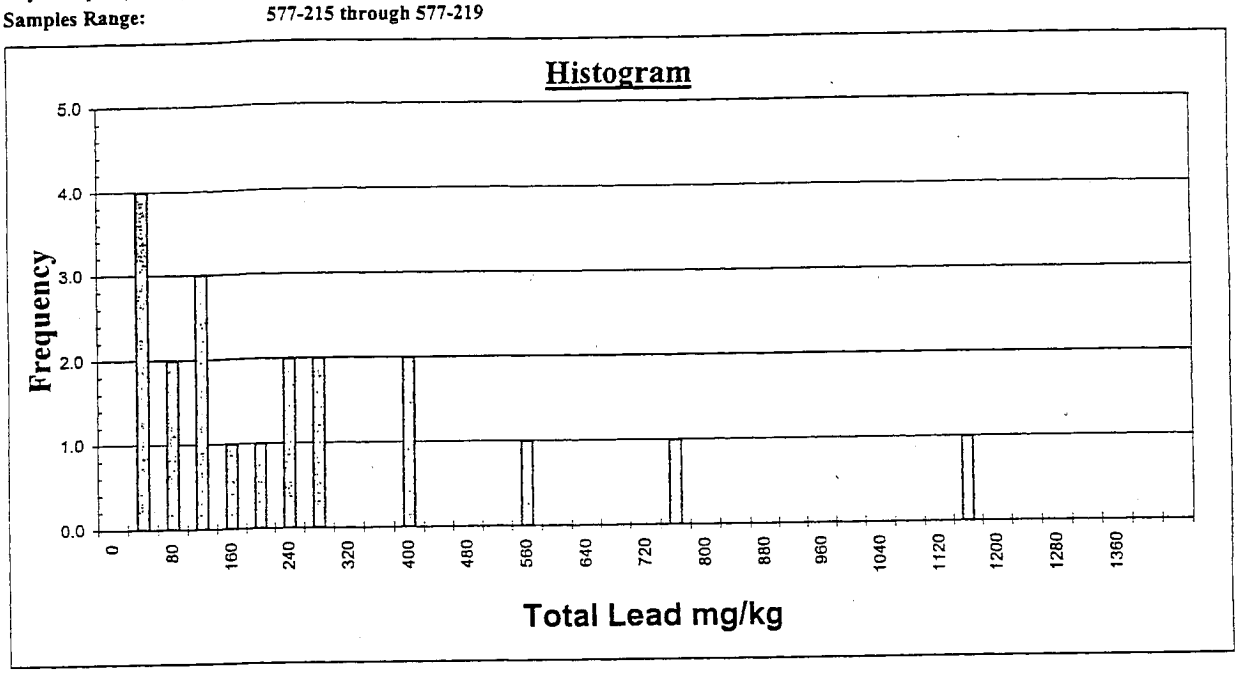
AESCO Site No.: 20020155-1 (1)
Project Description: ADL Study @ Route 134;
W. Mt. Helena Ave / West of Figueroa St: EB

Analysis Made for: Stage 1 (Eastbound)
Site Description: West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter) 0.15+0.45+0.75+1.50
Samples Range: 577-215 through 577-219

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-215-.15	213.0	0.1879	17.7000	0.100
577-216-.15	1140.0	1.5708		
577-217-.15	363.0	0.3241	23.4000	0.100
577-218-.15	548.0	0.5015	43.9000	0.100
577-219-.15	723.0	0.6870	46.6000	0.100
577-215-.45	267.0	0.2364	19.5000	0.100
577-216-.45	209.0	0.1844	16.3000	0.100
577-217-.45	105.0	0.0922	7.0500	0.100
577-218-.45	257.0	0.2274	22.3000	0.100
577-219-.45	36.6	0.0321		
577-215-.75	55.4	0.0486	3.6500	
577-216-.75	110.0	0.0966	7.4000	0.100
577-217-.75	34.1	0.0299		
577-218-.75	187.0	0.1648	10.2000	0.100
577-219-.75	54.9	0.0482	5.1000	0.100
577-215-1.5	19.6	0.0172		
577-216-1.5	398.0	0.3566	21.7000	0.100
577-217-1.5	26.2	0.0230		
577-218-1.5	146.0	0.1284	5.4000	0.100
577-219-1.5	101.0	0.0887	5.1000	0.100

Histogram for Total Lead

AESCO Site No.:	20020155-1 (1)
Project Description:	ADL Study @ Route 134; W. Mt. Helena Ave / West of Figueroa St: EB
Analysis Made for:	Stage 1 (Eastbound)
Site Description:	West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter)	0.15+0.45+0.75+1.50
Samples Range:	577-215 through 577-219



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (1)
Project Description: ADL Study @ Route 134;
W. Mt. Helena Ave / West of Figueroa St: EB

Analysis Made for: Stage 1 (Eastbound)
Site Description: West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter) 0.15+0.45+0.75+1.50
Samples Range: 577-215 through 577-219

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)
T0.10= *1.328* T0.05= *1.729*

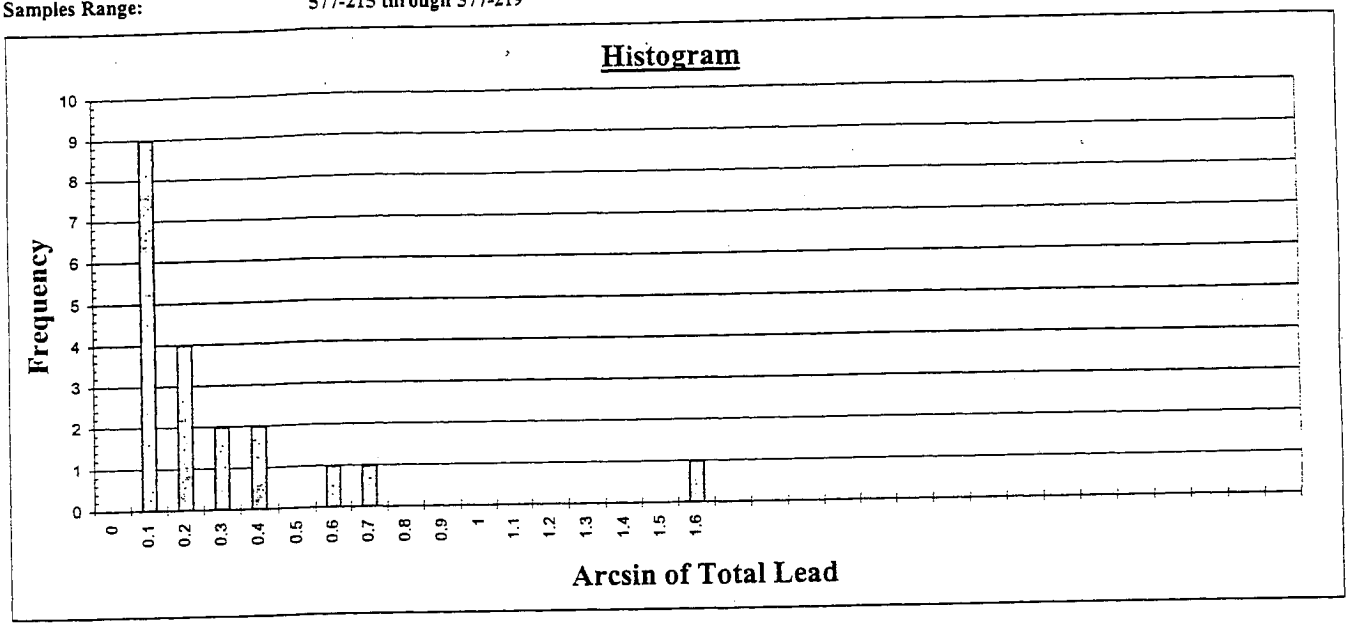
Analysis Term	Value
Mean	249.7
Standard Error	62.7
Median	166.5
Standard Deviation	280.2
Variance of Sample	78503.1
Range	1120.4
Minimum	19.6
Maximum	1140.0
Sum	4993.8
Count	20
Confidence Level (90.0%)	332.9

Analysis Term	Value
Mean	249.7
Standard Error	62.7
Median	166.5
Standard Deviation	280.2
Variance of Sample	78503.1
Range	1120.4
Minimum	19.6
Maximum	1140.0
Sum	4993.8
Count	20
Confidence Level (95.0%)	358.0

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (1)
Project Description:	ADL Study @ Route 134; W. Mt. Helena Ave / West of Figueroa St: EB
Analysis Made for:	Stage 1 (Eastbound)
Site Description:	West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter)	0.15+0.45+0.75+1.50
Samples Range:	577-215 through 577-219



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.: 20020155-1 (1)
Project Description: ADL Study @ Route 134;
W. Mt. Helena Ave / West of Figueroa St: EB

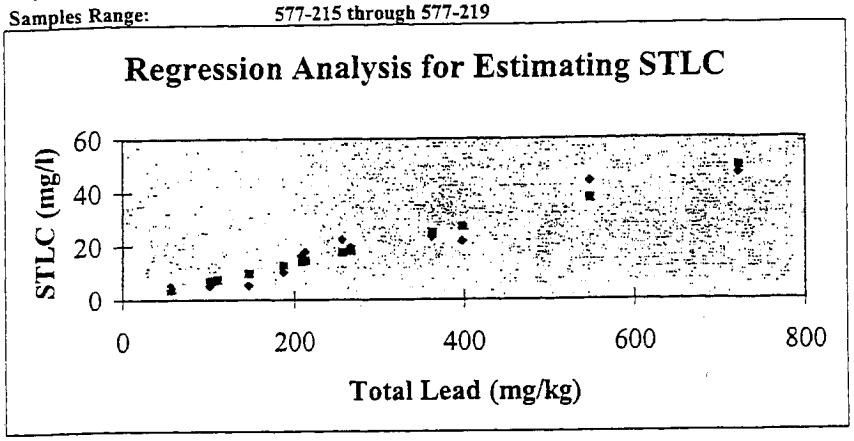
Analysis Made for: Stage 1 (Eastbound)
Site Description: West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter) 0.15+0.45+0.75+1.50
Samples Range: 577-215 through 577-219

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.
T0.10= 1.3277281 T0.05= 1.729

Analysis Term	Value
Mean	284.6
Standard Error	0.0795
Mean (Arcsin Values)	0.2523
Standard Deviation	0.3557
Count	20
Confidence Level (90.0%)	399.3

Analysis Term	Value
Mean	284.6
Standard Error	0.0795
Mean (Arcsin Values)	0.2523
Standard Deviation	0.3557
Count	20
Confidence Level (95.0%)	433.2

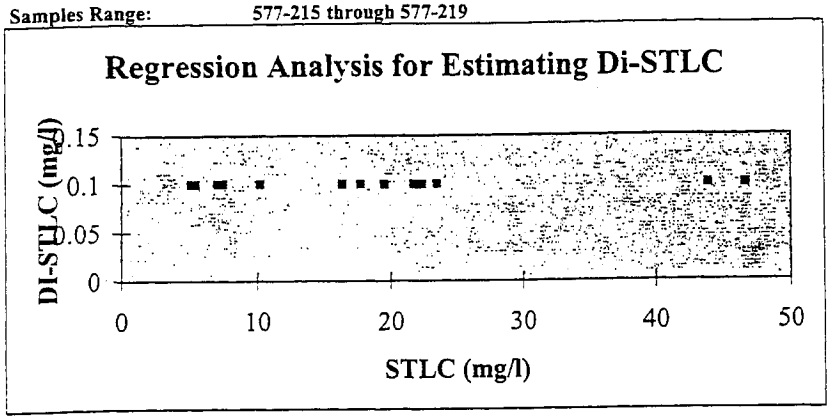
AESCO Site No.:	**20020155-1 (1)**
Project Description:	**ADL Study @ Route 134;**
	W. Mt. Helena Ave / West of Figueroa St: EB
Analysis Made for:	**Stage 1 (Eastbound)**
Site Description:	**West of Mt. Helena Ave/W. Figueroa St:EB**
Layer Depth (Meter)	**0.15+0.45+0.75+1.50**
Samples Range:	**577-215 through 577-219**



Correlation Coefficient=	0.97	,STLC	=	0.0687 *	Total Lead +		-0.096414078
Predicted STLC Value for UCL 90% Total Lead				399.3 mg/kg	=	27.34 mg/L	
Predicted STLC Value for UCL 95% Total Lead				433.2 mg/kg	=	29.67 mg/L	

AESCO Site No.: 20020155-1 (1)
Project Description: ADL Study @ Route 134;
W. Mt. Helena Ave / West of Figueroa St: EB

Analysis Made for: Stage 1 (Eastbound)
Site Description: West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter) 0.15+0.45+0.75+1.50
Samples Range: 577-215 through 577-219



Best Line Fit:	Di-STLC =	0 *	STLC	+	0.1	
	Di-STLC Value for STLC	27.34 mg/L	=	0.100 mg/L		
	Di-STLC Value for STLC	29.67 mg/L	=	0.100 mg/L		

Route 134 (Eastbound)
Combination of All Samples at a Depth of (0.15 m)

Statistic Analysis Datasheet

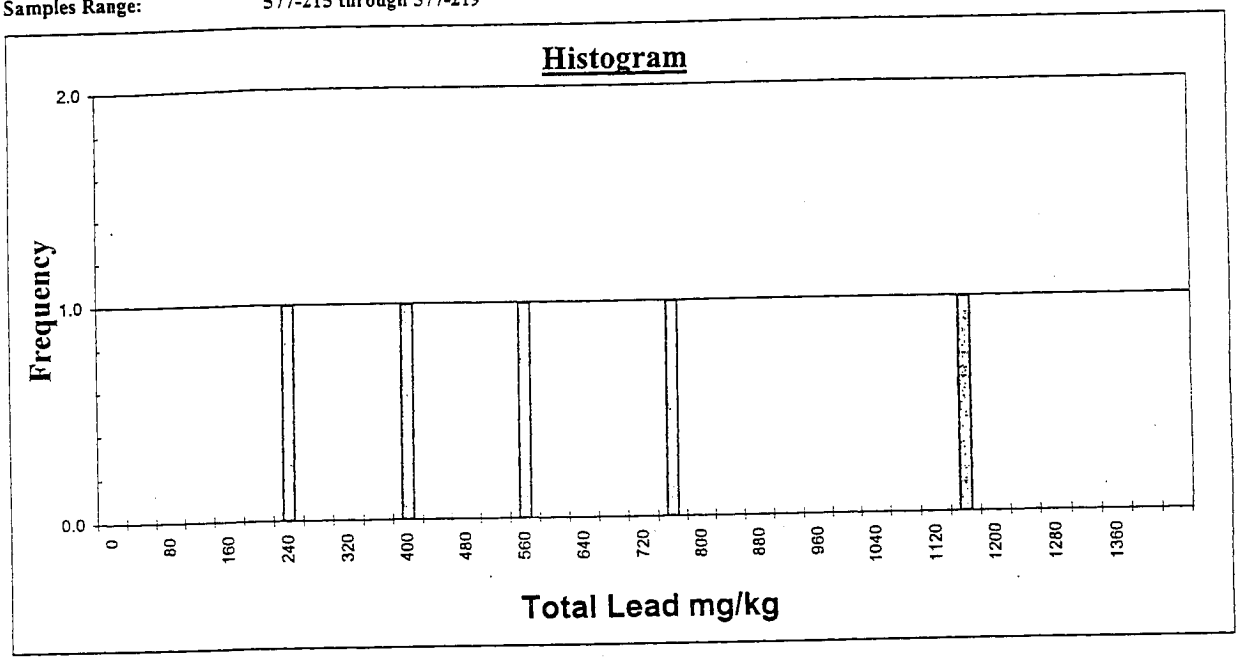
AESCO Site No.: 20020155-1 (1)
Project Description: ADL Study @ Route 134;
Wo Mt. Helena Ave / West of Figueroa St: EB

Analysis Made for: Stage 1 (Eastbound)
Site Description: West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter) 0.15
Samples Range: 577-215 through 577-219

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-215-.15	213.0	0.1879	17.7000	0.100
577-216-.15	1140.0	1.5708		
577-217-.15	363.0	0.3241	23.4000	0.100
577-218-.15	548.0	0.5015	43.9000	0.100
577-219-.15	723.0	0.6870	46.6000	0.100

Histogram for Total Lead

AESCO Site No.:	20020155-1 (1)
Project Description:	ADL Study @ Route 134; Wo Mt. Helena Ave / West of Figueroa St: EB
Analysis Made for:	Stage 1 (Eastbound)
Site Description:	West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter)	0.15
Samples Range:	577-215 through 577-219



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (1)
Project Description: ADL Study @ Route 134;
Wo Mt. Helena Ave / West of Figueroa St: EB

Analysis Made for: Stage 1 (Eastbound)
Site Description: West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter) 0.15
Samples Range: 577-215 through 577-219

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T · S x)
T0.10= *1.533* T0.05= *2.132*

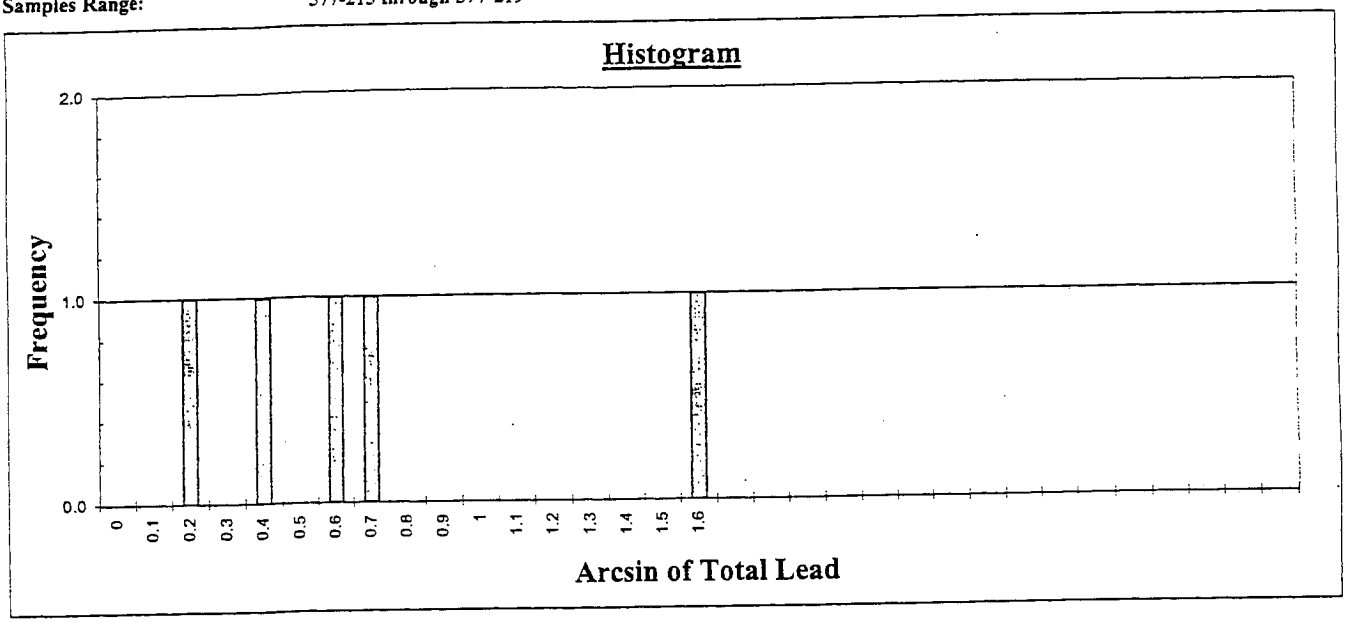
Analysis Term	Value
Mean	597.4
Standard Error	160.5
Median	548.0
Standard Deviation	358.9
Variance of Sample	128834.3
Range	927.0
Minimum	213.0
Maximum	1140.0
Sum	2987.0
Count	5
Confidence Level (90.0%)	843.5

Analysis Term	Value
Mean	597.4
Standard Error	160.5
Median	548.0
Standard Deviation	358.9
Variance of Sample	128834.3
Range	927.0
Minimum	213.0
Maximum	1140.0
Sum	2987.0
Count	5
Confidence Level (95.0%)	939.6

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (1)
Project Description:	ADL Study @ Route 134; Wo Mt. Helena Ave / West of Figueroa St: EB
Analysis Made for:	Stage 1 (Eastbound)
Site Description:	West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter)	0.15
Samples Range:	577-215 through 577-219



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.: 20020155-1 (1)
Project Description: ADL Study @ Route 134;
Wo Mt. Helena Ave / West of Figueroa St: EB

Analysis Made for: Stage 1 (Eastbound)
Site Description: West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter) 0.15
Samples Range: 577-215 through 577-219

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.
T0.10= 1.5332057 T0.05= 2.132

Analysis Term	Value
Mean	693.8
Standard Error	0.2440
Mean (Arcsin Values)	0.6542
Standard Deviation	0.5457
Count	5
Confidence Level (90.0%)	976.4

Analysis Term	Value
Mean	693.8
Standard Error	0.2440
Mean (Arcsin Values)	0.6542
Standard Deviation	0.5457
Count	5
Confidence Level (95.0%)	1051.6

Route 134 (Eastbound)
Combination of All Samples at Depths of (0.45+0.75+1.5 m)

Statistic Analysis Datasheet

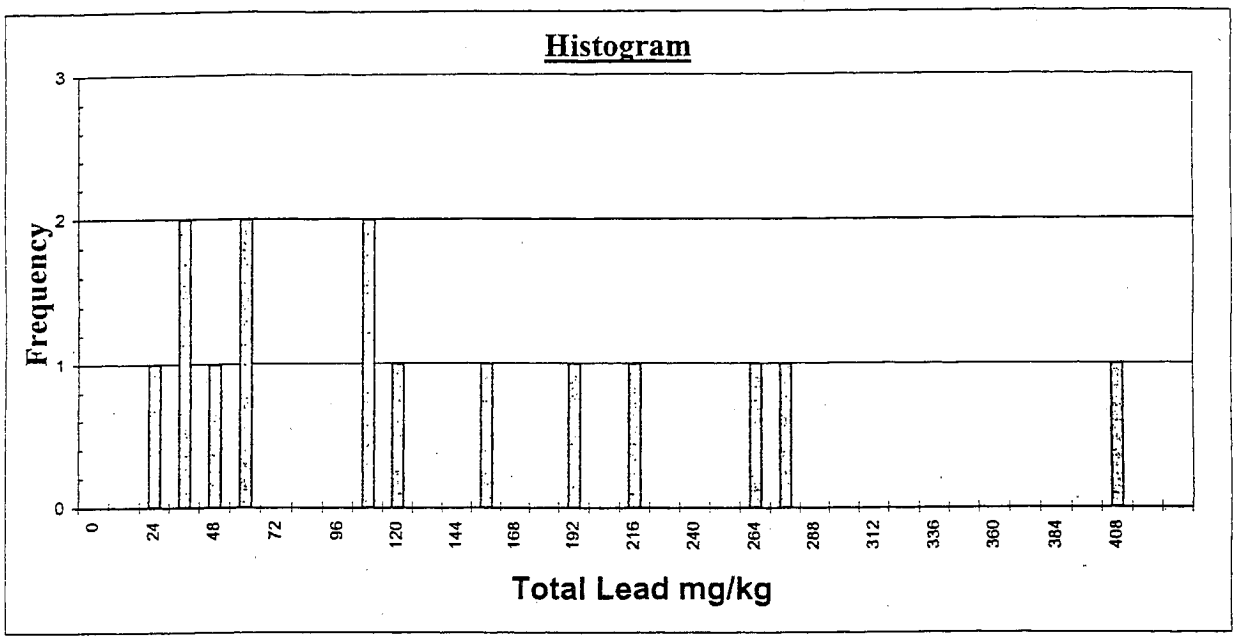
AESCO Site No.: 20020155-1 (1)
Project Description: ADL Study @ Route 134;
W. Mt. Helena Ave / West of Figueroa St: EB

Analysis Made for: Stage 1 (Eastbound)
Site Description: West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter) 0.45+0.75+1.50
Samples Range: 577-215 through 577-219

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-215-.45	267.0	0.7354	19.5000	0.100
577-216-.45	209.0	0.5529	16.3000	0.100
577-217-.45	105.0	0.2670	7.0500	0.100
577-218-.45	257.0	0.7020	22.3000	0.100
577-219-.45	36.6	0.0921		
577-215-.75	55.4	0.1396	3.6500	
577-216-.75	110.0	0.2800	7.4000	0.100
577-217-.75	34.1	0.0858		
577-218-.75	187.0	0.4891	10.2000	0.100
577-219-.75	54.9	0.1384	5.1000	0.100
577-215-1.5	19.6	0.0493		
577-216-1.5	398.0	1.5708	21.7000	0.100
577-217-1.5	26.2	0.0659		
577-218-1.5	146.0	0.3756	5.4000	0.100
577-219-1.5	101.0	0.2566	5.1000	0.100

Histogram for Total Lead

AESCO Site No.:	**20020155-1 (1)**
Project Description:	**ADL Study @ Route 134;**
	W. Mt. Helena Ave / West of Figueroa St: EB
Analysis Made for:	**Stage 1 (Eastbound)**
Site Description:	**West of Mt. Helena Ave/W. Figueroa St:EB**
Layer Depth (Meter)	**0.45+0.75+1.50**
Samples Range:	**577-215 through 577-219**



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (1)
Project Description: ADL Study @ Route 134;
W. Mt. Helena Ave / West of Figueroa St: EB

Analysis Made for: Stage 1 (Eastbound)
Site Description: West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter) 0.45+0.75+1.50
Samples Range: 577-215 through 577-219

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)
T0.10= *1.345* T0.05= *1.761*

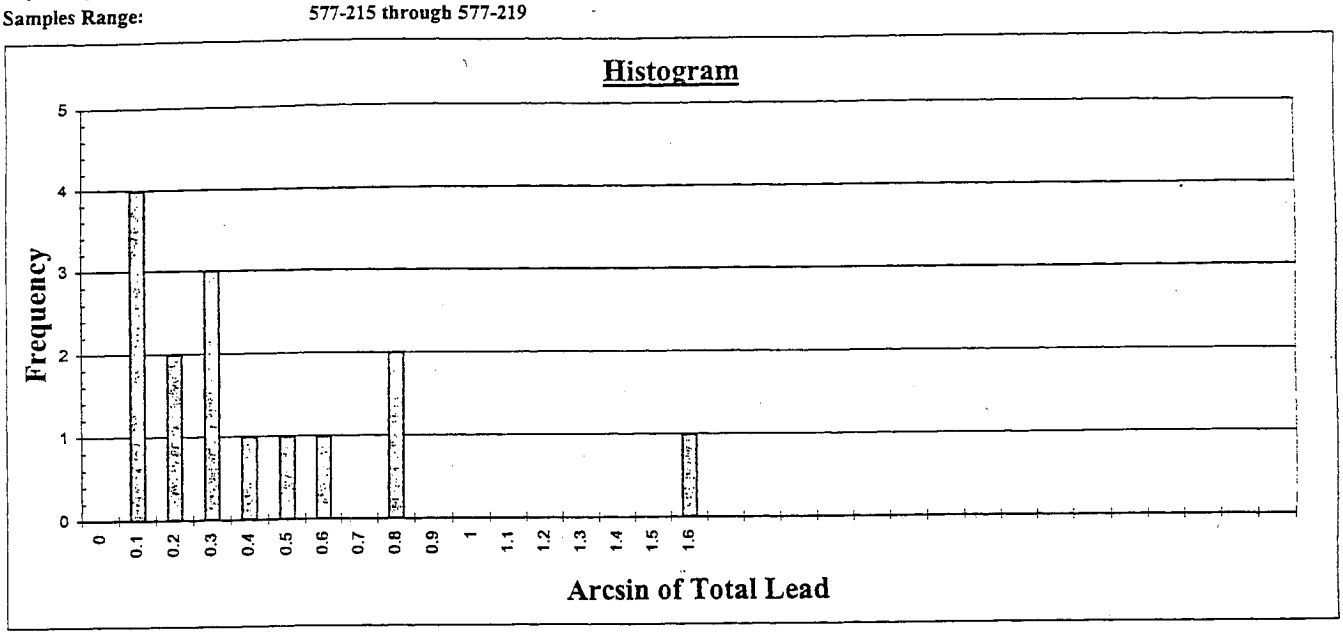
Analysis Term	Value
Mean	133.8
Standard Error	28.5
Median	105.0
Standard Deviation	110.3
Variance of Sample	12157.6
Range	378.4
Minimum	19.6
Maximum	398.0
Sum	2006.8
Count	15
Confidence Level (90.0%)	172.1

Analysis Term	Value
Mean	133.8
Standard Error	28.5
Median	105.0
Standard Deviation	110.3
Variance of Sample	12157.6
Range	378.4
Minimum	19.6
Maximum	398.0
Sum	2006.8
Count	15
Confidence Level (95.0%)	183.9

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (1)
Project Description:	ADL Study @ Route 134; W. Mt. Helena Ave / West of Figueroa St: EB
Analysis Made for:	Stage 1 (Eastbound)
Site Description:	West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter)	0.45+0.75+1.50
Samples Range:	577-215 through 577-219



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.: 20020155-1 (1)
Project Description: ADL Study @ Route 134;
W. Mt. Helena Ave / West of Figueroa St: EB

Analysis Made for: Stage 1 (Eastbound)
Site Description: West of Mt. Helena Ave/W. Figueroa St:EB
Layer Depth (Meter) 0.45+0.75+1.50
Samples Range: 577-215 through 577-219

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.
T0.10= 1.3450313 T0.05= 1.761

Analysis Term	Value
Mean	150.1
Standard Error	0.1028
Mean (Arcsin Values)	0.3867
Standard Deviation	0.3983
Count	15
Confidence Level (90.0%)	199.5

Analysis Term	Value
Mean	150.1
Standard Error	0.1028
Mean (Arcsin Values)	0.3867
Standard Deviation	0.3983
Count	15
Confidence Level (95.0%)	214.0

Route 170 (Northbound)
Combination of All Samples

Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Entire Northbound
Site Description: Route 134 to Sherman Way
Layer Depth (Meter) 0.15+0.45+0.75+1.50
Samples Range: 577-136 through 577-210

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-136-.15	318.0	0.0907	20.6000	0.100
577-136-.45	133.0	0.0379	4.0500	
577-136-.75	69.0	0.0197	5.1500	0.100
577-136-1.5	229.0	0.0653	13.8000	0.100
577-137-.15	98.5	0.0281	3.9000	
577-137-.45	14.1	0.0040		
577-137-.75	20.5	0.0058		
577-137-1.5	16.7	0.0048		
577-138-.15	68.6	0.0195	2.8000	
577-138-.45	18.0	0.0051		
577-138-.75	20.8	0.0059		
577-138-1.5	34.0	0.0097		
577-139-.15	837.0	0.2408	46.1000	0.510
577-139-.45	70.5	0.0201	4.4000	
577-139-.75	159.0	0.0453	10.6000	0.100
577-139-1.5	138.0	0.0393	11.6000	0.100
577-140-.15	247.0	0.0704	13.4000	0.100
577-140-.45	1620.0	0.4797		
577-140-.75	726.0	0.2083	26.0000	0.100
577-140-1.5	14.4	0.0041		
577-141-.15	2970.0	1.0087		
577-141-.45	1700.0	0.5056		
577-141-.75	163.0	0.0465	10.2000	0.100
577-141-1.5	91.8	0.0262	3.9000	
577-142-.15	973.0	0.2809	69.4000	0.250
577-142-.45	2240.0	0.6921		
577-142-.75	120.0	0.0342	7.0500	0.100
577-142-1.5	1320.0	0.3855		
577-143-.15	269.0	0.0767	8.3500	0.100
577-143-.45	804.0	0.2311	78.9000	0.620
577-143-.75	12.5	0.0036		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-143-1.5	5.0	0.0014		
577-144-.15	1490.0	0.4384		
577-144-.45	338.0	0.0964	14.4000	0.100
577-144-.75	35.1	0.0100		
577-144-1.5	39.8	0.0113		
577-145-.15	655.0	0.1877	43.8000	0.250
577-145-.45	245.0	0.0699	14.0000	1.140
577-145-.75	211.0	0.0602	8.5000	0.100
577-145-1.5	12.3	0.0035		
577-146-.15	1320.0	0.3855		
577-146-.45	253.0	0.0721	4.7000	
577-146-.75	30.8	0.0088		
577-146-1.5	96.5	0.0275	4.4500	
577-147-.15	231.0	0.0659	13.3000	0.100
577-147-.45	19.9	0.0057		
577-147-.75	30.6	0.0087		
577-147-1.5	128.0	0.0365	8.7000	0.100
577-148-.15	3510.0	1.5708		
577-148-.45	2840.0	0.9426		
577-148-.75	130.0	0.0370	8.8000	0.100
577-148-1.5	40.1	0.0114		
577-149-.15	470.0	0.1343	43.0000	0.290
577-149-.45	56.9	0.0162	2.4000	
577-149-.75	90.5	0.0258	4.9000	
577-149-1.5	43.9	0.0125		
577-150-.15	35.2	0.0100		
577-150-.45	24.3	0.0069		
577-150-.75	282.0	0.0804	17.1000	0.100
577-150-1.5	14.6	0.0042		
577-151-.15	155.0	0.0442	10.4000	0.100
577-151-.45	14.5	0.0041		
577-151-.75	126.0	0.0359	8.6000	0.100
577-151-1.5	221.0	0.0630	13.4000	0.100
577-152-.15	1180.0	0.3429		
577-152-.45	140.0	0.0399	8.8000	0.100
577-152-.75	5.0	0.0014		
577-152-1.5	133.0	0.0379	8.3500	0.100
577-153-.15	128.0	0.0365	8.7000	0.100
577-153-.45	10.2	0.0029		

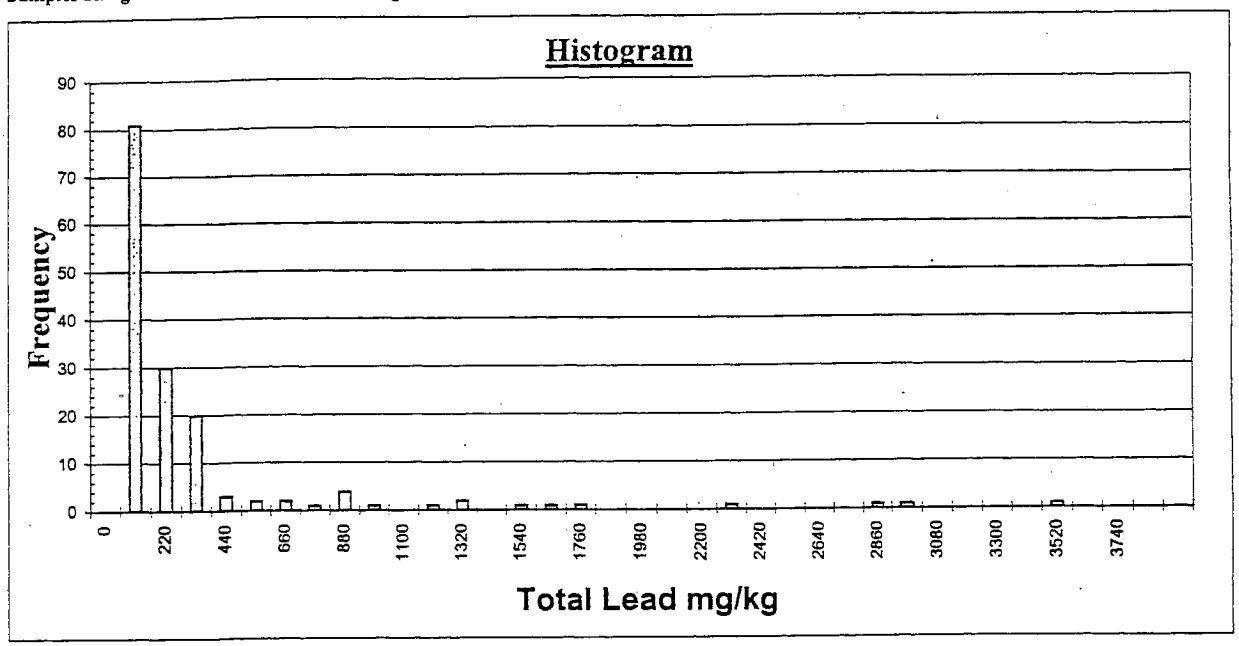
Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-153-.75	13.2	0.0038		
577-153-1.5	14.7	0.0042		
577-154-.15	63.8	0.0182	2.8000	
577-154-.45	117.0	0.0333	7.9000	0.100
577-154-.75	5.0	0.0014		
577-154-1.5	19.2	0.0055		
577-155-.15	260.0	0.0741	16.9000	0.270
577-155-.45	5.0	0.0014		
577-155-.75	229.0	0.0653	15.8000	0.100
577-155-1.5	332.0	0.0947	20.0000	0.320
577-156-.15	41.5	0.0118		
577-156-.45	21.3	0.0061		
577-156-.75	14.4	0.0041		
577-156-1.5	288.0	0.0821	14.2000	0.100
577-157-.15	46.6	0.0133		
577-157-.45	151.0	0.0430	6.4000	0.200
577-158-.15	120.0	0.0342	7.0000	0.100
577-158-.45	34.2	0.0097		
577-158-.75	17.6	0.0050		
577-158-1.5	19.7	0.0056		
577-159-.15	70.3	0.0200	1.8500	
577-159-.45	56.0	0.0160	3.0000	
577-159-.75	18.6	0.0053		
577-159-1.5	19.0	0.0054		
577-160-.15	104.0	0.0296	3.0500	
577-160-.45	30.0	0.0085		
577-160-.75	5.0	0.0014		
577-160-1.5	193.0	0.0550	12.6000	0.460
577-161-.15	125.0	0.0356	10.8000	0.100
577-161-.45	14.5	0.0041		
577-161-.75	5.0	0.0014		
577-161-1.5	5.0	0.0014		
577-162-.15	245.0	0.0699	13.5000	0.540
577-162-.45	78.4	0.0223	4.5500	
577-162-.75	46.1	0.0131		
577-162-1.5	226.0	0.0644	15.2000	0.230
577-163-.15	92.8	0.0264	4.2000	
577-163-.45	17.3	0.0049		
577-163-.75	5.0	0.0014		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-163-1.5	5.0	0.0014		
577-200- 15	189.0	0.0539	15.8000	0.570
577-200- 45	5.0	0.0014		
577-200- 75	5.0	0.0014		
577-200-1.5	112.0	0.0319	4.2500	
577-201- 15	396.0	0.1131	22.3000	1.290
577-201-.45	187.0	0.0533	11.3000	0.490
577-201- 75	119.0	0.0339	11.2000	0.320
577-201-1 5	83.2	0.0237	7.5000	0.460
577-202- 15	847.0	0.2437	42.8000	2.200
577-202- 45	293.0	0.0836	29.4000	1.560
577-202-.75	472.0	0.1349	40.3000	0.780
577-202-1.5	327.0	0.0933	26.9000	2.290
577-203- 15	61.9	0.0176	4.7500	
577-203- 45	22.5	0.0064		
577-203-.75	73.8	0.0210	6.9000	0.270
577-203-1 5	145.0	0.0413	7.5500	0.610
577-204- 15	132.0	0.0376	8.9500	0.100
577-204-.45	18.3	0.0052		
577-204- 75	10.3	0.0029		
577-204-1 5	5.0	0.0014		
577-205-.15	296.0	0.0844	21.8000	0.300
577-205- 45	83.8	0.0239	8.8500	0.510
577-205-.75	43.6	0.0124		
577-205-1.5	18.1	0.0052		
577-206-.15	261.0	0.0744	19.5000	1.430
577-206-.45	227.0	0.0647	19.2000	0.260
577-206-.75	101.0	0.0288	10.3000	0.560
577-206-1.5	82.4	0.0235	5.3000	0.100
577-207-.15	777.0	0.2232	54.9000	1.530
577-207-.45	208.0	0.0593	15.4000	0.860
577-207-.75	630.0	0.1805	36.8000	1.330
577-207-1.5	276.0	0.0787	21.7000	0.100
577-208-.15	53.9	0.0154	5.1000	0.310
577-208- 45	129.0	0.0368	11.3000	0.690
577-208-.75	188.0	0.0536	12.8000	0.760
577-208-1.5	103.0	0.0293	8.9000	0.890
577-209-.15	181.0	0.0516	9.8000	0.620
577-209- 45	99.5	0.0284	6.4000	0.240

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-209- 75	161.0	0.0459	9.4000	0.480
577-209-1.5	148.0	0.0422	8.2000	0.260
577-210-.15	35.0	0.0100		
577-210- 45	13.4	0.0038		
577-210-.75	17.0	0.0048		
577-210-1.5	18.0	0.0051		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Entire Northbound
Site Description:	Route 134 to Sherman Way
Layer Depth (Meter)	0.15+0.45+0.75+1.50
Samples Range:	577-136 through 577-210



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Entire Northbound
Site Description: Route 134 to Sherman Way
Layer Depth (Meter) 0.15+0.45+0.75+1.50
Samples Range: 577-136 through 577-210

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= 1.287 T0.05= 1.655

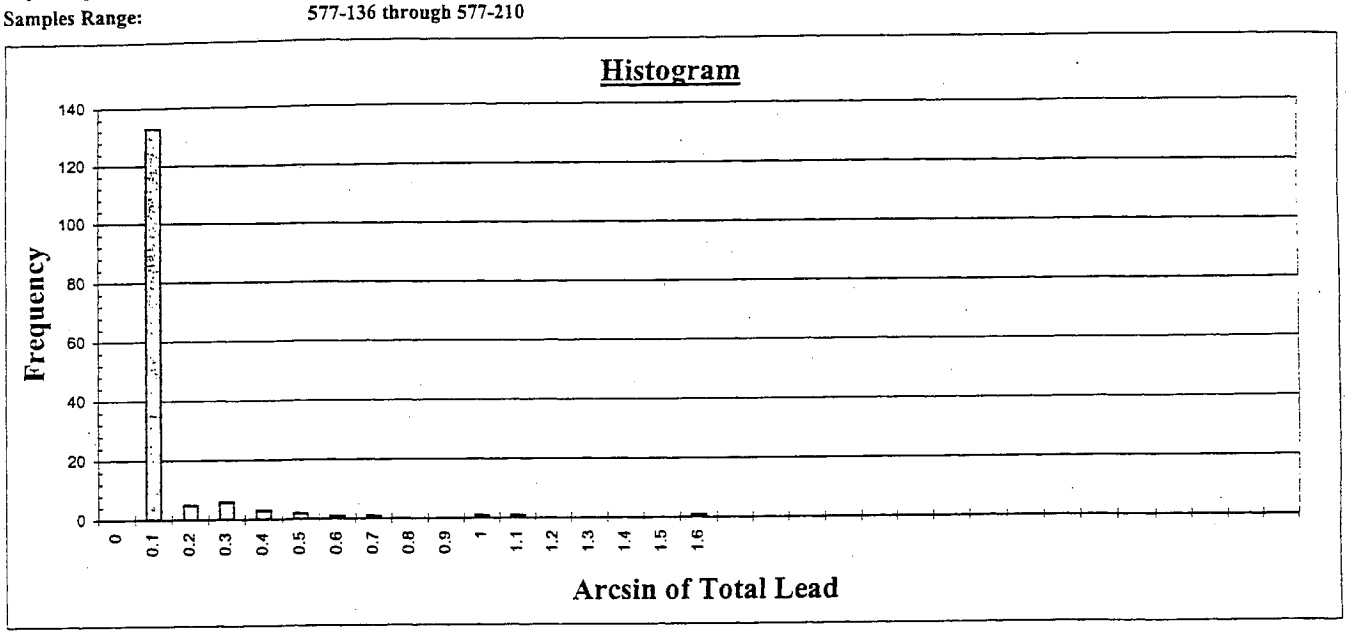
Analysis Term	Value
Mean	267.1
Standard Error	43.2
Median	99.0
Standard Deviation	535.7
Variance of Sample	286925.2
Range	3505.0
Minimum	5.0
Maximum	3510.0
Sum	41135.5
Count	154
Confidence Level (90.0%)	322.7

Analysis Term	Value
Mean	267.1
Standard Error	43.2
Median	99.0
Standard Deviation	535.7
Variance of Sample	286925.2
Range	3505.0
Minimum	5.0
Maximum	3510.0
Sum	41135.5
Count	154
Confidence Level (95.0%)	338.5

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Entire Northbound
Site Description:	Route 134 to Sherman Way
Layer Depth (Meter)	0.15+0.45+0.75+1.50
Samples Range:	577-136 through 577-210



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Entire Northbound
Site Description:	Route 134 to Sherman Way
Layer Depth (Meter)	0.15+0.45+0.75+1.50
Samples Range:	577-136 through 577-210

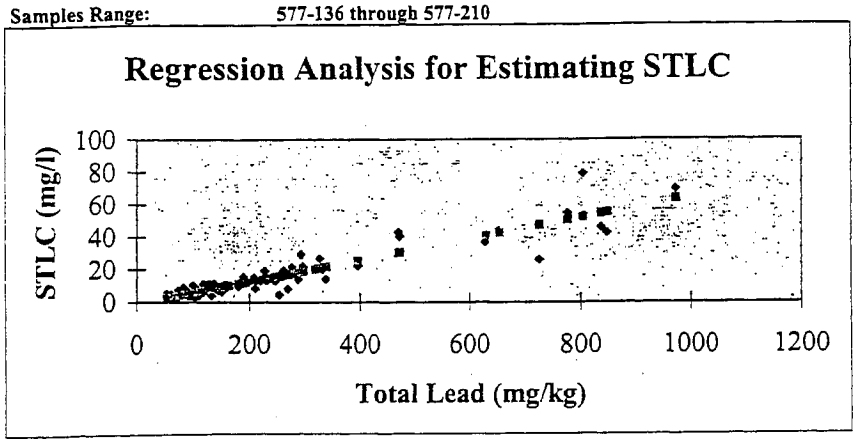
UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.2871101 T0.05= 1.655

Analysis Term	Value
Mean	290.0
Standard Error	0.0154
Mean (Arcsin Values)	0.0827
Standard Deviation	0.1905
Count	154
Confidence Level (90.0%)	359.1

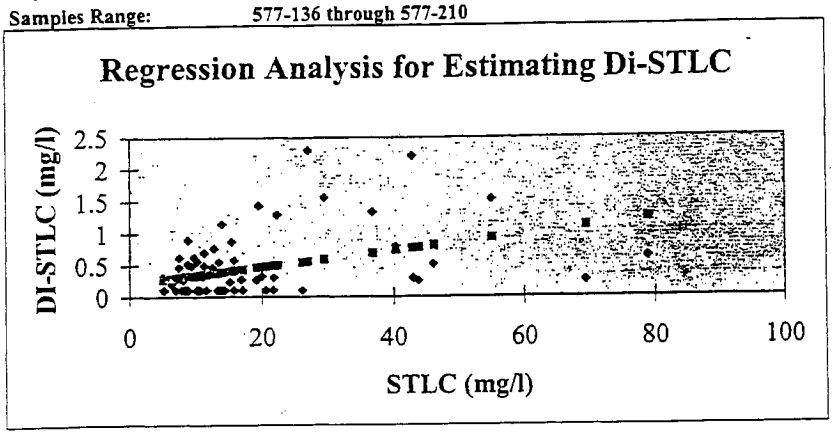
Analysis Term	Value
Mean	290.0
Standard Error	0.0154
Mean (Arcsin Values)	0.0827
Standard Deviation	0.1905
Count	154
Confidence Level (95.0%)	378.8

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Entire Northbound**
Site Description:	**Route 134 to Sherman Way**
Layer Depth (Meter)	**0.15+0.45+0.75+1.50**
Samples Range:	**577-136 through 577-210**



Correlation Coefficient=	0.93	,STLC	=	0.06594 *	Total Lead +		-0.392468023
Predicted STLC Value for UCL 90% Total Lead				359.1 mg/kg	=	23.28 mg/L	
Predicted STLC Value for UCL 95% Total Lead				378.8 mg/kg	=	24.58 mg/L	

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Entire Northbound
Site Description:	Route 134 to Sherman Way
Layer Depth (Meter)	0.15+0.45+0.75+1.50
Samples Range:	577-136 through 577-210



Best Line Fit:	Di-STLC =	0.01312 *	STLC	+	0.204477
	Di-STLC Value for STLC	23.28 mg/L	=		0.510 mg/L
	Di-STLC Value for STLC	24.58 mg/L	=		0.527 mg/L

Route 170 (Northbound)
Combination of All Samples at a Depth of (0.15 m)

Statistic Analysis Datasheet

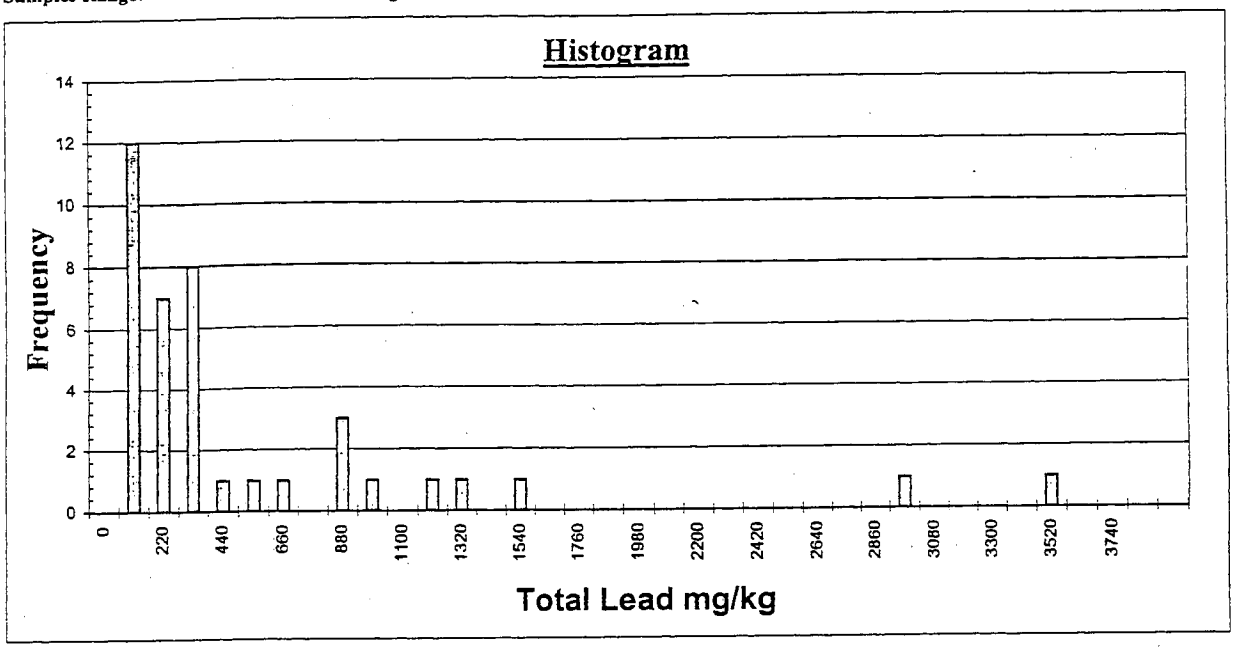
AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170;
Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB,
Site 4: Laurel Canyon Blvd./Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Entire Northbound
Site Description: Route 134 to Sherman Way
Layer Depth (Meter) 0.15
Samples Range: 577-136 through 577-210

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-136-.15	318.0	0.0907	20.6000	0.100
577-137-.15	98.5	0.0281	3.9000	
577-138-.15	68.6	0.0195	2.8000	
577-139-.15	837.0	0.2408	46.1000	0.510
577-140-.15	247.0	0.0704	13.4000	0.100
577-141-.15	2970.0	1.0087		
577-142-.15	973.0	0.2809	69.4000	0.250
577-143-.15	269.0	0.0767	8.3500	0.100
577-144-.15	1490.0	0.4384		
577-145-.15	655.0	0.1877	43.8000	0.250
577-146-.15	1320.0	0.3855		
577-147-.15	231.0	0.0659	13.3000	0.100
577-148-.15	3510.0	1.5708		
577-149-.15	470.0	0.1343	43.0000	0.290
577-150-.15	35.2	0.0100		
577-151-.15	155.0	0.0442	10.4000	0.100
577-152-.15	1180.0	0.3429		
577-153-.15	128.0	0.0365	8.7000	0.100
577-154-.15	63.8	0.0182	2.8000	
577-155-.15	260.0	0.0741	16.9000	0.270
577-156-.15	41.5	0.0118		
577-157-.15	46.6	0.0133		
577-158-.15	120.0	0.0342	7.0000	0.100
577-159-.15	70.3	0.0200	1.8500	
577-160-.15	104.0	0.0296	3.0500	
577-161-.15	125.0	0.0356	10.8000	0.100
577-162-.15	245.0	0.0699	13.5000	0.540
577-163-.15	92.8	0.0264	4.2000	
577-200-.15	189.0	0.0539	15.8000	0.570
577-201-.15	396.0	0.1131	22.3000	1.290
577-202-.15	847.0	0.2437	42.8000	2.200

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/Dl) Result mg/l
577-203-.15	61.9	0.0176	4.7500	
577-204-.15	132.0	0.0376	8.9500	0.100
577-205-.15	296.0	0.0844	21.8000	0.300
577-206-.15	261.0	0.0744	19.5000	1.430
577-207- 15	777.0	0.2232	54.9000	1.530
577-208- 15	53.9	0.0154	5.1000	0.310
577-209- 15	181.0	0.0516	9.8000	0.620
577-210- 15	35.0	0.0100		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd./Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Entire Northbound
Site Description:	Route 134 to Sherman Way
Layer Depth (Meter)	0.15
Samples Range:	577-136 through 577-210



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170;
Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB,
Site 4: Laurel Canyon Blvd./Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Entire Northbound
Site Description: Route 134 to Sherman Way
Layer Depth (Meter) 0.15
Samples Range: 577-136 through 577-210

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * Sx)
T0.10= *1.304* T0.05= *1.686*

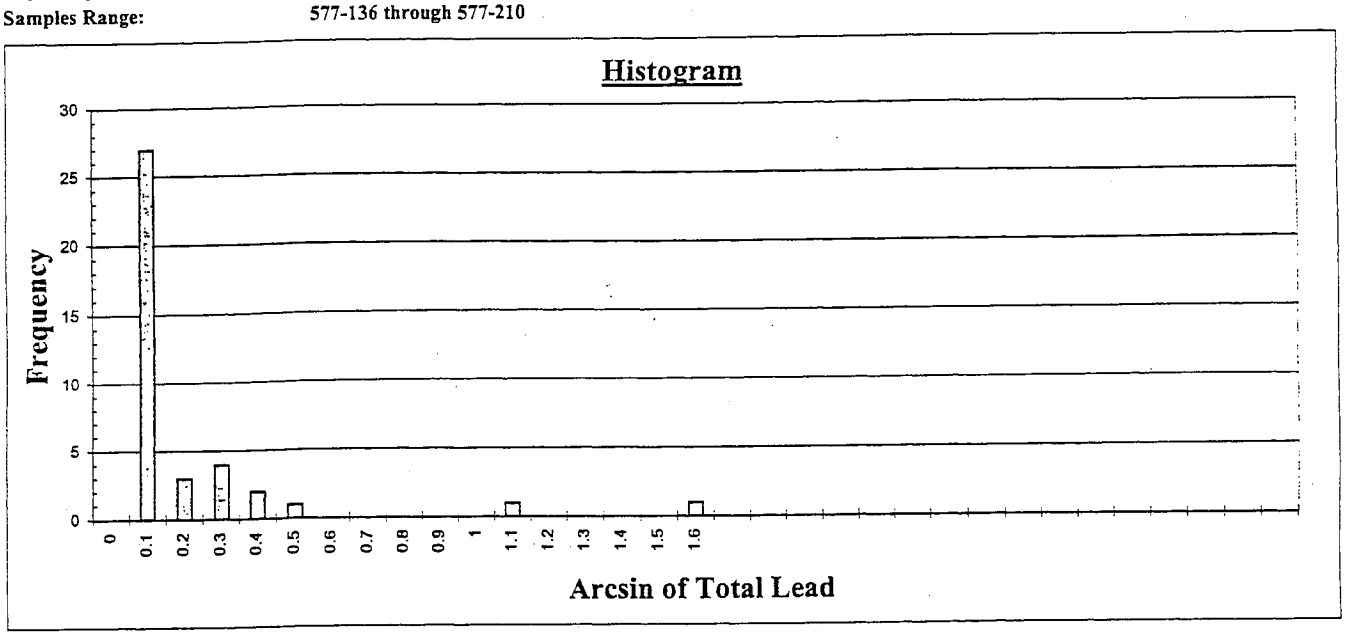
Analysis Term	Value
Mean	496.3
Standard Error	120.3
Median	231.0
Standard Deviation	751.3
Variance of Sample	564471.9
Range	3475.0
Minimum	35.0
Maximum	3510.0
Sum	19354.1
Count	39
Confidence Level (90.0%)	653.2

Analysis Term	Value
Mean	496.3
Standard Error	120.3
Median	231.0
Standard Deviation	751.3
Variance of Sample	564471.9
Range	3475.0
Minimum	35.0
Maximum	3510.0
Sum	19354.1
Count	39
Confidence Level (95.0%)	699.1

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd./Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Entire Northbound
Site Description:	Route 134 to Sherman Way
Layer Depth (Meter)	0.15
Samples Range:	577-136 through 577-210



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170;**
	Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB,
	Site 4: Laurel Canyon Blvd./Victory Blvd. SB, Site 5: Victory Blvd./Sherm
Analysis Made for:	**Entire Northbound**
Site Description:	**Route 134 to Sherman Way**
Layer Depth (Meter)	**0.15**
Samples Range:	**577-136 through 577-210**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= **1.3042302** **T0.05=** **1.686**

Analysis Term	Value
Mean	563.7
Standard Error	0.0472
Mean (Arcsin Values)	0.1613
Standard Deviation	0.2949
Count	39
Confidence Level (90.0%)	775.8

Analysis Term	Value
Mean	563.7
Standard Error	0.0472
Mean (Arcsin Values)	0.1613
Standard Deviation	0.2949
Count	39
Confidence Level (95.0%)	837.4

Route 170 (Northbound)
Combination of All Samples at Depths of (0.45+0.75+1.5 m)

Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Entire Northbound
Site Description: Route 134 to Sherman Way
Layer Depth (Meter) 0.45+0.75+1.50
Samples Range: 577-136 through 577-210

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-136-.45	133.0	0.0468	4.0500	
577-137-.45	14.1	0.0050		
577-138-.45	18.0	0.0063		
577-139-.45	70.5	0.0248	4.4000	
577-140-.45	1620.0	0.6070		
577-141-.45	1700.0	0.6417		
577-142-.45	2240.0	0.9087		
577-143-.45	804.0	0.2870	78.9000	0.620
577-144-.45	338.0	0.1193	14.4000	0.100
577-145-.45	245.0	0.0864	14.0000	1.140
577-146-.45	253.0	0.0892	4.7000	
577-147-.45	19.9	0.0070		
577-148-.45	2840.0	1.5708		
577-149-.45	56.9	0.0200	2.4000	
577-150-.45	24.3	0.0086		
577-151-.45	14.5	0.0051		
577-152-.45	140.0	0.0493	8.8000	0.100
577-153-.45	10.2	0.0036		
577-154-.45	117.0	0.0412	7.9000	0.100
577-155-.45	5.0	0.0018		
577-156-.45	21.3	0.0075		
577-157-.45	151.0	0.0532	6.4000	0.200
577-158-.45	34.2	0.0120		
577-159-.45	56.0	0.0197	3.0000	
577-160-.45	30.0	0.0106		
577-161-.45	14.5	0.0051		
577-162-.45	78.4	0.0276	4.5500	
577-163-.45	17.3	0.0061		
577-200-.45	5.0	0.0018		
577-201-.45	187.0	0.0659	11.3000	0.490
577-202-.45	293.0	0.1034	29.4000	1.560

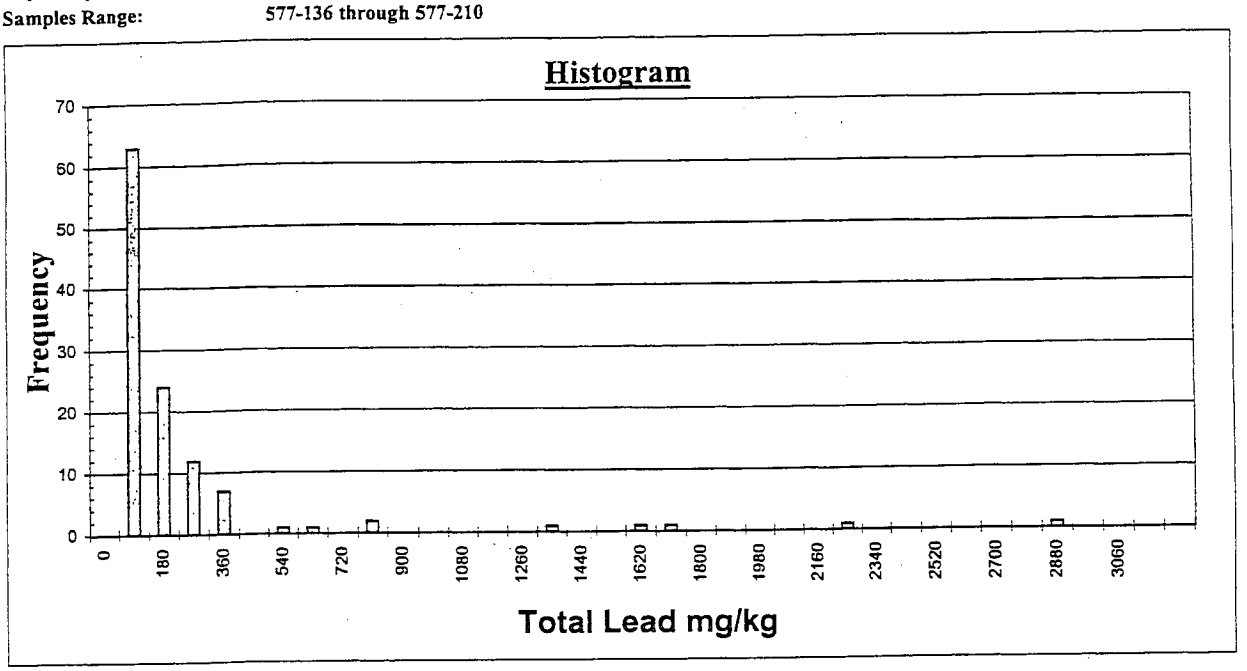
Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-203- 45	22.5	0.0079		
577-204- 45	18.3	0.0064		
577-205-.45	83.8	0.0295	8.8500	0.510
577-206- 45	227.0	0.0800	19.2000	0.260
577-207- 45	208.0	0.0733	15.4000	0.860
577-208- 45	129.0	0.0454	11.3000	0.690
577-209- 45	99.5	0.0350	6.4000	0.240
577-210-.45	13.4	0.0047		
577-136-.75	69.0	0.0243	5.1500	0.100
577-137-.75	20.5	0.0072		
577-138-.75	20.8	0.0073		
577-139-.75	159.0	0.0560	10.6000	0.100
577-140-.75	726.0	0.2585	26.0000	0.100
577-141-.75	163.0	0.0574	10.2000	0.100
577-142-.75	120.0	0.0423	7.0500	0.100
577-143-.75	12.5	0.0044		
577-144-.75	35.1	0.0124		
577-145-.75	211.0	0.0744	8.5000	0.100
577-146-.75	30.8	0.0108		
577-147-.75	30.6	0.0108		
577-148- 75	130.0	0.0458	8.8000	0.100
577-149-.75	90.5	0.0319	4.9000	
577-150- 75	282.0	0.0995	17.1000	0.100
577-151-.75	126.0	0.0444	8.6000	0.100
577-152-.75	5.0	0.0018		
577-153-.75	13.2	0.0046		
577-154- 75	5.0	0.0018		
577-155-.75	229.0	0.0807	15.8000	0.100
577-156-.75	14.4	0.0051		
577-158-.75	17.6	0.0062		
577-159-.75	18.6	0.0065		
577-160- 75	5.0	0.0018		
577-161-.75	5.0	0.0018		
577-162-.75	46.1	0.0162		
577-163-.75	5.0	0.0018		
577-200-.75	5.0	0.0018		
577-201-.75	119.0	0.0419	11.2000	0.320
577-202-.75	472.0	0.1670	40.3000	0.780
577-203-.75	73.8	0.0260	6.9000	0.270

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-204-75	10.3	0.0036		
577-205-75	43.6	0.0154		
577-206-75	101.0	0.0356	10.3000	0.560
577-207-75	630.0	0.2237	36.8000	1.330
577-208-75	188.0	0.0662	12.8000	0.760
577-209-75	161.0	0.0567	9.4000	0.480
577-210-75	17.0	0.0060		
577-136-1.5	229.0	0.0807	13.8000	0.100
577-137-1.5	16.7	0.0059		
577-138-1.5	34.0	0.0120		
577-139-1.5	138.0	0.0486	11.6000	0.100
577-140-1.5	14.4	0.0051		
577-141-1.5	91.8	0.0323	3.9000	
577-142-1.5	1320.0	0.4834		
577-143-1.5	5.0	0.0018		
577-144-1.5	39.8	0.0140		
577-145-1.5	12.3	0.0043		
577-146-1.5	96.5	0.0340	4.4500	
577-147-1.5	128.0	0.0451	8.7000	0.100
577-148-1.5	40.1	0.0141		
577-149-1.5	43.9	0.0155		
577-150-1.5	14.6	0.0051		
577-151-1.5	221.0	0.0779	13.4000	0.100
577-152-1.5	133.0	0.0468	8.3500	0.100
577-153-1.5	14.7	0.0052		
577-154-1.5	19.2	0.0068		
577-155-1.5	332.0	0.1172	20.0000	0.320
577-156-1.5	288.0	0.1016	14.2000	0.100
577-158-1.5	19.7	0.0069		
577-159-1.5	19.0	0.0067		
577-160-1.5	193.0	0.0680	12.6000	0.460
577-161-1.5	5.0	0.0018		
577-162-1.5	226.0	0.0797	15.2000	0.230
577-163-1.5	5.0	0.0018		
577-200-1.5	112.0	0.0394	4.2500	
577-201-1.5	83.2	0.0293	7.5000	0.460
577-202-1.5	327.0	0.1154	26.9000	2.290
577-203-1.5	145.0	0.0511	7.5500	0.610
577-204-1.5	5.0	0.0018		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-205-1.5	18.1	0.0064		
577-206-1.5	82.4	0.0290	5.3000	0.100
577-207-1.5	276.0	0.0973	21.7000	0.100
577-208-1.5	103.0	0.0363	8.9000	0.890
577-209-1.5	148.0	0.0521	8.2000	0.260
577-210-1.5	18.0	0.0063		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Entire Northbound
Site Description:	Route 134 to Sherman Way
Layer Depth (Meter)	0.45+0.75+1.50
Samples Range:	577-136 through 577-210



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 1 (Eastbound)
Site Description: Route 134 to Sherman Way
Layer Depth (Meter) 0.45+0.75+1.50
Samples Range: 577-136 through 577-210

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.289* T0.05= *1.658*

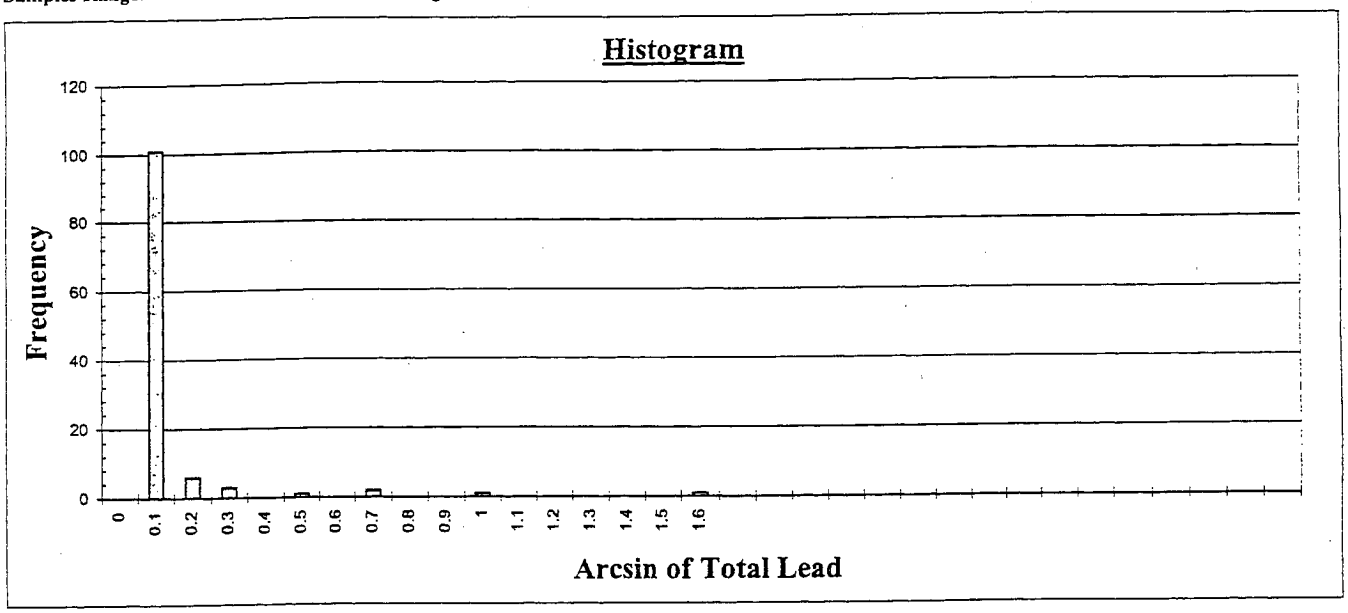
Analysis Term	Value
Mean	189.4
Standard Error	38.8
Median	70.5
Standard Deviation	415.8
Variance of Sample	172871.6
Range	2835.0
Minimum	5.0
Maximum	2840.0
Sum	21781.4
Count	115
Confidence Level (90.0%)	239.4

Analysis Term	Value
Mean	189.4
Standard Error	38.8
Median	70.5
Standard Deviation	415.8
Variance of Sample	172871.6
Range	2835.0
Minimum	5.0
Maximum	2840.0
Sum	21781.4
Count	115
Confidence Level (95.0%)	253.7

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 1 (Eastbound)
Site Description:	Route 134 to Sherman Way
Layer Depth (Meter)	0.45+0.75+1.50
Samples Range:	577-136 through 577-210



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 1 (Eastbound)**
Site Description:	**Route 134 to Sherman Way**
Layer Depth (Meter)	**0.45+0.75+1.50**
Samples Range:	**577-136 through 577-210**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.2890223 **T0.05=** 1.658

Analysis Term	Value
Mean	209.0
Standard Error	0.0177
Mean (Arcsin Values)	0.0737
Standard Deviation	0.1901
Count	115
Confidence Level (90.0%)	273.7

Analysis Term	Value
Mean	209.0
Standard Error	0.0177
Mean (Arcsin Values)	0.0737
Standard Deviation	0.1901
Count	115
Confidence Level (95.0%)	292.2

Route 170 (Northbound)
Combination of All Stage 1 Samples

Statistic Analysis Datasheet

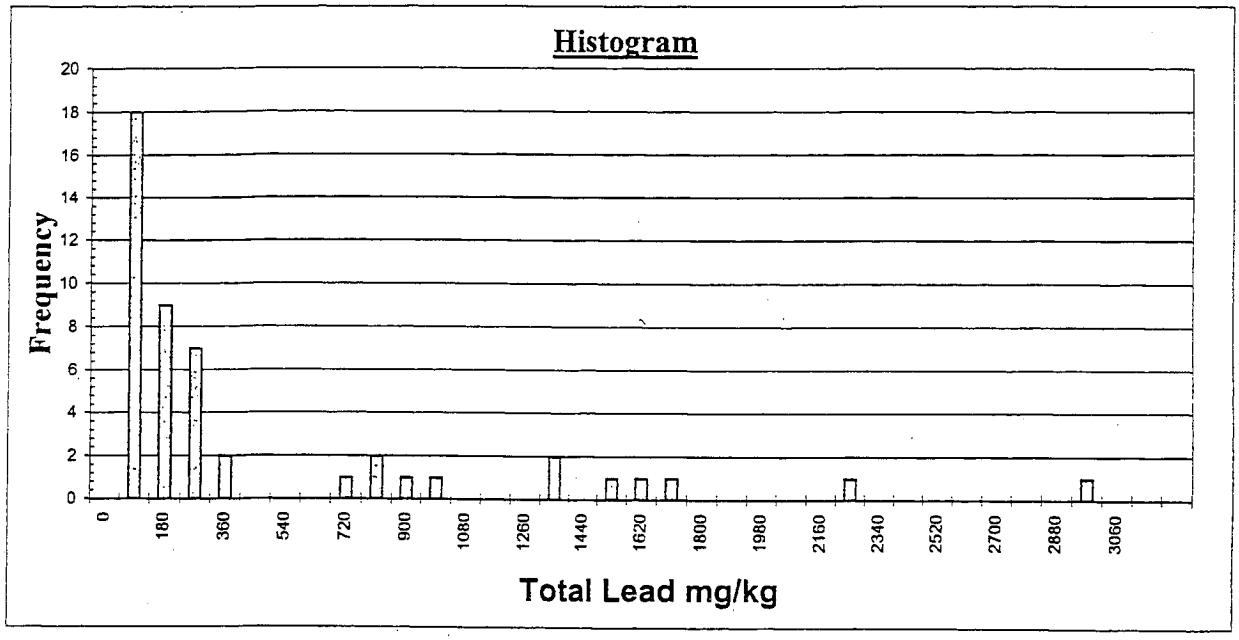
AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 1 (Northbound)
Site Description: Route 134 to Magnolia Blvd:NB
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-136 through 577-147

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-136-.15	318.0	0.1073	20.6000	0.100
577-136-.45	133.0	0.0448	4.0500	
577-136-.75	69.0	0.0232	5.1500	0.100
577-136-1.5	229.0	0.0772	13.8000	0.100
577-137-.15	98.5	0.0332	3.9000	
577-137-.45	14.1	0.0047		
577-137-.75	20.5	0.0069		
577-137-1.5	16.7	0.0056		
577-138-.15	68.6	0.0231	2.8000	
577-138-.45	18.0	0.0061		
577-138-.75	20.8	0.0070		
577-138-1.5	34.0	0.0114		
577-139-.15	837.0	0.2857	46.1000	0.510
577-139-.45	70.5	0.0237	4.4000	
577-139-.75	159.0	0.0536	10.6000	0.100
577-139-1.5	138.0	0.0465	11.6000	0.100
577-140-.15	247.0	0.0833	13.4000	0.100
577-140-.45	1620.0	0.5769		
577-140-.75	726.0	0.2469	26.0000	0.100
577-140-1.5	14.4	0.0048		
577-141-.15	2970.0	1.5708		
577-141-.45	1700.0	0.6094		
577-141-.75	163.0	0.0549	10.2000	0.100
577-141-1.5	91.8	0.0309	3.9000	
577-142-.15	973.0	0.3338	69.4000	0.250
577-142-.45	2240.0	0.8544		
577-142-.75	120.0	0.0404	7.0500	0.100
577-142-1.5	1320.0	0.4606		
577-143-.15	269.0	0.0907	8.3500	0.100
577-143-.45	804.0	0.2741	78.9000	0.620
577-143-.75	12.5	0.0042		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-143-1.5	5.0	0.0017		
577-144-.15	1490.0	0.5255		
577-144-.45	338.0	0.1141	14.4000	0.100
577-144-.75	35.1	0.0118		
577-144-1.5	39.8	0.0134		
577-145-.15	655.0	0.2224	43.8000	0.250
577-145-.45	245.0	0.0826	14.0000	1.140
577-145-.75	211.0	0.0711	8.5000	0.100
577-145-1.5	12.3	0.0041		
577-146-.15	1320.0	0.4606		
577-146-.45	253.0	0.0853	4.7000	
577-146-.75	30.8	0.0104		
577-146-1.5	96.5	0.0325	4.4500	
577-147-.15	231.0	0.0779	13.3000	0.100
577-147-.45	19.9	0.0067		
577-147-.75	30.6	0.0103		
577-147-1.5	128.0	0.0431	8.7000	0.100

Histogram for Total Lead

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 1 (Northbound)**
Site Description:	**Route 134 to Magnolia Blvd:NB**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-136 through 577-147**



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 1 (Northbound)
Site Description: Route 134 to Magnolia Blvd:NB
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-136 through 577-147

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.300* T0.05= *1.678*

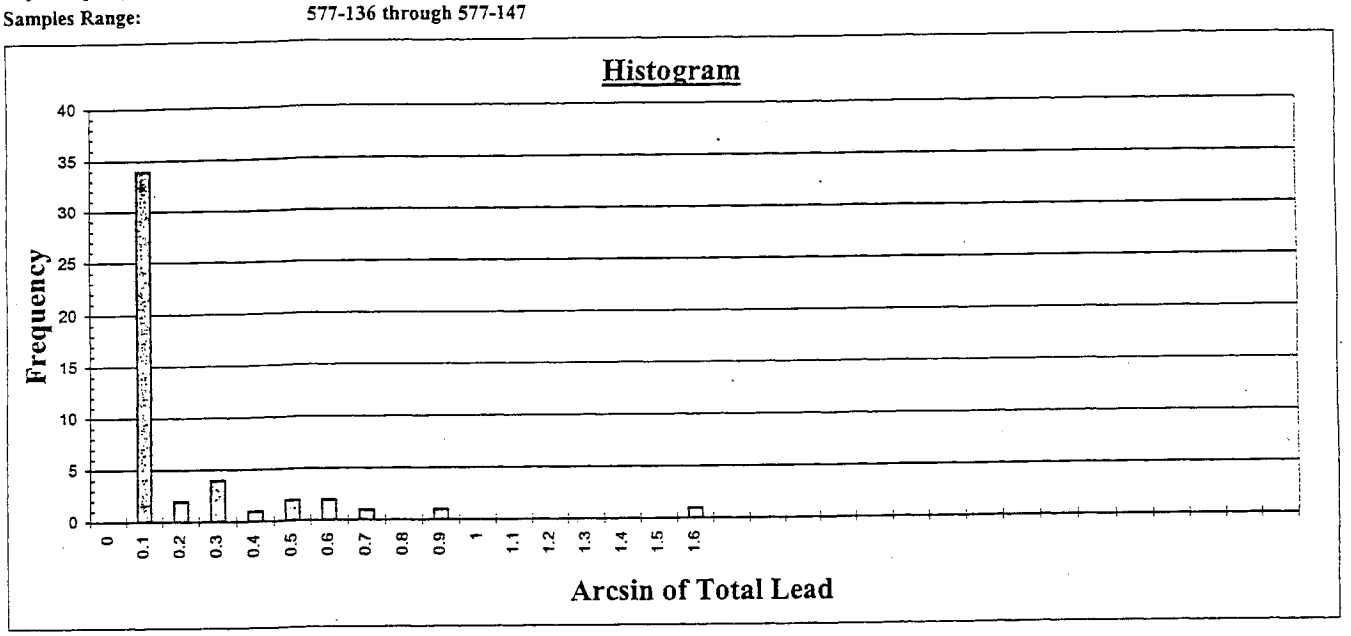
Analysis Term	Value
Mean	430.3
Standard Error	94.7
Median	135.5
Standard Deviation	655.8
Variance of Sample	430023.3
Range	2965.0
Minimum	5.0
Maximum	2970.0
Sum	20656.4
Count	8
Confidence Level (90.0%)	553.4

Analysis Term	Value
Mean	430.3
Standard Error	94.7
Median	135.5
Standard Deviation	655.8
Variance of Sample	430023.3
Range	2965.0
Minimum	5.0
Maximum	2970.0
Sum	20656.4
Count	48
Confidence Level (95.0%)	589.2

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 1 (Northbound)
Site Description:	Route 134 to Magnolia Blvd:NB
Layer Depth (Meter)	0.15+0.45+0.75+1.5
Samples Range:	577-136 through 577-147



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 1 (Northbound)**
Site Description:	**Route 134 to Magnolia Blvd:NB**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-136 through 577-147**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.2998248 **T0.05=** 1.678

Analysis Term	Value
Mean	478.6
Standard Error	0.0411
Mean (Arcsin Values)	0.1619
Standard Deviation	0.2848
Count	48
Confidence Level (90.0%)	634.5

Analysis Term	Value
Mean	478.6
Standard Error	0.0411
Mean (Arcsin Values)	0.1619
Standard Deviation	0.2848
Count	48
Confidence Level (95.0%)	679.6

Route 170 (Northbound)
Combination of All Stage 1 Samples at a Depth of (0.15 m)

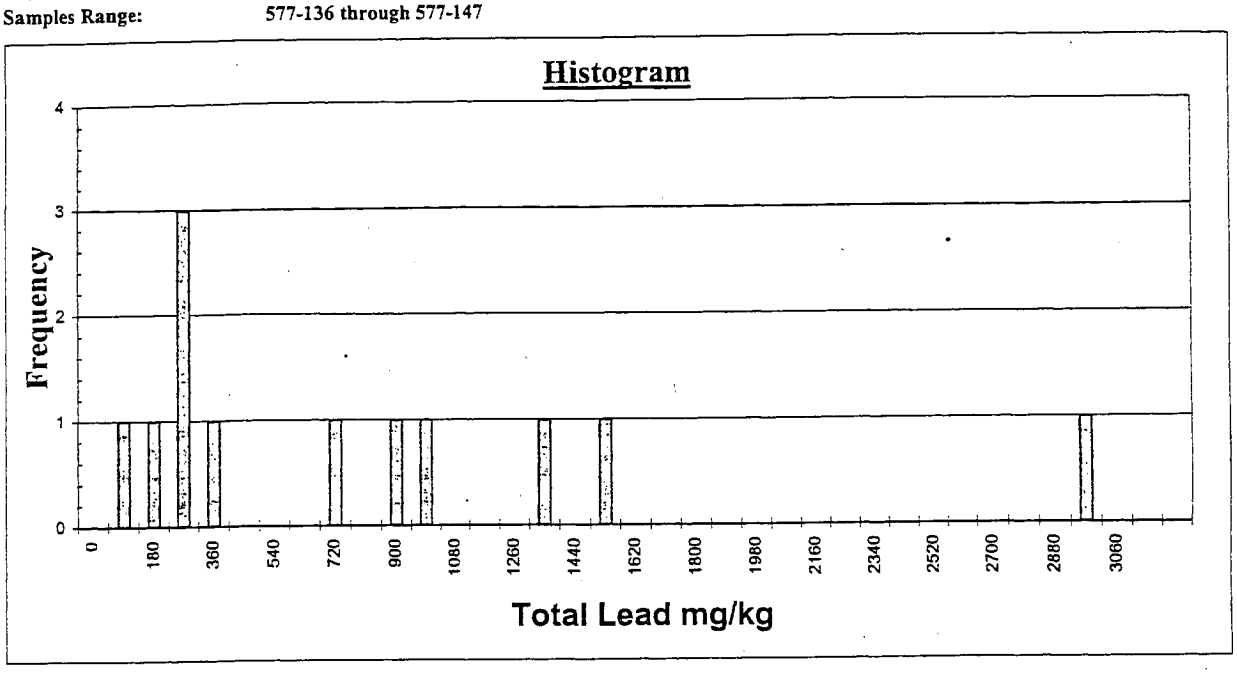
Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 1 (Northbound)
Site Description: Route 134 to Magnolia Blvd:NB
Layer Depth (Meter) 0.15
Samples Range: 577-136 through 577-147

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-136- 15	318.0	0.1073	20.6000	0.100
577-137-.15	98.5	0.0332	3.9000	
577-138- 15	68.6	0.0231	2.8000	
577-139-.15	837.0	0.2857	46.1000	0.510
577-140- 15	247.0	0.0833	13.4000	0.100
577-141-.15	2970.0	1.5708		
577-142-.15	973.0	0.3338	69.4000	0.250
577-143-.15	269.0	0.0907	8.3500	0.100
577-144- 15	1490.0	0.5255		
577-145- 15	655.0	0.2224	43.8000	0.250
577-146- 15	1320.0	0.4606		
577-147-.15	231.0	0.0779	13.3000	0.100

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 1 (Northbound)
Site Description:	Route 134 to Magnolia Blvd:NB
Layer Depth (Meter)	0.15
Samples Range:	577-136 through 577-147



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 1 (Northbound)
Site Description: Route 134 to Magnolia Blvd:NB
Layer Depth (Meter) 0.15
Samples Range: 577-136 through 577-147

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X + T * S x)

T0.10= *1.363* T0.05= *1.796*

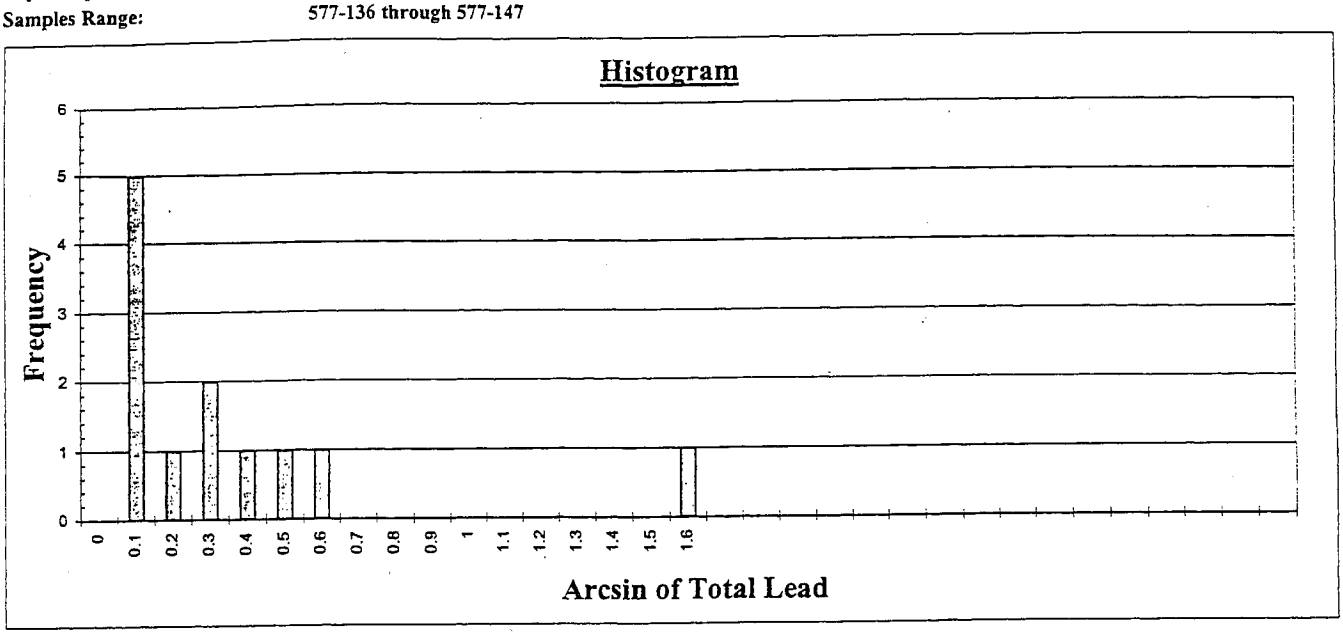
Analysis Term	Value
Mean	789.8
Standard Error	241.2
Median	486.5
Standard Deviation	835.4
Variance of Sample	697942.5
Range	2901.4
Minimum	68.6
Maximum	2970.0
Sum	9477.1
Count	12
Confidence Level (90.0%)	1118.6

Analysis Term	Value
Mean	789.8
Standard Error	241.2
Median	486.5
Standard Deviation	835.4
Variance of Sample	697942.5
Range	2901.4
Minimum	68.6
Maximum	2970.0
Sum	9477.1
Count	12
Confidence Level (95.0%)	1222.9

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 1 (Northbound)
Site Description:	Route 134 to Magnolia Blvd:NB
Layer Depth (Meter)	0.15
Samples Range:	577-136 through 577-147



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 1 (Northbound)**
Site Description:	**Route 134 to Magnolia Blvd:NB**
Layer Depth (Meter)	**0.15**
Samples Range:	**577-136 through 577-147**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= **1.3634303** **T0.05=** **1.796**

Analysis Term	Value
Mean	928.2
Standard Error	0.1237
Mean (Arcsin Values)	0.3178
Standard Deviation	0.4286
Count	12
Confidence Level (90.0%)	1388.6

Analysis Term	Value
Mean	928.2
Standard Error	0.1237
Mean (Arcsin Values)	0.3178
Standard Deviation	0.4286
Count	12
Confidence Level (95.0%)	1527.0

Route 170 (Northbound)
Combination of All Stage 1 Samples at Depths of (0.45+0.75+1.5 m)

Statistic Analysis Datasheet

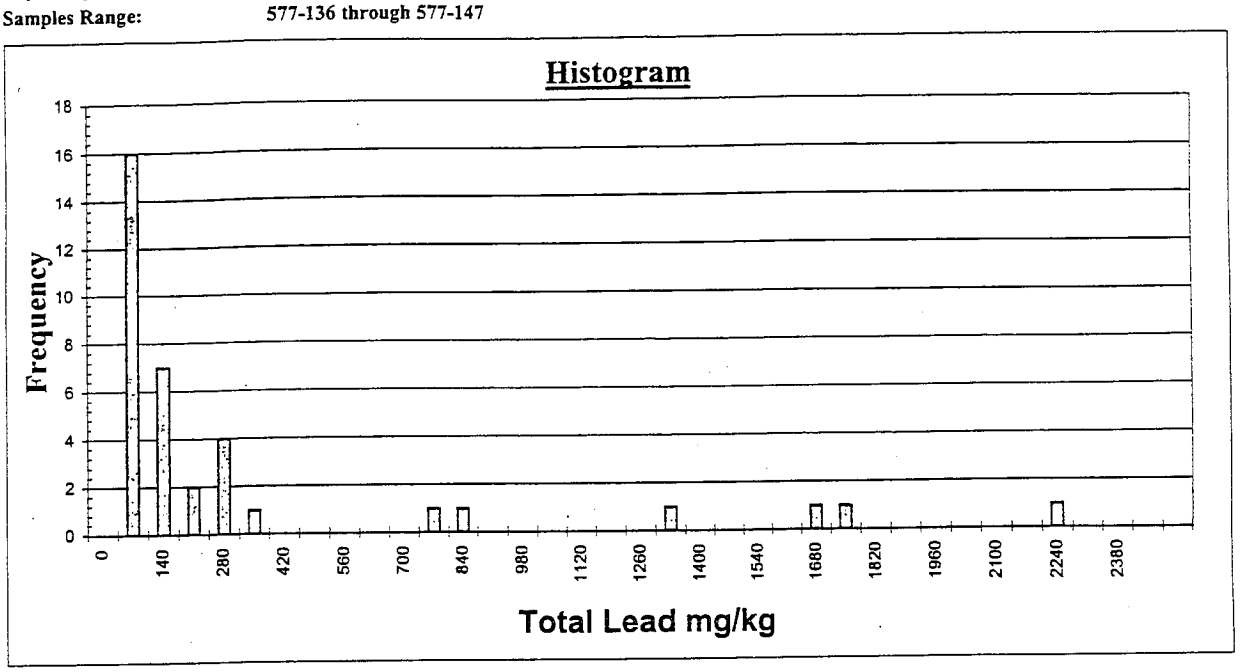
AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 1 (Northbound)
Site Description: Route 134 to Magnolia Blvd:NB
Layer Depth (Meter) 0.45+0.75+1.50
Samples Range: 577-136 through 577-147

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-136-.45	133.0	0.0594	4.0500	
577-137-.45	14.1	0.0063		
577-138-.45	18.0	0.0080		
577-139-.45	70.5	0.0315	4.4000	
577-140-.45	1620.0	0.8084		
577-141-.45	1700.0	0.8617		
577-142-.45	2240.0	1.5708		
577-143-.45	804.0	0.3671	78.9000	0.620
577-144-.45	338.0	0.1515	14.4000	0.100
577-145-.45	245.0	0.1096	14.0000	1.140
577-146-.45	253.0	0.1132	4.7000	
577-147-.45	19.9	0.0089		
577-136-.75	69.0	0.0308	5.1500	0.100
577-137-.75	20.5	0.0092		
577-138-.75	20.8	0.0093		
577-139-.75	159.0	0.0710	10.6000	0.100
577-140-.75	726.0	0.3301	26.0000	0.100
577-141-.75	163.0	0.0728	10.2000	0.100
577-142-.75	120.0	0.0536	7.0500	0.100
577-143-.75	12.5	0.0056		
577-144-.75	35.1	0.0157		
577-145-.75	211.0	0.0943	8.5000	0.100
577-146-.75	30.8	0.0138		
577-147-.75	30.6	0.0137		
577-136-1.5	229.0	0.1024	13.8000	0.100
577-137-1.5	16.7	0.0075		
577-138-1.5	34.0	0.0152		
577-139-1.5	138.0	0.0616	11.6000	0.100
577-140-1.5	14.4	0.0064		
577-141-1.5	91.8	0.0410	3.9000	
577-142-1.5	1320.0	0.6302		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-143-1.5	5.0	0.0022		
577-144-1.5	39.8	0.0178		
577-145-1.5	12.3	0.0055		
577-146-1.5	96.5	0.0431	4.4500	
577-147-1.5	128.0	0.0572	8.7000	0.100

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 1 (Northbound)
Site Description:	Route 134 to Magnolia Blvd:NB
Layer Depth (Meter)	0.45+0.75+1.50
Samples Range:	577-136 through 577-147



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 1 (Northbound)
Site Description: Route 134 to Magnolia Blvd:NB
Layer Depth (Meter) 0.45+0.75+1.50
Samples Range: 577-136 through 577-147

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.306* T0.05= *1.690*

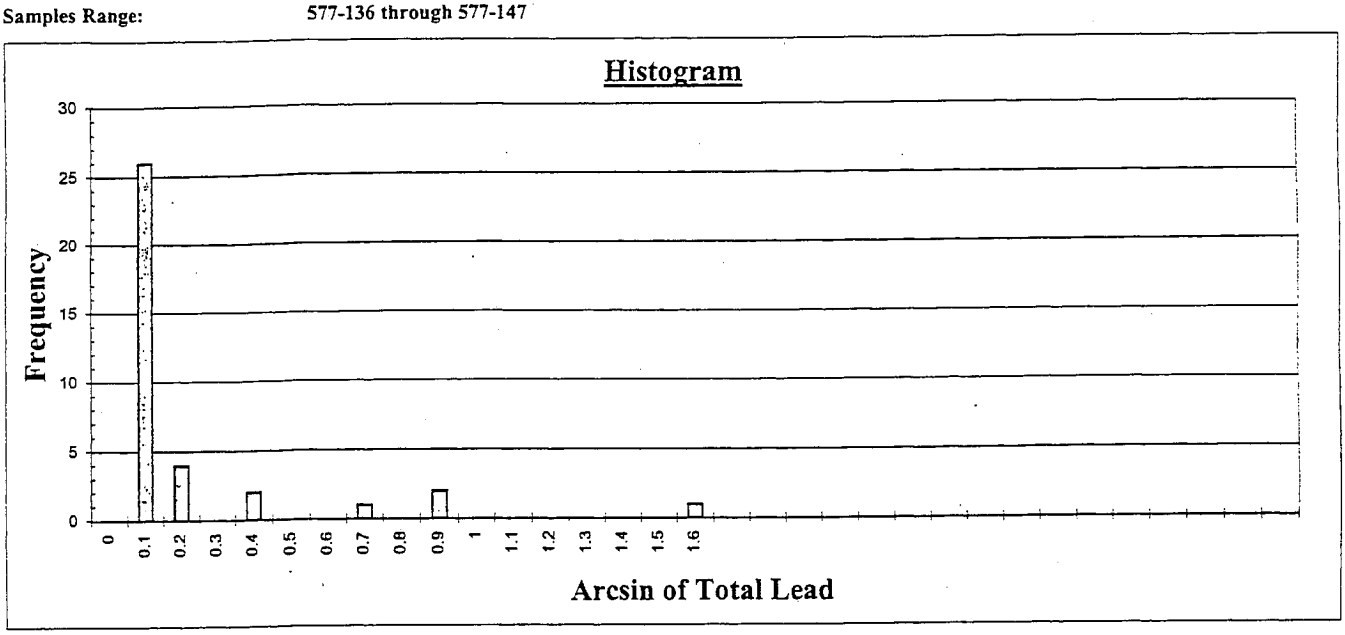
Analysis Term	Value
Mean	310.5
Standard Error	91.1
Median	94.2
Standard Deviation	546.9
Variance of Sample	299052.6
Range	2235.0
Minimum	5.0
Maximum	2240.0
Sum	11179.3
Count	36
Confidence Level (90.0%)	429.6

Analysis Term	Value
Mean	310.5
Standard Error	91.1
Median	94.2
Standard Deviation	546.9
Variance of Sample	299052.6
Range	2235.0
Minimum	5.0
Maximum	2240.0
Sum	11179.3
Count	36
Confidence Level (95.0%)	464.5

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 1 (Northbound)
Site Description:	Route 134 to Magnolia Blvd:NB
Layer Depth (Meter)	0.45+0.75+1.50
Samples Range:	577-136 through 577-147



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 1 (Northbound)**
Site Description:	**Route 134 to Magnolia Blvd:NB**
Layer Depth (Meter)	**0.45+0.75+1.50**
Samples Range:	**577-136 through 577-147**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3062117 **T0.05=** 1.690

Analysis Term	Value
Mean	359.7
Standard Error	0.0539
Mean (Arcsin Values)	0.1613
Standard Deviation	0.3236
Count	36
Confidence Level (90.0%)	514.5

Analysis Term	Value
Mean	359.7
Standard Error	0.0539
Mean (Arcsin Values)	0.1613
Standard Deviation	0.3236
Count	36
Confidence Level (95.0%)	559.4

Route 170 (Northbound)
Combination of All Stage 1 Samples at Depths of (0.15+0.45 m)

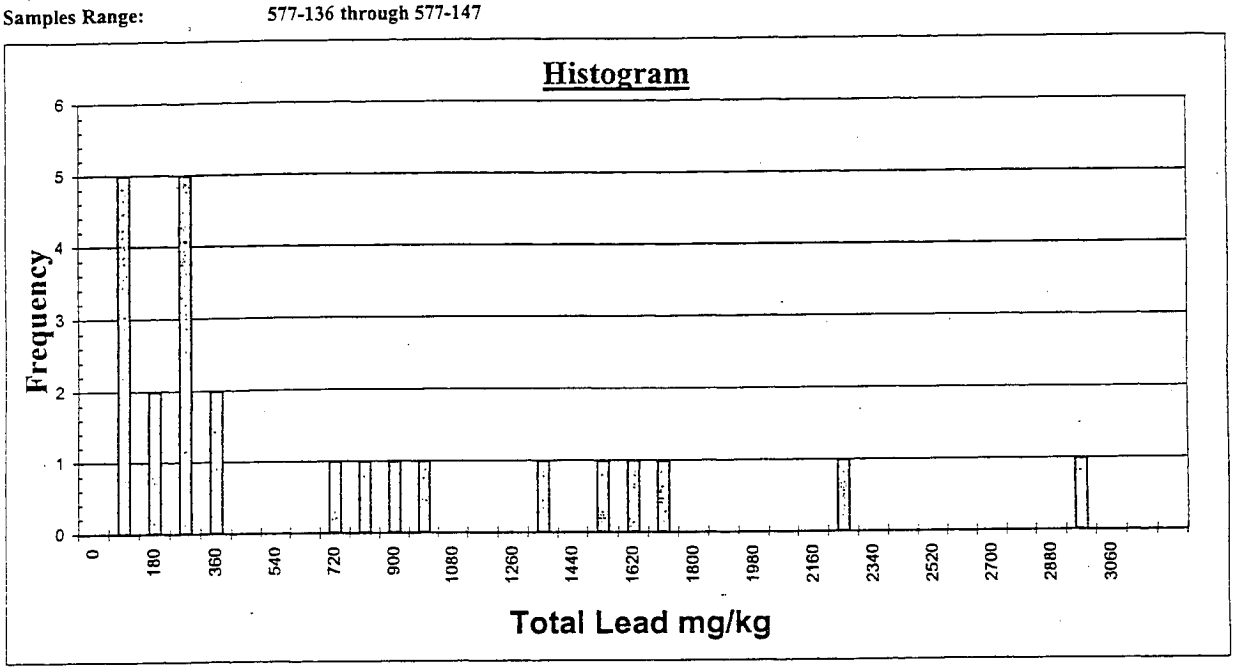
Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 1 (Northbound)
Site Description: Route 134 to Magnolia Blvd:NB
Layer Depth (Meter) 0.15+0.45
Samples Range: 577-136 through 577-147

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-136-.15	318.0	0.1073	20.6000	0.100
577-137-.15	98.5	0.0332	3.9000	
577-138-.15	68.6	0.0231	2.8000	
577-139-.15	837.0	0.2857	46.1000	0.510
577-140-.15	247.0	0.0833	13.4000	0.100
577-141-.15	2970.0	1.5708		
577-142-.15	973.0	0.3338	69.4000	0.250
577-143-.15	269.0	0.0907	8.3500	0.100
577-144-.15	1490.0	0.5255		
577-145-.15	655.0	0.2224	43.8000	0.250
577-146-.15	1320.0	0.4606		
577-147-.15	231.0	0.0779	13.3000	0.100
577-136-.45	133.0	0.0448	4.0500	
577-137-.45	14.1	0.0047		
577-138-.45	18.0	0.0061		
577-139-.45	70.5	0.0237	4.4000	
577-140-.45	1620.0	0.5769		
577-141-.45	1700.0	0.6094		
577-142-.45	2240.0	0.8544		
577-143-.45	804.0	0.2741	78.9000	0.620
577-144-.45	338.0	0.1141	14.4000	0.100
577-145-.45	245.0	0.0826	14.0000	1.140
577-146-.45	253.0	0.0853	4.7000	
577-147-.45	19.9	0.0067		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 1 (Northbound)
Site Description:	Route 134 to Magnolia Blvd:NB
Layer Depth (Meter)	0.15+0.45
Samples Range:	577-136 through 577-147



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 1 (Northbound)
Site Description: Route 134 to Magnolia Blvd:NB
Layer Depth (Meter) 0.15+0.45
Samples Range: 577-136 through 577-147

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.319* T0.05= *1.714*

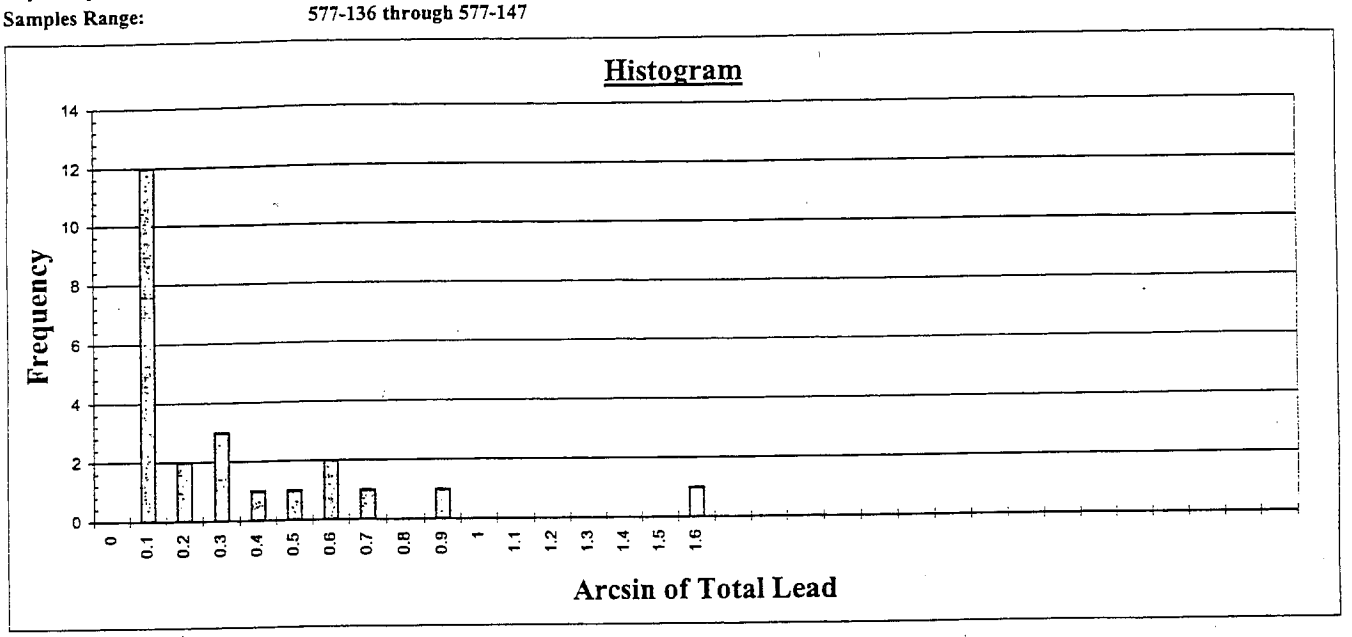
Analysis Term	Value
Mean	705.5
Standard Error	162.9
Median	293.5
Standard Deviation	798.3
Variance of Sample	637212.4
Range	2955.9
Minimum	14.1
Maximum	2970.0
Sum	16932.6
Count	24
Confidence Level (90.0%)	920.5

Analysis Term	Value
Mean	705.5
Standard Error	162.9
Median	293.5
Standard Deviation	798.3
Variance of Sample	637212.4
Range	2955.9
Minimum	14.1
Maximum	2970.0
Sum	16932.6
Count	24
Confidence Level (95.0%)	984.8

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 1 (Northbound)
Site Description:	Route 134 to Magnolia Blvd:NB
Layer Depth (Meter)	0.15+0.45
Samples Range:	577-136 through 577-147



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 1 (Northbound)**
Site Description:	**Route 134 to Magnolia Blvd:NB**
Layer Depth (Meter)	**0.15+0.45**
Samples Range:	**577-136 through 577-147**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3194608 **T0.05=** 1.714

Analysis Term	Value
Mean	794.2
Standard Error	0.0739
Mean (Arcsin Values)	0.2707
Standard Deviation	0.3619
Count	24
Confidence Level (90.0%)	1069.0

Analysis Term	Value
Mean	794.2
Standard Error	0.0739
Mean (Arcsin Values)	0.2707
Standard Deviation	0.3619
Count	24
Confidence Level (95.0%)	1149.3

Route 170 (Northbound)
Combination of All Stage 1 Samples at Depths of (0.75+1.5 m)

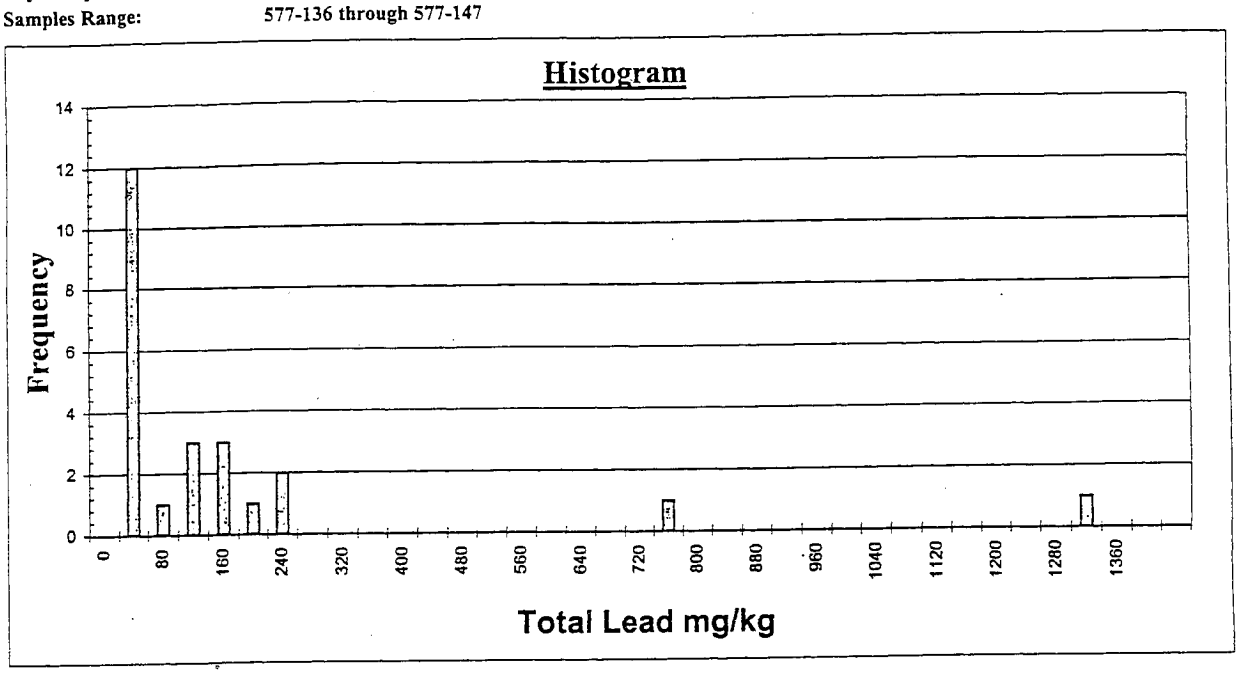
Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 1 (Northbound)
Site Description: Route 134 to Magnolia Blvd:NB
Layer Depth (Meter) 0.75+1.5
Samples Range: 577-136 through 577-147

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-136-.75	69.0	0.0523	5.1500	0.100
577-137-.75	20.5	0.0155		
577-138-.75	20.8	0.0158		
577-139-.75	159.0	0.1207	10.6000	0.100
577-140-.75	726.0	0.5824	26.0000	0.100
577-141-.75	163.0	0.1238	10.2000	0.100
577-142-.75	120.0	0.0910	7.0500	0.100
577-143-.75	12.5	0.0095		
577-144-.75	35.1	0.0266		
577-145-.75	211.0	0.1605	8.5000	0.100
577-146-.75	30.8	0.0233		
577-147-.75	30.6	0.0232		
577-136-1.5	229.0	0.1744	13.8000	0.100
577-137-1.5	16.7	0.0127		
577-138-1.5	34.0	0.0258		
577-139-1.5	138.0	0.1047	11.6000	0.100
577-140-1.5	14.4	0.0109		
577-141-1.5	91.8	0.0696	3.9000	
577-142-1.5	1320.0	1.5708		
577-143-1.5	5.0	0.0038		
577-144-1.5	39.8	0.0302		
577-145-1.5	12.3	0.0093		
577-146-1.5	96.5	0.0732	4.4500	
577-147-1.5	128.0	0.0971	8.7000	0.100

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 1 (Northbound)
Site Description:	Route 134 to Magnolia Blvd:NB
Layer Depth (Meter)	0.75+1.5
Samples Range:	577-136 through 577-147



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 1 (Northbound)
Site Description: Route 134 to Magnolia Blvd:NB
Layer Depth (Meter) 0.75+1.5
Samples Range: 577-136 through 577-147

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.319* T0.05= *1.714*

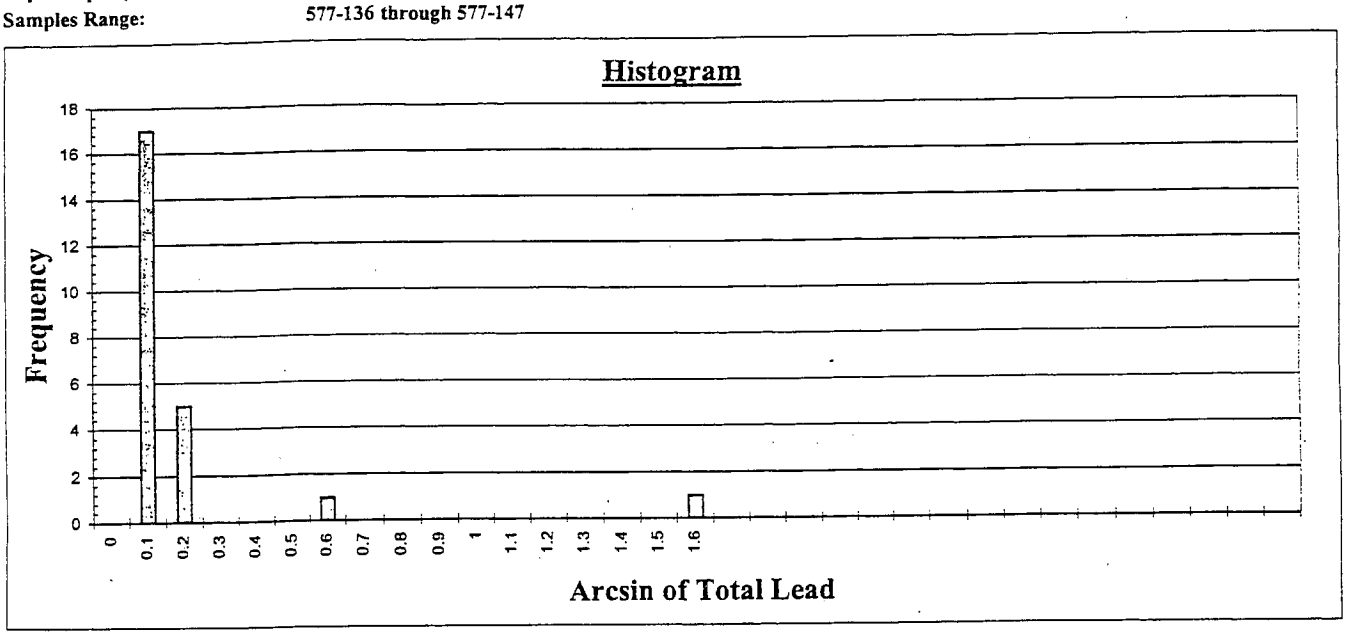
Analysis Term	Value
Mean	155.2
Standard Error	59.0
Median	54.4
Standard Deviation	289.0
Variance of Sample	83494.2
Range	1315.0
Minimum	5.0
Maximum	1320.0
Sum	3723.8
Count	24
Confidence Level (90.0%)	233.0

Analysis Term	Value
Mean	155.2
Standard Error	59.0
Median	54.4
Standard Deviation	289.0
Variance of Sample	83494.2
Range	1315.0
Minimum	5.0
Maximum	1320.0
Sum	3723.8
Count	24
Confidence Level (95.0%)	256.2

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 1 (Northbound)
Site Description:	Route 134 to Magnolia Blvd:NB
Layer Depth (Meter)	0.75+1.5
Samples Range:	577-136 through 577-147



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 1 (Northbound)**
Site Description:	**Route 134 to Magnolia Blvd:NB**
Layer Depth (Meter)	**0.75+1.5**
Samples Range:	**577-136 through 577-147**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3194608 **T0.05=** 1.714

Analysis Term	Value
Mean	187.8
Standard Error	0.0666
Mean (Arcsin Values)	0.1428
Standard Deviation	0.3263
Count	24
Confidence Level (90.0%)	301.8

Analysis Term	Value
Mean	187.8
Standard Error	0.0666
Mean (Arcsin Values)	0.1428
Standard Deviation	0.3263
Count	24
Confidence Level (95.0%)	335.5

Route 170 (Northbound)
Combination of All Stage 2 Samples

Statistic Analysis Datasheet

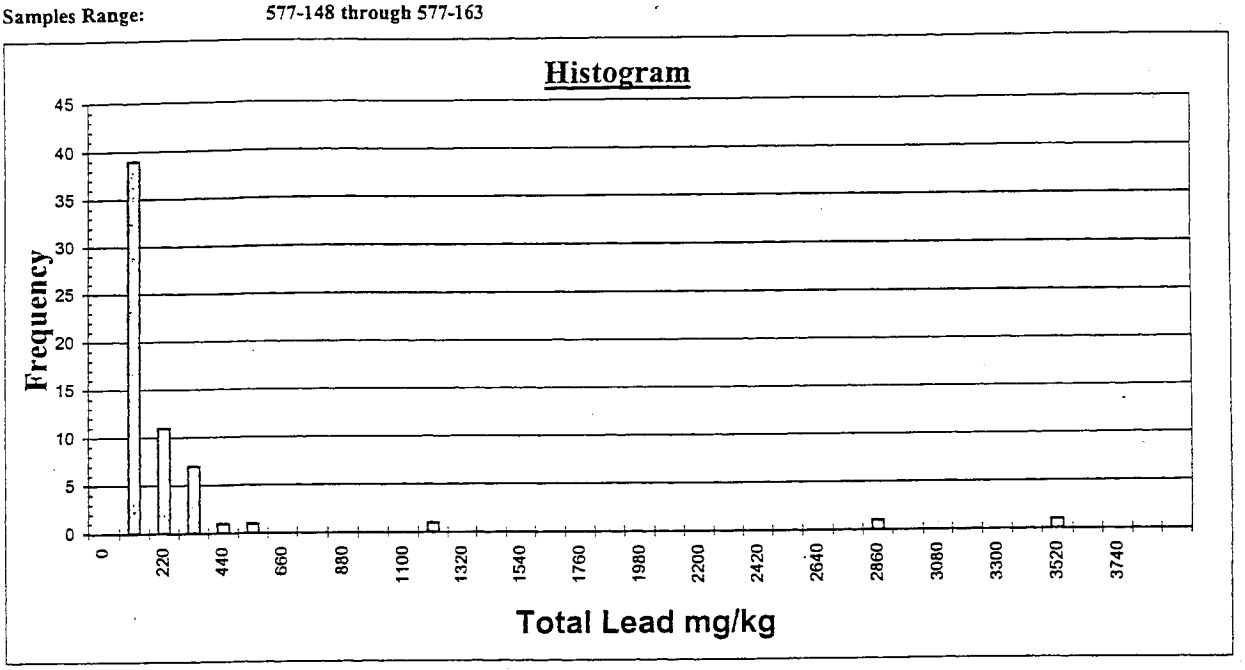
AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 2 (Northbound)
Site Description: From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-148 through 577-163

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-148-.15	3510.0	1.5708		
577-148-.45	2840.0	0.9426		
577-148-.75	130.0	0.0370	8.8000	0.100
577-148-1.5	40.1	0.0114		
577-149-.15	470.0	0.1343	43.0000	0.290
577-149-.45	56.9	0.0162	2.4000	
577-149-.75	90.5	0.0258	4.9000	
577-149-1.5	43.9	0.0125		
577-150-.15	35.2	0.0100		
577-150-.45	24.3	0.0069		
577-150-.75	282.0	0.0804	17.1000	0.100
577-150-1.5	14.6	0.0042		
577-151-.15	155.0	0.0442	10.4000	0.100
577-151-.45	14.5	0.0041		
577-151-.75	126.0	0.0359	8.6000	0.100
577-151-1.5	221.0	0.0630	13.4000	0.100
577-152-.15	1180.0	0.3429		
577-152-.45	140.0	0.0399	8.8000	0.100
577-152-.75	5.0	0.0014		
577-152-1.5	133.0	0.0379	8.3500	0.100
577-153-.15	128.0	0.0365	8.7000	0.100
577-153-.45	10.2	0.0029		
577-153-.75	13.2	0.0038		
577-153-1.5	14.7	0.0042		
577-154-.15	63.8	0.0182	2.8000	
577-154-.45	117.0	0.0333	7.9000	0.100
577-154-.75	5.0	0.0014		
577-154-1.5	19.2	0.0055		
577-155-.15	260.0	0.0741	16.9000	0.270
577-155-.45	5.0	0.0014		
577-155-.75	229.0	0.0653	15.8000	0.100

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-155-1.5	332.0	0.0947	20.0000	0.320
577-156-.15	41.5	0.0118		
577-156-.45	21.3	0.0061		
577-156-.75	14.4	0.0041		
577-156-1.5	288.0	0.0821	14.2000	0.100
577-157-.15	46.6	0.0133		
577-157-.45	151.0	0.0430	6.4000	0.200
577-158-.15	120.0	0.0342	7.0000	0.100
577-158-.45	34.2	0.0097		
577-158-.75	17.6	0.0050		
577-158-1.5	19.7	0.0056		
577-159-.15	70.3	0.0200	1.8500	
577-159-.45	56.0	0.0160	3.0000	
577-159-.75	18.6	0.0053		
577-159-1.5	19.0	0.0054		
577-160-.15	104.0	0.0296	3.0500	
577-160-.45	30.0	0.0085		
577-160-.75	5.0	0.0014		
577-160-1.5	193.0	0.0550	12.6000	0.460
577-161-.15	125.0	0.0356	10.8000	0.100
577-161-.45	14.5	0.0041		
577-161-.75	5.0	0.0014		
577-161-1.5	5.0	0.0014		
577-162-.15	245.0	0.0699	13.5000	0.540
577-162-.45	78.4	0.0223	4.5500	
577-162-.75	46.1	0.0131		
577-162-1.5	226.0	0.0644	15.2000	0.230
577-163-.15	92.8	0.0264	4.2000	
577-163-.45	17.3	0.0049		
577-163-.75	5.0	0.0014		
577-163-1.5	5.0	0.0014		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 2 (Northbound)
Site Description:	From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter)	0.15+0.45+0.75+1.5
Samples Range:	577-148 through 577-163



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 2 (Northbound)
Site Description: From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-148 through 577-163

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.296* T0.05= *1.670*

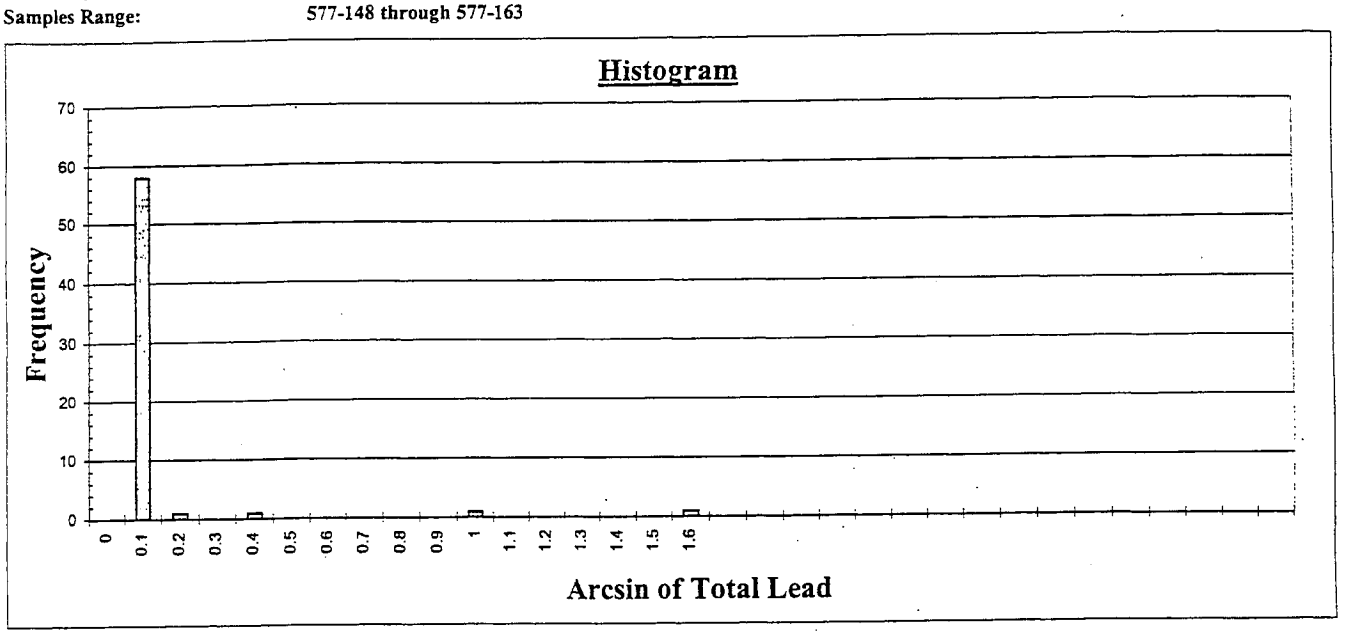
Analysis Term	Value
Mean	206.8
Standard Error	73.0
Median	51.3
Standard Deviation	575.2
Variance of Sample	330818.3
Range	3505.0
Minimum	5.0
Maximum	3510.0
Sum	12824.4
Count	62
Confidence Level (90.0%)	301.5

Analysis Term	Value
Mean	206.8
Standard Error	73.0
Median	51.3
Standard Deviation	575.2
Variance of Sample	330818.3
Range	3505.0
Minimum	5.0
Maximum	3510.0
Sum	12824.4
Count	62
Confidence Level (95.0%)	328.8

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 2 (Northbound)
Site Description:	From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter)	0.15+0.45+0.75+1.5
Samples Range:	577-148 through 577-163



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 2 (Northbound)**
Site Description:	**From Magnolia Blvd. to Oxnard St.**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-148 through 577-163**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.2955843 **T0.05=** 1.670

Analysis Term	Value
Mean	247.0
Standard Error	0.0293
Mean (Arcsin Values)	0.0704
Standard Deviation	0.2309
Count	62
Confidence Level (90.0%)	379.8

Analysis Term	Value
Mean	247.0
Standard Error	0.0293
Mean (Arcsin Values)	0.0704
Standard Deviation	0.2309
Count	62
Confidence Level (95.0%)	418.1

Route 170 (Northbound)
Combination of All Stage 2 Samples at a Depth of (0.15 m)

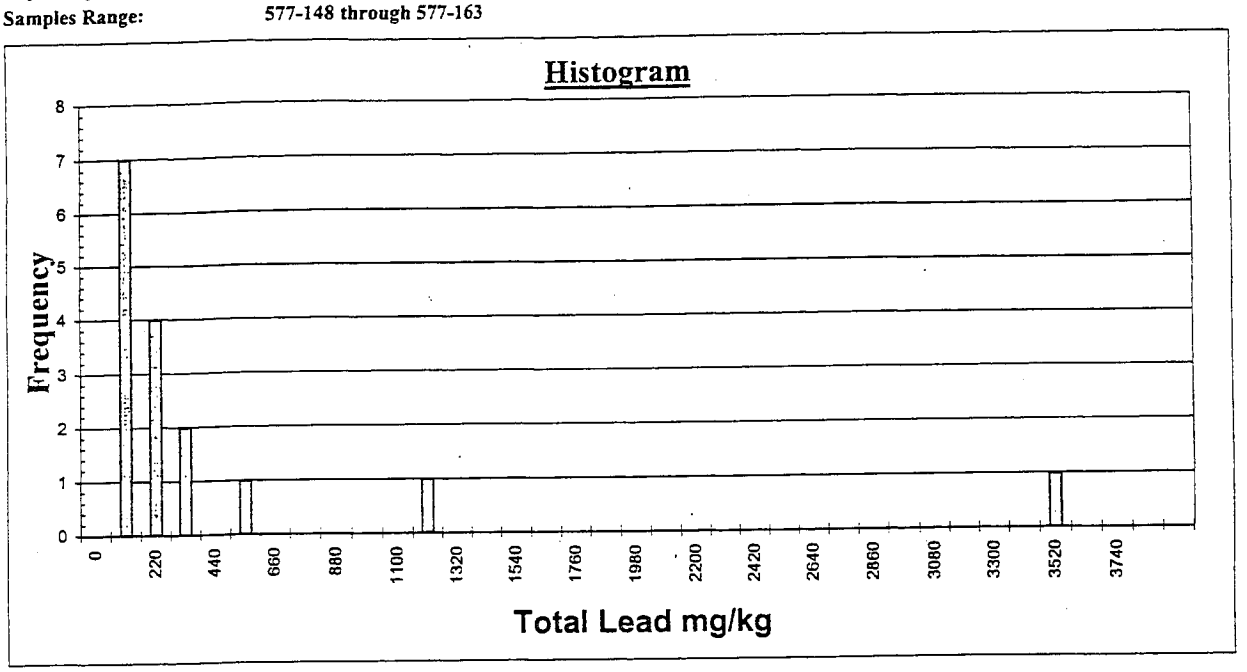
Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 2 (Northbound)
Site Description: From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter) 0.15
Samples Range: 577-148 through 577-163

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-148-.15	3510.0	1.5708		
577-149-.15	470.0	0.1343	43.0000	0.290
577-150-.15	35.2	0.0100		
577-151-.15	155.0	0.0442	10.4000	0.100
577-152-.15	1180.0	0.3429		
577-153-.15	128.0	0.0365	8.7000	0.100
577-154-.15	63.8	0.0182	2.8000	
577-155-.15	260.0	0.0741	16.9000	0.270
577-156-.15	41.5	0.0118		
577-157-.15	46.6	0.0133		
577-158-.15	120.0	0.0342	7.0000	0.100
577-159-.15	70.3	0.0200	1.8500	
577-160-.15	104.0	0.0296	3.0500	
577-161-.15	125.0	0.0356	10.8000	0.100
577-162-.15	245.0	0.0699	13.5000	0.540
577-163-.15	92.8	0.0264	4.2000	

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 2 (Northbound)
Site Description:	From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter)	0.15
Samples Range:	577-148 through 577-163



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 2 (Northbound)
Site Description: From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter) 0.15
Samples Range: 577-148 through 577-163

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T *,S x)
T0.10= *1.341* T0.05= *1.753*

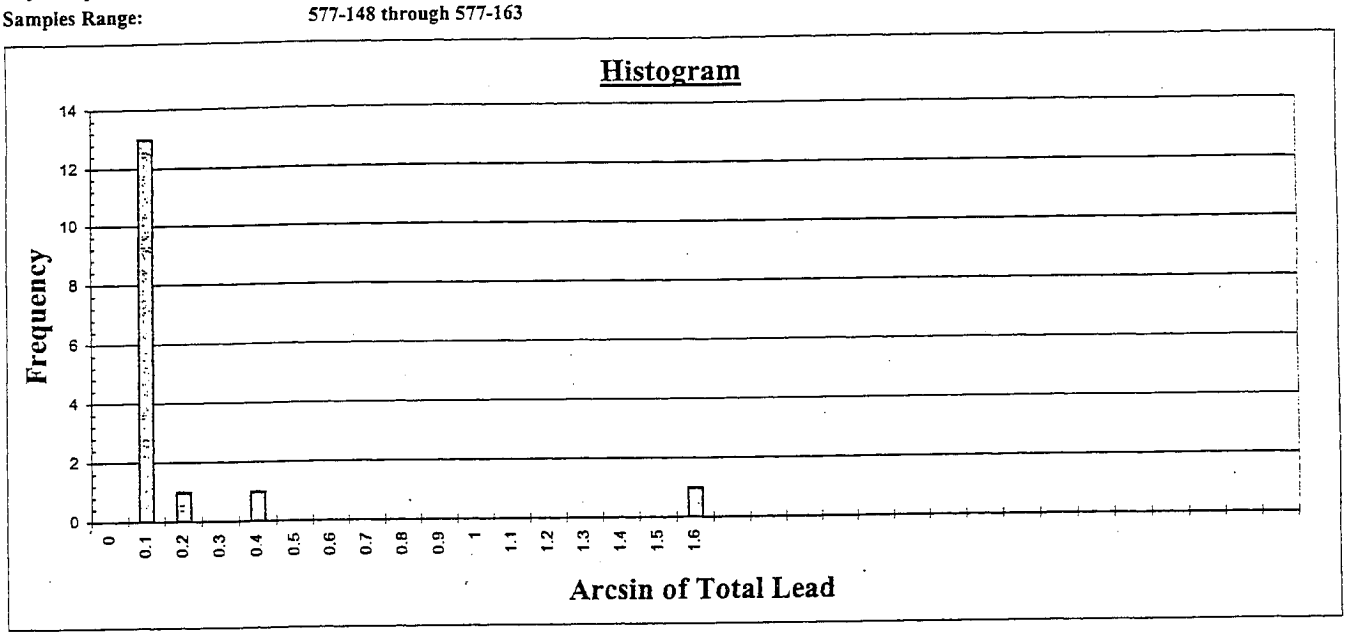
Analysis Term	Value
Mean	415.5
Standard Error	218.0
Median	122.5
Standard Deviation	871.9
Variance of Sample	760230.2
Range	3474.8
Minimum	35.2
Maximum	3510.0
Sum	6647.2
Count	16
Confidence Level (90.0%)	707.7

Analysis Term	Value
Mean	415.5
Standard Error	218.0
Median	122.5
Standard Deviation	871.9
Variance of Sample	760230.2
Range	3474.8
Minimum	35.2
Maximum	3510.0
Sum	6647.2
Count	16
Confidence Level (95.0%)	797.6

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 2 (Northbound)
Site Description:	From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter)	0.15
Samples Range:	577-148 through 577-163



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 2 (Northbound)
Site Description:	From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter)	0.15
Samples Range:	577-148 through 577-163

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3406054 T0.05= 1.753

Analysis Term	Value
Mean	540.1
Standard Error	0.0966
Mean (Arcsin Values)	0.1545
Standard Deviation	0.3864
Count	16
Confidence Level (90.0%)	983.5

Analysis Term	Value
Mean	540.1
Standard Error	0.0966
Mean (Arcsin Values)	0.1545
Standard Deviation	0.3864
Count	16
Confidence Level (95.0%)	1116.9

Route 170 (Northbound)
Combination of All Stage 2 Samples at Depths of (0.45+0.75+1.5 m)

Statistic Analysis Datasheet

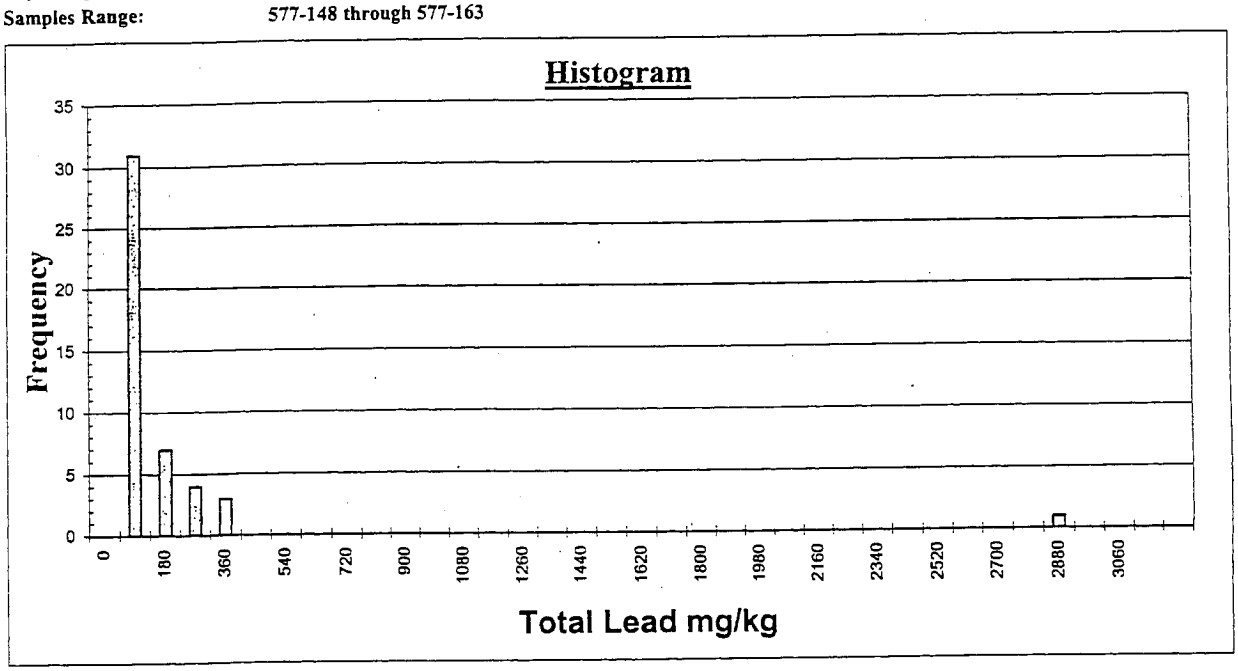
AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 2 (Northbound)
Site Description: From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter) 0.45+0.75+1.5
Samples Range: 577-148 through 577-163

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-148-.45	2840.0	1.5708		
577-149-.45	56.9	0.0200	2.4000	
577-150-.45	24.3	0.0086		
577-151-.45	14.5	0.0051		
577-152-.45	140.0	0.0493	8.8000	0.100
577-153-.45	10.2	0.0036		
577-154-.45	117.0	0.0412	7.9000	0.100
577-155-.45	5.0	0.0018		
577-156-.45	21.3	0.0075		
577-157-.45	151.0	0.0532	6.4000	0.200
577-158-.45	34.2	0.0120		
577-159-.45	56.0	0.0197	3.0000	
577-160-.45	30.0	0.0106		
577-161-.45	14.5	0.0051		
577-162-.45	78.4	0.0276	4.5500	
577-163-.45	17.3	0.0061		
577-148-.75	130.0	0.0458	8.8000	0.100
577-149-.75	90.5	0.0319	4.9000	
577-150-.75	282.0	0.0995	17.1000	0.100
577-151-.75	126.0	0.0444	8.6000	0.100
577-152-.75	5.0	0.0018		
577-153-.75	13.2	0.0046		
577-154-.75	5.0	0.0018		
577-155-.75	229.0	0.0807	15.8000	0.100
577-156-.75	14.4	0.0051		
577-158-.75	17.6	0.0062		
577-159-.75	18.6	0.0065		
577-160-.75	5.0	0.0018		
577-161-.75	5.0	0.0018		
577-162-.75	46.1	0.0162		
577-163-.75	5.0	0.0018		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-148-1.5	40.1	0.0141		
577-149-1.5	43.9	0.0155		
577-150-1.5	14.6	0.0051		
577-151-1.5	221.0	0.0779	13.4000	0.100
577-152-1.5	133.0	0.0468	8.3500	0.100
577-153-1.5	14.7	0.0052		
577-154-1.5	19.2	0.0068		
577-155-1.5	332.0	0.1172	20.0000	0.320
577-156-1.5	288.0	0.1016	14.2000	0.100
577-158-1.5	19.7	0.0069		
577-159-1.5	19.0	0.0067		
577-160-1.5	193.0	0.0680	12.6000	0.460
577-161-1.5	5.0	0.0018		
577-162-1.5	226.0	0.0797	15.2000	0.230
577-163-1.5	5.0	0.0018		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 2 (Northbound)
Site Description:	From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter)	0.45+0.75+1.5
Samples Range:	577-148 through 577-163



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 2 (Northbound)
Site Description: From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter) 0.45+0.75+1.5
Samples Range: 577-148 through 577-163

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x.)

T0.10= *1.301* T0.05= *1.679*

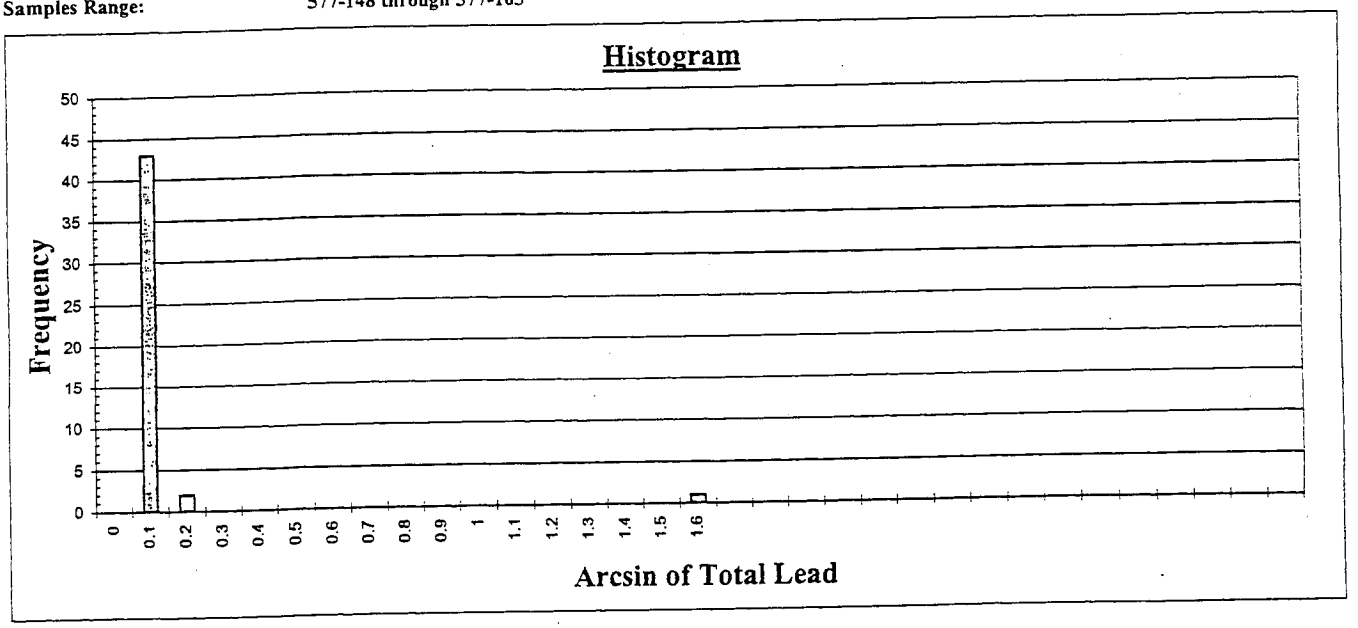
Analysis Term	Value
Mean	134.3
Standard Error	61.5
Median	27.2
Standard Deviation	417.3
Variance of Sample	174178.4
Range	2835.0
Minimum	5.0
Maximum	2840.0
Sum	6177.2
Count	46
Confidence Level (90.0%)	214.3

Analysis Term	Value
Mean	134.3
Standard Error	61.5
Median	27.2
Standard Deviation	417.3
Variance of Sample	174178.4
Range	2835.0
Minimum	5.0
Maximum	2840.0
Sum	6177.2
Count	46
Confidence Level (95.0%)	237.6

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 2 (Northbound)
Site Description:	From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter)	0.45+0.75+1.5
Samples Range:	577-148 through 577-163



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 2 (Northbound)
Site Description: From Magnolia Blvd. to Oxnard St.
Layer Depth (Meter) 0.45+0.75+1.5
Samples Range: 577-148 through 577-163

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.
T0.10= 1.3006502 T0.05= 1.679

Analysis Term	Value
Mean	169.5
Standard Error	0.0339
Mean (Arcsin Values)	0.0597
Standard Deviation	0.2299
Count	46
Confidence Level (90.0%)	294.3

Analysis Term	Value
Mean	169.5
Standard Error	0.0339
Mean (Arcsin Values)	0.0597
Standard Deviation	0.2299
Count	46
Confidence Level (95.0%)	330.5

Route 170 (Northbound)
Combination of All Stage 3 Samples

Statistic Analysis Datasheet

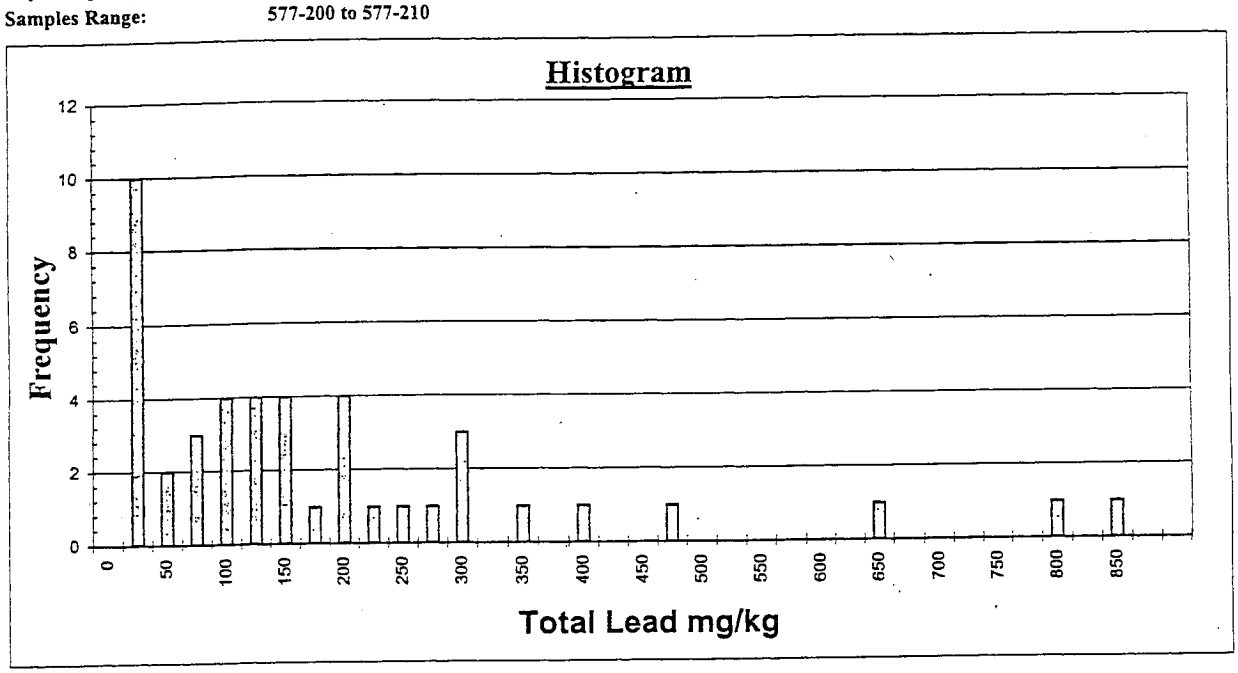
AESCO Site No.: 20020155-3 (11, 13 & 14) ADL Study @ State Route 405
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 3 (Northbound)
Site Description: Victory Blvd. to Sherman Way
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-200 to 577-210

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-200-.15	189.0	0.2250	15.8000	0.570
577-200-.45	5.0	0.0059		
577-200-.75	5.0	0.0059		
577-200-1.5	112.0	0.1326	4.2500	
577-201-.15	396.0	0.4865	22.3000	1.290
577-201-.45	187.0	0.2226	11.3000	0.490
577-201-.75	119.0	0.1410	11.2000	0.320
577-201-1.5	83.2	0.0984	7.5000	0.460
577-202-.15	847.0	1.5708	42.8000	2.200
577-202-.45	293.0	0.3532	29.4000	1.560
577-202-.75	472.0	0.5911	40.3000	0.780
577-202-1.5	327.0	0.3964	26.9000	2.290
577-203-.15	61.9	0.0731	4.7500	
577-203-.45	22.5	0.0266		
577-203-.75	73.8	0.0872	6.9000	0.270
577-203-1.5	145.0	0.1720	7.5500	0.610
577-204-.15	132.0	0.1565	8.9500	0.100
577-204-.45	18.3	0.0216		
577-204-.75	10.3	0.0122		
577-204-1.5	5.0	0.0059		
577-205-.15	296.0	0.3570	21.8000	0.300
577-205-.45	83.8	0.0991	8.8500	0.510
577-205-.75	43.6	0.0515		
577-205-1.5	18.1	0.0214		
577-206-.15	261.0	0.3132	19.5000	1.430
577-206-.45	227.0	0.2713	19.2000	0.260
577-206-.75	101.0	0.1195	10.3000	0.560
577-206-1.5	82.4	0.0974	5.3000	0.100
577-207-.15	777.0	1.1614	54.9000	1.530
577-207-.45	208.0	0.2481	15.4000	0.860
577-207-.75	630.0	0.8387	36.8000	1.330

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-207-1.5	276.0	0.3319	21.7000	0.100
577-208-.15	53.9	0.0637	5.1000	0.310
577-208- 45	129.0	0.1529	11.3000	0.690
577-208-.75	188.0	0.2238	12.8000	0.760
577-208-1.5	103.0	0.1219	8.9000	0.890
577-209-.15	181.0	0.2154	9.8000	0.620
577-209- 45	99.5	0.1177	6.4000	0.240
577-209- 75	161.0	0.1912	9.4000	0.480
577-209-1.5	148.0	0.1756	8.2000	0.260
577-210-.15	35.0	0.0413		
577-210- 45	13.4	0.0158		
577-210- 75	17.0	0.0201		
577-210-1.5	18.0	0.0213		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 3 (Northbound)
Site Description:	Victory Blvd. to Sherman Way
Layer Depth (Meter)	0.15+0.45+0.75+1.5
Samples Range:	577-200 to 577-210



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-3 (11, 13 & 14) ADL Study @ State Route 405
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 3 (Northbound)
Site Description: Victory Blvd. to Sherman Way
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-200 to 577-210

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.302* T0.05= *1.681*

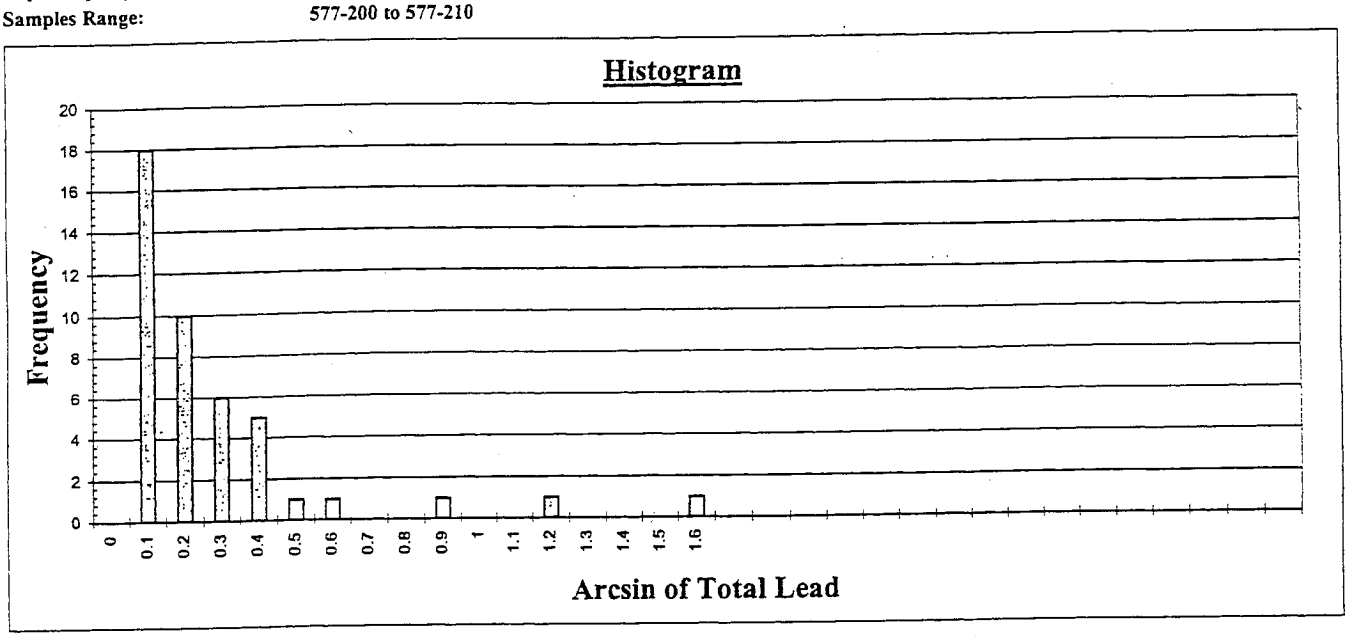
Analysis Term	Value
Mean	174.0
Standard Error	29.3
Median	115.5
Standard Deviation	194.3
Variance of Sample	37738.2
Range	842.0
Minimum	5.0
Maximum	847.0
Sum	7654.7
Count	44
Confidence Level (90.0%)	212.1

Analysis Term	Value
Mean	174.0
Standard Error	29.3
Median	115.5
Standard Deviation	194.3
Variance of Sample	37738.2
Range	842.0
Minimum	5.0
Maximum	847.0
Sum	7654.7
Count	44
Confidence Level (95.0%)	223.2

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-3 (11, 13 & 14) ADL Study @ State Route 405
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 3 (Northbound)
Site Description:	Victory Blvd. to Sherman Way
Layer Depth (Meter)	0.15+0.45+0.75+1.5
Samples Range:	577-200 to 577-210



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-3 (11, 13 & 14) ADL Study @ State Route 405**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 3 (Northbound)**
Site Description:	**Victory Blvd. to Sherman Way**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-200 to 577-210**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3015517 **T0.05=** 1.681

Analysis Term	Value
Mean	191.9
Standard Error	0.0462
Mean (Arcsin Values)	0.2285
Standard Deviation	0.3064
Count	44
Confidence Level (90.0%)	241.1

Analysis Term	Value
Mean	191.9
Standard Error	0.0462
Mean (Arcsin Values)	0.2285
Standard Deviation	0.3064
Count	44
Confidence Level (95.0%)	255.3

Route 170 (Southbound)
Combination of All Samples

Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Entire Southbound
Site Description: Sherman Way to Route 134
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-101 to 577-129 and 577-170 to 577-196

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-101-.15	226.0	0.0577	14.9000	0.100
577-101-.45	166.0	0.0424	12.1000	0.100
577-101-.75	17.6	0.0045		
577-101-1.5	16.4	0.0042		
577-102-.15	86.4	0.0220	4.0500	
577-102-.45	67.6	0.0172	2.0500	
577-102-.75	18.3	0.0047		
577-102-1.5	11.6	0.0030		
577-103-.15	124.0	0.0316	6.3500	0.100
577-103-.45	25.0	0.0064		
577-103-.75	33.3	0.0085		
577-103-1.5	10.4	0.0027		
577-104-.15	46.6	0.0119		
577-104-.45	5.0	0.0013		
577-104-.75	50.0	0.0128	3.4000	
577-104-1.5	5.0	0.0013		
577-105-.15	321.0	0.0820	22.4000	0.100
577-105-.45	26.7	0.0068		
577-105-.75	11.8	0.0030		
577-105-1.5	11.3	0.0029		
577-106-.15	136.0	0.0347	6.4500	0.210
577-106-.45	168.0	0.0429	8.5500	0.100
577-106-.75	331.0	0.0845	21.8000	0.100
577-106-1.5	5.0	0.0013		
577-107-.15	716.0	0.1837	51.0000	0.210
577-107-.45	35.6	0.0091		
577-107-.75	21.3	0.0054		
577-107-1.5	21.6	0.0055		
577-108-.15	2120.0	0.5714		
577-108-.45	96.6	0.0246	6.7500	0.100
577-108-.75	11.6	0.0030		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-108-1.5	218.0	0.0556	15.0000	0.100
577-109-.15	315.0	0.0804	18.8000	0.100
577-109-.45	292.0	0.0746	12.7000	0.100
577-109-.75	372.0	0.0950	19.7000	0.100
577-109-1.5	72.1	0.0184	3.6500	
577-110-.15	971.0	0.2503	39.6000	0.100
577-110-.45	921.0	0.2372	47.4000	0.100
577-110-.75	2130.0	0.5744	40.9000	0.100
577-110-1.5	71.5	0.0182	3.9500	
577-111-.15	355.0	0.0907	19.1000	0.100
577-111-.45	117.0	0.0299	3.2000	
577-111-.75	5.0	0.0013		
577-111-1.5	13.4	0.0034		
577-112-.15	3920.0	1.5708		
577-112-.45	32.4	0.0083		
577-112-.75	395.0	0.1009	27.4000	0.100
577-112-1.5	1260.0	0.3272		
577-113-.15	404.0	0.1032	26.4000	0.100
577-113-.45	2120.0	0.5714		
577-113-.75	159.0	0.0406	8.9500	0.100
577-113-1.5	902.0	0.2322	55.5000	0.100
577-114-.15	13.1	0.0033		
577-114-.45	5.0	0.0013		
577-114-.75	5.0	0.0013		
577-114-1.5	13.9	0.0035		
577-115-.15	47.7	0.0122		
577-115-.45	5.0	0.0013		
577-115-.75	10.8	0.0028		
577-115-1.5	5.0	0.0013		
577-116-.15	976.0	0.2516	54.7000	0.100
577-116-.45	453.0	0.1158	33.0000	0.100
577-116-.75	144.0	0.0367	8.8500	0.100
577-116-1.5	5.0	0.0013		
577-117-.15	24.3	0.0062		
577-117-.45	99.0	0.0253	5.3500	0.100
577-117-.75	33.6	0.0086		
577-117-1.5	16.1	0.0041		
577-118-.15	467.0	0.1194	24.6000	0.100
577-118-.45	41.7	0.0106		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-118-.75	84.3	0.0215	4.2500	
577-118-1.5	125.0	0.0319	7.2500	0.100
577-119-.15	69.4	0.0177	3.2000	
577-119-.45	63.6	0.0162	0.5000	
577-119-.75	17.2	0.0044		
577-119-1.5	96.5	0.0246	5.9000	0.100
577-120-.15	412.0	0.1053	19.4000	0.100
577-120-.45	24.5	0.0063		
577-120-.75	28.8	0.0073		
577-120-1.5	23.6	0.0060		
577-121-.15	99.0	0.0253	4.2000	
577-121-.45	17.1	0.0044		
577-121-.75	25.9	0.0066		
577-121-1.5	46.2	0.0118		
577-122-.15	146.0	0.0373	7.7500	0.400
577-122-.45	179.0	0.0457	15.6000	0.530
577-122-.75	74.0	0.0189	3.5000	
577-122-1.5	5.0	0.0013		
577-123-.15	153.0	0.0390	6.7000	0.270
577-123-.45	53.0	0.0135	1.3500	
577-123-.75	79.6	0.0203	2.8000	
577-123-1.5	113.0	0.0288	5.6500	0.400
577-124-.15	1900.0	0.5060		
577-124-.45	3080.0	0.9038		
577-124-.75	3070.0	0.8997		
577-124-1.5	3390.0	1.0447		
577-125-.15	142.0	0.0362	7.0000	0.260
577-125-.45	490.0	0.1253	24.7000	1.270
577-125-.75	13.4	0.0034		
577-125-1.5	96.1	0.0245	4.6000	
577-126-.15	314.0	0.0802	16.3000	0.100
577-126-.45	139.0	0.0355	4.6000	
577-126-.75	195.0	0.0498	10.9000	0.100
577-126-1.5	107.0	0.0273	5.7000	0.100
577-127-.15	49.5	0.0126		
577-127-.45	226.0	0.0577	12.1000	0.100
577-127-.75	475.0	0.1215	34.7000	0.360
577-127-1.5	441.0	0.1127	24.3000	0.230
577-128-.15	911.0	0.2345	40.5000	1.120

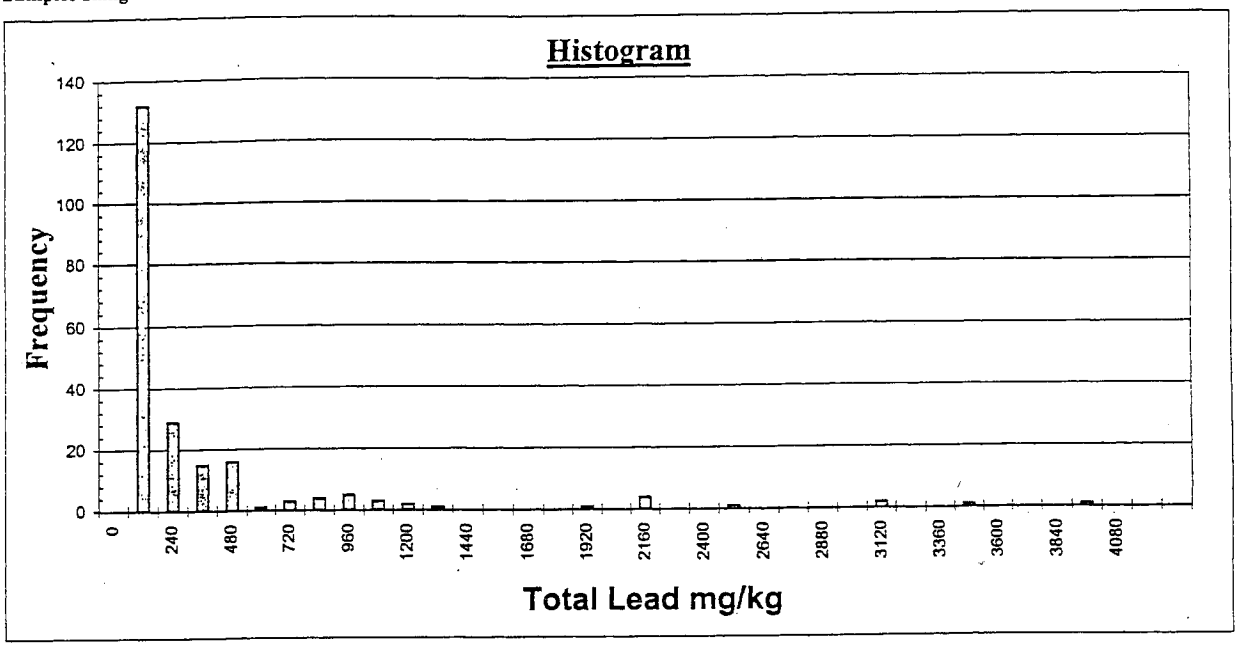
Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-128-.45	39.1	0.0100		
577-128-.75	259.0	0.0661	14.0000	0.290
577-128-1.5	159.0	0.0406	7.3500	0.100
577-129-.15	147.0	0.0375	7.9000	0.100
577-129-.45	20.0	0.0051		
577-129-.75	17.5	0.0045		
577-129-1.5	35.0	0.0089		
577-170-.15	414.0	0.1058	30.8000	0.100
577-170-.45	54.9	0.0140	3.2000	
577-170-.75	27.5	0.0070		
577-170-1.5	20.2	0.0052		
577-171-.15	1020.0	0.2632		
577-171-.45	630.0	0.1614	27.6000	0.100
577-171-.75	396.0	0.1012	24.4000	0.100
577-171-1.5	27.4	0.0070		
577-172-.15	114.0	0.0291	9.0000	0.100
577-172-.45	146.0	0.0373	7.7500	0.100
577-172-.75	5.0	0.0013		
577-172-1.5	149.0	0.0380	8.6000	0.100
577-173-.15	378.0	0.0966	33.7000	0.100
577-173-.45	81.9	0.0209	5.1500	0.100
577-173-.75	56.4	0.0144	2.2000	
577-173-1.5	61.2	0.0156	7.8000	0.100
577-174-.15	466.0	0.1192	29.8000	0.100
577-174-.45	224.0	0.0572	17.0000	0.100
577-174-.75	110.0	0.0281	11.8000	0.100
577-174-1.5	26.2	0.0067		
577-175-.15	2090.0	0.5623		
577-175-.45	141.0	0.0360	9.0500	0.100
577-175-.75	24.4	0.0062		
577-175-1.5	811.0	0.2084	43.8000	0.100
577-176-.15	2440.0	0.6719		
577-176-.45	47.5	0.0121		
577-176-.75	59.2	0.0151	4.0000	
577-176-1.5	366.0	0.0935	22.6000	0.100
577-177-.15	444.0	0.1135	37.3000	0.260
577-177-.45	16.8	0.0043		
577-177-.75	5.0	0.0013		
577-177-1.5	5.0	0.0013		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-178-.15	461.0	0.1179	30.6000	0.100
577-178-.45	358.0	0.0915	17.9000	0.100
577-178-.75	250.0	0.0638	25.4000	0.100
577-178-1.5	169.0	0.0431	10.3000	0.100
577-179-.15	5.0	0.0013		
577-179-.45	5.0	0.0013		
577-179-.75	14.3	0.0036		
577-179-1.5	5.0	0.0013		
577-180-.15	327.0	0.0835	11.5000	0.220
577-181-.15	58.0	0.0148	3.9500	
577-181-.45	5.0	0.0013		
577-181-.75	5.0	0.0013		
577-181-1.5	5.0	0.0013		
577-182-.15	57.0	0.0145	4.6500	
577-182-.45	70.8	0.0181	4.7500	
577-182-.75	47.5	0.0121		
577-182-1.5	81.7	0.0208	5.3500	0.490
577-183-.15	75.2	0.0192	4.8500	
577-183-.45	5.0	0.0013		
577-183-.75	10.9	0.0028		
577-183-1.5	63.7	0.0163	4.2000	
577-184-.15	38.0	0.0097		
577-184-.45	46.5	0.0119		
577-184-.75	45.1	0.0115		
577-184-1.5	46.1	0.0118		
577-185-.15	64.7	0.0165	4.1000	
577-185-.45	11.0	0.0028		
577-185-.75	5.0	0.0013		
577-185-1.5	12.9	0.0033		
577-186-.15	81.9	0.0209	3.5000	
577-186-.45	22.3	0.0057		
577-186-.75	24.7	0.0063		
577-186-1.5	33.0	0.0084		
577-187-.15	96.5	0.0246	5.4500	0.540
577-187-.45	88.8	0.0227	4.7000	
577-187-.75	33.5	0.0085		
577-187-1.5	26.7	0.0068		
577-188-.15	382.0	0.0976	17.3000	0.100
577-188-.45	34.9	0.0089		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-188-.75	20.4	0.0052		
577-188-1.5	46.0	0.0117		
577-189-.15	1190.0	0.3084		
577-189-.45	237.0	0.0605	15.0000	0.100
577-189-.75	329.0	0.0840	21.3000	0.100
577-189-1.5	320.0	0.0817	21.9000	0.100
577-190-.15	900.0	0.2317	59.2000	0.100
577-190-.45	675.0	0.1731	51.0000	0.100
577-190-.75	723.0	0.1855	48.0000	0.100
577-190-1.5	67.2	0.0171	4.9500	
577-191-.15	835.0	0.2147	62.3000	0.520
577-191-.45	32.0	0.0082		
577-191-.75	747.0	0.1917	61.1000	0.520
577-191-1.5	18.5	0.0047		
577-192-.15	1180.0	0.3058		
577-192-.45	936.0	0.2411	69.8000	0.100
577-192-.75	28.7	0.0073		
577-192-1.5	58.9	0.0150	7.1500	0.100
577-193-.15	163.0	0.0416	14.9000	0.100
577-193-.45	172.0	0.0439	11.6000	0.100
577-193-.75	180.0	0.0459	11.1000	0.100
577-193-1.5	156.0	0.0398	12.6000	0.240
577-194-.15	268.0	0.0684	17.3000	0.100
577-194-.45	41.6	0.0106		
577-194-.75	46.5	0.0119		
577-194-1.5	22.8	0.0058		
577-195-.15	338.0	0.0863	23.2000	0.100
577-195-.45	53.5	0.0136	3.1500	
577-195-.75	28.7	0.0073		
577-195-1.5	252.0	0.0643	16.9000	0.100
577-196-.15	222.0	0.0567	12.1000	0.540
577-196-.45	14.6	0.0037		
577-196-.75	27.2	0.0069		
577-196-1.5	32.5	0.0083		

Histogram for Total Lead

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Entire Southbound**
Site Description:	**Sherman Way to Route 134**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-101 to 577-129 and 577-170 to 577-196**



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Entire Southbound
Site Description: Sherman Way to Route 134
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-101 to 577-129 and 577-170 to 577-196

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)
T0.10= *1.285* T0.05= *1.652*

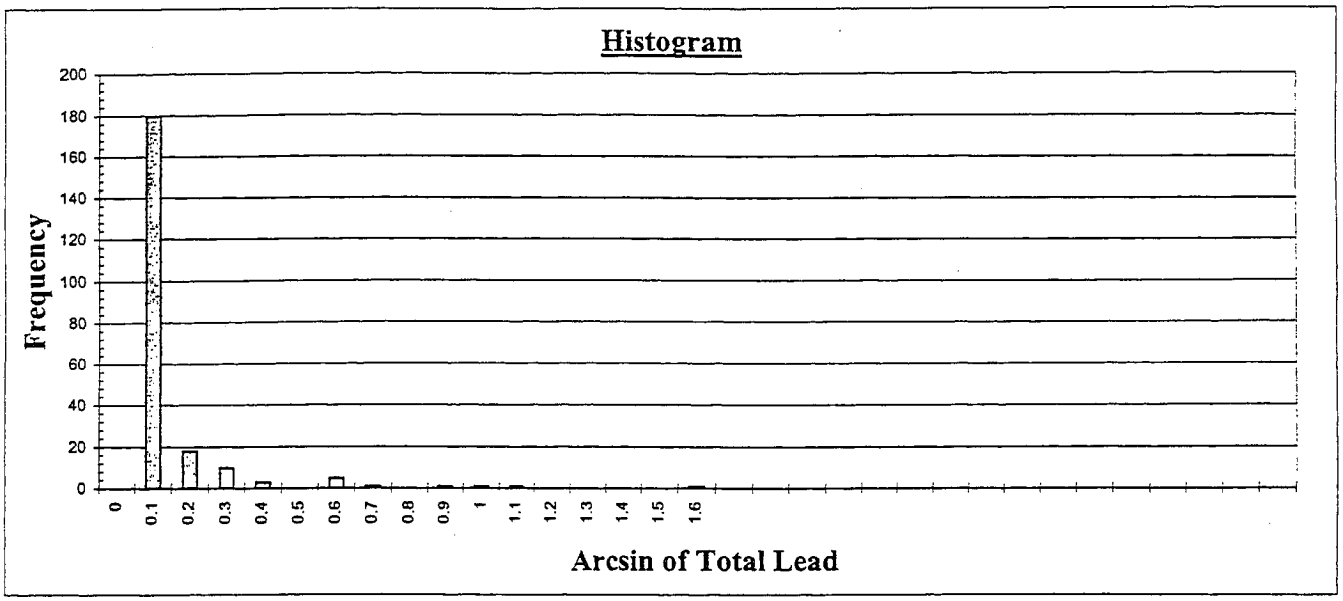
Analysis Term	Value
Mean	291.4
Standard Error	39.4
Median	71.5
Standard Deviation	585.8
Variance of Sample	343117.3
Range	3915.0
Minimum	5.0
Maximum	3920.0
Sum	64397.0
Count	221
Confidence Level (90.0%)	342.0

Analysis Term	Value
Mean	291.4
Standard Error	39.4
Median	71.5
Standard Deviation	585.8
Variance of Sample	343117.3
Range	3915.0
Minimum	5.0
Maximum	3920.0
Sum	64397.0
Count	221
Confidence Level (95.0%)	356.5

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Entire Southbound**
Site Description:	**Sherman Way to Route 134**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-101 to 577-129 and 577-170 to 577-196**



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Entire Southbound
Site Description: Sherman Way to Route 134
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-101 to 577-129 and 577-170 to 577-196

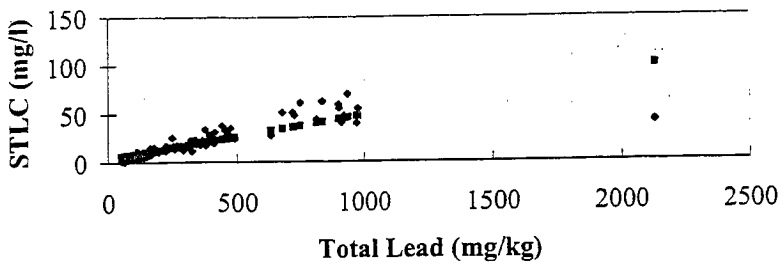
UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.
T0.10= 1.2854116 T0.05= 1.652

Analysis Term	Value
Mean	312.8
Standard Error	0.0121
Mean (Arcsin Values)	0.0799
Standard Deviation	0.1806
Count	221
Confidence Level (90.0%)	373.8

Analysis Term	Value
Mean	312.8
Standard Error	0.0121
Mean (Arcsin Values)	0.0799
Standard Deviation	0.1806
Count	221
Confidence Level (95.0%)	391.1

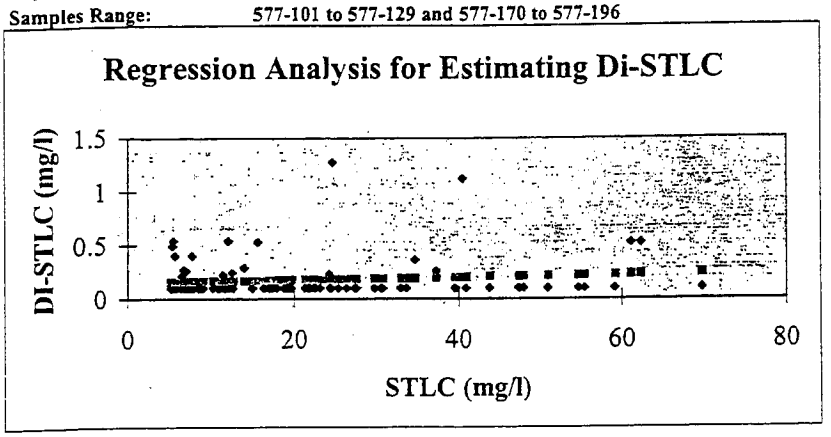
AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Entire Southbound**
Site Description:	**Sherman Way to Route 134**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-101 to 577-129 and 577-170 to 577-196**

Regression Analysis for Estimating STLC



Correlation Coefficient=	0.85	,STLC	=	0.04494 *	Total Lead +	4.002021549
Predicted STLC Value for UCL 90% Total Lead				373.8 mg/kg	=	20.80 mg/L
Predicted STLC Value for UCL 95% Total Lead				391.1 mg/kg	=	21.58 mg/L

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Entire Southbound**
Site Description:	**Sherman Way to Route 134**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-101 to 577-129 and 577-170 to 577-196**



Best Line Fit:	Di-STLC =	0.00126 *	STLC	+	0.152	
	Di-STLC Value for STLC	20.80 mg/L	=	0.178 mg/L		
	Di-STLC Value for STLC	21.58 mg/L	=	0.179 mg/L		

Route 170 (Southbound)
Combination of All Samples at a Depth of (0.15 m)

Statistic Analysis Datasheet

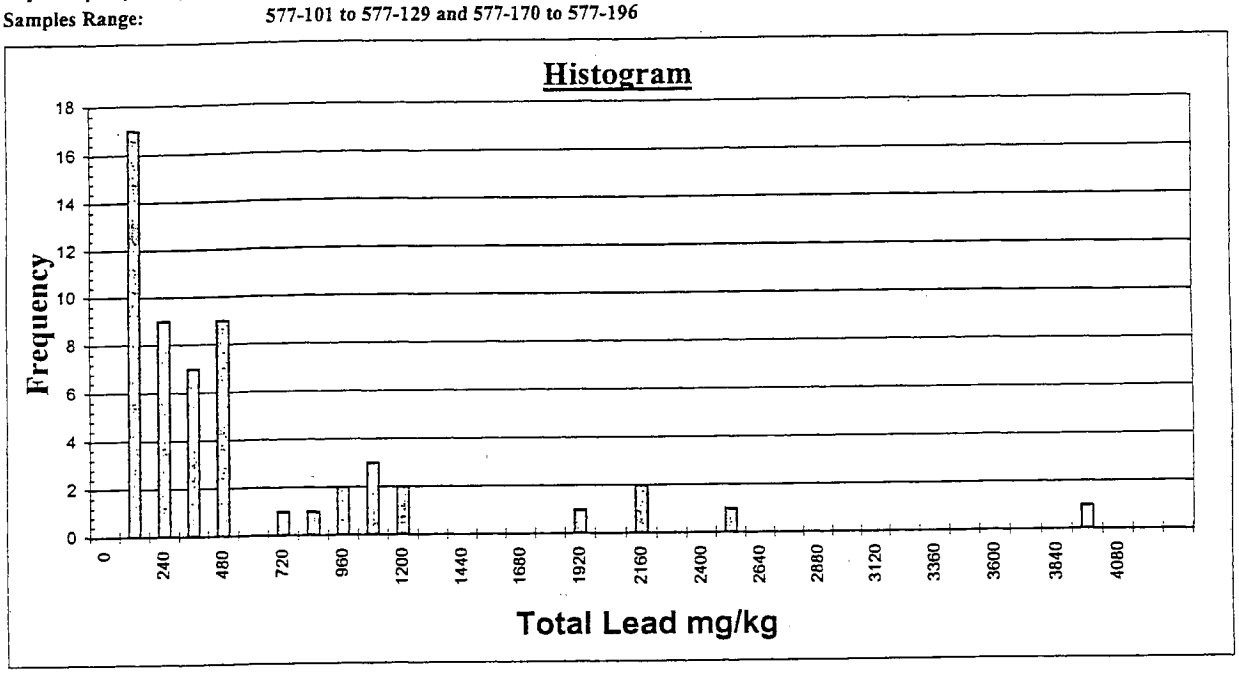
AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Entire Southbound
Site Description: Sherman Way to Route 134
Layer Depth (Meter) 0.15
Samples Range: 577-101 to 577-129 and 577-170 to 577-196

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-101-.15	226.0	0.0577	14.9000	0.100
577-102-.15	86.4	0.0220	4.0500	
577-103-.15	124.0	0.0316	6.3500	0.100
577-104-.15	46.6	0.0119		
577-105-.15	321.0	0.0820	22.4000	0.100
577-106-.15	136.0	0.0347	6.4500	0.210
577-107-.15	716.0	0.1837	51.0000	0.210
577-108-.15	2120.0	0.5714		
577-109-.15	315.0	0.0804	18.8000	0.100
577-110-.15	971.0	0.2503	39.6000	0.100
577-111-.15	355.0	0.0907	19.1000	0.100
577-112-.15	3920.0	1.5708		
577-113-.15	404.0	0.1032	26.4000	0.100
577-114-.15	13.1	0.0033		
577-115-.15	47.7	0.0122		
577-116-.15	976.0	0.2516	54.7000	0.100
577-117-.15	24.3	0.0062		
577-118-.15	467.0	0.1194	24.6000	0.100
577-119-.15	69.4	0.0177	3.2000	
577-120-.15	412.0	0.1053	19.4000	0.100
577-121-.15	99.0	0.0253	4.2000	
577-122-.15	146.0	0.0373	7.7500	0.400
577-123-.15	153.0	0.0390	6.7000	0.270
577-124-.15	1900.0	0.5060		
577-125-.15	142.0	0.0362	7.0000	0.260
577-126-.15	314.0	0.0802	16.3000	0.100
577-127-.15	49.5	0.0126		
577-128-.15	911.0	0.2345	40.5000	1.120
577-129-.15	147.0	0.0375	7.9000	0.100
577-170-.15	414.0	0.1058	30.8000	0.100
577-171-.15	1020.0	0.2632		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-172-.15	114.0	0.0291	9.0000	0.100
577-173-.15	378.0	0.0966	33.7000	0.100
577-174-.15	466.0	0.1192	29.8000	0.100
577-175-.15	2090.0	0.5623		
577-176-.15	2440.0	0.6719		
577-177-.15	444.0	0.1135	37.3000	0.260
577-178-.15	461.0	0.1179	30.6000	0.100
577-179-.15	5.0	0.0013		
577-180-.15	327.0	0.0835	11.5000	0.220
577-181-.15	58.0	0.0148	3.9500	
577-182-.15	57.0	0.0145	4.6500	
577-183-.15	75.2	0.0192	4.8500	
577-184- 15	38.0	0.0097		
577-185- 15	64.7	0.0165	4.1000	
577-186- 15	81.9	0.0209	3.5000	
577-187-.15	96.5	0.0246	5.4500	0.540
577-188-.15	382.0	0.0976	17.3000	0.100
577-189-.15	1190.0	0.3084		
577-190-.15	900.0	0.2317	59.2000	0.100
577-191-.15	835.0	0.2147	62.3000	0.520
577-192-.15	1180.0	0.3058		
577-193-.15	163.0	0.0416	14.9000	0.100
577-194-.15	268.0	0.0684	17.3000	0.100
577-195- 15	338.0	0.0863	23.2000	0.100
577-196-.15	222.0	0.0567	12.1000	0.540

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Entire Southbound
Site Description:	Sherman Way to Route 134
Layer Depth (Meter)	0.15
Samples Range:	577-101 to 577-129 and 577-170 to 577-196



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Entire Southbound
Site Description: Sherman Way to Route 134
Layer Depth (Meter) 0.15
Samples Range: 577-101 to 577-129 and 577-170 to 577-196

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= 1.297 T0.05= 1.673

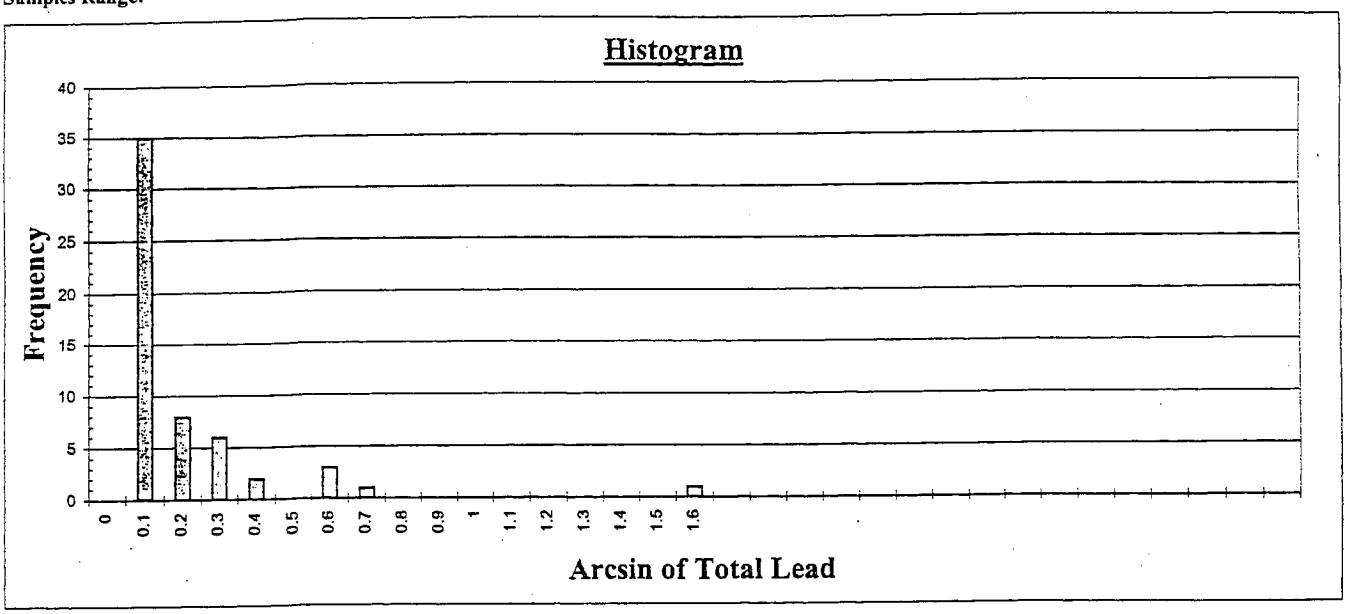
Analysis Term	Value
Mean	530.7
Standard Error	97.5
Median	314.5
Standard Deviation	729.8
Variance of Sample	532643.7
Range	3915.0
Minimum	5.0
Maximum	3920.0
Sum	29720.3
Count	56
Confidence Level (90.0%)	657.2

Analysis Term	Value
Mean	530.7
Standard Error	97.5
Median	314.5
Standard Deviation	729.8
Variance of Sample	532643.7
Range	3915.0
Minimum	5.0
Maximum	3920.0
Sum	29720.3
Count	56
Confidence Level (95.0%)	693.9

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Entire Southbound
Site Description:	Sherman Way to Route 134
Layer Depth (Meter)	0.15
Samples Range:	577-101 to 577-129 and 577-170 to 577-196



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Entire Southbound**
Site Description:	**Sherman Way to Route 134**
Layer Depth (Meter)	**0.15**
Samples Range:	**577-101 to 577-129 and 577-170 to 577-196**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.297135 T0.05= 1.673

Analysis Term	Value
Mean	579.6
Standard Error	0.0329
Mean (Arcsin Values)	0.1484
Standard Deviation	0.2461
Count	56
Confidence Level (90.0%)	744.4

Analysis Term	Value
Mean	579.6
Standard Error	0.0329
Mean (Arcsin Values)	0.1484
Standard Deviation	0.2461
Count	56
Confidence Level (95.0%)	791.9

Route 170 (Southbound)
Combination of All Samples at Depths of (0.45+0.75+1.5 m)

Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Entire Southbound
Site Description: Sherman Way to Route 134
Layer Depth (Meter) 0.45+0.75+1.5
Samples Range: 277-101 to 577-129 and 577-170 to 577-196

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-101-.45	166.0	0.0490	12.1000	0.100
577-102-.45	67.6	0.0199	2.0500	
577-103-.45	25.0	0.0074		
577-104-.45	5.0	0.0015		
577-105-.45	26.7	0.0079		
577-106-.45	168.0	0.0496	8.5500	0.100
577-107-.45	35.6	0.0105		
577-108-.45	96.6	0.0285	6.7500	0.100
577-109-.45	292.0	0.0862	12.7000	0.100
577-110-.45	921.0	0.2751	47.4000	0.100
577-111-.45	117.0	0.0345	3.2000	
577-112-.45	32.4	0.0096		
577-113-.45	2120.0	0.6756		
577-114-.45	5.0	0.0015		
577-115-.45	5.0	0.0015		
577-116-.45	453.0	0.1340	33.0000	0.100
577-117-.45	99.0	0.0292	5.3500	0.100
577-118-.45	41.7	0.0123		
577-119-.45	63.6	0.0188	0.5000	
577-120-.45	24.5	0.0072		
577-121-.45	17.1	0.0050		
577-122-.45	179.0	0.0528	15.6000	0.530
577-123-.45	53.0	0.0156	1.3500	
577-124-.45	3080.0	1.1398		
577-125-.45	490.0	0.1451	24.7000	1.270
577-126-.45	139.0	0.0410	4.6000	
577-127-.45	226.0	0.0667	12.1000	0.100
577-128-.45	39.1	0.0115		
577-129-.45	20.0	0.0059		
577-170-.45	54.9	0.0162	3.2000	
577-171-.45	630.0	0.1869	27.6000	0.100

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-172-.45	146.0	0.0431	7.7500	0.100
577-173-.45	81.9	0.0242	5.1500	0.100
577-174-.45	224.0	0.0661	17.0000	0.100
577-175-.45	141.0	0.0416	9.0500	0.100
577-176-.45	47.5	0.0140		
577-177-.45	16.8	0.0050		
577-178-.45	358.0	0.1058	17.9000	0.100
577-179-.45	5.0	0.0015		
577-181-.45	5.0	0.0015		
577-182-.45	70.8	0.0209	4.7500	
577-183-.45	5.0	0.0015		
577-184-.45	46.5	0.0137		
577-185-.45	11.0	0.0032		
577-186-.45	22.3	0.0066		
577-187-.45	88.8	0.0262	4.7000	
577-188-.45	34.9	0.0103		
577-189-.45	237.0	0.0700	15.0000	0.100
577-190-.45	675.0	0.2005	51.0000	0.100
577-191-.45	32.0.	0.0094		
577-192-.45	936.0	0.2797	69.8000	0.100
577-193-.45	172.0	0.0508	11.6000	0.100
577-194-.45	41.6	0.0123		
577-195-.45	53.5	0.0158	3.1500	
577-196-.45	14.6	0.0043		
577-101-.75	17.6	0.0052		
577-102-.75	18.3	0.0054		
577-103-.75	33.3	0.0098		
577-104-.75	50.0	0.0147	3.4000	
577-105-.75	11.8	0.0035		
577-106-.75	331.0	0.0978	21.8000	0.100
577-107-.75	21.3	0.0063		
577-108-.75	11.6	0.0034		
577-109-.75	372.0	0.1100	19.7000	0.100
577-110-.75	2130.0	0.6794	40.9000	0.100
577-111-.75	5.0	0.0015		
577-112-.75	395.0	0.1168	27.4000	0.100
577-113-.75	159.0	0.0469	8.9500	0.100
577-114-.75	5.0	0.0015		
577-115-.75	10.8	0.0032		

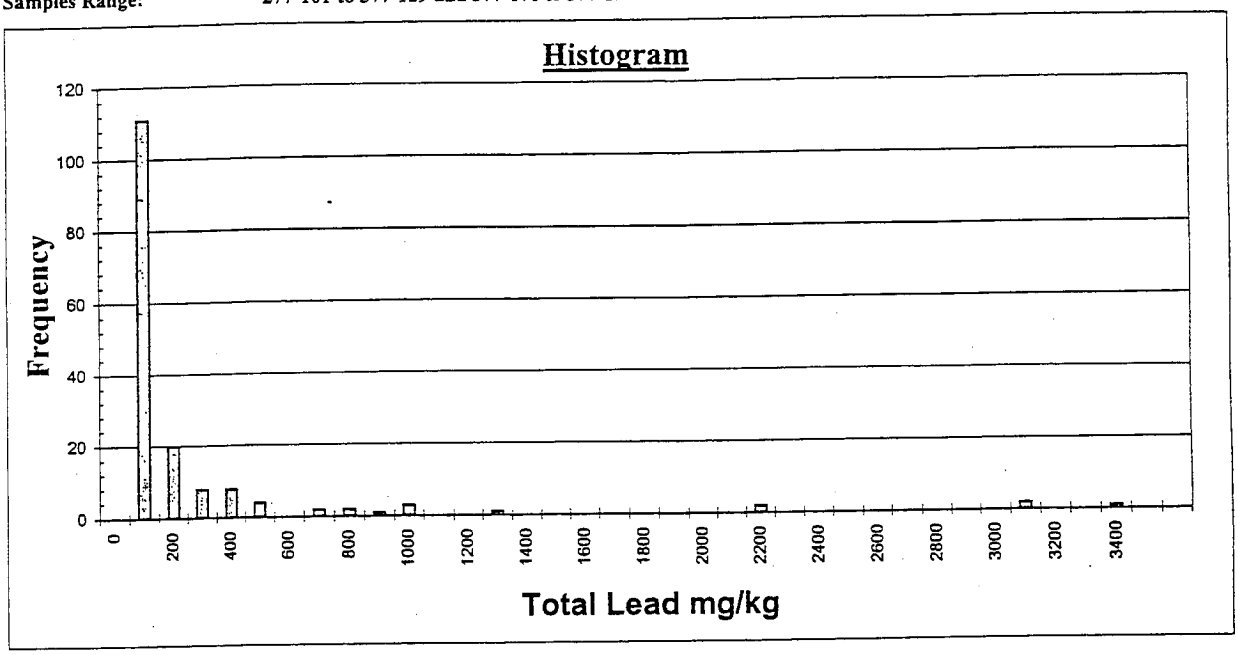
Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-116-.75	144.0	0.0425	8.8500	0.100
577-117-.75	33.6	0.0099		
577-118-.75	84.3	0.0249	4.2500	
577-119-.75	17.2	0.0051		
577-120-.75	28.8	0.0085		
577-121-.75	25.9	0.0076		
577-122-.75	74.0	0.0218	3.5000	
577-123-.75	79.6	0.0235	2.8000	
577-124-.75	3070.0	1.1328		
577-125-.75	13.4	0.0040		
577-126-.75	195.0	0.0576	10.9000	0.100
577-127-.75	475.0	0.1406	34.7000	0.360
577-128-.75	259.0	0.0765	14.0000	0.290
577-129-.75	17.5	0.0052		
577-170-.75	27.5	0.0081		
577-171-.75	396.0	0.1171	24.4000	0.100
577-172-.75	5.0	0.0015		
577-173-.75	56.4	0.0166	2.2000	
577-174-.75	110.0	0.0325	11.8000	0.100
577-175-.75	24.4	0.0072		
577-176-.75	59.2	0.0175	4.0000	
577-177-.75	5.0	0.0015		
577-178-.75	250.0	0.0738	25.4000	0.100
577-179-.75	14.3	0.0042		
577-181-.75	5.0	0.0015		
577-182-.75	47.5	0.0140		
577-183-.75	10.9	0.0032		
577-184-.75	45.1	0.0133		
577-185-.75	5.0	0.0015		
577-186-.75	24.7	0.0073		
577-187-.75	33.5	0.0099		
577-188-.75	20.4	0.0060		
577-189-.75	329.0	0.0972	21.3000	0.100
577-190-.75	723.0	0.2149	48.0000	0.100
577-191-.75	747.0	0.2222	61.1000	0.520
577-192-.75	28.7	0.0085		
577-193-.75	180.0	0.0531	11.1000	0.100
577-194-.75	46.5	0.0137		
577-195-.75	28.7	0.0085		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-196-.75	27.2	0.0080		
577-101-1.5	16.4	0.0048		
577-102-1.5	11.6	0.0034		
577-103-1.5	10.4	0.0031		
577-104-1.5	5.0	0.0015		
577-105-1.5	11.3	0.0033		
577-106-1.5	5.0	0.0015		
577-107-1.5	21.6	0.0064		
577-108-1.5	218.0	0.0644	15.0000	0.100
577-109-1.5	72.1	0.0213	3.6500	
577-110-1.5	71.5	0.0211	3.9500	
577-111-1.5	13.4	0.0040		
577-112-1.5	1260.0	0.3808		
577-113-1.5	902.0	0.2693	55.5000	0.100
577-114-1.5	13.9	0.0041		
577-115-1.5	5.0	0.0015		
577-116-1.5	5.0	0.0015		
577-117-1.5	16.1	0.0047		
577-118-1.5	125.0	0.0369	7.2500	0.100
577-119-1.5	96.5	0.0285	5.9000	0.100
577-120-1.5	23.6	0.0070		
577-121-1.5	46.2	0.0136		
577-122-1.5	5.0	0.0015		
577-123-1.5	113.0	0.0333	5.6500	0.400
577-124-1.5	3390.0	1.5708		
577-125-1.5	96.1	0.0284	4.6000	
577-126-1.5	107.0	0.0316	5.7000	0.100
577-127-1.5	441.0	0.1305	24.3000	0.230
577-128-1.5	159.0	0.0469	7.3500	0.100
577-129-1.5	35.0	0.0103		
577-170-1.5	20.2	0.0060		
577-171-1.5	27.4	0.0081		
577-172-1.5	149.0	0.0440	8.6000	0.100
577-173-1.5	61.2	0.0181	7.8000	0.100
577-174-1.5	26.2	0.0077		
577-175-1.5	811.0	0.2416	43.8000	0.100
577-176-1.5	366.0	0.1082	22.6000	0.100
577-177-1.5	5.0	0.0015		
577-178-1.5	169.0	0.0499	10.3000	0.100

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-179-1.5	5.0	0.0015		
577-181-1.5	5.0	0.0015		
577-182-1.5	81.7	0.0241	5.3500	0.490
577-183-1.5	63.7	0.0188	4.2000	
577-184-1.5	46.1	0.0136		
577-185-1.5	12.9	0.0038		
577-186-1.5	33.0	0.0097		
577-187-1.5	26.7	0.0079		
577-188-1.5	46.0	0.0136		
577-189-1.5	320.0	0.0945	21.9000	0.100
577-190-1.5	67.2	0.0198	4.9500	
577-191-1.5	18.5	0.0055		
577-192-1.5	58.9	0.0174	7.1500	0.100
577-193-1.5	156.0	0.0460	12.6000	0.240
577-194-1.5	22.8	0.0067		
577-195-1.5	252.0	0.0744	16.9000	0.100
577-196-1.5	32.5	0.0096		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Entire Southbound
Site Description:	Sherman Way to Route 134
Layer Depth (Meter)	0.45+0.75+1.5
Samples Range:	277-101 to 577-129 and 577-170 to 577-196



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Entire Southbound
Site Description: Sherman Way to Route 134
Layer Depth (Meter) 0.45+0.75+1.5
Samples Range: 277-101 to 577-129 and 577-170 to 577-196

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.287* T0.05= *1.654*

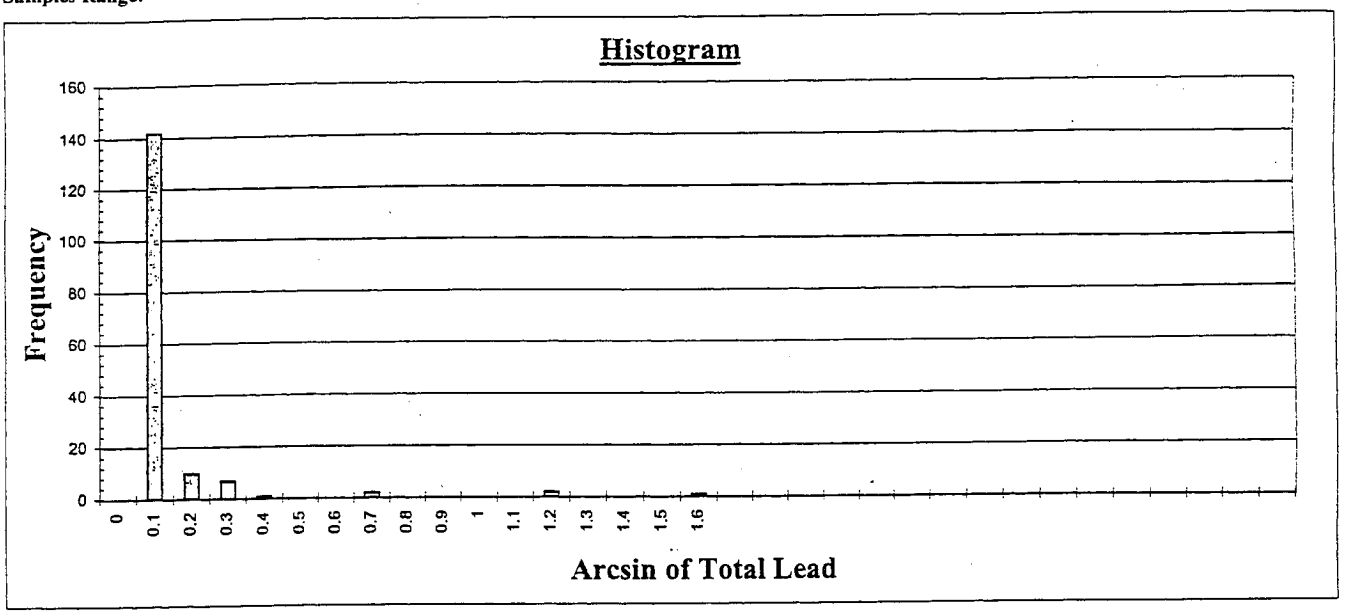
Analysis Term	Value
Mean	210.2
Standard Error	39.3
Median	46.5
Standard Deviation	505.4
Variance of Sample	255452.0
Range	3385.0
Minimum	5.0
Maximum	3390.0
Sum	34676.7
Count	165
Confidence Level (90.0%)	260.8

Analysis Term	Value
Mean	210.2
Standard Error	39.3
Median	46.5
Standard Deviation	505.4
Variance of Sample	255452.0
Range	3385.0
Minimum	5.0
Maximum	3390.0
Sum	34676.7
Count	165
Confidence Level (95.0%)	275.2

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Entire Southbound
Site Description:	Sherman Way to Route 134
Layer Depth (Meter)	0.45+0.75+1.5
Samples Range:	277-101 to 577-129 and 577-170 to 577-196



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Entire Southbound
Site Description:	Sherman Way to Route 134
Layer Depth (Meter)	0.45+0.75+1.5
Samples Range:	277-101 to 577-129 and 577-170 to 577-196

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.2867349 T0.05= 1.654

Analysis Term	Value
Mean	233.9
Standard Error	0.0149
Mean (Arcsin Values)	0.0690
Standard Deviation	0.1920
Count	165
Confidence Level (90.0%)	298.9

Analysis Term	Value
Mean	233.9
Standard Error	0.0149
Mean (Arcsin Values)	0.0690
Standard Deviation	0.1920
Count	165
Confidence Level (95.0%)	317.4

Route 170 (Southbound)
Combination of All Stage 3 Samples

Statistic Analysis Datasheet

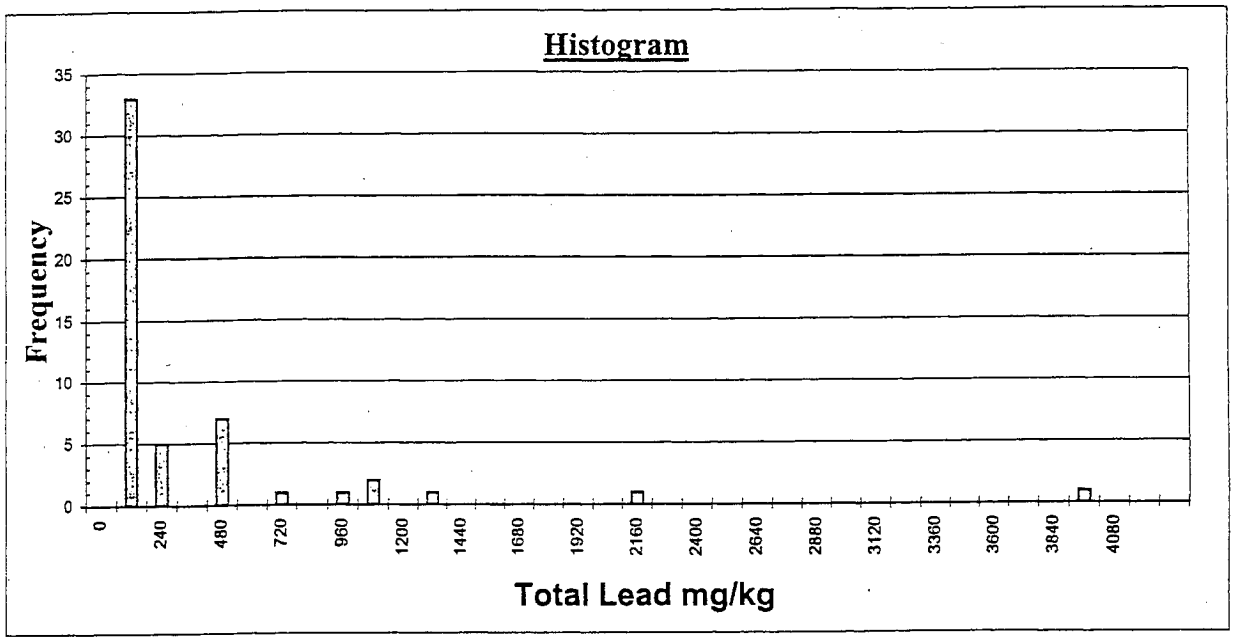
AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 3 (Southbound)
Site Description: North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-112 to 577-121 and 577-170 to 577-172

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-112-.15	3920.0	1.5708		
577-112-.45	32.4	0.0083		
577-112-.75	395.0	0.1009	27.4000	0.100
577-112-1.5	1260.0	0.3272		
577-113-.15	404.0	0.1032	26.4000	0.100
577-113-.45	2120.0	0.5714		
577-113-.75	159.0	0.0406	8.9500	0.100
577-113-1.5	902.0	0.2322	55.5000	0.100
577-114-.15	13.1	0.0033		
577-114-.45	5.0	0.0013		
577-114-.75	5.0	0.0013		
577-114-1.5	13.9	0.0035		
577-115-.15	47.7	0.0122		
577-115-.45	5.0	0.0013		
577-115-.75	10.8	0.0028		
577-115-1.5	5.0	0.0013		
577-116-.15	976.0	0.2516	54.7000	0.100
577-116-.45	453.0	0.1158	33.0000	0.100
577-116-.75	144.0	0.0367	8.8500	0.100
577-116-1.5	5.0	0.0013		
577-117-.15	24.3	0.0062		
577-117-.45	99.0	0.0253	5.3500	0.100
577-117-.75	33.6	0.0086		
577-117-1.5	16.1	0.0041		
577-118-.15	467.0	0.1194	24.6000	0.100
577-118-.45	41.7	0.0106		
577-118-.75	84.3	0.0215	4.2500	
577-118-1.5	125.0	0.0319	7.2500	0.100
577-119-.15	69.4	0.0177	3.2000	
577-119-.45	63.6	0.0162	0.5000	
577-119-.75	17.2	0.0044		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-119-1.5	96.5	0.0246	5.9000	0.100
577-120-.15	412.0	0.1053	19.4000	0.100
577-120-.45	24.5	0.0063		
577-120-.75	28.8	0.0073		
577-120-1.5	23.6	0.0060		
577-121-.15	99.0	0.0253	4.2000	
577-121-.45	17.1	0.0044		
577-121-.75	25.9	0.0066		
577-121-1.5	46.2	0.0118		
577-170-.15	414.0	0.1058	30.8000	0.100
577-170-.45	54.9	0.0140	3.2000	
577-170-.75	27.5	0.0070		
577-170-1.5	20.2	0.0052		
577-171-.15	1020.0	0.2632		
577-171-.45	630.0	0.1614	27.6000	0.100
577-171-.75	396.0	0.1012	24.4000	0.100
577-171-1.5	27.4	0.0070		
577-172-.15	114.0	0.0291	9.0000	0.100
577-172-.45	146.0	0.0373	7.7500	0.100
577-172-.75	5.0	0.0013		
577-172-1.5	149.0	0.0380	8.6000	0.100

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 3 (Southbound)
Site Description:	North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter)	0.15+0.45+0.75+1.5
Samples Range:	577-112 to 577-121 and 577-170 to 577-172



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 3 (Southbound)
Site Description: North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-112 to 577-121 and 577-170 to 577-172

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.298* T0.05= *1.675*

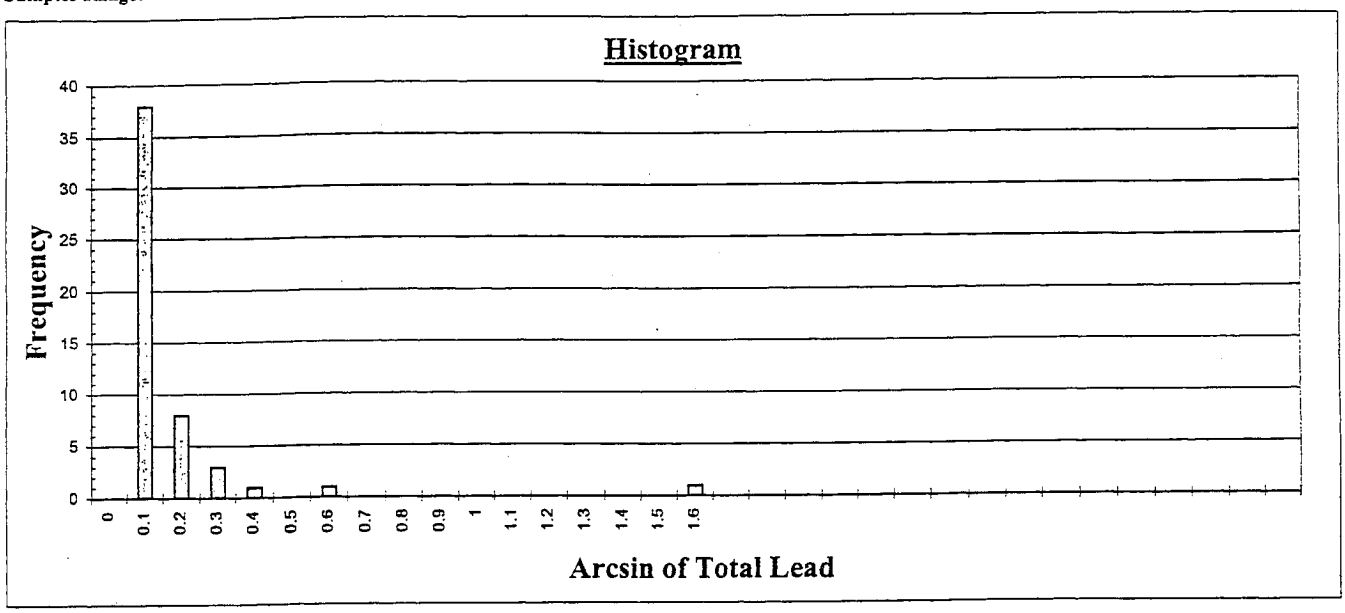
Analysis Term	Value
Mean	301.8
Standard Error	89.7
Median	59.3
Standard Deviation	646.8
Variance of Sample	418360.8
Range	3915.0
Minimum	5.0
Maximum	3920.0
Sum	15694.7
Count	52
Confidence Level (90.0%)	418.3

Analysis Term	Value
Mean	301.8
Standard Error	89.7
Median	59.3
Standard Deviation	646.8
Variance of Sample	418360.8
Range	3915.0
Minimum	5.0
Maximum	3920.0
Sum	15694.7
Count	52
Confidence Level (95.0%)	452.1

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 3 (Southbound)
Site Description:	North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter)	0.15+0.45+0.75+1.5
Samples Range:	577-112 to 577-121 and 577-170 to 577-172



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 3 (Southbound)**
Site Description:	**North Laurel Canyon Blvd. to Burbank Blvd.**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-112 to 577-121 and 577-170 to 577-172**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.2983719 **T0.05=** 1.675

Analysis Term	Value
Mean	347.9
Standard Error	0.0325
Mean (Arcsin Values)	0.0889
Standard Deviation	0.2341
Count	52
Confidence Level (90.0%)	512.1

Analysis Term	Value
Mean	347.9
Standard Error	0.0325
Mean (Arcsin Values)	0.0889
Standard Deviation	0.2341
Count	52
Confidence Level (95.0%)	559.7

Route 170 (Southbound)
Combination of All Stage 3 Samples at a Depth of (0.15 m)

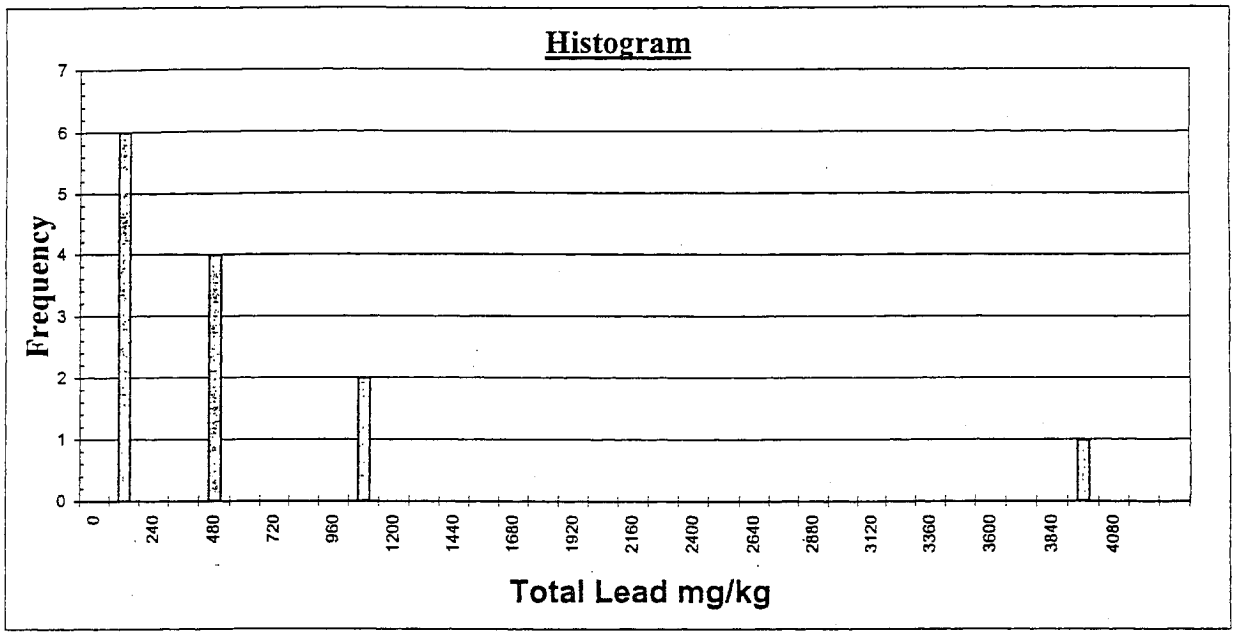
Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 3 (Southbound)
Site Description: North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter) 0.15
Samples Range: 577-112 to 577-121 and 577-170 to 577-172

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-112-.15	3920.0	1.5708		
577-113-.15	404.0	0.1032	26.4000	0.100
577-114-.15	13.1	0.0033		
577-115-.15	47.7	0.0122		
577-116-.15	976.0	0.2516	54.7000	0.100
577-117-.15	24.3	0.0062		
577-118-.15	467.0	0.1194	24.6000	0.100
577-119-.15	69.4	0.0177	3.2000	
577-120-.15	412.0	0.1053	19.4000	0.100
577-121-.15	99.0	0.0253	4.2000	
577-170-.15	414.0	0.1058	30.8000	0.100
577-171-.15	1020.0	0.2632		
577-172-.15	114.0	0.0291	9.0000	0.100

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 3 (Southbound)
Site Description:	North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter)	0.15
Samples Range:	577-112 to 577-121 and 577-170 to 577-172



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 3 (Southbound)
Site Description: North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter) 0.15
Samples Range: 577-112 to 577-121 and 577-170 to 577-172

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.356* T0.05= *1.782*

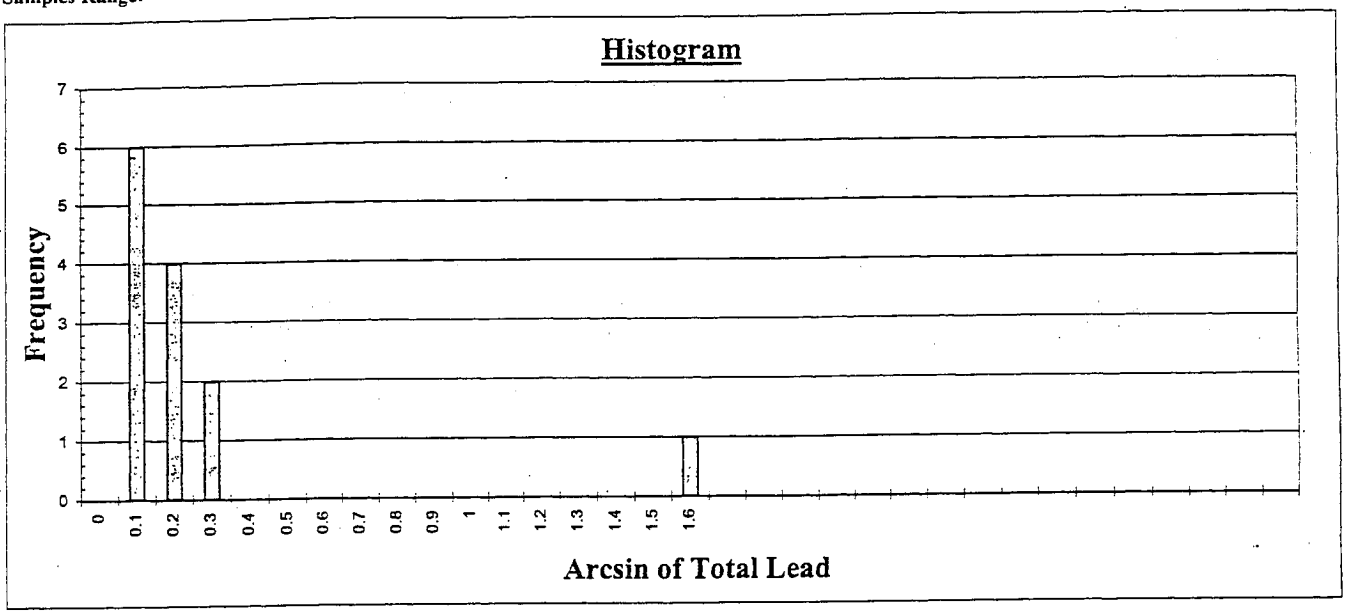
Analysis Term	Value
Mean	613.9
Standard Error	291.0
Median	404.0
Standard Deviation	1049.3
Variance of Sample	1101113.8
Range	3906.9
Minimum	13.1
Maximum	3920.0
Sum	7980.5
Count	13
Confidence Level (90.0%)	1008.6

Analysis Term	Value
Mean	613.9
Standard Error	291.0
Median	404.0
Standard Deviation	1049.3
Variance of Sample	1101113.8
Range	3906.9
Minimum	13.1
Maximum	3920.0
Sum	7980.5
Count	13
Confidence Level (95.0%)	1132.6

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 3 (Southbound)
Site Description:	North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter)	0.15
Samples Range:	577-112 to 577-121 and 577-170 to 577-172



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 3 (Southbound)**
Site Description:	**North Laurel Canyon Blvd. to Burbank Blvd.**
Layer Depth (Meter)	**0.15**
Samples Range:	**577-112 to 577-121 and 577-170 to 577-172**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.356218 **T0.05=** 1.782

Analysis Term	Value
Mean	782.7
Standard Error	0.1167
Mean (Arcsin Values)	0.2010
Standard Deviation	0.4207
Count	13
Confidence Level (90.0%)	1378.2

Analysis Term	Value
Mean	782.7
Standard Error	0.1167
Mean (Arcsin Values)	0.2010
Standard Deviation	0.4207
Count	13
Confidence Level (95.0%)	1558.9

Route 170 (Southbound)
Combination of All Stage 3 Samples at Depths of (0.45+0.75+1.5 m)

Statistic Analysis Datasheet

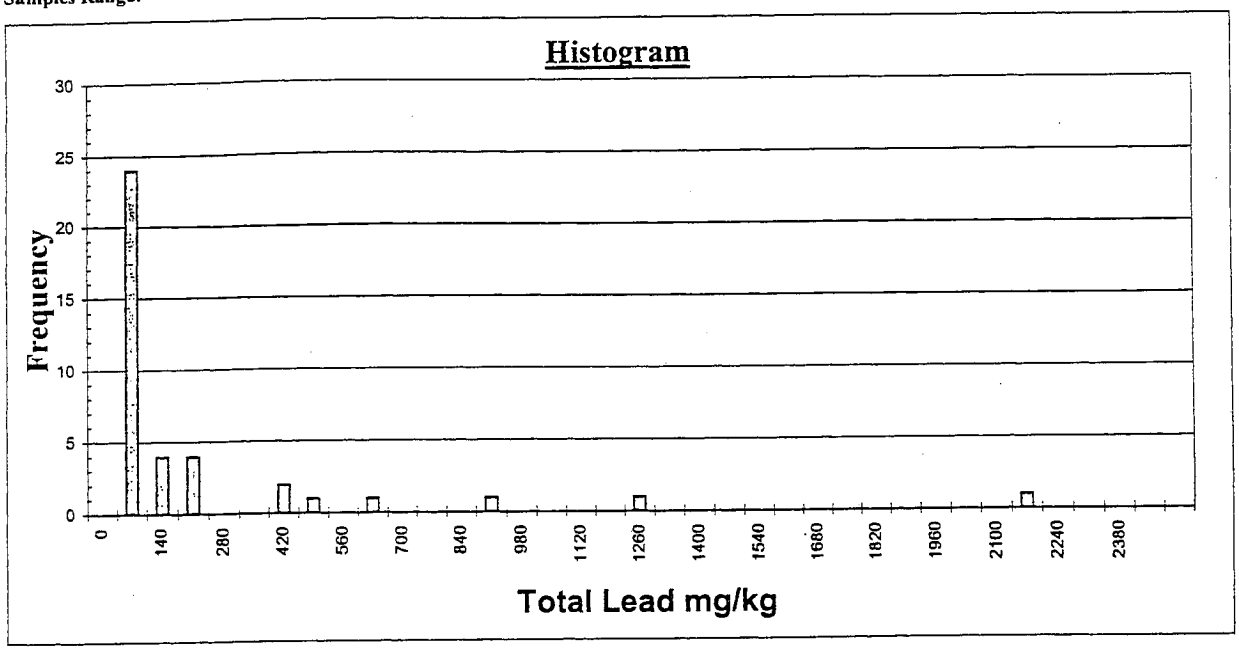
AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 3 (Southbound)
Site Description: North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter) 0.45+0.75+1.5
Samples Range: 577-112 to 577-121 and 577-170 to 577-172

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-112-.45	32.4	0.0153		
577-113-.45	2120.0	1.5708		
577-114-.45	5.0	0.0024		
577-115-.45	5.0	0.0024		
577-116-.45	453.0	0.2153	33.0000	0.100
577-117-.45	99.0	0.0467	5.3500	0.100
577-118-.45	41.7	0.0197		
577-119-.45	63.6	0.0300	0.5000	
577-120-.45	24.5	0.0116		
577-121-.45	17.1	0.0081		
577-170-.45	54.9	0.0259	3.2000	
577-171-.45	630.0	0.3017	27.6000	0.100
577-172-.45	146.0	0.0689	7.7500	0.100
577-112-.75	395.0	0.1874	27.4000	0.100
577-113-.75	159.0	0.0751	8.9500	0.100
577-114-.75	5.0	0.0024		
577-115-.75	10.8	0.0051		
577-116-.75	144.0	0.0680	8.8500	0.100
577-117-.75	33.6	0.0158		
577-118-.75	84.3	0.0398	4.2500	
577-119-.75	17.2	0.0081		
577-120-.75	28.8	0.0136		
577-121-.75	25.9	0.0122		
577-170-.75	27.5	0.0130		
577-171-.75	396.0	0.1879	24.4000	0.100
577-172-.75	5.0	0.0024		
577-112-1.5	1260.0	0.6364		
577-113-1.5	902.0	0.4395	55.5000	0.100
577-114-1.5	13.9	0.0066		
577-115-1.5	5.0	0.0024		
577-116-1.5	5.0	0.0024		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-117-1.5	16.1	0.0076		
577-118-1.5	125.0	0.0590	7.2500	0.100
577-119-1.5	96.5	0.0455	5.9000	0.100
577-120-1.5	23.6	0.0111		
577-121-1.5	46.2	0.0218		
577-170-1.5	20.2	0.0095		
577-171-1.5	27.4	0.0129		
577-172-1.5	149.0	0.0703	8.6000	0.100

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 3 (Southbound)
Site Description:	North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter)	0.45+0.75+1.5
Samples Range:	577-112 to 577-121 and 577-170 to 577-172



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 3 (Southbound)
Site Description: North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter) 0.45+0.75+1.5
Samples Range: 577-112 to 577-121 and 577-170 to 577-172

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.304* T0.05= *1.686*

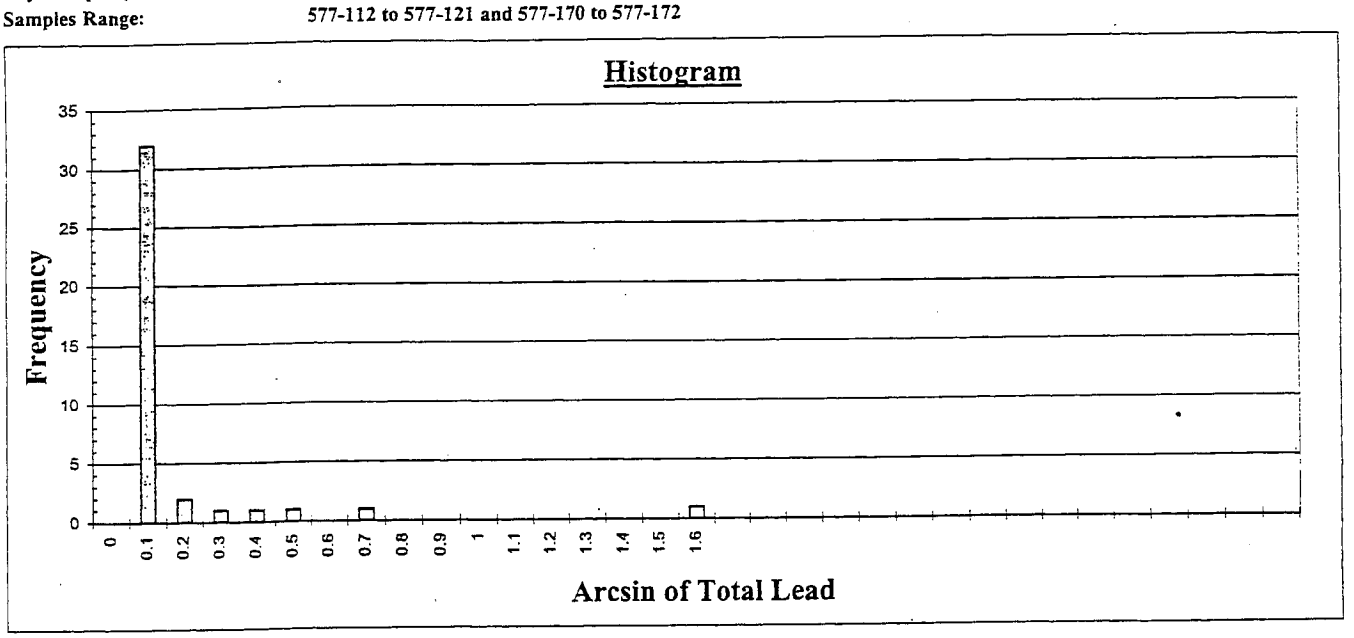
Analysis Term	Value
Mean	197.8
Standard Error	65.9
Median	33.6
Standard Deviation	411.5
Variance of Sample	169343.5
Range	2115.0
Minimum	5.0
Maximum	2120.0
Sum	7714.2
Count	39
Confidence Level (90.0%)	283.7

Analysis Term	Value
Mean	197.8
Standard Error	65.9
Median	33.6
Standard Deviation	411.5
Variance of Sample	169343.5
Range	2115.0
Minimum	5.0
Maximum	2120.0
Sum	7714.2
Count	39
Confidence Level (95.0%)	308.9

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 3 (Southbound)
Site Description:	North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter)	0.45+0.75+1.5
Samples Range:	577-112 to 577-121 and 577-170 to 577-172



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 3 (Southbound)**
Site Description:	**North Laurel Canyon Blvd. to Burbank Blvd.**
Layer Depth (Meter)	**0.45+0 75+1.5**
Samples Range:	**577-112 to 577-121 and 577-170 to 577-172**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3042302 **T0.05=** 1.686

Analysis Term	Value
Mean	231.9
Standard Error	0.0438
Mean (Arcsin Values)	0.1096
Standard Deviation	0.2733
Count	39
Confidence Level (90.0%)	351.7

Analysis Term	Value
Mean	231.9
Standard Error	0.0438
Mean (Arcsin Values)	0.1096
Standard Deviation	0.2733
Count	39
Confidence Level (95.0%)	386.6

Route 170 (Southbound)
Combination of All Stage 3 Samples at Depths of (0.15+0.45 m)

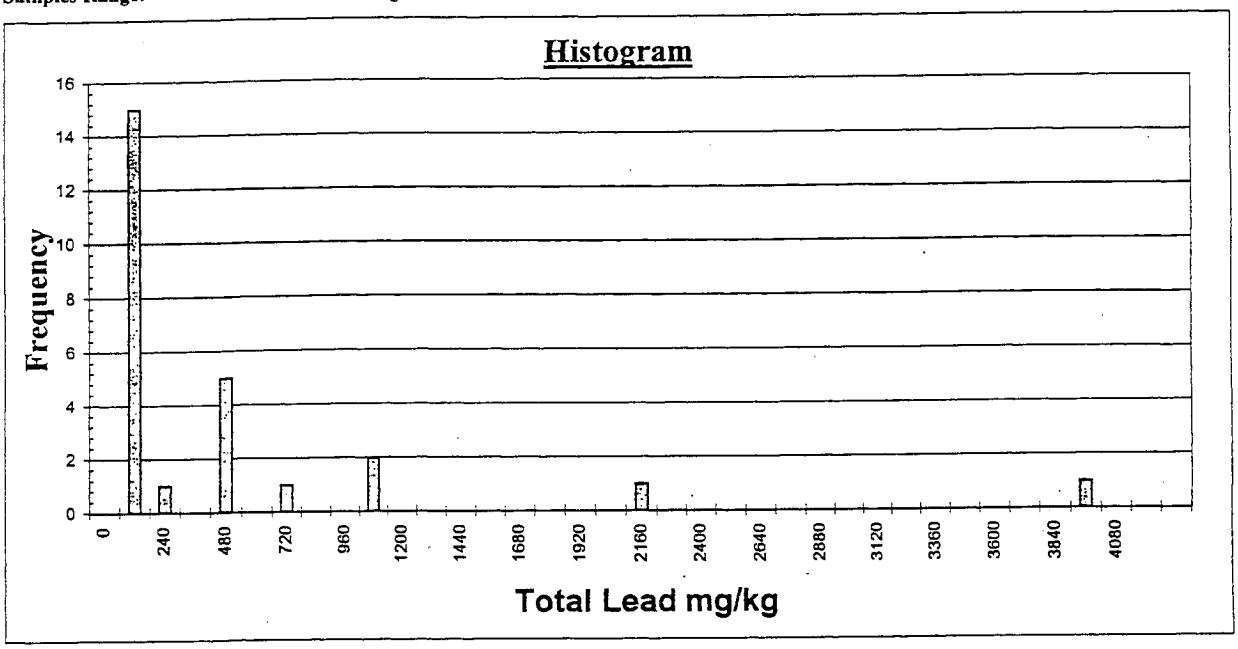
Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 3 (Southbound)
Site Description: North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter) 0.15+0.45
Samples Range: 577-215 through 577-219

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-112-.15	3920.0	1.5708		
577-113-.15	404.0	0.1032	26.4000	0.100
577-114-.15	13.1	0.0033		
577-115-.15	47.7	0.0122		
577-116-.15	976.0	0.2516	54.7000	0.100
577-117-.15	24.3	0.0062		
577-118-.15	467.0	0.1194	24.6000	0.100
577-119-.15	69.4	0.0177	3.2000	
577-120-.15	412.0	0.1053	19.4000	0.100
577-121-.15	99.0	0.0253	4.2000	
577-170-.15	414.0	0.1058	30.8000	0.100
577-171-.15	1020.0	0.2632		
577-172-.15	114.0	0.0291	9.0000	0.100
577-112-.45	32.4	0.0083		
577-113-.45	2120.0	0.5714		
577-114-.45	5.0	0.0013		
577-115-.45	5.0	0.0013		
577-116-.45	453.0	0.1158	33.0000	0.100
577-117-.45	99.0	0.0253	5.3500	0.100
577-118-.45	41.7	0.0106		
577-119-.45	63.6	0.0162	0.5000	
577-120-.45	24.5	0.0063		
577-121-.45	17.1	0.0044		
577-170-.45	54.9	0.0140	3.2000	
577-171-.45	630.0	0.1614	27.6000	0.100
577-172-.45	146.0	0.0373	7.7500	0.100

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 3 (Southbound)
Site Description:	North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter)	0.15+0.45
Samples Range:	577-215 through 577-219



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 3 (Southbound)
Site Description: North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter) 0.15+0.45
Samples Range: 577-215 through 577-219

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.316* T0.05= *1.708*

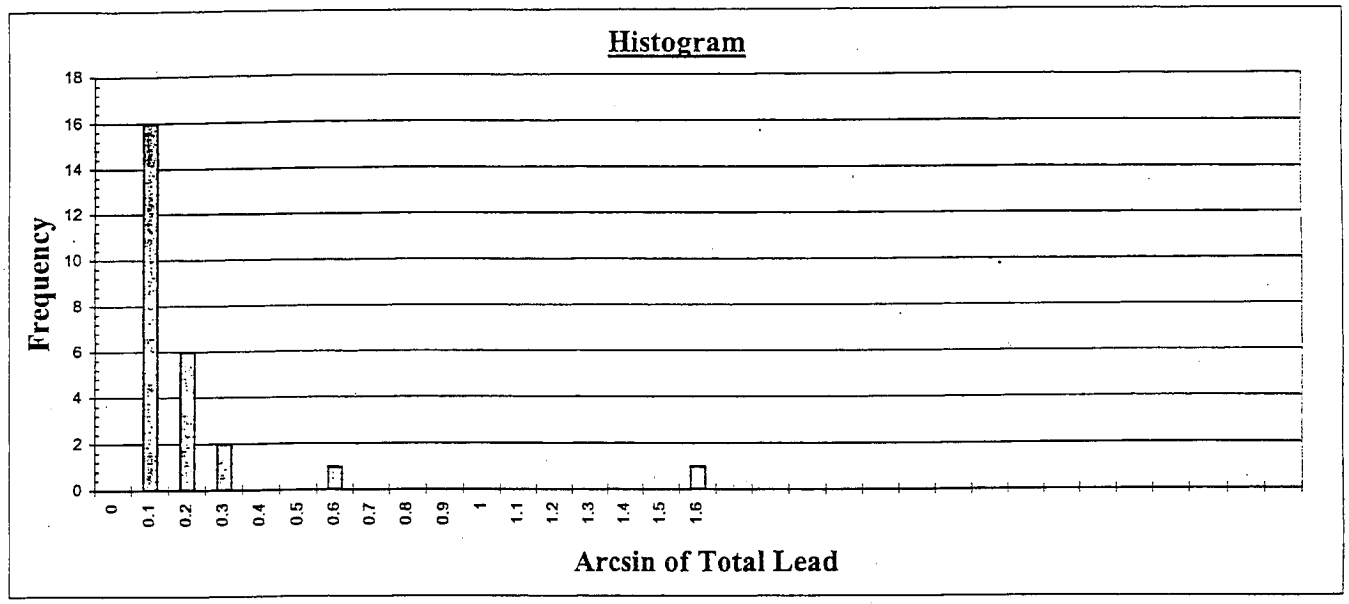
Analysis Term	Value
Mean	449.0
Standard Error	166.5
Median	99.0
Standard Deviation	848.8
Variance of Sample	720417.2
Range	3915.0
Minimum	5.0
Maximum	3920.0
Sum	11672.7
Count	26
Confidence Level (90.0%)	668.1

Analysis Term	Value
Mean	449.0
Standard Error	166.5
Median	99.0
Standard Deviation	848.8
Variance of Sample	720417.2
Range	3915.0
Minimum	5.0
Maximum	3920.0
Sum	11672.7
Count	26
Confidence Level (95.0%)	733.3

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 3 (Southbound)**
Site Description:	**North Laurel Canyon Blvd. to Burbank Blvd.**
Layer Depth (Meter)	**0.15+0.45**
Samples Range:	**577-215 through 577-219**



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 3 (Southbound)**
Site Description:	**North Laurel Canyon Blvd. to Burbank Blvd.**
Layer Depth (Meter)	**0.15+0.45**
Samples Range:	**577-215 through 577-219**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3163458 **T0.05=** 1.708

Analysis Term	Value
Mean	539.0
Standard Error	0.0623
Mean (Arcsin Values)	0.1379
Standard Deviation	0.3177
Count	26
Confidence Level (90.0%)	855.3

Analysis Term	Value
Mean	539.0
Standard Error	0.0623
Mean (Arcsin Values)	0.1379
Standard Deviation	0.3177
Count	26
Confidence Level (95.0%)	948.4

Route 170 (Southbound)
Combination of All Stage 3 Samples at Depths of (0.75+1.5 m)

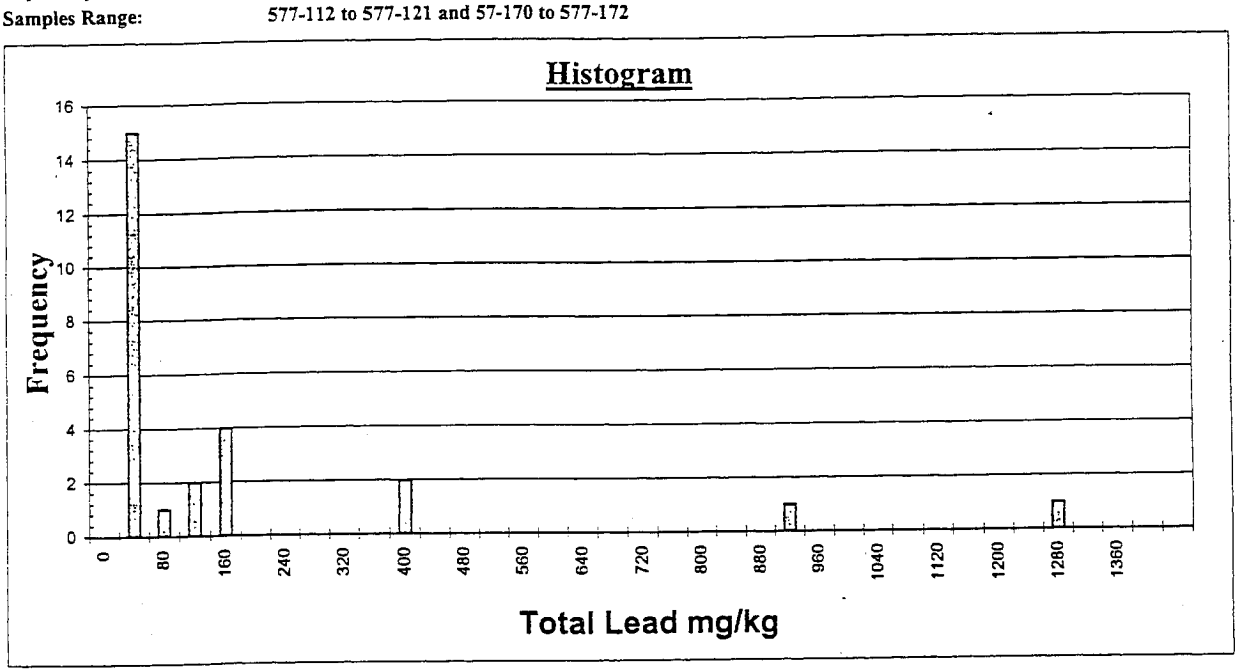
Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 3 (Southbound)
Site Description: North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter) 0.75+1.5
Samples Range: 577-112 to 577-121 and 57-170 to 577-172

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-112-.75	395.0	0.3189	27.4000	0.100
577-113-.75	159.0	0.1265	8.9500	0.100
577-114-.75	5.0	0.0040		
577-115-.75	10.8	0.0086		
577-116-.75	144.0	0.1145	8.8500	0.100
577-117-.75	33.6	0.0267		
577-118-.75	84.3	0.0670	4.2500	
577-119-.75	17.2	0.0137		
577-120-.75	28.8	0.0229		
577-121-.75	25.9	0.0206		
577-170-.75	27.5	0.0218		
577-171-.75	396.0	0.3197	24.4000	0.100
577-172-.75	5.0	0.0040		
577-112-1.5	1260.0	1.5708		
577-113-1.5	902.0	0.7979	55.5000	0.100
577-114-1.5	13.9	0.0110		
577-115-1.5	5.0	0.0040		
577-116-1.5	5.0	0.0040		
577-117-1.5	16.1	0.0128		
577-118-1.5	125.0	0.0994	7.2500	0.100
577-119-1.5	96.5	0.0767	5.9000	0.100
577-120-1.5	23.6	0.0187		
577-121-1.5	46.2	0.0367		
577-170-1.5	20.2	0.0160		
577-171-1.5	27.4	0.0217		
577-172-1.5	149.0	0.1185	8.6000	0.100

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 3 (Southbound)
Site Description:	North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter)	0.75+1.5
Samples Range:	577-112 to 577-121 and 57-170 to 577-172



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 3 (Southbound)
Site Description: North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter) 0.75+1.5
Samples Range: 577-112 to 577-121 and 57-170 to 577-172

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.316* T0.05= *1.708*

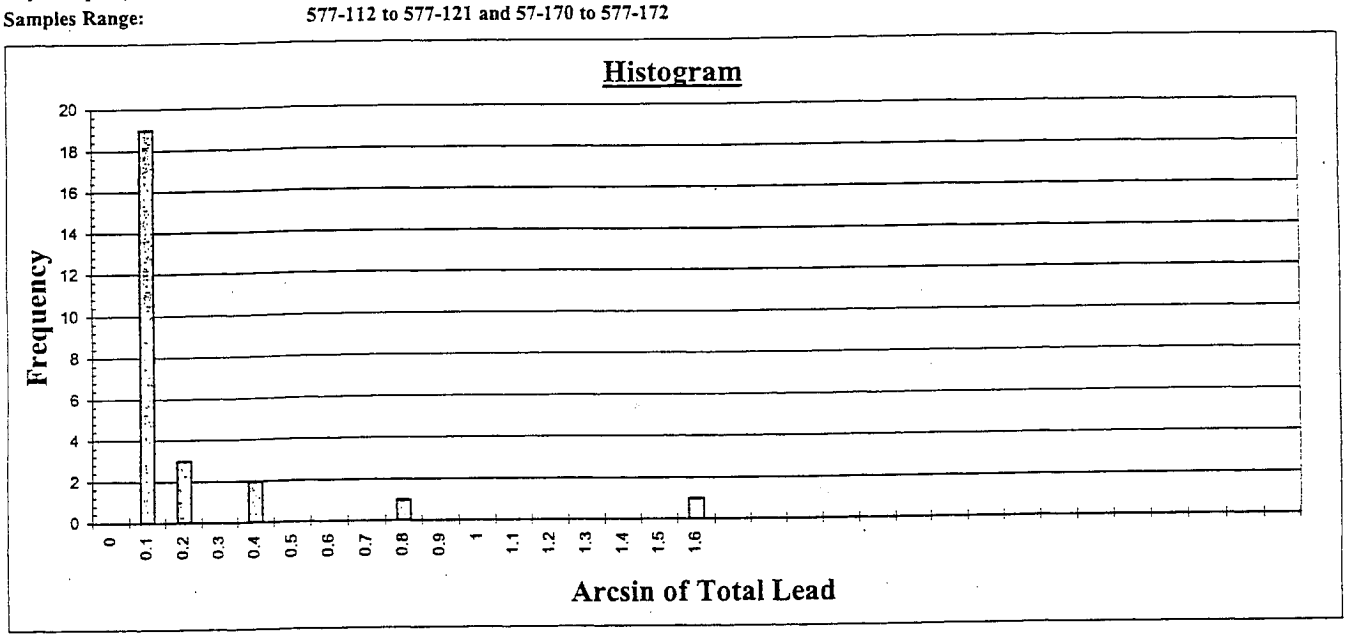
Analysis Term	Value
Mean	154.7
Standard Error	58.2
Median	28.2
Standard Deviation	296.7
Variance of Sample	88013.4
Range	1255.0
Minimum	5.0
Maximum	1260.0
Sum	4022.0
Count	26
Confidence Level (90.0%)	231.3

Analysis Term	Value
Mean	154.7
Standard Error	58.2
Median	28.2
Standard Deviation	296.7
Variance of Sample	88013.4
Range	1255.0
Minimum	5.0
Maximum	1260.0
Sum	4022.0
Count	26
Confidence Level (95.0%)	254.1

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 3 (Southbound)
Site Description:	North Laurel Canyon Blvd. to Burbank Blvd.
Layer Depth (Meter)	0.75+1.5
Samples Range:	577-112 to 577-121 and 57-170 to 577-172



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 3 (Southbound)**
Site Description:	**North Laurel Canyon Blvd. to Burbank Blvd.**
Layer Depth (Meter)	**0.75+1 5**
Samples Range:	**577-112 to 577-121 and 57-170 to 577-172**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3163458 **T0.05=** 1.708

Analysis Term	Value
Mean	186.2
Standard Error	0.0657
Mean (Arcsin Values)	0.1483
Standard Deviation	0.3349
Count	26
Confidence Level (90.0%)	293.1

Analysis Term	Value
Mean	186.2
Standard Error	0.0657
Mean (Arcsin Values)	0.1483
Standard Deviation	0.3349
Count	26
Confidence Level (95.0%)	324.6

Route 170 (Southbound)
Combination of All Stage 1 Samples

Statistic Analysis Datasheet

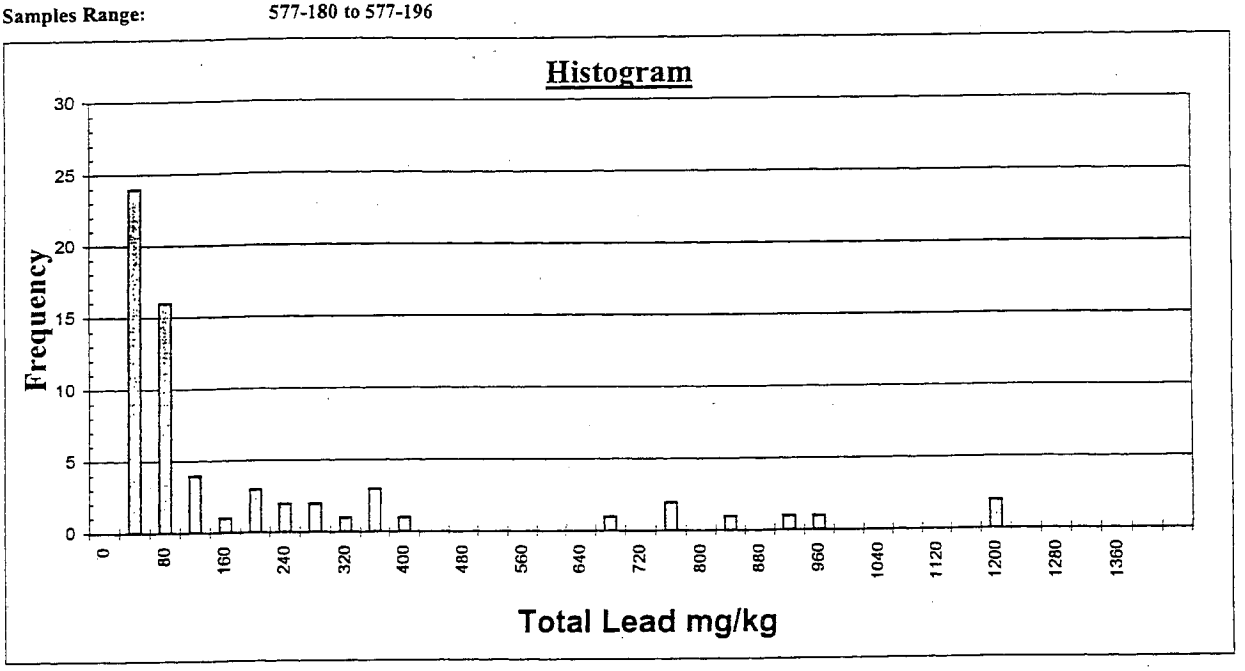
AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 1 (Southbound)
Site Description: Victory Blvd. to Sherman Way
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-180 to 577-196

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-180- 15	327.0	0.2784	11.5000	0.220
577-181-.15	58.0	0.0488	3.9500	
577-181-.45	5.0	0.0042		
577-181-.75	5.0	0.0042		
577-181-1.5	5.0	0.0042		
577-182-.15	57.0	0.0479	4.6500	
577-182- 45	70.8	0.0595	4.7500	
577-182-.75	47.5	0.0399		
577-182-1.5	81.7	0.0687	5.3500	0.490
577-183- 15	75.2	0.0632	4.8500	
577-183- 45	5.0	0.0042		
577-183-.75	10.9	0.0092		
577-183-1 5	63.7	0.0536	4.2000	
577-184-.15	38.0	0.0319		
577-184-.45	46.5	0.0391		
577-184- 75	45.1	0.0379		
577-184-1.5	46.1	0.0387		
577-185-.15	64.7	0.0544	4.1000	
577-185-.45	11.0	0.0092		
577-185-.75	5.0	0.0042		
577-185-1.5	12.9	0.0108		
577-186-.15	81.9	0.0689	3.5000	
577-186-.45	22.3	0.0187		
577-186- 75	24.7	0.0208		
577-186-1.5	33.0	0.0277		
577-187-.15	96.5	0.0812	5.4500	0.540
577-187- 45	88.8	0.0747	4.7000	
577-187-.75	33.5	0.0282		
577-187-1.5	26.7	0.0224		
577-188-.15	382.0	0.3268	17.3000	0.100
577-188-.45	34.9	0.0293		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-188-.75	20.4	0.0171		
577-188-1.5	46.0	0.0387		
577-189-.15	1190.0	1.5708		
577-189-.45	237.0	0.2005	15.0000	0.100
577-189-.75	329.0	0.2801	21.3000	0.100
577-189-1.5	320.0	0.2723	21.9000	0.100
577-190-.15	900.0	0.8576	59.2000	0.100
577-190-.45	675.0	0.6031	51.0000	0.100
577-190-.75	723.0	0.6530	48.0000	0.100
577-190-1.5	67.2	0.0565	4.9500	
577-191-.15	835.0	0.7778	62.3000	0.520
577-191-.45	32.0	0.0269		
577-191-.75	747.0	0.6786	61.1000	0.520
577-191-1.5	18.5	0.0155		
577-192-.15	1180.0	1.4411		
577-192-.45	936.0	0.9052	69.8000	0.100
577-192-.75	28.7	0.0241		
577-192-1.5	58.9	0.0495	7.1500	0.100
577-193-.15	163.0	0.1374	14.9000	0.100
577-193-.45	172.0	0.1450	11.6000	0.100
577-193-.75	180.0	0.1518	11.1000	0.100
577-193-1.5	156.0	0.1315	12.6000	0.240
577-194-.15	268.0	0.2272	17.3000	0.100
577-194-.45	41.6	0.0350		
577-194-.75	46.5	0.0391		
577-194-1.5	22.8	0.0192		
577-195-.15	338.0	0.2880	23.2000	0.100
577-195-.45	53.5	0.0450	3.1500	
577-195-.75	28.7	0.0241		
577-195-1.5	252.0	0.2134	16.9000	0.100
577-196-.15	222.0	0.1877	12.1000	0.540
577-196-.45	14.6	0.0123		
577-196-.75	27.2	0.0229		
577-196-1.5	32.5	0.0273		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 1 (Southbound)
Site Description:	Victory Blvd. to Sherman Way
Layer Depth (Meter)	0.15+0.45+0.75+1.5
Samples Range:	577-180 to 577-196



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 1 (Southbound)
Site Description: Victory Blvd. to Sherman Way
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-180 to 577-196

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.295* T0.05= *1.669*

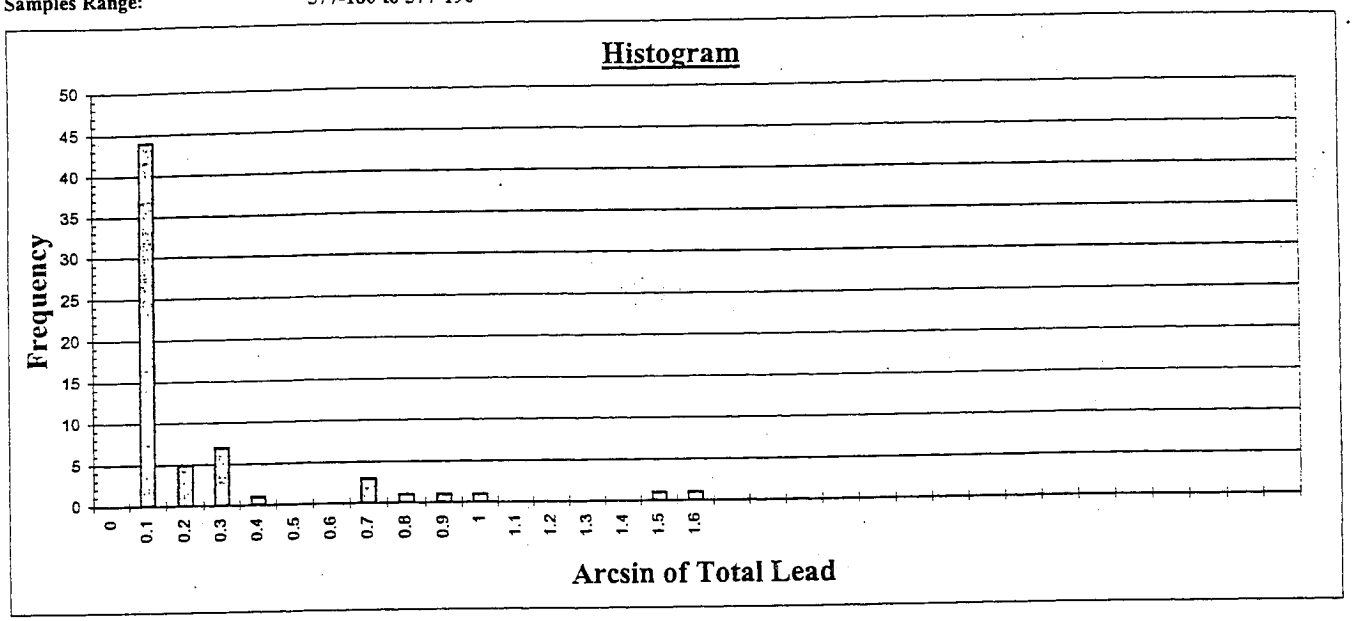
Analysis Term	Value
Mean	188.7
Standard Error	36.2
Median	57.0
Standard Deviation	291.5
Variance of Sample	84985.3
Range	1185.0
Minimum	5.0
Maximum	1190.0
Sum	12267.5
Count	65
Confidence Level (90.0%)	235.6

Analysis Term	Value
Mean	188.7
Standard Error	36.2
Median	57.0
Standard Deviation	291.5
Variance of Sample	84985.3
Range	1185.0
Minimum	5.0
Maximum	1190.0
Sum	12267.5
Count	65
Confidence Level (95.0%)	249.1

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 1 (Southbound)
Site Description:	Victory Blvd. to Sherman Way
Layer Depth (Meter)	0.15+0.45+0.75+1.5
Samples Range:	577-180 to 577-196



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 1 (Southbound)**
Site Description:	**Victory Blvd. to Sherman Way**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-180 to 577-196**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.2949204 **T0.05=** 1.669

Analysis Term	Value
Mean	214.6
Standard Error	0.0397
Mean (Arcsin Values)	0.1813
Standard Deviation	0.3201
Count	65
Confidence Level (90.0%)	274.5

Analysis Term	Value
Mean	214.6
Standard Error	0.0397
Mean (Arcsin Values)	0.1813
Standard Deviation	0.3201
Count	65
Confidence Level (95.0%)	291.6

Route 170 (Southbound)
Combination of All Stage 2 Samples

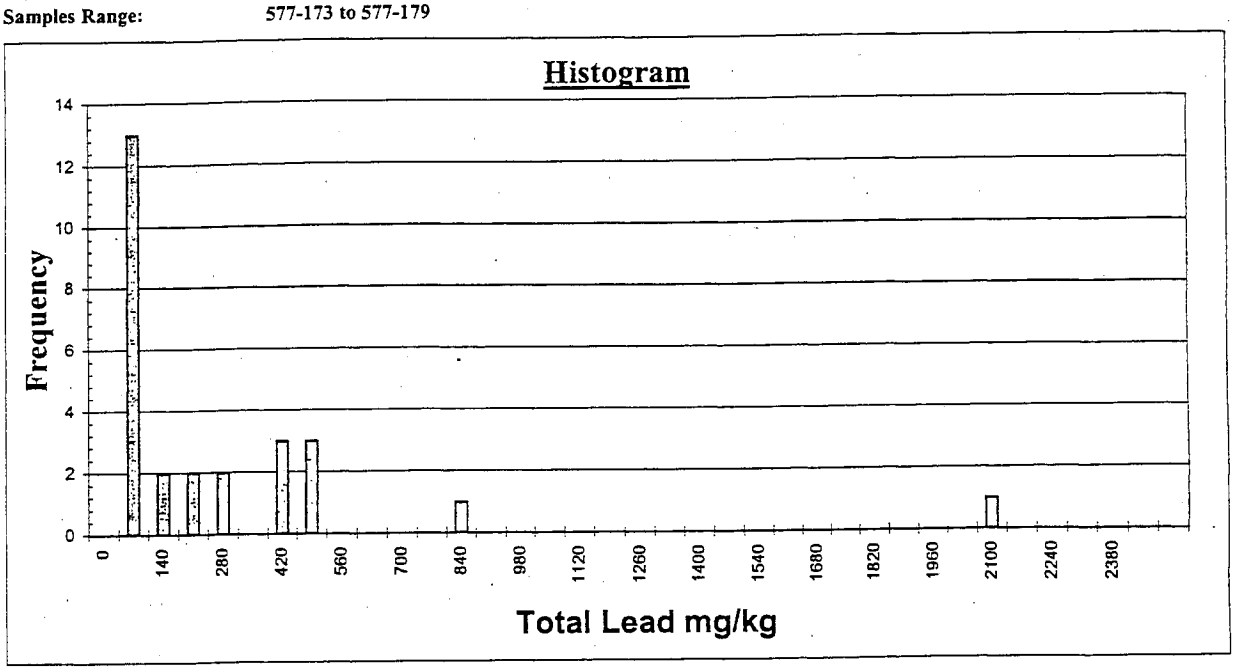
Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 2 (Southbound)
Site Description: South Victory to North Laurel Canyon Blvd.
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-173 to 577-179

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-173-.15	378.0	0.1555	33.7000	0.100
577-173-.45	81.9	0.0336	5.1500	0.100
577-173-.75	56.4	0.0231	2.2000	
577-173-1.5	61.2	0.0251	7.8000	0.100
577-174-.15	466.0	0.1922	29.8000	0.100
577-174-.45	224.0	0.0919	17.0000	0.100
577-174-.75	110.0	0.0451	11.8000	0.100
577-174-1.5	26.2	0.0107		
577-175-.15	2090.0	1.0286		
577-175-.45	141.0	0.0578	9.0500	0.100
577-175-.75	24.4	0.0100		
577-175-1.5	811.0	0.3388	43.8000	0.100
577-176-.15	2440.0	1.5708		
577-176-.45	47.5	0.0195		
577-176-.75	59.2	0.0243	4.0000	
577-176-1.5	366.0	0.1506	22.6000	0.100
577-177-.15	444.0	0.1830	37.3000	0.260
577-177-.45	16.8	0.0069		
577-177-.75	5.0	0.0020		
577-177-1.5	5.0	0.0020		
577-178-.15	461.0	0.1901	30.6000	0.100
577-178-.45	358.0	0.1473	17.9000	0.100
577-178-.75	250.0	0.1026	25.4000	0.100
577-178-1.5	169.0	0.0693	10.3000	0.100
577-179-.15	5.0	0.0020		
577-179-.45	5.0	0.0020		
577-179-.75	14.3	0.0059		
577-179-1.5	5.0	0.0020		

Histogram for Total Lead

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 2 (Southbound)**
Site Description:	**South Victory to North Laurel Canyon Blvd.**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-173 to 577-179**



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 2 (Southbound)
Site Description: South Victory to North Laurel Canyon Blvd.
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-173 to 577-179

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.314* T0.05= *1.703*

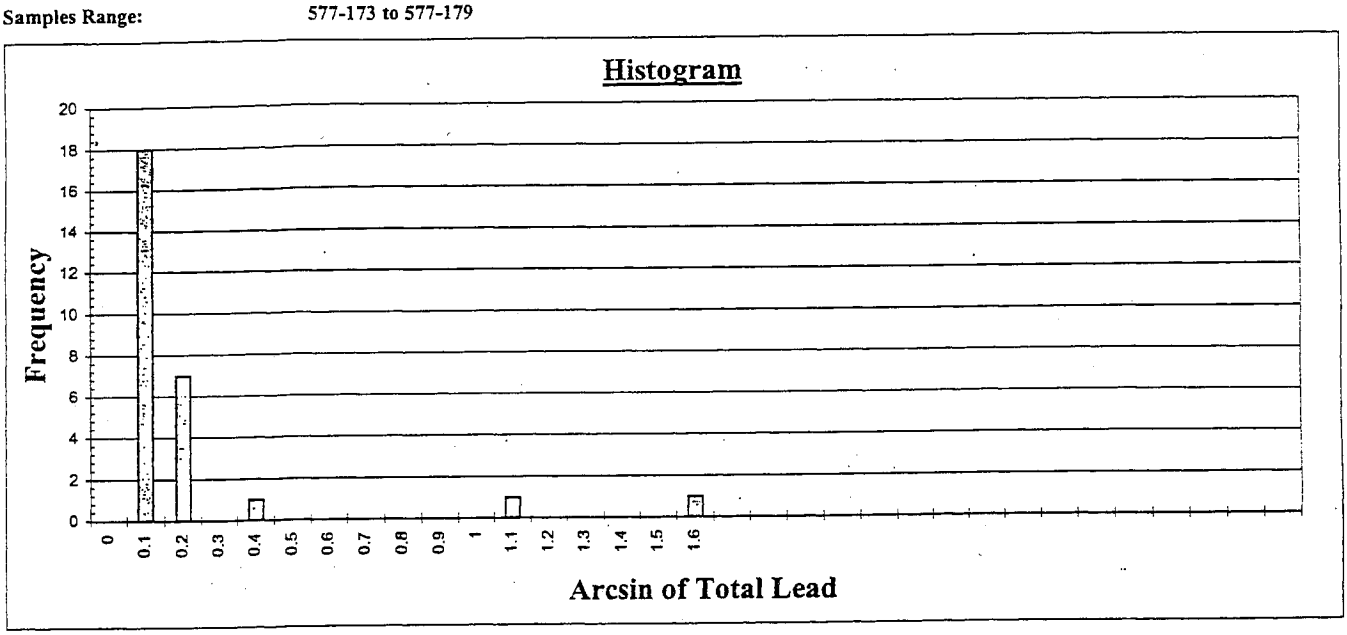
Analysis Term	Value
Mean	325.7
Standard Error	110.5
Median	96.0
Standard Deviation	584.8
Variance of Sample	342023.8
Range	2435.0
Minimum	5.0
Maximum	2440.0
Sum	9120.9
Count	28
Confidence Level (90.0%)	470.9

Analysis Term	Value
Mean	325.7
Standard Error	110.5
Median	96.0
Standard Deviation	584.8
Variance of Sample	342023.8
Range	2435.0
Minimum	5.0
Maximum	2440.0
Sum	9120.9
Count	28
Confidence Level (95.0%)	514.0

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 2 (Southbound)
Site Description:	South Victory to North Laurel Canyon Blvd.
Layer Depth (Meter)	0.15+0.45+0.75+1.5
Samples Range:	577-173 to 577-179



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 2 (Southbound)**
Site Description:	**South Victory to North Laurel Canyon Blvd.**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-173 to 577-179**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3137037 **T0.05=** 1.703

Analysis Term	Value
Mean	389.8
Standard Error	0.0643
Mean (Arcsin Values)	0.1605
Standard Deviation	0.3403
Count	28
Confidence Level (90.0%)	591.7

Analysis Term	Value
Mean	389.8
Standard Error	0.0643
Mean (Arcsin Values)	0.1605
Standard Deviation	0.3403
Count	28
Confidence Level (95.0%)	650.8

Route 170 (Southbound)
Combination of All Stage 2 Samples at a Depth of (0.15 m)

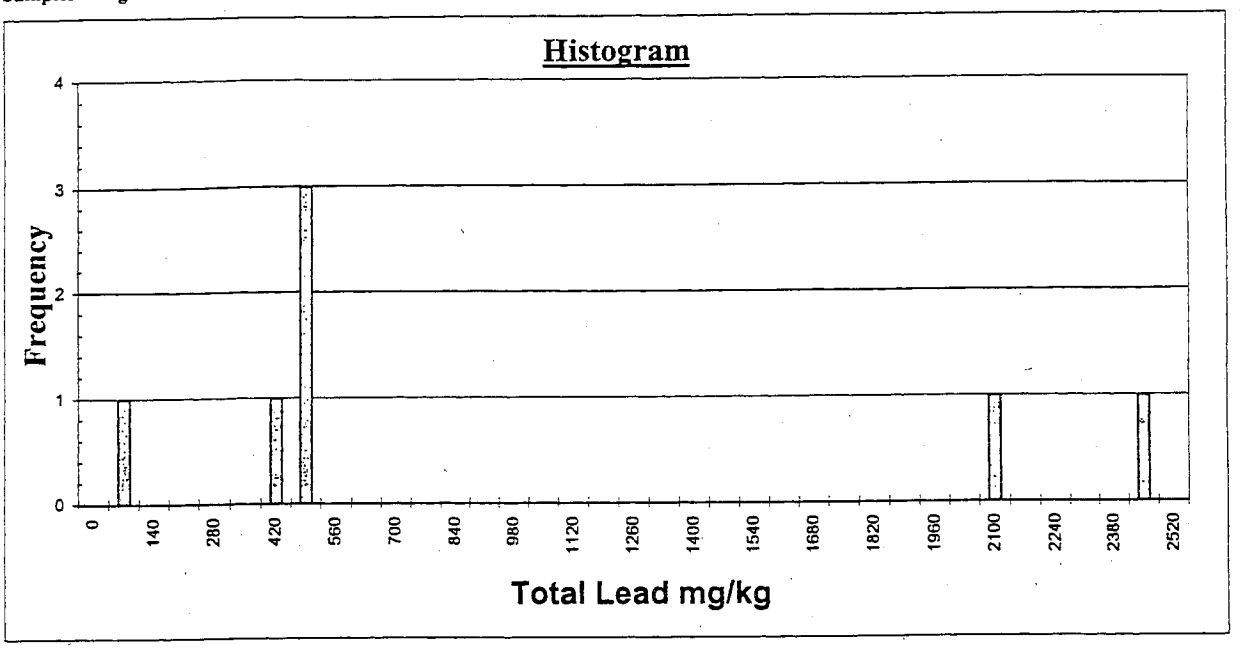
Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 2 (Southbound)
Site Description: South Victory to North Laurel Canyon Blvd.
Layer Depth (Meter) 0.15
Samples Range: 577-173 to 577-179

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-173-.15	378.0	0.1555	33.7000	0.100
577-174-.15	466.0	0.1922	29.8000	0.100
577-175-.15	2090.0	1.0286		
577-176-.15	2440.0	1.5708		
577-177-.15	444.0	0.1830	37.3000	0.260
577-178-.15	461.0	0.1901	30.6000	0.100
577-179-.15	5.0	0.0020		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 2 (Southbound)
Site Description:	South Victory to North Laurel Canyon Blvd.
Layer Depth (Meter)	0.15
Samples Range:	577-173 to 577-179



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 2 (Southbound)
Site Description: South Victory to North Laurel Canyon Blvd.
Layer Depth (Meter) 0.15
Samples Range: 577-173 to 577-179

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.440* T0.05= *1.943*

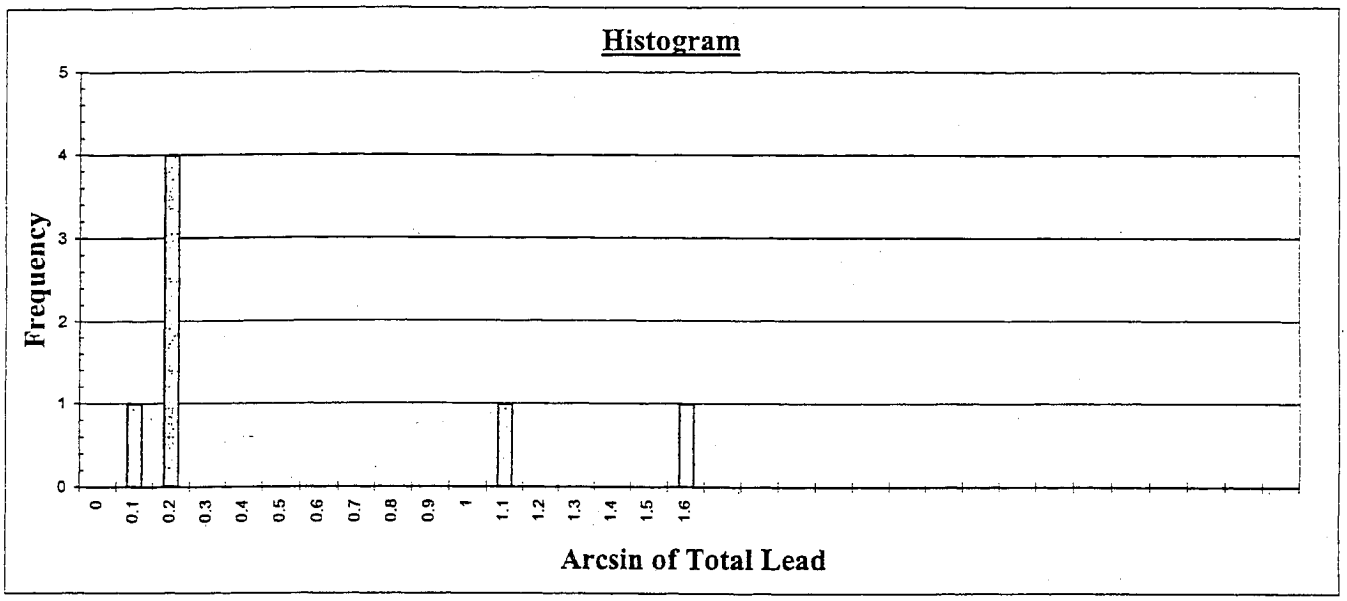
Analysis Term	Value
Mean	897.7
Standard Error	360.2
Median	461.0
Standard Deviation	953.1
Variance of Sample	908364.2
Range	2435.0
Minimum	5.0
Maximum	2440.0
Sum	6284.0
Count	7
Confidence Level (90.0%)	1416.4

Analysis Term	Value
Mean	897.7
Standard Error	360.2
Median	461.0
Standard Deviation	953.1
Variance of Sample	908364.2
Range	2435.0
Minimum	5.0
Maximum	2440.0
Sum	6284.0
Count	7
Confidence Level (95.0%)	1597.7

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 2 (Southbound)
Site Description:	South Victory to North Laurel Canyon Blvd.
Layer Depth (Meter)	0.15
Samples Range:	577-173 to 577-179



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 2 (Southbound)**
Site Description:	**South Victory to North Laurel Canyon Blvd.**
Layer Depth (Meter)	**0.15**
Samples Range:	**577-173 to 577-179**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.4397551 **T0.05=** 1.943

Analysis Term	Value
Mean	1115.0
Standard Error	0.2225
Mean (Arcsin Values)	0.4746
Standard Deviation	0.5887
Count	7
Confidence Level (90.0%)	1741.7

Analysis Term	Value
Mean	1115.0
Standard Error	0.2225
Mean (Arcsin Values)	0.4746
Standard Deviation	0.5887
Count	7
Confidence Level (95.0%)	1921.8

Route 170 (Southbound)
Combination of All Stage 2 Samples at Depths of (0.45+0.75+1.5 m)

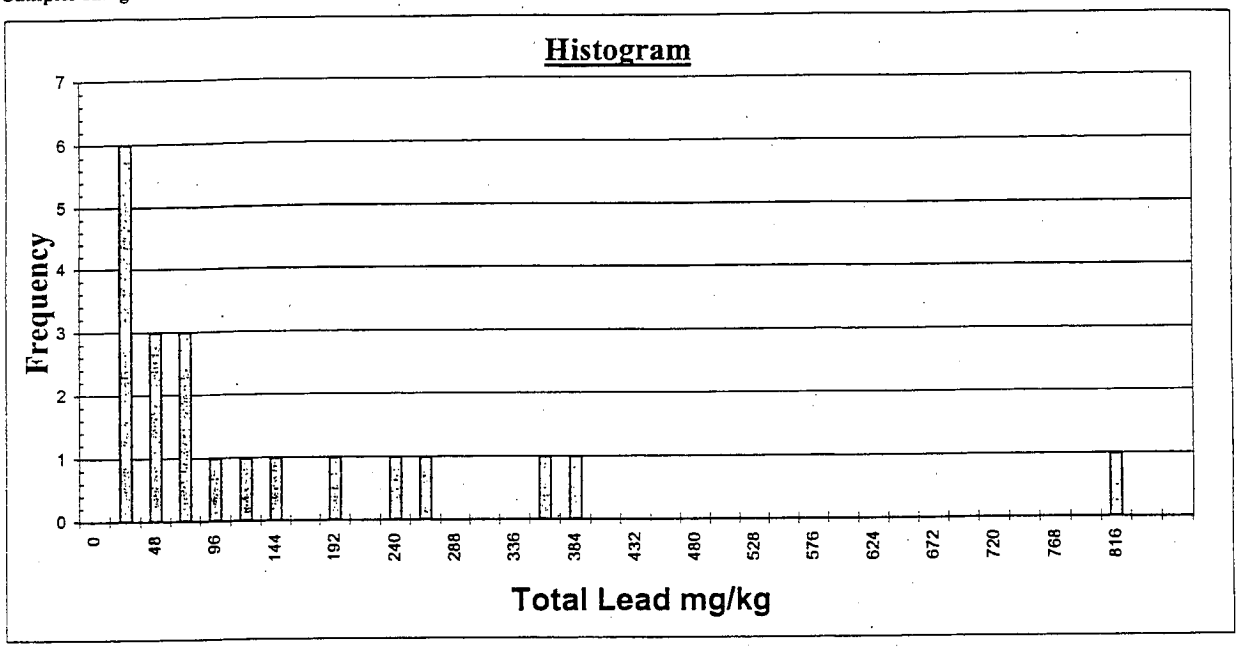
Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 2 (Southbound)
Site Description: South Victory to North Laurel Canyon Blvd.
Layer Depth (Meter) 0.45+0.75+1.5
Samples Range: 577-173 to 577-179

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-173-.45	81.9	0.1012	5.1500	0.100
577-174-.45	224.0	0.2798	17.0000	0.100
577-175-.45	141.0	0.1747	9.0500	0.100
577-176-.45	47.5	0.0586		
577-177-.45	16.8	0.0207		
577-178-.45	358.0	0.4572	17.9000	0.100
577-179-.45	5.0	0.0062		
577-173-.75	56.4	0.0696	2.2000	
577-174-.75	110.0	0.1361	11.8000	0.100
577-175-.75	24.4	0.0301		
577-176-.75	59.2	0.0731	4.0000	
577-177-.75	5.0	0.0062		
577-178-.75	250.0	0.3134	25.4000	0.100
577-179-.75	14.3	0.0176		
577-173-1.5	61.2	0.0755	7.8000	0.100
577-174-1.5	26.2	0.0323		
577-175-1.5	811.0	1.5708	43.8000	0.100
577-176-1.5	366.0	0.4682	22.6000	0.100
577-177-1.5	5.0	0.0062		
577-178-1.5	169.0	0.2099	10.3000	0.100
577-179-1.5	5.0	0.0062		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 2 (Southbound)
Site Description:	South Victory to North Laurel Canyon Blvd.
Layer Depth (Meter)	0.45+0.75+1.5
Samples Range:	577-173 to 577-179



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 2 (Southbound)
Site Description: South Victory to North Laurel Canyon Blvd.
Layer Depth (Meter) 0.45+0.75+1.5
Samples Range: 577-173 to 577-179

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * Sx)

T0.10= *1.325* T0.05= *1.725*

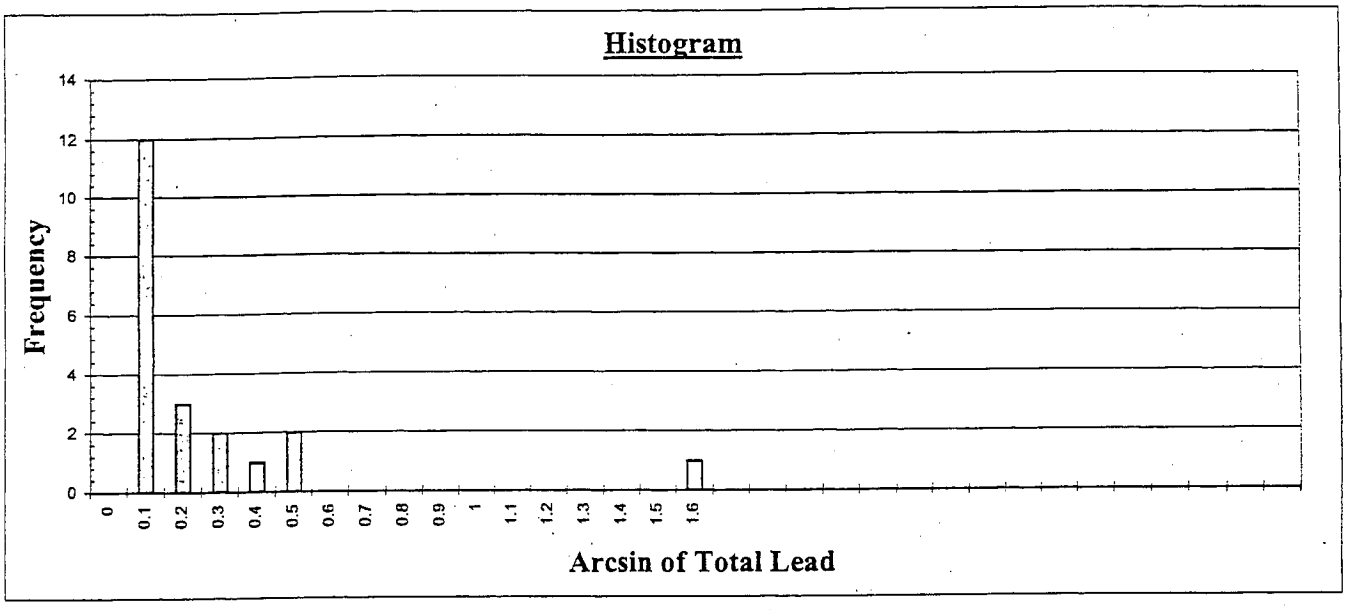
Analysis Term	Value
Mean	135.1
Standard Error	41.7
Median	59.2
Standard Deviation	191.2
Variance of Sample	36554.2
Range	806.0
Minimum	5.0
Maximum	811.0
Sum	2836.9
Count	21
Confidence Level (90.0%)	190.4

Analysis Term	Value
Mean	135.1
Standard Error	41.7
Median	59.2
Standard Deviation	191.2
Variance of Sample	36554.2
Range	806.0
Minimum	5.0
Maximum	811.0
Sum	2836.9
Count	21
Confidence Level (95.0%)	207.0

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 2 (Southbound)**
Site Description:	**South Victory to North Laurel Canyon Blvd.**
Layer Depth (Meter)	**0.45+0.75+1.5**
Samples Range:	**577-173 to 577-179**



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 2 (Southbound)**
Site Description:	**South Victory to North Laurel Canyon Blvd.**
Layer Depth (Meter)	**0.45+0.75+1.5**
Samples Range:	**577-173 to 577-179**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3253407 **T0.05=** 1.725

Analysis Term	Value
Mean	157.8
Standard Error	0.0755
Mean (Arcsin Values)	0.1959
Standard Deviation	0.3458
Count	21
Confidence Level (90.0%)	236.5

Analysis Term	Value
Mean	157.8
Standard Error	0.0755
Mean (Arcsin Values)	0.1959
Standard Deviation	0.3458
Count	21
Confidence Level (95.0%)	259.8

Route 170 (Southbound)
Combination of All Stage 4 Samples

Statistic Analysis Datasheet

AESCO Site No.: 20020155-3 (11, 13 & 14) ADL Study @ State Route 405
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 4 (Southbound)
Site Description: South of Burbank Blvd. to Route 134
Layer Depth (Meter) 0.15+0.45+0.75+1.5
Samples Range: 577-101 to 577-111 and 577-122 to 577-129

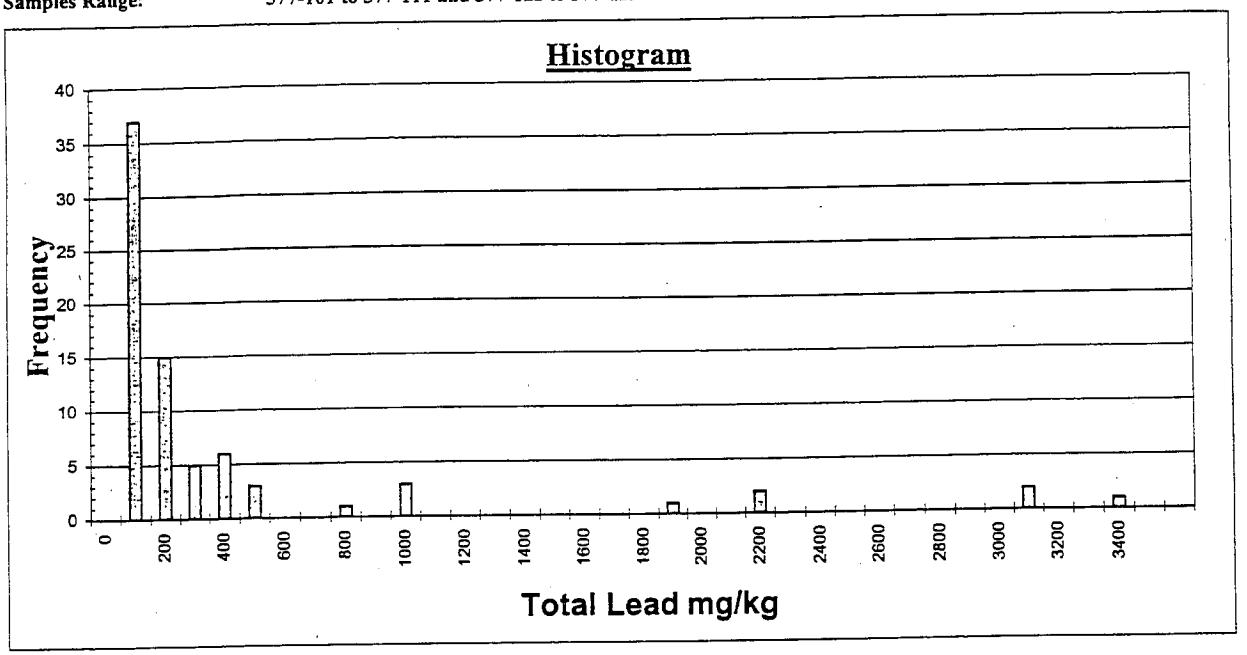
Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-101-.15	226.0	0.0667	14.9000	0.100
577-101-.45	166.0	0.0490	12.1000	0.100
577-101-.75	17.6	0.0052		
577-101-1.5	16.4	0.0048		
577-102-.15	86.4	0.0255	4.0500	
577-102-.45	67.6	0.0199	2.0500	
577-102-.75	18.3	0.0054		
577-102-1.5	11.6	0.0034		
577-103-.15	124.0	0.0366	6.3500	0.100
577-103-.45	25.0	0.0074		
577-103-.75	33.3	0.0098		
577-103-1.5	10.4	0.0031		
577-104-.15	46.6	0.0137		
577-104-.45	5.0	0.0015		
577-104-.75	50.0	0.0147	3.4000	
577-104-1.5	5.0	0.0015		
577-105-.15	321.0	0.0948	22.4000	0.100
577-105-.45	26.7	0.0079		
577-105-.75	11.8	0.0035		
577-105-1.5	11.3	0.0033		
577-106-.15	136.0	0.0401	6.4500	0.210
577-106-.45	168.0	0.0496	8.5500	0.100
577-106-.75	331.0	0.0978	21.8000	0.100
577-106-1.5	5.0	0.0015		
577-107-.15	716.0	0.2128	51.0000	0.210
577-107-.45	35.6	0.0105		
577-107-.75	21.3	0.0063		
577-107-1.5	21.6	0.0064		
577-108-.15	2120.0	0.6756		
577-108-.45	96.6	0.0285	6.7500	0.100
577-108-.75	11.6	0.0034		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-108-1.5	218.0	0.0644	15.0000	0.100
577-109-.15	315.0	0.0931	18.8000	0.100
577-109-.45	292.0	0.0862	12.7000	0.100
577-109-.75	372.0	0.1100	19.7000	0.100
577-109-1.5	72.1	0.0213	3.6500	
577-110-.15	971.0	0.2905	39.6000	0.100
577-110-.45	921.0	0.2751	47.4000	0.100
577-110- 75	2130.0	0.6794	40.9000	0.100
577-110-1.5	71.5	0.0211	3.9500	
577-111-.15	355.0	0.1049	19.1000	0.100
577-111-.45	117.0	0.0345	3.2000	
577-111-.75	5.0	0.0015		
577-111-1.5	13.4	0.0040		
577-122-.15	146.0	0.0431	7.7500	0.400
577-122- 45	179.0	0.0528	15.6000	0.530
577-122-.75	74.0	0.0218	3.5000	
577-122-1.5	5.0	0.0015		
577-123- 15	153.0	0.0451	6.7000	0.270
577-123-.45	53.0	0.0156	1.3500	
577-123- 75	79.6	0.0235	2.8000	
577-123-1.5	113.0	0.0333	5.6500	0.400
577-124-.15	1900.0	0.5950		
577-124-.45	3080.0	1.1398		
577-124-.75	3070.0	1.1328		
577-124-1.5	3390.0	1.5708		
577-125-.15	142.0	0.0419	7.0000	0.260
577-125-.45	490.0	0.1451	24.7000	1.270
577-125-.75	13.4	0.0040		
577-125-1.5	96.1	0.0284	4.6000	
577-126-.15	314.0	0.0928	16.3000	0.100
577-126-.45	139.0	0.0410	4.6000	
577-126-.75	195.0	0.0576	10.9000	0.100
577-126-1.5	107.0	0.0316	5.7000	0.100
577-127-.15	49.5	0.0146		
577-127-.45	226.0	0.0667	12.1000	0.100
577-127-.75	475.0	0.1406	34.7000	0.360
577-127-1.5	441.0	0.1305	24.3000	0.230
577-128-.15	911.0	0.2721	40.5000	1.120
577-128-.45	39.1	0.0115		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-128-.75	259.0	0.0765	14.0000	0.290
577-128-1.5	159.0	0.0469	7.3500	0.100
577-129-.15	147.0	0.0434	7.9000	0.100
577-129-.45	20.0	0.0059		
577-129-.75	17.5	0.0052		
577-129-1.5	35.0	0.0103		

Histogram for Total Lead

AESCO Site No.:	20020155-3 (11, 13 & 14) ADL Study @ State Route 405
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 4 (Southbound)
Site Description:	South of Burbank Blvd. to Route 134
Layer Depth (Meter)	0.15+0.45+0.75+1.5
Samples Range:	577-101 to 577-111 and 577-122 to 577-129



UCL 90% & UCL 95% for Total Lead

AESCO Site No.:	**20020155-3 (11, 13 & 14) ADL Study @ State Route 405**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.293* T0.05= *1.665*

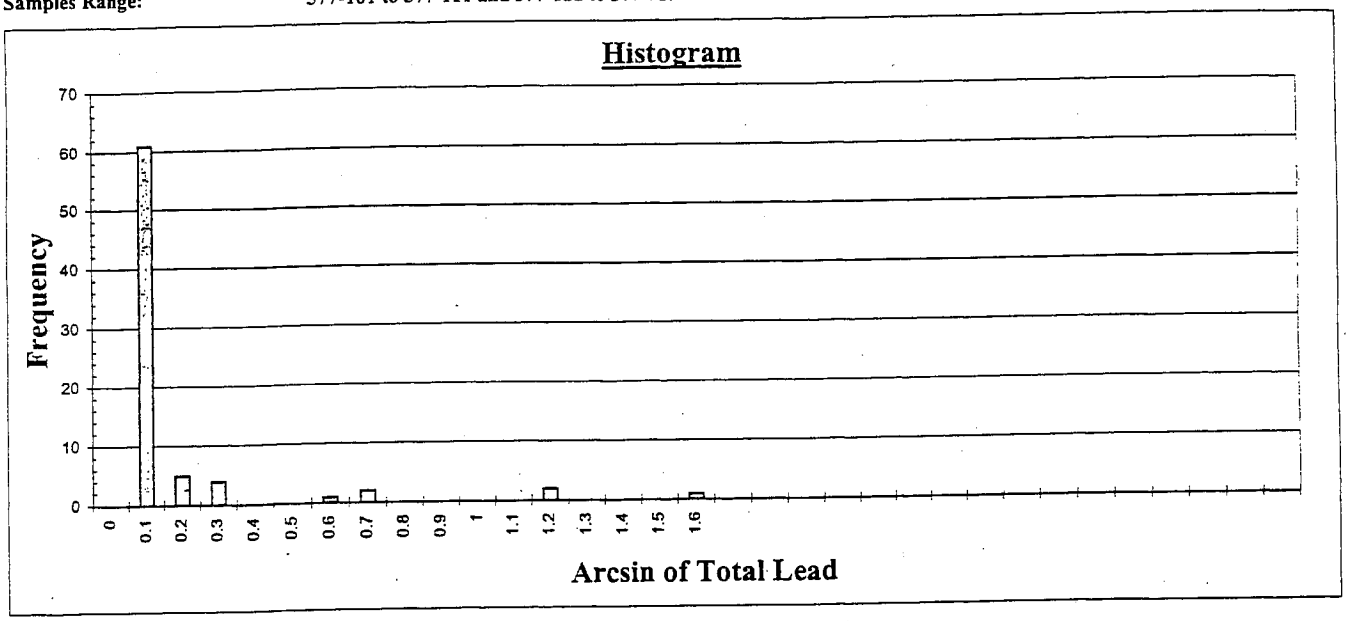
Analysis Term	Value
Mean	359.4
Standard Error	82.1
Median	110.0
Standard Deviation	715.5
Variance of Sample	512006.6
Range	3385.0
Minimum	5.0
Maximum	3390.0
Sum	27313.9
Count	76
Confidence Level (90.0%)	465.5

Analysis Term	Value
Mean	359.4
Standard Error	82.1
Median	110.0
Standard Deviation	715.5
Variance of Sample	512006.6
Range	3385.0
Minimum	5.0
Maximum	3390.0
Sum	27313.9
Count	76
Confidence Level (95.0%)	496.1

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-3 (11, 13 & 14) ADL Study @ State Route 405
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 4 (Southbound)
Site Description:	South of Burbank Blvd. to Route 134
Layer Depth (Meter)	0.15+0.45+0.75+1.5
Samples Range:	577-101 to 577-111 and 577-122 to 577-129



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-3 (11, 13 & 14) ADL Study @ State Route 405**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**0.15+0.45+0.75+1.5**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.2929422 **T0.05=** 1.665

Analysis Term	Value
Mean	411.0
Standard Error	0.0315
Mean (Arcsin Values)	0.1215
Standard Deviation	0.2746
Count	76
Confidence Level (90.0%)	547.7

Analysis Term	Value
Mean	411.0
Standard Error	0.0315
Mean (Arcsin Values)	0.1215
Standard Deviation	0.2746
Count	76
Confidence Level (95.0%)	586.9

Route 170 (Southbound)
Combination of All Stage 4 Samples at a Depth of (0.15 m)

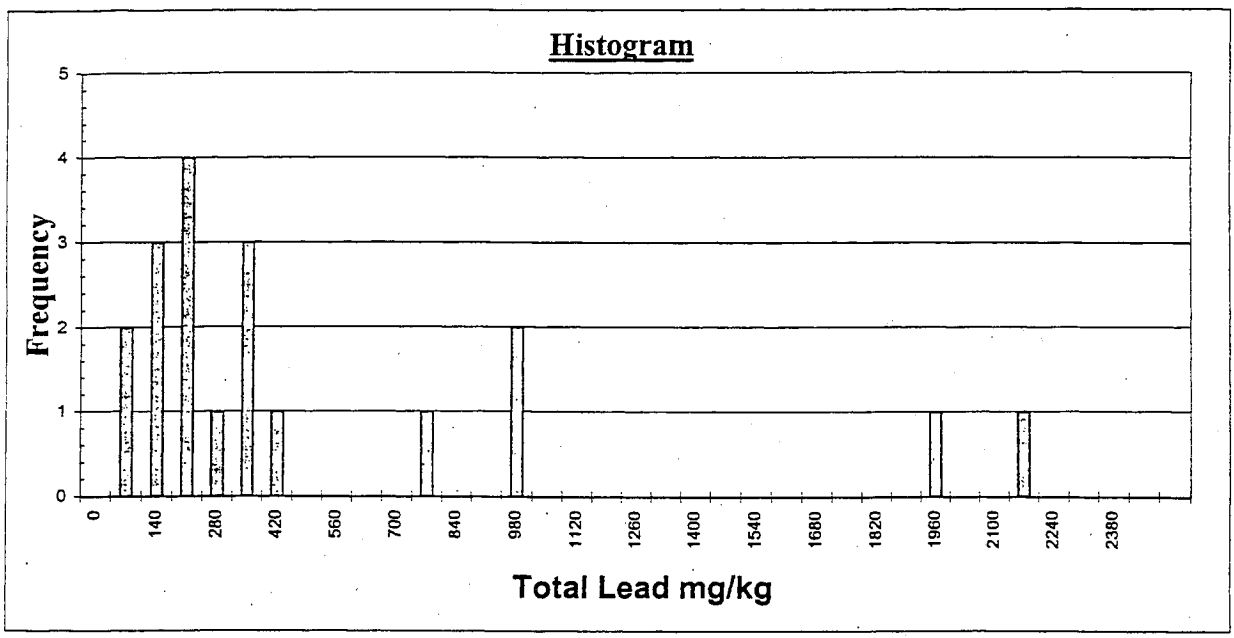
Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 4 (Southbound)
Site Description: South of Burbank Blvd. to Route 134
Layer Depth (Meter) 0.15
Samples Range: 577-101 to 577-111 and 577-122 to 577-129

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-101-.15	226.0	0.1068	14.9000	0.100
577-102- 15	86.4	0.0408	4.0500	
577-103- 15	124.0	0.0585	6.3500	0.100
577-104-.15	46.6	0.0220		
577-105-.15	321.0	0.1520	22.4000	0.100
577-106- 15	136.0	0.0642	6.4500	0.210
577-107-.15	716.0	0.3445	51.0000	0.210
577-108-.15	2120.0	1.5708		
577-109- 15	315.0	0.1491	18.8000	0.100
577-110- 15	971.0	0.4758	39.6000	0.100
577-111-.15	355.0	0.1682	19.1000	0.100
577-122- 15	146.0	0.0689	7.7500	0.400
577-123-.15	153.0	0.0722	6.7000	0.270
577-124-.15	1900.0	1.1112		
577-125-.15	142.0	0.0670	7.0000	0.260
577-126-.15	314.0	0.1487	16.3000	0.100
577-127-.15	49.5	0.0234		
577-128- 15	911.0	0.4442	40.5000	1.120
577-129-.15	147.0	0.0694	7.9000	0.100

Histogram for Total Lead

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**0.15**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 4 (Southbound)
Site Description: South of Burbank Blvd. to Route 134
Layer Depth (Meter) 0.15
Samples Range: 577-101 to 577-111 and 577-122 to 577-129

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.330* T0.05= *1.734*

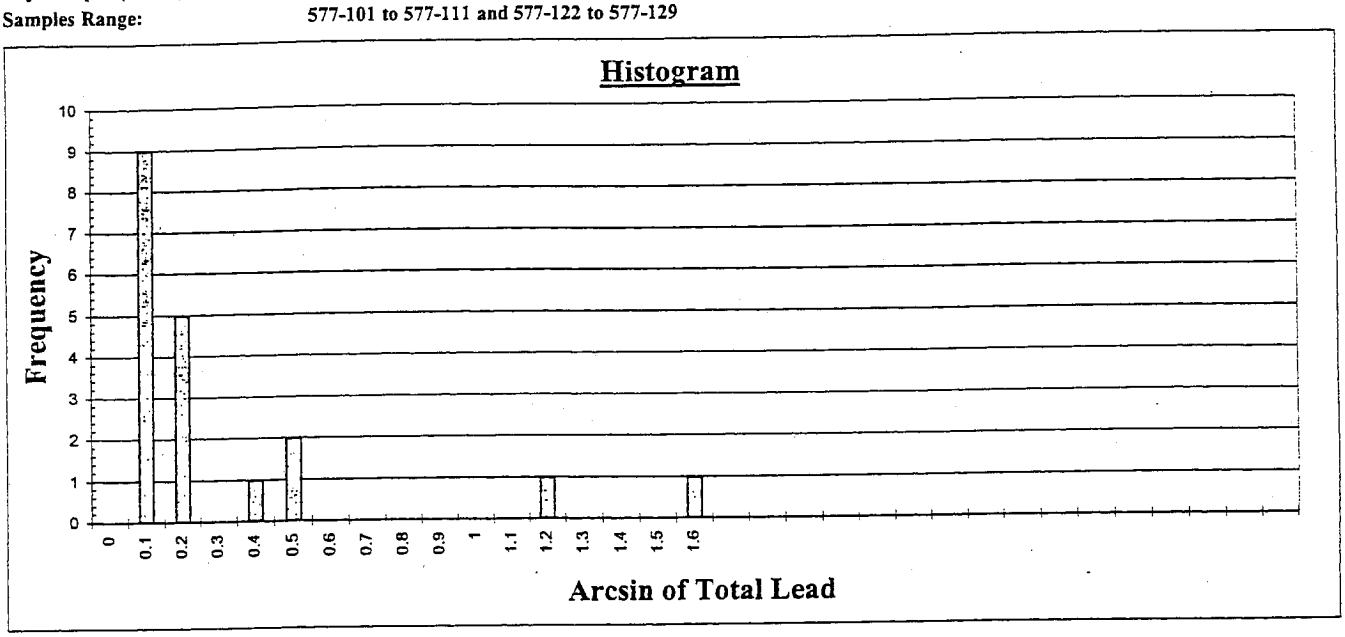
Analysis Term	Value
Mean	483.1
Standard Error	138.6
Median	226.0
Standard Deviation	603.9
Variance of Sample	364740.6
Range	2073.4
Minimum	46.6
Maximum	2120.0
Sum	9179.5
Count	19
Confidence Level (90.0%)	667.5

Analysis Term	Value
Mean	483.1
Standard Error	138.6
Median	226.0
Standard Deviation	603.9
Variance of Sample	364740.6
Range	2073.4
Minimum	46.6
Maximum	2120.0
Sum	9179.5
Count	19
Confidence Level (95.0%)	723.4

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 4 (Southbound)
Site Description:	South of Burbank Blvd. to Route 134
Layer Depth (Meter)	0.15
Samples Range:	577-101 to 577-111 and 577-122 to 577-129



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**0.15**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3303907 **T0.05=** 1.734

Analysis Term	Value
Mean	568.4
Standard Error	0.0934
Mean (Arcsin Values)	0.2715
Standard Deviation	0.4070
Count	19
Confidence Level (90.0%)	817.1

Analysis Term	Value
Mean	568.4
Standard Error	0.0934
Mean (Arcsin Values)	0.2715
Standard Deviation	0.4070
Count	19
Confidence Level (95.0%)	890.2

Route 170 (Southbound)
Combination of All Stage 4 Samples at Depths of (0.45+0.75+1.5 m)

Statistic Analysis Datasheet

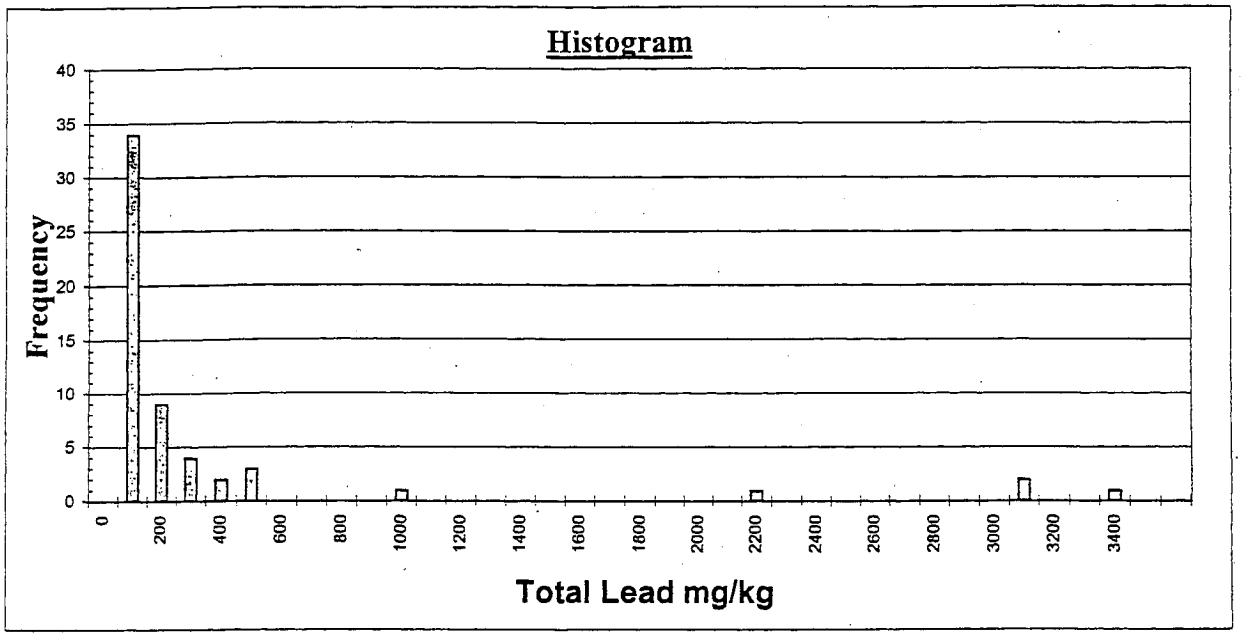
AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 4 (Southbound)
Site Description: South of Burbank Blvd. to Route 134
Layer Depth (Meter) 0.45+0.75+1.5
Samples Range: 577-101 to 577-111 and 577-122 to 577-129

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-101-.45	166.0	0.0490	12.1000	0.100
577-102-.45	67.6	0.0199	2.0500	
577-103-.45	25.0	0.0074		
577-104-.45	5.0	0.0015		
577-105-.45	26.7	0.0079		
577-106-.45	168.0	0.0496	8.5500	0.100
577-107-.45	35.6	0.0105		
577-108-.45	96.6	0.0285	6.7500	0.100
577-109-.45	292.0	0.0862	12.7000	0.100
577-110-.45	921.0	0.2751	47.4000	0.100
577-111-.45	117.0	0.0345	3.2000	
577-122-.45	179.0	0.0528	15.6000	0.530
577-123-.45	53.0	0.0156	1.3500	
577-124-.45	3080.0	1.1398		
577-125-.45	490.0	0.1451	24.7000	1.270
577-126-.45	139.0	0.0410	4.6000	
577-127-.45	226.0	0.0667	12.1000	0.100
577-128-.45	39.1	0.0115		
577-129-.45	20.0	0.0059		
577-101-.75	17.6	0.0052		
577-102-.75	18.3	0.0054		
577-103-.75	33.3	0.0098		
577-104-.75	50.0	0.0147	3.4000	
577-105-.75	11.8	0.0035		
577-106-.75	331.0	0.0978	21.8000	0.100
577-107-.75	21.3	0.0063		
577-108-.75	11.6	0.0034		
577-109-.75	372.0	0.1100	19.7000	0.100
577-110-.75	2130.0	0.6794	40.9000	0.100
577-111-.75	5.0	0.0015		
577-122-.75	74.0	0.0218	3.5000	

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-123-.75	79.6	0.0235	2.8000	
577-124-.75	3070.0	1.1328		
577-125-.75	13.4	0.0040		
577-126-.75	195.0	0.0576	10.9000	0.100
577-127-.75	475.0	0.1406	34.7000	0.360
577-128-.75	259.0	0.0765	14.0000	0.290
577-129-.75	17.5	0.0052		
577-101-1.5	16.4	0.0048		
577-102-1.5	11.6	0.0034		
577-103-1.5	10.4	0.0031		
577-104-1.5	5.0	0.0015		
577-105-1.5	11.3	0.0033		
577-106-1.5	5.0	0.0015		
577-107-1.5	21.6	0.0064		
577-108-1.5	218.0	0.0644	15.0000	0.100
577-109-1.5	72.1	0.0213	3.6500	
577-110-1.5	71.5	0.0211	3.9500	
577-111-1.5	13.4	0.0040		
577-122-1.5	5.0	0.0015		
577-123-1.5	113.0	0.0333	5.6500	0.400
577-124-1.5	3390.0	1.5708		
577-125-1.5	96.1	0.0284	4.6000	
577-126-1.5	107.0	0.0316	5.7000	0.100
577-127-1.5	441.0	0.1305	24.3000	0.230
577-128-1.5	159.0	0.0469	7.3500	0.100
577-129-1.5	35.0	0.0103		

Histogram for Total Lead

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**0.45+0.75+1.5**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 4 (Southbound)
Site Description: South of Burbank Blvd. to Route 134
Layer Depth (Meter) 0.45+0.75+1.5
Samples Range: 577-101 to 577-111 and 577-122 to 577-129

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= 1.297 T0.05= 1.673

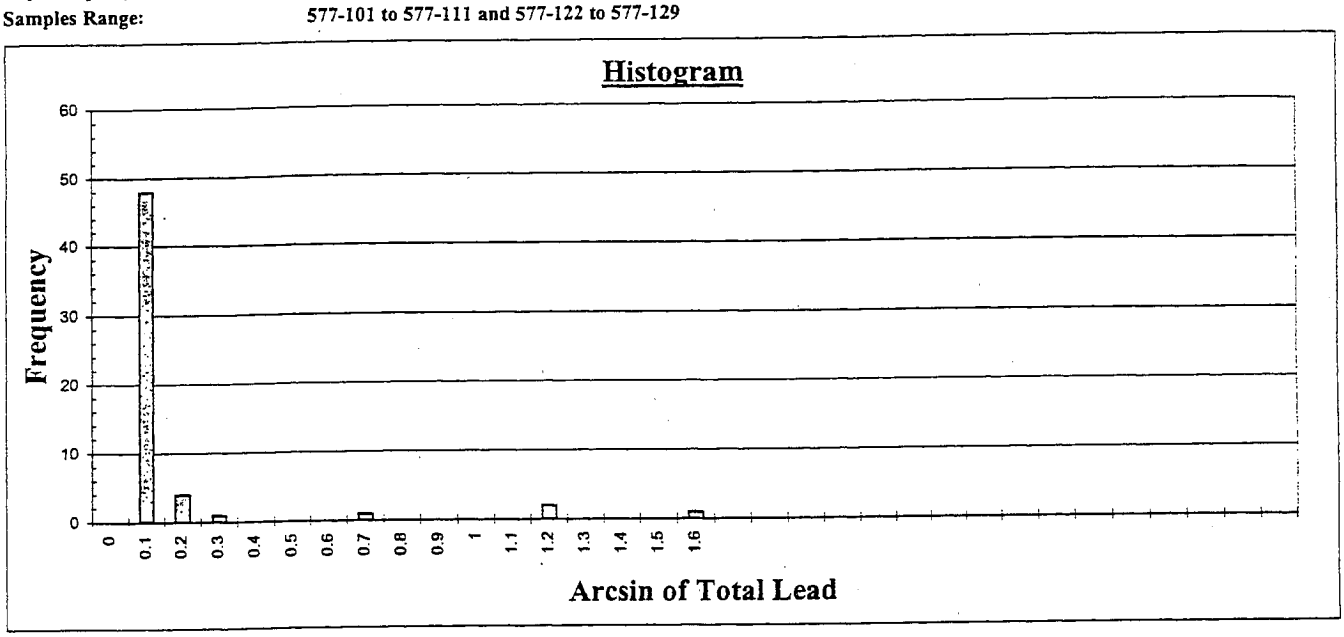
Analysis Term	Value
Mean	318.1
Standard Error	99.3
Median	71.5
Standard Deviation	749.4
Variance of Sample	561558.7
Range	3385.0
Minimum	5.0
Maximum	3390.0
Sum	18134.4
Count	57
Confidence Level (90.0%)	446.9

Analysis Term	Value
Mean	318.1
Standard Error	99.3
Median	71.5
Standard Deviation	749.4
Variance of Sample	561558.7
Range	3385.0
Minimum	5.0
Maximum	3390.0
Sum	18134.4
Count	57
Confidence Level (95.0%)	484.2

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**0.45+0.75+1.5**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**0.45+0.75+1.5**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= **1.296853** **T0.05=** **1.673**

Analysis Term	Value
Mean	381.9
Standard Error	0.0395
Mean (Arcsin Values)	0.1129
Standard Deviation	0.2984
Count	57
Confidence Level (90.0%)	554.0

Analysis Term	Value
Mean	381.9
Standard Error	0.0395
Mean (Arcsin Values)	0.1129
Standard Deviation	0.2984
Count	57
Confidence Level (95.0%)	603.6

Route 170 (Southbound)
Combination of All Stage 4 Samples at Depths of (0.15+0.45 m)

Statistic Analysis Datasheet

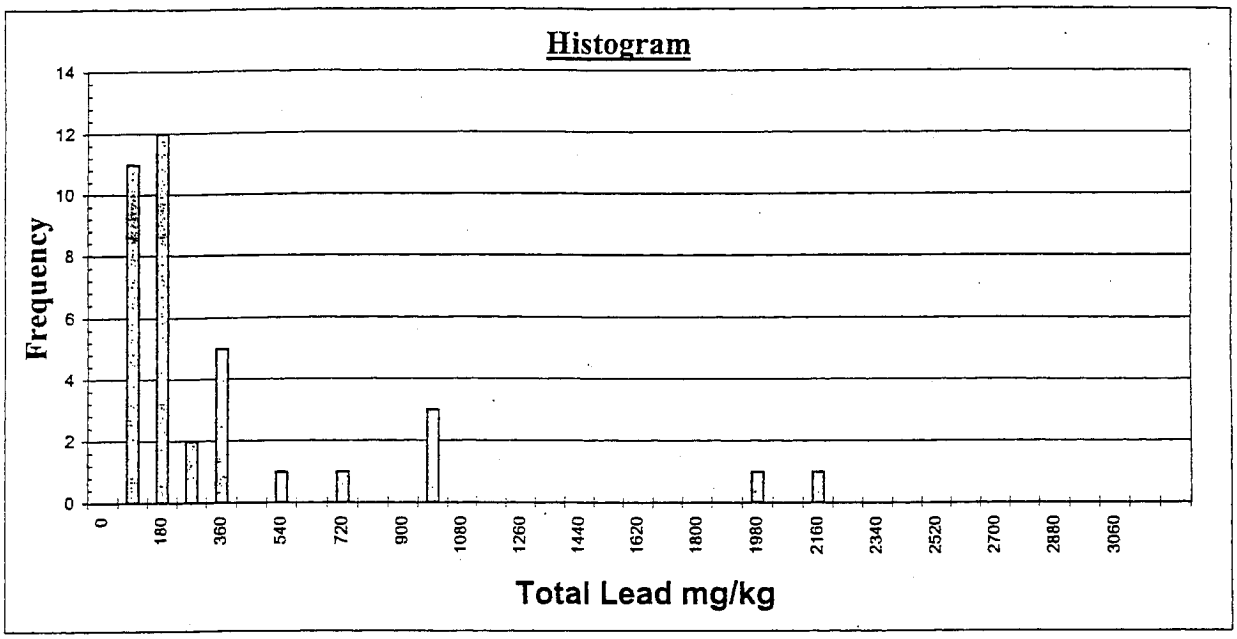
AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 4 (Southbound)
Site Description: South of Burbank Blvd. to Route 134
Layer Depth (Meter) 0.15+0.45
Samples Range: 577-101 to 577-111 and 577-122 to 577-129

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-101-.15	226.0	0.0734	14.9000	0.100
577-102-.15	86.4	0.0281	4.0500	
577-103-.15	124.0	0.0403	6.3500	0.100
577-104-.15	46.6	0.0151		
577-105-.15	321.0	0.1044	22.4000	0.100
577-106-.15	136.0	0.0442	6.4500	0.210
577-107-.15	716.0	0.2346	51.0000	0.210
577-108-.15	2120.0	0.7592		
577-109-.15	315.0	0.1025	18.8000	0.100
577-110-.15	971.0	0.3207	39.6000	0.100
577-111-.15	355.0	0.1155	19.1000	0.100
577-122-.15	146.0	0.0474	7.7500	0.400
577-123-.15	153.0	0.0497	6.7000	0.270
577-124-.15	1900.0	0.6648		
577-125-.15	142.0	0.0461	7.0000	0.260
577-126-.15	314.0	0.1021	16.3000	0.100
577-127-.15	49.5	0.0161		
577-128-.15	911.0	0.3003	40.5000	1.120
577-129-.15	147.0	0.0477	7.9000	0.100
577-101-.45	166.0	0.0539	12.1000	0.100
577-102-.45	67.6	0.0219	2.0500	
577-103-.45	25.0	0.0081		
577-104-.45	5.0	0.0016		
577-105-.45	26.7	0.0087		
577-106-.45	168.0	0.0546	8.5500	0.100
577-107-.45	35.6	0.0116		
577-108-.45	96.6	0.0314	6.7500	0.100
577-109-.45	292.0	0.0949	12.7000	0.100
577-110-.45	921.0	0.3037	47.4000	0.100
577-111-.45	117.0	0.0380	3.2000	
577-122-.45	179.0	0.0581	15.6000	0.530

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-123-45	53.0	0.0172	1.3500	
577-124-45	3080.0	1.5708		
577-125-45	490.0	0.1598	24.7000	1.270
577-126-45	139.0	0.0451	4.6000	
577-127-45	226.0	0.0734	12.1000	0.100
577-128-45	39.1	0.0127		
577-129-45	20.0	0.0065		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 4 (Southbound)
Site Description:	South of Burbank Blvd. to Route 134
Layer Depth (Meter)	0.15+0.45
Samples Range:	577-101 to 577-111 and 577-122 to 577-129



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 4 (Southbound)
Site Description: South of Burbank Blvd. to Route 134
Layer Depth (Meter) 0.15+0.45
Samples Range: 577-101 to 577-111 and 577-122 to 577-129

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)
T0.10= *1.305* T0.05= *1.687*

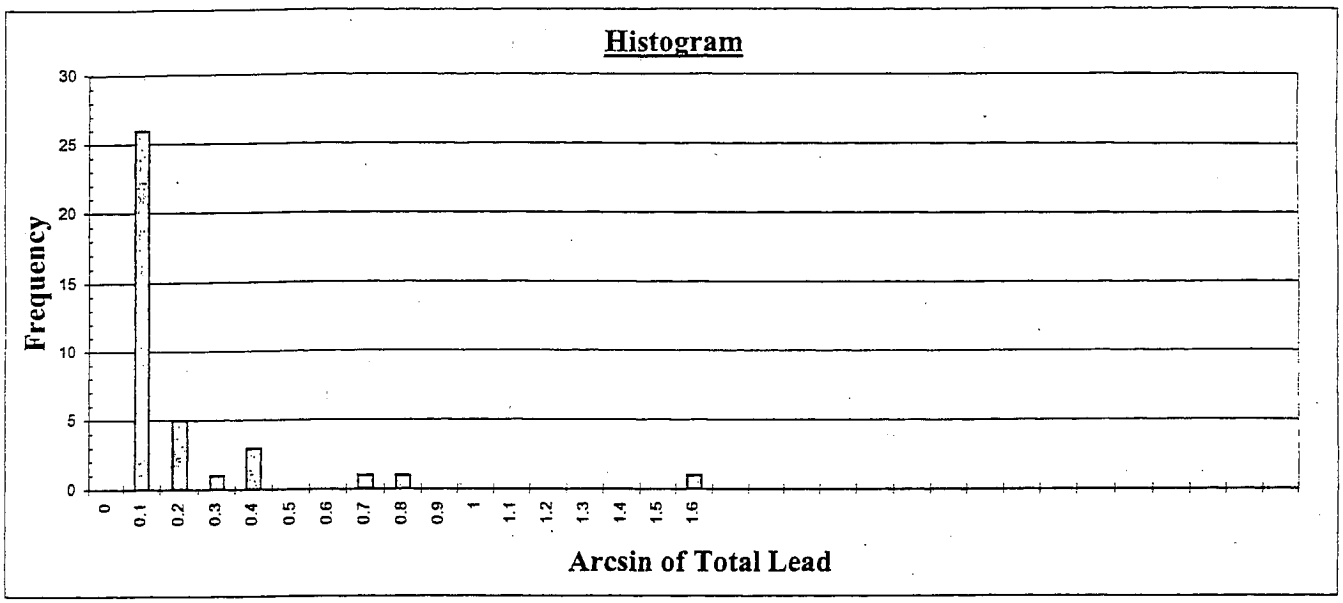
Analysis Term	Value
Mean	403.3
Standard Error	105.6
Median	150.0
Standard Deviation	650.8
Variance of Sample	423570.8
Range	3075.0
Minimum	5.0
Maximum	3080.0
Sum	15326.1
Count	38
Confidence Level (90.0%)	541.1

Analysis Term	Value
Mean	403.3
Standard Error	105.6
Median	150.0
Standard Deviation	650.8
Variance of Sample	423570.8
Range	3075.0
Minimum	5.0
Maximum	3080.0
Sum	15326.1
Count	38
Confidence Level (95.0%)	581.4

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 4 (Southbound)
Site Description:	South of Burbank Blvd. to Route 134
Layer Depth (Meter)	0.15+0.45
Samples Range:	577-101 to 577-111 and 577-122 to 577-129



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**0.15+0.45**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3048543 **T0.05=** 1.687

Analysis Term	Value
Mean	459.0
Standard Error	0.0469
Mean (Arcsin Values)	0.1496
Standard Deviation	0.2892
Count	38
Confidence Level (90.0%)	644.5

Analysis Term	Value
Mean	459.0
Standard Error	0.0469
Mean (Arcsin Values)	0.1496
Standard Deviation	0.2892
Count	38
Confidence Level (95.0%)	698.4

Route 170 (Southbound)
Combination of All Stage 4 Samples at Depths of (0.75+1.5 m)

Statistic Analysis Datasheet

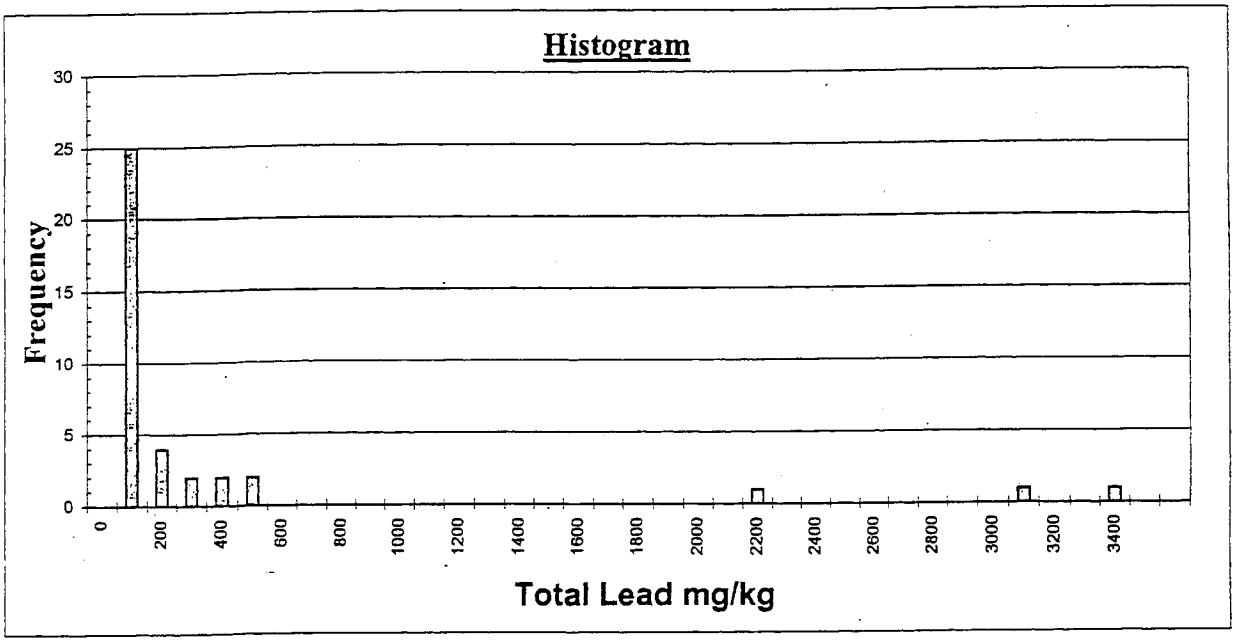
AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 4 (Southbound)
Site Description: South of Burbank Blvd. to Route 134
Layer Depth (Meter) 0.75+1.5
Samples Range: 577-101 to 577-111 and 577-122 to 577-129

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-101-.75	17.6	0.0052		
577-102-.75	18.3	0.0054		
577-103-.75	33.3	0.0098		
577-104-.75	50.0	0.0147	3.4000	
577-105-.75	11.8	0.0035		
577-106-.75	331.0	0.0978	21.8000	0.100
577-107-.75	21.3	0.0063		
577-108-.75	11.6	0.0034		
577-109-.75	372.0	0.1100	19.7000	0.100
577-110-.75	2130.0	0.6794	40.9000	0.100
577-111-.75	5.0	0.0015		
577-122-.75	74.0	0.0218	3.5000	
577-123-.75	79.6	0.0235	2.8000	
577-124-.75	3070.0	1.1328		
577-125-.75	13.4	0.0040		
577-126-.75	195.0	0.0576	10.9000	0.100
577-127-.75	475.0	0.1406	34.7000	0.360
577-128-.75	259.0	0.0765	14.0000	0.290
577-129-.75	17.5	0.0052		
577-101-1.5	16.4	0.0048		
577-102-1.5	11.6	0.0034		
577-103-1.5	10.4	0.0031		
577-104-1.5	5.0	0.0015		
577-105-1.5	11.3	0.0033		
577-106-1.5	5.0	0.0015		
577-107-1.5	21.6	0.0064		
577-108-1.5	218.0	0.0644	15.0000	0.100
577-109-1.5	72.1	0.0213	3.6500	
577-110-1.5	71.5	0.0211	3.9500	
577-111-1.5	13.4	0.0040		
577-122-1.5	5.0	0.0015		

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-123-1.5	113.0	0.0333	5.6500	0.400
577-124-1.5	3390.0	1.5708		
577-125-1.5	96.1	0.0284	4.6000	
577-126-1.5	107.0	0.0316	5.7000	0.100
577-127-1.5	441.0	0.1305	24.3000	0.230
577-128-1.5	159.0	0.0469	7.3500	0.100
577-129-1.5	35.0	0.0103		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 4 (Southbound)
Site Description:	South of Burbank Blvd. to Route 134
Layer Depth (Meter)	0.75+1.5
Samples Range:	577-101 to 577-111 and 577-122 to 577-129



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 4 (Southbound)
Site Description: South of Burbank Blvd. to Route 134
Layer Depth (Meter) 0.75+1.5
Samples Range: 577-101 to 577-111 and 577-122 to 577-129

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.305* T0.05= *1.687*

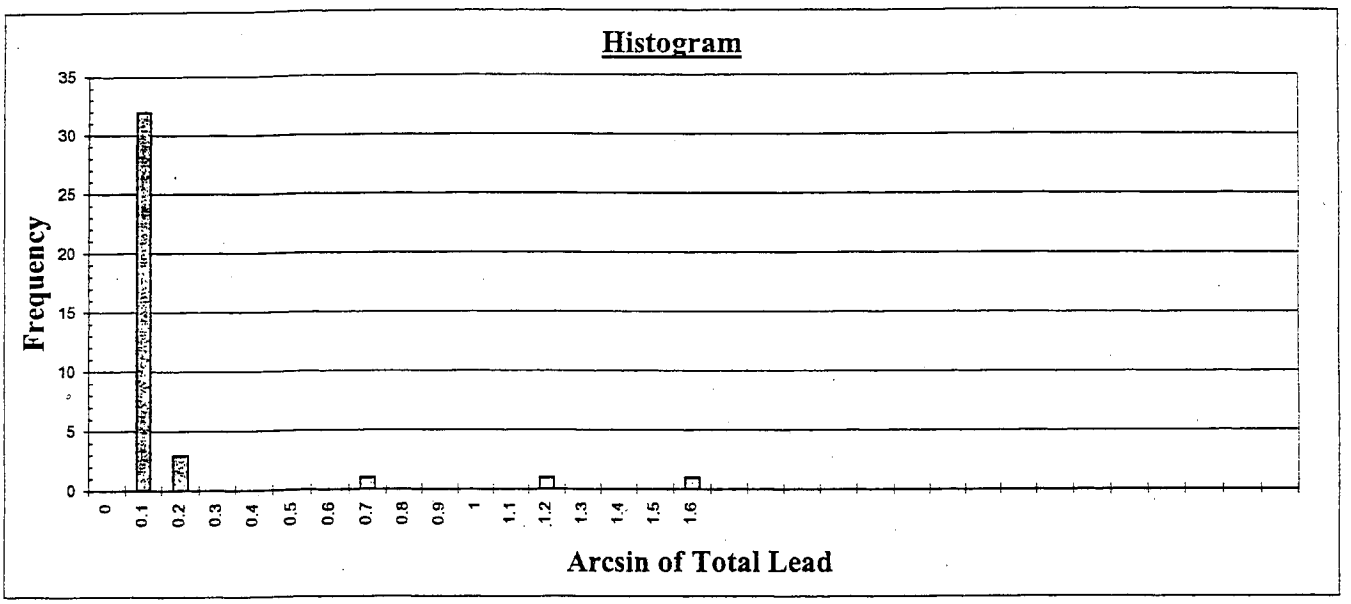
Analysis Term	Value
Mean	315.5
Standard Error	126.7
Median	42.5
Standard Deviation	781.2
Variance of Sample	610317.4
Range	3385.0
Minimum	5.0
Maximum	3390.0
Sum	11987.8
Count	38
Confidence Level (90.0%)	480.8

Analysis Term	Value
Mean	315.5
Standard Error	126.7
Median	42.5
Standard Deviation	781.2
Variance of Sample	610317.4
Range	3385.0
Minimum	5.0
Maximum	3390.0
Sum	11987.8
Count	38
Confidence Level (95.0%)	529.3

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**0.75+1.5**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**0.75+1.5**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3048543 **T0.05=** 1.687

Analysis Term	Value
Mean	390.5
Standard Error	0.0519
Mean (Arcsin Values)	0.1154
Standard Deviation	0.3199
Count	38
Confidence Level (90.0%)	617.4

Analysis Term	Value
Mean	390.5
Standard Error	0.0519
Mean (Arcsin Values)	0.1154
Standard Deviation	0.3199
Count	38
Confidence Level (95.0%)	683.4

Route 170 (Southbound)
Combination of All Stage 4 Samples at Depths of (0.15+0.45+0.75 m)

Statistic Analysis Datasheet

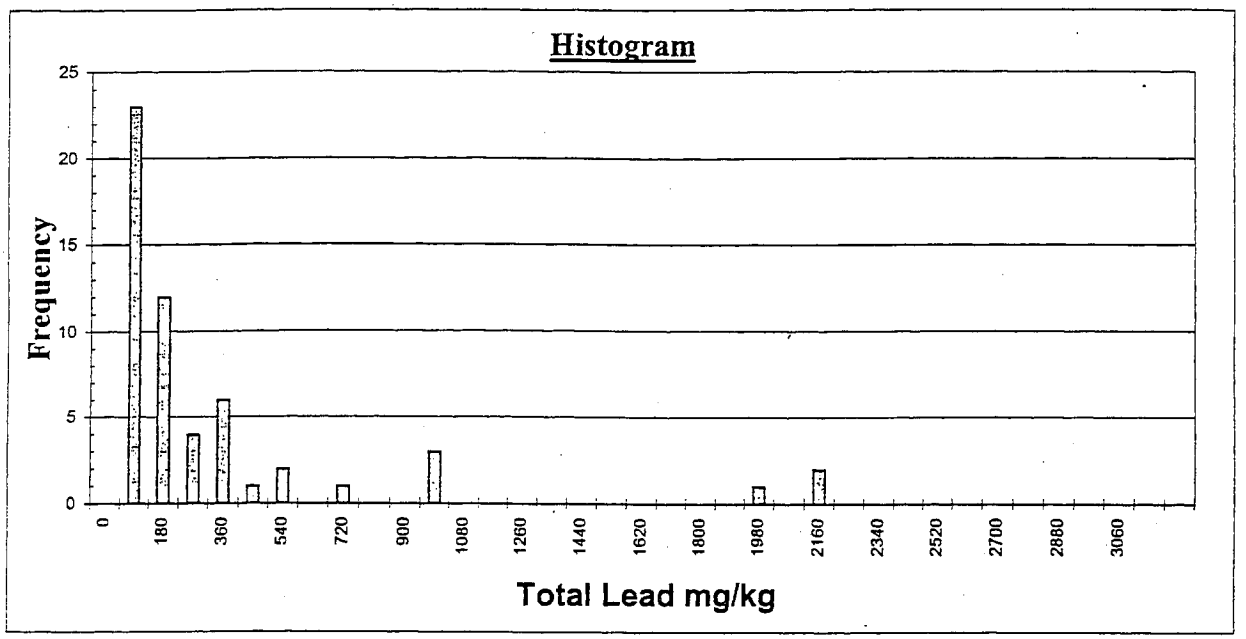
AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 4 (Southbound)
Site Description: South of Burbank Blvd. to Route 134
Layer Depth (Meter) 0.15+0.45+0.75
Samples Range: 577-101 to 577-111 and 577-122 to 577-129

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-101-.15	226.0	0.0734	14.9000	0.100
577-102-.15	86.4	0.0281	4.0500	
577-103-.15	124.0	0.0403	6.3500	0.100
577-104-.15	46.6	0.0151		
577-105-.15	321.0	0.1044	22.4000	0.100
577-106-.15	136.0	0.0442	6.4500	0.210
577-107-.15	716.0	0.2346	51.0000	0.210
577-108-.15	2120.0	0.7592		
577-109-.15	315.0	0.1025	18.8000	0.100
577-110-.15	971.0	0.3207	39.6000	0.100
577-111-.15	355.0	0.1155	19.1000	0.100
577-122-.15	146.0	0.0474	7.7500	0.400
577-123-.15	153.0	0.0497	6.7000	0.270
577-124-.15	1900.0	0.6648		
577-125-.15	142.0	0.0461	7.0000	0.260
577-126-.15	314.0	0.1021	16.3000	0.100
577-127-.15	49.5	0.0161		
577-128-.15	911.0	0.3003	40.5000	1.120
577-129-.15	147.0	0.0477	7.9000	0.100
577-101-.45	166.0	0.0539	12.1000	0.100
577-102-.45	67.6	0.0219	2.0500	
577-103-.45	25.0	0.0081		
577-104-.45	5.0	0.0016		
577-105-.45	26.7	0.0087		
577-106-.45	168.0	0.0546	8.5500	0.100
577-107-.45	35.6	0.0116		
577-108-.45	96.6	0.0314	6.7500	0.100
577-109-.45	292.0	0.0949	12.7000	0.100
577-110-.45	921.0	0.3037	47.4000	0.100
577-111-.45	117.0	0.0380	3.2000	
577-122-.45	179.0	0.0581	15.6000	0.530

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-123-.45	53.0	0.0172	1.3500	
577-124-.45	3080.0	1.5708		
577-125-.45	490.0	0.1598	24.7000	1.270
577-126-.45	139.0	0.0451	4.6000	
577-127-.45	226.0	0.0734	12.1000	0.100
577-128-.45	39.1	0.0127		
577-129-.45	20.0	0.0065		
577-101-.75	17.6	0.0057		
577-102-.75	18.3	0.0059		
577-103-.75	33.3	0.0108		
577-104-.75	50.0	0.0162	3.4000	
577-105-.75	11.8	0.0038		
577-106-.75	331.0	0.1077	21.8000	0.100
577-107-.75	21.3	0.0069		
577-108-.75	11.6	0.0038		
577-109-.75	372.0	0.1211	19.7000	0.100
577-110-.75	2130.0	0.7636	40.9000	0.100
577-111-.75	5.0	0.0016		
577-122-.75	74.0	0.0240	3.5000	
577-123-.75	79.6	0.0258	2.8000	
577-124-.75	3070.0	1.4902		
577-125-.75	13.4	0.0044		
577-126-.75	195.0	0.0634	10.9000	0.100
577-127-.75	475.0	0.1548	34.7000	0.360
577-128-.75	259.0	0.0842	14.0000	0.290
577-129-.75	17.5	0.0057		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 4 (Southbound)
Site Description:	South of Burbank Blvd. to Route 134
Layer Depth (Meter)	0.15+0.45+0.75
Samples Range:	577-101 to 577-111 and 577-122 to 577-129



UCL 90% & UCL 95% for Total Lead

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**0.15+0.45+0.75**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.297* T0.05= *1.673*

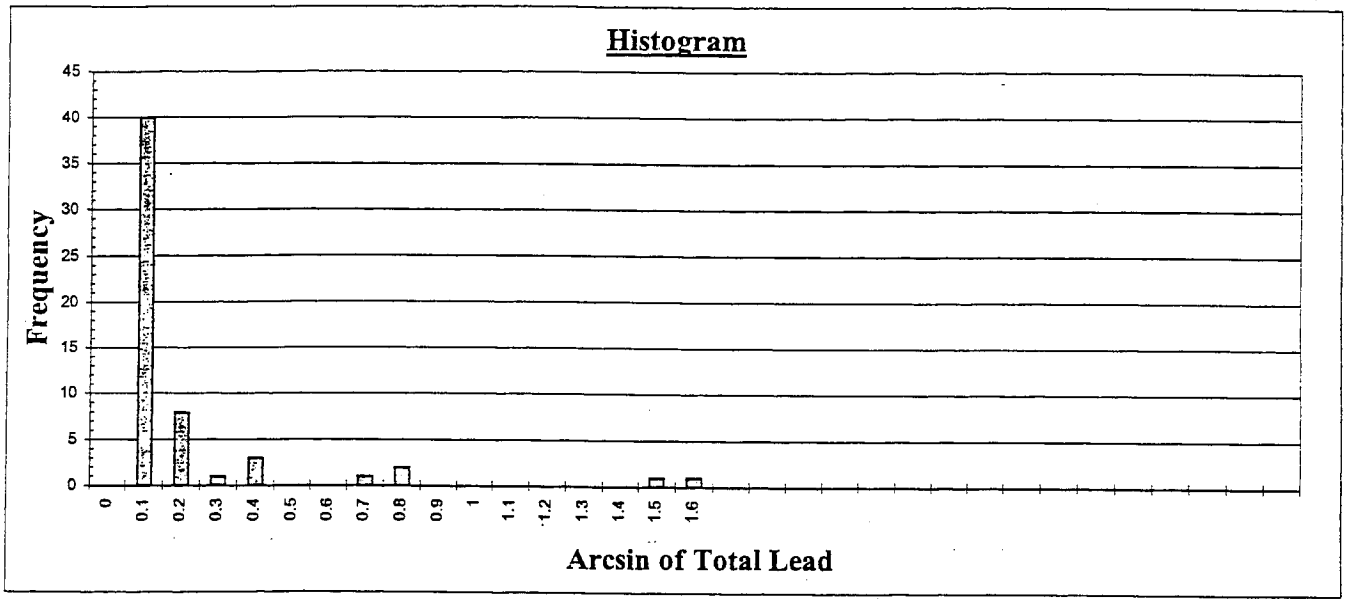
Analysis Term	Value
Mean	394.9
Standard Error	92.9
Median	142.0
Standard Deviation	701.0
Variance of Sample	491438.2
Range	3075.0
Minimum	5.0
Maximum	3080.0
Sum	22511.5
Count	57
Confidence Level (90.0%)	515.4

Analysis Term	Value
Mean	394.9
Standard Error	92.9
Median	142.0
Standard Deviation	701.0
Variance of Sample	491438.2
Range	3075.0
Minimum	5.0
Maximum	3080.0
Sum	22511.5
Count	57
Confidence Level (95.0%)	550.2

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 4 (Southbound)
Site Description:	South of Burbank Blvd. to Route 134
Layer Depth (Meter)	0.15+0.45+0.75
Samples Range:	577-101 to 577-111 and 577-122 to 577-129



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**0.15+0.45+0.75**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= **1.296853** **T0.05=** **1.673**

Analysis Term	Value
Mean	462.1
Standard Error	0.0416
Mean (Arcsin Values)	0.1506
Standard Deviation	0.3140
Count	57
Confidence Level (90.0%)	625.6

Analysis Term	Value
Mean	462.1
Standard Error	0.0416
Mean (Arcsin Values)	0.1506
Standard Deviation	0.3140
Count	57
Confidence Level (95.0%)	672.6

Route 170 (Southbound)
Combination of All Stage 4 Samples at a Depth of (1.5 m)

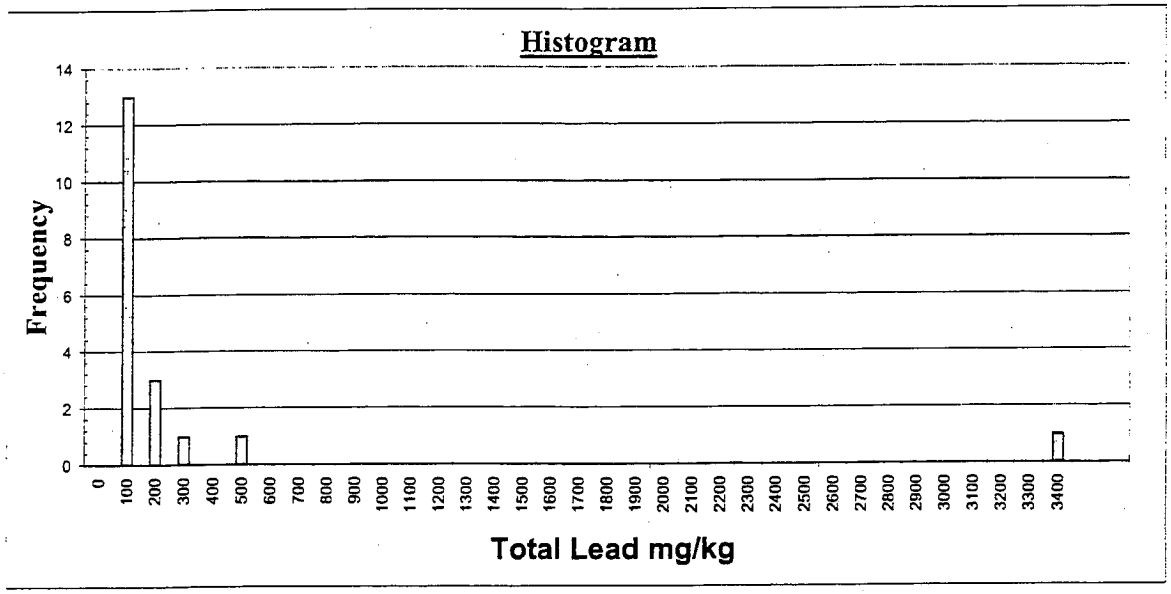
Statistic Analysis Datasheet

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 4 (Southbound)
Site Description: South of Burbank Blvd. to Route 134
Layer Depth (Meter) 1.50
Samples Range: 577-101 to 577-111 and 577-122 to 577-129

Sample ID	Total Lead (7420) Result mg/Kg	Results transformed by the Arcsin Method	STLC (7420/STLC) Result mg/l	Di-STLC (7420/DI) Result mg/l
577-101-1.5	16.4	0.0048		
577-102-1.5	11.6	0.0034		
577-103-1.5	10.4	0.0031		
577-104-1.5	5.0	0.0015		
577-105-1.5	11.3	0.0033		
577-106-1.5	5.0	0.0015		
577-107-1.5	21.6	0.0064		
577-108-1.5	218.0	0.0644	15.0000	0.100
577-109-1.5	72.1	0.0213	3.6500	
577-110-1.5	71.5	0.0211	3.9500	
577-111-1.5	13.4	0.0040		
577-122-1.5	5.0	0.0015		
577-123-1.5	113.0	0.0333	5.6500	0.400
577-124-1.5	3390.0	1.5708		
577-125-1.5	96.1	0.0284	4.6000	
577-126-1.5	107.0	0.0316	5.7000	0.100
577-127-1.5	441.0	0.1305	24.3000	0.230
577-128-1.5	159.0	0.0469	7.3500	0.100
577-129-1.5	35.0	0.0103		

Histogram for Total Lead

AESCO Site No.:	20020155-1 (2+3+4+5)
Project Description:	ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for:	Stage 4 (Southbound)
Site Description:	South of Burbank Blvd. to Route 134
Layer Depth (Meter)	1.5
Samples Range:	577-101 to 577-111 and 577-122 to 577-129



UCL 90% & UCL 95% for Total Lead

AESCO Site No.: 20020155-1 (2+3+4+5)
Project Description: ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB
Analysis Made for: Stage 4 (Southbound)
Site Description: South of Burbank Blvd. to Route 134
Layer Depth (Meter) 1.5
Samples Range: 577-101 to 577-111 and 577-122 to 577-129

(Based on the equation in Table "9-1" in EPA SW-846, Chapter 9: UC = X ± T * S x)

T0.10= *1.330* T0.05= *1.734*

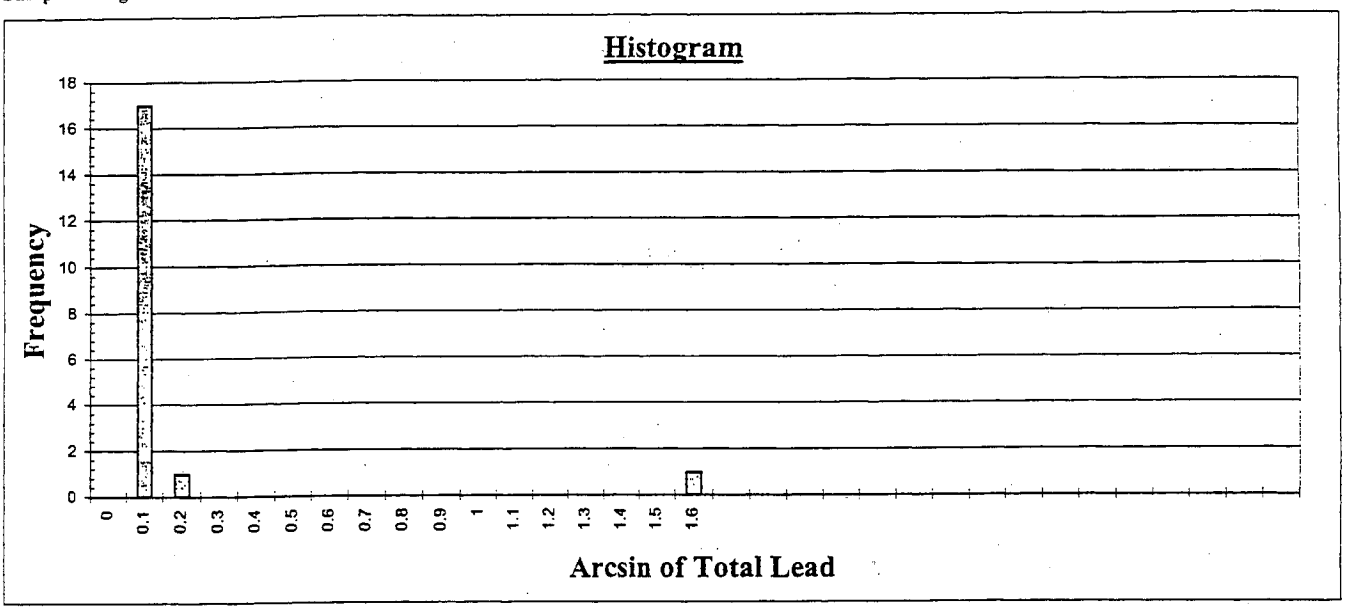
Analysis Term	Value
Mean	252.8
Standard Error	176.0
Median	35.0
Standard Deviation	767.1
Variance of Sample	588438.4
Range	3385.0
Minimum	5.0
Maximum	3390.0
Sum	4802.4
Count	19
Confidence Level (90.0%)	486.9

Analysis Term	Value
Mean	252.8
Standard Error	176.0
Median	35.0
Standard Deviation	767.1
Variance of Sample	588438.4
Range	3385.0
Minimum	5.0
Maximum	3390.0
Sum	4802.4
Count	19
Confidence Level (95.0%)	557.9

From the table above, the variance is greater than the mean. Therefore the arcsin transformation is required on the raw data based on EPA SW-846, Chapter 9.

Histogram for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**1.5**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**



UCL 90% & 95% for Total Lead (Arcsin Values)

AESCO Site No.:	**20020155-1 (2+3+4+5)**
Project Description:	**ADL Study @ Route 170; Site 2: Route 134/Oxnard St. SB, Site 3: Route 134/Burbank Blvd. NB, Site 4: Laurel Canyon Blvd. /Victory Blvd. SB, Site 5: Victory Blvd./Sherman Way NB & SB**
Analysis Made for:	**Stage 4 (Southbound)**
Site Description:	**South of Burbank Blvd. to Route 134**
Layer Depth (Meter)	**1.5**
Samples Range:	**577-101 to 577-111 and 577-122 to 577-129**

UCL 90% & UCL 95% for Total Lead after Arcsin Transformation based on EPA SW-846.

T0.10= 1.3303907 **T0.05=** 1.734

Analysis Term	Value
Mean	354.0
Standard Error	0.0818
Mean (Arcsin Values)	0.1046
Standard Deviation	0.3564
Count	19
Confidence Level (90.0%)	718.0

Analysis Term	Value
Mean	354.0
Standard Error	0.0818
Mean (Arcsin Values)	0.1046
Standard Deviation	0.3564
Count	19
Confidence Level (95.0%)	826.9

Appendix

Chain of Custody

E

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 10 / 1 / 02, Page: 1 of 2

Client: MTA

Site Description: Wo Mt. Helena Ave / Wo Figueroa St: EB

Project No. 20020155-1 (1)

ADL Study @ Route 134

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900

Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567

Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	219	.15	1300	34.14710	118.19511	X							
577	219	.45		-"-	-"-	X							
577	219	.75		-"-	-"-	X							
577	219	1.50		-"-	-"-	X							
577	216	.15	1320	34.14624	118.19322	X							
577	216	.45		-"-	-"-	X							
577	216	.75		-"-	-"-	X							
577	216	1.50		-"-	-"-	X							
577	215	.15	1331	34.14287	118.18611	X							
577	215	.45		-"-	-"-	X							
577	215	.75		-"-	-"-	X			X				
577	215	1.50		-"-	-"-	X							
577	215	.000**											

1. Relinquished by: [signature] — Date 10/2, Time 9:30
Received by: [signature]

2. Relinquished by: — Date, Time
Received by Lab:

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 10 / 01 / 02, Page: 2 of 2

Client **MTA**

Site Description:
Wo Mt. Helena Ave /
Wo Figueroa St: EB
Project No. **20020155-1 (1)**
ADL Study @ Route 134

Laboratory Name: **Associated Lab**
Phone No. **(714) - 771 - 6900**
Project Manager: **Adam Chamaa, P.E.**
Phone No. **(714) - 593 - 2567**
Suspected Contamination: **Lead;**

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	-218-	.15	1350	34.14684	118.19451	X							
577	-218-	.45		-"-	-"-	X							
577	-218-	.75		-"-	-"-	X							
577	-218-	1.50		-"-	-"-	X			X				
577	-217-	.15	1410	34.14648	118.19362	X							
577	-217-	.45		-"-	-"-	X							
577	-217-	.75		-"-	-"-	X							
577	-217-	1.50		-"-	-"-	X							
577	-	.15											
577	-	.45											
577	-	.75											
577	-	1.50											
577	-217-	000**											

1. Relinquished by:	Received by:	Date 10/2	Time 9:30
2. Relinquished by:	Received by Lab:	Date	Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 28 / 02, Page: 1 of 7

Client MTA

Site Description:

Project No. 20020155-1 2

ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900

Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567

Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	111	.15	9:05	34.16434	118.38284	X			X				
577	111	.45	9:05	—	—	X							
577	111	.75	9:05	—	—	X							
577	111	1.50	9:05	—	—	X							
577	110	.15	9:15	34.16393	118.38271	X							
577	110	.45	9:15	—	—	X							
577	110	.75	9:15	—	—	X					X		
577	110	1.50	9:15	—	—	X							
577	109	.15	9:25	34.16348	118.38235	X							
577	109	.45	9:25	—	—	X							
577	109	.75	9:25	—	—	X			X				
577	109	1.50	9:25	—	—	X							
577	109	000*	9:25										

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 9/30 — Time 12:30

2. Relinquished by: Jennifer — Received by Lab: — Date 9/30 — Time 1:30

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 18 / 02, Page: 2 of 3

Client **MTA**

Site Description: **Route 134 / Oxnard St: SB**

Project No. **20020155-1 (2)**
ADL Study @ Route 170

Laboratory Name: **Associated Lab**
Phone No. **(714) - 771 - 6900**
Project Manager: **Adam Chamaa, P.E.**
Phone No. **(714) - 593 - 2567**
Suspected Contamination: **Lead;**

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	108	.15	9:40	34.16204	118.38208	X					Y		
577	108	.45	9:40	—	—	X							
577	108	.75	9:40	—	—	X							
577	108	1.50	9:40	—	—	X							
577	107	.15	9:53	34.16231	118.38185	X							
577	107	.45	9:53	—	—	X							
577	107	.75	9:53	—	—	X							
577	107	1.50	9:53	—	—	X							
577	106	.15	10:10	34.16150	118.38142	X			X				
577	106	.45	10:10	—	—	X							
577	106	.75	10:10	—	—	X							
577	106	1.50	10:10	—	—	X							
577	106	000*	10:16										

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 9/20 — Time 12:50
2. Relinquished by: — Received by Lab: — Date 9/20 — Time 1:30

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9/18/02, Page: 3 of 7

Client: MTA

Site Description: Route 134 / Oxnard St: SB

Project No. 20020155-1 (2)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	105	.15	10:33	34.15981	118.38079	X							
577	105	.45	10:33	—	—	X							
577	105	.75	10:33	—	—	X							
577	105	1.50	10:33	—	—	X							
577	104	.15	10:50	34.15892	118.38059	X							
577	104	.45	10:50	—	—	X							
577	104	.75	10:50	—	—	X			X				
577	104	1.50	10:50	—	—	X							
577	103	.15	11:05	34.15800	118.38018	X							
577	103	.45	11:05	—	—	X							
577	103	.75	11:05	—	—	X							
577	103	1.50	11:05	—	—	X							
577	103	000	11:05										

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 9/20 — Time 12:30
2. Relinquished by: Jennifer Davis — Received by Lab: [illegible] — Date 9/20 — Time 1:30

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 09 / 29 / 02, Page: 4 of 7

Client MTA

Site Description: Route 134 / Oxnard St: SB

Project No. 20020155-1 (2)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	102	.15	11:44	34.15561	118.57868	X							
577	102	.45	11:44	—	—	X							
577	102	.75	11:44	—	—	X							
577	102	1.50	11:44	—	—	X							
577	101	.15	12:02	34.15506	118.57867	X			X				
577	101	.45	12:02	—	—	X							
577	101	.75	12:02	—	—	X							
577	101	1.50	12:02	—	—	X							
577	121	.15	1:33	34.17267	118.58990	X							
577	121	.45	1:33	—	—	X							
577	121	.75	1:33	—	—	X							
577	121	1.50	1:33	—	—	X							
577	121	000*	1:33										

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 9/30 — Time 12:36
2. Relinquished by: — Received by Lab: — Date 9/30 — Time 1:30

Note:
Turn-around-time: Regular
Container: Glass jars with no preservation
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 28 / 02, Page: 5 of 7

Client **MTA**

Site Description: **Route 134 / Oxnard St: SB**

Project No. **20020155-1 (2)**
ADL Study @ Route 170

Laboratory Name: **Associated Lab**
Phone No. **(714) - 771 - 6900**
Project Manager: **Adam Chamaa, P.E.**
Phone No. **(714) - 593 - 2567**
Suspected Contamination: **Lead;**

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
*Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	120	.15	1:50	34.17285	118.39038	X							
577	120	.45	1:50	—	—	X							
577	120	.75	1:50	—	—	X			X				
577	120	1.50	1:50	—	—	X							
577	119	.15	2:04	34.17306	118.39064	X							
577	119	.45	2:04	—	—	X							
577	119	.75	2:04	—	—	X							
577	119	1.50	2:04	—	—	X							
577	118	.15	2:36	34.17363	118.39156	X							
577	118	.45	2:36	—	—	X							
577	118	.75	2:36	—	—	X							
577	118	1.50	2:36	—	—	X							
577	118	000**	2:36										

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 9/30 — Time 12:30
2. Relinquished by: — Received by Lab: — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 28 / 02, Page: 6 of 7

Client **MTA**

Site Description: **Route 134 / Oxnard St: SB**

Project No. **20020155-1 (2)**
ADL Study @ Route 170

Laboratory Name: **Associated Lab**
Phone No. **(714) - 771 - 6900**
Project Manager: **Adam Chamaa, P.E.**
Phone No. **(714) - 593 - 2567**
Suspected Contamination: **Lead;**

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	117	.15	2:50	34.17416	118.39225	X			X				
577	117	.45	2:50	~	~	X							
577	117	.75	2:52	~	~	X							
577	117	1.50	2:50	~	~	X							
577	116	.15	3:10	34.17472	118.39277	X							
577	116	.45	3:10	~	~	X							
577	116	.75	3:10	~	~	X							
577	116	1.50	3:10	~	~	X							
577	115	.15	3:40	34.17534	118.39335	X							
577	115	.45	3:40	~	~	X							
577	115	.75	3:40	~	~	X							
577	115	1.50	3:40	~	~	X			X				
577	115	000**	3:40	~	~								

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 9/30 — Time 12:52
2. Relinquished by: — Received by Lab: — Date / — Time

Note:
Turn-around-time: Regular
Container: Glass jars with no preservation
Samples Type: All soil matrix, except for

.AESCO TECHNOLOGIES
18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 28 / 02, Page: 7 of 7

Client: MTA

Site Description: Route 134 / Oxnard St: SB

Project No. 20020155-1 (2)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	114	.15	4:05	34.17660	118.39422	X							
577	114	.45	4:05	—	—	X							
577	114	.75	4:05	—	—	X							
577	114	1.50	4:05	—	—	X							
577	113	.15	4:15	34.17794	118.39477	X							
577	113	.45	4:15			X							
577	113	.75	4:15			X							
577	113	1.50	4:15			X							
577	112	.15	4:35	34.17852	118.39517	X							
577	112	.45	4:35	—	—	X			X				
577	112	.75	4:35	—	—	X							
577	112	1.50	4:35	—	—	X					X		
577	112	0001*	4:35										

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 9/30 — Time 12:30
2. Relinquished by: Jennifer — Received by Lab: Albert Vargas — Date — Time

Note:
Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 09 / 30 / 02, Page: 1 of 7

Client MTA

Site Description: Route 134 / Oxnard St: SB

Project No. 20020155-1 (2)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	122	.15	9:50	34.17282	118.39031	X			X				
577	122	.45	9:50	—	—	X							
577	122	.75	9:50	—	—	X							
577	122	1.50	9:50	—	—	X							
577	123	.15	10:05	34.17174	118.38847	X							
577	123	.45	10:05	—	—	X							
577	123	.75	10:05	—	—	X							
577	123	1.50	10:05	—	—	X							
577	124	.15	10:20	34.17080	118.38741	X					X		
577	124	.45	10:20	—	—	X					X		
577	124	.75	10:20	—	—	X					X		
577	124	1.50	10:20	—	—	X			X		X		
577	124	.000**	10:20	—	—								

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 10/01 Time 11:30
2. Relinquished by: — Received by Lab: — Date 10-1 Time 12:12

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 09 / 30 / 02, Page: 2 of 7

Client MTA

Site Description: Route 134 / Oxnard St: SB

Project No. 20020155-1 (2)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	125	.15	10:35	34.17019	118.38468	X							
577	125	.45	10:35	—	—	X							
577	125	.75	10:35	—	—	X							
577	125	1.50	10:35	—	—	X							
577	126	.15	10:52	34.16974	118.38591	X							
577	126	.45	10:52	—	—	X							
577	126	.75	10:52	—	—	X			X				
577	126	1.50	10:52	—	—	X							
577	127	.15	11:10	34.16820	118.38440	X							
577	127	.45	11:10	—	—	X							
577	127	.75	11:10	—	—	X							
577	127	1.50	11:10	—	—	X							
577	127	000**		—	—								

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 10/01 — Time 11:30
2. Relinquished by: — Received by Lab: — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 09 / 30 / 02, Page: 3 of 7

Client: MTA

Site Description: Route 134 / Oxnard St: SB

Project No. 20020155-1 (2)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
*Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	128	.15	11:25	34.16690	118.383716	X							
577	128	.45	11:25	—	—	X							
577	128	.75	11:25	—	—	X							
577	128	1.50	11:25	—	—	X							
577	129	.15	11:45	34.16573	118.385491	X							
577	129	.45	11:45	—	—	X			X				
577	129	.75	11:45	—	—	X							
577	129	1.50	11:45	—	—	X							
577		.15											
577		.45											
577		.75											
577		1.50											
577	129	000*	11:45	—	—								

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date: 9/30 — Time: 11:30
2. Relinquished by: — Received by Lab: — Date: — Time:

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 28 / 02, Page: 1 of 8

Client MTA

Site Description: Route 134 / Burbank Blvd: NB

Project No. 20020155-1 (3)

ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577 -	148	- .15	9:20	N 34.16718	W 118.38346	X			X		X		
577 -	|	- .45		— "	— "	X					X		
577 -	|	- .75		— "	— "	X							
577 -	|	- 1.50		— "	— "	X							
577 -	149	- .15	8:50	N 34.16746	W 118.38355	X							
577 -	|	- .45		— "	— "	X							
577 -	|	- .75		— "	— "	X							
577 -	|	- 1.50		— "	— "	X							
577 -	150	- .15	9.10	N 34.16905	W 118.38451	X							
577 -	|	- .45		— "	— "	X							
577 -	|	- .75		— "	— "	X							
577 -	|	- 1.50		— "	— "	X							
577	150	- 000*		— "	— "								

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 9/30 — Time 12:30

2. Relinquished by: — Received by Lab: — Date 9/30 — Time 1:20

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 28 / 02, Page: 2 of 8

Client MTA

Site Description: Route 134 / Burbank Blvd: NB

Project No. 20020155-1 (3)

ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900

Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567

Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	151	.15	9.26	N 34.17029	W 118.38567	X			X				
577		.45		—	—	X							
577		.75		—	—	X							
577		1.50	0	—	—	X							
577	152	.15	9.36	N 34.17113	W 118.38699	X					X		
577		.45		—	—	X							
577		.75		—	—	X							
577		1.50		—	—	X							
577	153	.15	9.57	N 34.17308	W 118.38908	X							
577		.45		—	—	X			X				
577		.75		—	—	X							
577		1.50		—	—	X							
577	153	000**											

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 9/30 — Time 12:30

2. Relinquished by: — Received by Lab: — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 28 / 02, Page: 3 of 8

Client MTA	Laboratory Name: Associated Lab Phone No. (714) - 771 - 6900	**Requirement:** Sample must be delivered within 24 hrs. Sample must be intact. Sample ambient must be cooled. **Equipment Blank Sample
Site Description: Route 134 / Burbank Blvd: NB	Project Manager: Adam Chamaa, P.E. Phone No. (714) - 593 - 2567	Samplers: (signature) Adam Chamaa
Project No. 20020155-1 (3) ADL Study @ Route 170	Suspected Contamination: Lead;	Test Required

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	154	.15	10.05	N 34.17334	W 118.39005	X			X				
577		.45		— " —	— " —	X							
577		.75		— " —	— " —	X							
577		1.50		— " —	— " —	X							
577	155	.15	10.15	N 34.17379	W 118.39093	X							
577		.45		— " —	— " —	X							
577		.75		— " —	— " —	X							
577		1.50		— " —	— " —	X							
577	156	.15	10.25	N 34.17451	W 118.39176	X							
577		.45		— " —	— " —	X							
577		.75		— " —	— " —	X							
577		1.50		— " —	— " —	X							
577	151	.000**		— " —	— " —								

1. Relinquished by: Adam Chamaa	Received by: Jennifer Davis	Date 9/30	Time 12:50
2. Relinquished by:	Received by Lab:	Date 9/30	Time 1:30

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 28 / 02, Page: 4 of 8

Client MTA

Site Description: Route 134 / Burbank Blvd: NB

Project No. 20020155-1 (3)

ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	157	.15	10.45	N 34.17695	W 118.24461	X			X				
577	157	.45		— " —	— " —	X							
577	\	.75		BORING TERMINATED		- ROCKS							
577	\	1.50		— " —									
577	158	.15	11.05	N 34.17556	W 118.39273	X							
577		.45		— " —	— " —	X							
577		.75		— " —	— " —	X							
577		1.50		— " —	— " —	X							
577	159	.15	11.22	N 34.17620	W 118.39316	X							
577		.45		— " —	— " —	X							
577		.75		— " —	— " —	X							
577		1.50		— " —	— " —	X							
577	159	000**		— " —	— " —								

		Date	Time
1. Relinquished by: Adam Chamaa	Received by: Jennifer Davis	9:30	12:30
2. Relinquished by: Jennifer	Received by Lab: Ryan Lewis	9/30	1:30

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 28 / 02, Page: 5 of 8

Client MTA

Site Description: Route 134 / Burbank Blvd: NB.

Project No. 20020155-1 (3)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	160	.15	11.34	N 34.17724	W 118.39364	X							
577		.45		—	—	X							
577		.75		—	—	X			X				
577		1.50		—	—	X							
577	161	.15	11.46	N 34.17813	W 118.39387	X							
577		.45		—		X							
577		.75		—	—	X							
577		1.50		—	—	X							
577	162	.15	12.05	N 34.17894	W 118.39326	X							
577		.45		—	—	X							
577		.75		—	—	X							
577		1.50		—	—	X							
577	162	.000**											

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 9:30 — Time 12:30

2. Relinquished by: — Received by Lab: — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 28 / 02, Page: 6 of 8

Client: MTA

Site Description: Route 134 / Burbank Blvd: NB

Project No. 20020155-1 (3)

ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	163	.15	12.20	N 34.17855	W 118.39422	X							
577		.45		—	—	X							
577		.75		—	—	X			X				
577		1.50		—	—	X							
577	140	.15	14.00	N 34.15881	W 118.37971	X							
577		.45		—	—	X					X		
577		.75		—	—	X							
577		1.50		—	—	X							
577	141	.15	14.15	N 34.16005	W 118.38020	X					X		
577		.45		—	—	X							
577		.75		—	—	X							
577		1.50		—	—	X							
577	141	000*		—	—								

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 9.30 — Time 12:30

2. Relinquished by: — Received by Lab: — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 28 / 02, Page: 7 of 8

Client MTA	Laboratory Name: Associated Lab Phone No. (714) - 771 - 6900	**Requirement:** Sample must be delivered within 24 hrs. Sample ambient must be cooled. Sample must be intact. **Equipment Blank Sample
Site Description: Route 134 / Burbank Blvd: NB	Project Manager: Adam Chamaa, P.E. Phone No. (714) - 593 - 2567	Samplers: (signature) Adam Chamaa
Project No. 20020155-1 (3) ADL Study @ Route 170	Suspected Contamination: Lead;	

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577 -	142	- .15	14.20	N 34.16074	W 118.38055	X							
577 -	|	- .45		— " —	— " —	X					X		
577 -	|	- .75		— " —	— " —	X			X				
577 -		- 1.50		— " —	— " —	X					X		
577 -	143	- .15	14.30	N 34.16126	W 118.38082	X							
577 -	|	- .45		— " —	— " —	X							
577 -	|	- .75		— " —	— " —	X							
577 -		- 1.50		— " —	— " —	X							
577 -	144	.15	14.48	N 34.16208	W 118.38112	X					X		
577 -		- .45		— " —	— " —	X							
577 -	|	- .75		— " —	— " —	X							
577		- 1.50		— " —	— " —	X							
577 -	144	- 000**		— " —	— " —								

1. Relinquished by: Adam Chamaa	Received by: Jennifer Davis	Date 9:30	Time 12:30	**Note:** Turn-around-time: Regular Container: Glass jars with no preservation. Samples Type: All soil matrix, except for
2. Relinquished by:	Received by lab:	Date	Time	

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 28 / 02, Page: 8 of 8

Client MTA	Laboratory Name: Associated Lab Phone No. (714) - 771 - 6900	**Requirement:** Sample must be delivered within 24 hrs. Sample must be intact. Sample ambient must be cooled. **Equipment Blank Sample
Site Description: Route 134 / Burbank Blvd: NB	Project Manager: Adam Chamaa, P.E. Phone No. (714) - 593 - 2567	Samplers: (signature) Adam Chamaa
Project No. 20020155-1 (3) ADL Study @ Route 170	Suspected Contamination: Lead;	

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	145	.15	15.00	N 34.16275	W 118.38142	X							
577		.45		—	—	X							
577		.75		—	—	X			X				
577		1.50		—	—	X							
577	146	.15	15.10	N 34.16354	W 118.38169	X					X		
577		.45		—	—	X							
577		.75		—	—	X							
577		1.50		—	—	X							
577	147	.15	15.20	N 34.16428	W 118.38191	X							
577		.45		—	—	X			X				
577		.75		—	—	X							
577		1.50		—	—	X							
577	147	.000**											

1. Relinquished by: Adam Chamaa	Received by: Jennifer Davis	Date 9/30	Time 12:3	**Note:** Turn-around-time: Regular Container: Glass jars with no preservation. Samples Type: All soil matrix, except for
2. Relinquished by:	Received by Lab:	Date	Time	

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 30 / 02, Page: 1 of 2

Client MTA	Laboratory Name: Associated Lab Phone No. (714) - 771 - 6900	**Requirement:** Sample must be delivered within 24 hrs. Sample ambient must be cooled. Sample must be intact. *Equipment Blank Sample
Site Description: Route 134 / Burbank Blvd: NB	Project Manager: Adam Chamaa, P.E. Phone No. (714) - 593 - 2567	Samplers: (signature) Adam Chamaa
Project No. 20020155-1 (3) ADL Study @ Route 170	Suspected Contamination: Lead;	

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	138	.15	9.15	N 34.16573	W 118.38341	X			X				
577	138	.45	— " —	— " —	— " —	X							
577	138	.75	— " —	— " —	— " —	X							
577	138	1.50	— " —	— " —	— " —	X							
577	137	.15	9.30	N 34.16573	W 118.38341	X							
577	137	.45	— " —	— " —	— " —	X							
577	137	.75	— " —	— " —	— " —	X							
577	137	1.50	— " —	— " —	— " —	X							
577	136	.15	9.45	N 34.16573	W 118.38341	X							
577	136	.45	↓	— " —	— " —	X							
577	136	.75		— " —	— " —	X			X				
577	136	1.50		— " —	— " —	X							
577	~~136~~	600**	9:50										

1. Relinquished by: Jennifer Davis	Received by: Albert Vargas	Date 10/1/02	Time 13:04	**Note:** Turn-around-time: Regular Container: Glass jars with no preservation. Samples Type: All soil matrix, except for
2. Relinquished by:	Received by Lab:	Date	Time	

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 30 / 02, Page: 2 of 2

Client MTA

Site Description: Route 134 / Burbank Blvd: NB

Project No. 20020155-1 (3)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	139	.15	10:00	N 34.15613	W 118.37843	X							
577	139	.45				X							
577	139	.75				X							
577	139	1.50				X							
577		.15											
577		.45											
577		.75											
577		1.50											
577		.15											
577		.45											
577		.75											
577		1.50											
577	139	000**							X				

1. Relinquished by: Jennifer Davis — Received by: Albert Vargas — Date 10/01/02 — Time 13:04
2. Relinquished by: — Received by Lab: — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 10 / 01 / 02, Page: 1 of 4

Client MTA

Site Description: Laurel Canyon Blvd/Victory Blvd: SB

Project No. 20020155-1 (4)

ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900

Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567

Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
*Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	177	.15	9:00	34.18609	118.40147	X			X				
577	177	.45	—	—	—	X							
577	177	.75	—	—	—	X							
577	177	1.50	—	—	—	X							
577	179	.15	9:10	34.18541	118.40198	X							
577	179	.45		— " —	— " —	X							
577	179	.75		— " —	— " —	X							
577	179	1.50		— " —	— " —	X							
577	178	.15	9:25	34.18521	118.40119	X							
577	— " —	.45		— " —	— " —	X							
577	— " —	.75		— " —	— " —	X							
577	— " —	1.50		— " —	— " —	X							
577	178	000**											

Test Required

1. Relinquished by: Jennifer Davis — Received by: Ryan Lewis — Date 10/02 Time 9:30

2. Relinquished by: — Received by Lab: — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 10 / 01 / 02, Page: 2 of 4

Client MTA

Site Description: Laurel Canyon Blvd/Victory Blvd: SB

Project No. 20020155-1 (4)

ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900

Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567

Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	-176	-.15	9:35	34.18470	118.40062	X			X		X		
577	-176	-.45		-"-	-"-	X							
577	-176	-.75		-"-	-"-	X							
577	-176	-1.50		-"-	-"-	X							
577	-175	-.15	9:45	34.18418	118.40020	X					X		
577	-175	-.45		-"-	-"-	X							
577	-175	-.75		-"-	-"-	X							
577	-175	-1.50		-"-	-"-	X							
577	-174	-.15	9:50	34.18375	118.39965	X							
577	-174	-.45		-"-	-"-	X							
577	-174	-.75		-"-	-"-	X							
577	-174	-1.50		-"-	-"-	X							
577	-174	-000**											

1. Relinquished by: Adam Chamaa — Received by: Ryan Lewis — Date 10/02 — Time 9:30

2. Relinquished by: Jennifer Davis — Received by Lab: Ryan Lewis — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 10 / 01 / 02, Page: 3 of 4

Client MTA

Site Description: Laurel Canyon Blvd/Victory Blvd: SB

Project No. 20020155-1 (4)

ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	173	.15	1015	34.18.292	118.39876	X							
577	173	.45		- " -	- " -	X							
577	173	.75		- " -	- " -	X							
577	173	1.50		- " -	- " -	X			X				
577	172	.15	1025	34.18203	118.39787	X							
577	172	.45		- " -	- " -	X							
577	172	.75		- " -	- " -	X							
577	172	1.50		- " -	- " -	X							
577	171	.15	1030	34.18150	118.39701	X					X		
577	171	.45		- " -	- " -	X							
577	171	.75		- " -	- " -	X							
577	171	1.50		- " -	- " -	X							
577	171	.000**											

1. Relinquished by: [signature] — Received by: [signature] — Date 10/12 Time 9:30

2. Relinquished by: Jennifer Davis — Received by Lab: Evan Lewis — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 10 / 01 / 02, Page: 4 of 4

Client **MTA**

Site Description: **Laurel Canyon Blvd/Victory Blvd: SB**

Project No. **20020155-1 (4)**

ADL Study @ Route 170

Laboratory Name: **Associated Lab**
Phone No. **(714) - 771 - 6900**
Project Manager: **Adam Chamaa, P.E.**
Phone No. **(714) - 593 - 2567**
Suspected Contamination: **Lead;**

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	170	.15	1037	34.18055	118.39622	X							
577	170	.45		-v-	-v-	X			X				
577	170	.75		-v-	-v-	X							
577	170	1.50		-v-	-v-	X							
577		.15											
577		.45											
577		.75											
577		1.50											
577		.15											
577		.45											
577		.75											
577		1.50											
577	170	.000*											

Test Required

1. Relinquished by: Jennifer Davis
Received by: Ryan Lewis
Date 10/02 Time 9:30

2. Relinquished by:
Received by Lab:
Date Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 30 / 02, Page: 1 of 6

Client MTA

Site Description:
Victory Blvd /
Sherman Way: NB & SB
Project No. 20020155-1 (5)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	181	.15	10.30	N 34.18972	W 118.40232	X			X				
577	181	.45				X							
577	181	.75				X							
577	181	1.50				X							
577	185	.15	10.45	N 34.18911	W 118.40228	X							
577	185	.45				X							
577	185	.75				X							
577	185	1.50				X							
577	185	.15	11.00	N 34.18862	W 118.40225	X							
577		.45				X							
577		.75				X							
577		1.50				X							
577	185	000**											

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 10/30 — Time 11:00
2. Relinquished by: — Received by Lab: — Date 10-1-02 — Time 12:02

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 30 / 02, Page: 2 of 6

Client MTA

Site Description:
Victory Blvd /
Sherman Way: NB & SB

Project No. 20020155-1 (5)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900

Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567

Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	186	.15	11:30	N 34.18917	W 118.40249	X							
577		.45				X			X				
577		.75				X							
577		1.50				X							
577	187	.15	12.00	N 34.18985	W 118.40241	X							
577		.45				X							
577		.75				X							
577		1.50				X							
577	184	.15	12:15	N 34.18871	W 118.40253	X							
577		.45				X							
577		.75				X							
577		1.50				X							
577	184	000**											

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 10/01 — Time 10:00

2. Relinquished by: Jennifer — Received by Lab: — Date — Time 11:47

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 30 / 02, Page: 3 of 6

Client MTA

Site Description:
Victory Blvd /
Sherman Way: NB & SB
Project No. 20020155-1 (5)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577 -	182	.15	12.30	N 34.18807	W 118.40223	X							
577 -	182	.45				X							
577 -	182	.75				X			X				
577 -	182	1.50				X							
577 -	180	.15	12.45	N 34.18704	W 118.40303	X							
577 -		.45		CONCRETE - NO BORING CAN BE DONE									
577 -		.75											
577 -		1.50											
577 -	196	.15	13.45	N 34.19914	W 118.40347	X							
577 -		.45				X							
577 -		.75				X							
577 -		1.50				X			X				
577 -	196	000**											

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 10/01 — Time 11:30
2. Relinquished by: — Received by Lab: — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 30 / 02, Page: 4 of 6

Client **MTA**

Site Description:
Victory Blvd / Sherman Way: NB & SB
Project No. **20020155-1 (5)**
ADL Study @ Route 170

Laboratory Name: **Associated Lab**
Phone No. **(714) - 771 - 6900**
Project Manager: **Adam Chamaa, P.E.**
Phone No. **(714) - 593 - 2567**
Suspected Contamination: **Lead;**

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Latitude	GPS Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	195	.15	14.00	N 34.19855	W 118.40357	X			X				
577		.45				X							
577		.75				X							
577		1.50				X							
577	194	.15	14.15	N 34.19807	W 118.40326	X							
577		.45				X							
577		.75				X							
577		1.50				X							
577	193	.15	14.30	N 34.19762	W 118.40323	X							
577		.45				X							
577		.75				X			X				
577		1.50				X							
577	193	000**											

1. Relinquished by: Adam Chamaa
Received by: Jennifer Davis
Date 10/01 Time 11:50

2. Relinquished by: Jennifer
Received by Lab:
Date Time

Note:
Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 30 / 02, Page: 5 of 6

Client MTA

Site Description:
Victory Blvd /
Sherman Way: NB & SB
Project No. 20020155-1 (5)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	192	.15	14.45	N34.19628	W 118.40297	X					X		
577		.45				X							
577		.75				X							
577		1.50				X							
577	191	.15	15.00	N 34.19559	W 118.40289	X							
577		.45				X							
577		.75				X							
577		1.50				X							
577	190	.15	15.18	N 34.19477	W 118.40278	X							
577		.45				X			X				
577		.75				X							
577		1.50				X							
577	190	000**											

1. Relinquished by: Adam Chamaa
Received by: Jennifer Davis
Date 10/1 Time 11:30

2. Relinquished by:
Received by Lab/
Date Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 9 / 30 / 02, Page: 6 of 6

Client MTA

Site Description:
Victory Blvd /
Sherman Way: NB & SB
Project No. 20020155-1 (5)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
*Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577 -	189	- .15	15.30	N 34.19318	W 118.40250	X					X		
577 -		- .45				X							
577 -		- .75				X							
577 -		- 1.50				X							
577 -	188	- .15	15.45	N 34.19259	W 118.40253	X			X				
577 -		- .45				X							
577 -		- .75				X							
577 -		- 1.50				X							
577 -		- .15											
577 -		- .45											
577 -		- .75											
577 -		- 1.50											
577 -	188	- 000**											

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 10/01 Time 11:30
2. Relinquished by: — Received by Lab: — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation
Samples Type: All soil matrix, except for water matrix for equipment blank

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 07 / 30 / 02, Page: 4 of 7

Client MTA

Site Description:
Victory Blvd /
Sherman Way: NB & SB

Project No. 20020155-1 (5)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
*Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	200	.15	1:05	34.18768	118.40135	X			X				
577	200	.45	1:05	—	—	X							
577	200	.75	1:05	—	—	X							
577	200	1.50	1:05	—	—	X							
577	201	.15	1:20	34.18830	118.40141	X							
577	201	.45	1:20	—	—	X							
577	201	.75	1:20	—	—	X			X				
577	201	1.50	1:20	—	—	X							
577	202	.15	1:35	34.18907	118.40158	X							
577	202	.45	1:35	—	—	X							
577	202	.75	1:35	—	—	X							
577	202	1.50	1:35	—	—	X							
577	202	000**	1:35	—	—								

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 10/01 — Time 11:50

2. Relinquished by: — Received by Lab: — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 02 / 10 / 02, Page: 5 of 7

Client MTA

Site Description:
Victory Blvd /
Sherman Way: NB & SB

Project No. 20020155-1 (5)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	203	.15	1:43	34.18983	118.40167	X							
577	203	.45	1:43	—	—	X							
577	203	.75	1:43	—	—	X							
577	203	1.50	1:43	—	—	X							
577	204	.15	1:56	34.19066	118.40173	X							
577	204	.45	1:56	—	—	X			X				
577	204	.75	1:56	—	—	X							
577	204	1.50	1:56	—	—	X							
577	205	.15	2:10	34.19159	118.40192	X							
577	205	.45	2:10	—	—	X							
577	205	.75	2:10	—	—	X							
577	205	1.50	2:10	—	—	X							
577	205	000**	2:10	—	—								

1. Relinquished by: Adam Chamaa — Date 10/01 Time 11:30
Received by: Jennifer Davis

2. Relinquished by: — Date — Time
Received by Lab:

Note: Turn-around-time: Regular
Container: Glass jars with no preservation
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 02 / 30 / 02, Page: 6 of 7

Client MTA

Site Description:
Victory Blvd /
Sherman Way: NB & SB
Project No. 20020155-1 (5)
ADL Study @ Route 170

Laboratory Name: Associated Lab
Phone No. (714) - 771 - 6900
Project Manager: Adam Chamaa, P.E.
Phone No. (714) - 593 - 2567
Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Test Required: Total Lead 5010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	206	.15	2:20	34.19455	118.40226	X							
577	206	.45	2:20	—	—	X							
577	206	.75	2:20	—	—	X							
577	206	1.50	2:20	—	—	X							
577	207	.15	2:30	34.19497	118.40255	X							
577	207	.45	2:30	—	—	X							
577	207	.75	2:30	—	—	X			X				
577	207	1.50	2:30	—	—	X							
577	208	.15	2:42	34.19542	118.40239	X							
577	208	.45	2:42	—	—	X							
577	208	.75	2:42	—	—	X							
577	208	1.50	2:42	—	—	X							
577	208	.000**	2:42										

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 10/9 — Time 11:30
2. Relinquished by: — Received by Lab: — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation.
Samples Type: All soil matrix, except for water matrix for equipment blank

AESCO TECHNOLOGIES

18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

CHAIN OF CUSTODY RECORD

Date: 09 / 30 / 02, Page: 7 of 7

Client **MTA**

Site Description:
Victory Blvd / Sherman Way: NB & SB
Project No. **20020155-1 (5)**
ADL Study @ Route 170

Laboratory Name: **Associated Lab**
Phone No. **(714) - 771 - 6900**
Project Manager: **Adam Chamaa, P.E.**
Phone No. **(714) - 593 - 2567**
Suspected Contamination: **Lead;**

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	GPS Reading: Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
577	-209	- .15	3:00	34.19607	118.40236	X							
577	-209	- .45	3:00	—	—	X							
577	-209	- .75	3:00	—	—	X							
577	-209	- 1.50	3:00	—	—	X							
577	-210	- .15	3:20	34.19813	118.40228	X							
577	-210	- .45	3:20	—	—	X			X				
577	-210	- .75	3:20	—	—	X							
577	-210	- 1.50	3:20	—	—	X							
577	-	- .15											
577	-	- .45											
577	-	- .75											
577	-	- 1.50											
577	-210	- 000**	3:20	—	—								

1. Relinquished by: Adam Chamaa — Received by: Jennifer Davis — Date 10/1 Time 11:30
2. Relinquished by: — Received by Lab: — Date — Time

Note: Turn-around-time: Regular
Container: Glass jars with no preservation
Samples Type: All soil matrix, except for water matrix for equipment blank.

AESCO TECHNOLOGIES
18548 Beach Blvd. Huntington Beach, Ca 92648
(714) 593-2567 Fax: (714) 593-0022

107642

CHAIN OF CUSTODY REC D

Date: 10 / 11 / 02, Page: 1 of 1

Client MTA

Site Description: Decontamination Water Stored @ AESCO

Project No. 20020155

ADL Study

Laboratory Name: Associated Lab

Project Manager: Adam Chamaa, P.E.

Phone No. (714) - 593 - 2567

Suspected Contamination: Lead;

Requirement:
Sample must be delivered within 24 hrs.
Sample ambient must be cooled.
Sample must be intact.
**Equipment Blank Sample

Samplers: (signature) Adam Chamaa

Sample ID: Caltrans No.	Caltrans Bore. No.	Depth (Meter)	Time HH:MM	GPS Reading: Latitude	Longitude	Test Required: Total Lead 6010/ 7420	Soluble Lead (Citrate) EPA3050A	Soluble Lead De-Ionized EPA3050A	EPA pH	Soluble Lead TCLP EPA1311	All Metal CAM17		
Decon Water Sample			2:30	N/A	N/A	x							

1. Relinquished by: Adam Chamaa — Received by: Hamid Nauman — Date 10/11 — Time 2:45

2. Relinquished by: — Received by Lab: — Date 10/11 — Time 8:30

Note:
Turn-around-time: Regular
Container: Glass jars with no preservation
Samples Type: All soil matrix, except for water matrix for equipment blank.

Appendix

Latitude & Longitude of Borehole Locations

F

BoreholeID	BoreholeLatitude	BoreholeLongitude
577-101	34.15506	118.37867
577-102	34.15561	118.37868
577-103	34.158	118.38018
577-104	34.15892	118.38059
577-105	34.15981	118.38079
577-106	34.1615	118.3814
577-107	34.16231	118.38185
577-108	34.16294	118.38208
577-109	34.16348	118.38235
577-110	34.16393	118.38271
577-111	34.16434	118.38284
577-112	34.17852	118.39517
577-113	34.17794	118.39477
577-114	34.1766	118.39422
577-115	34.17534	118.39335
577-116	34.17472	118.39277
577-117	34.17416	118.39225
577-118	34.17363	118.39156
577-119	34.17306	118.39064
577-120	34.17285	118.39038
577-121	34.17267	118.38999
577-122	34.17282	118.39031
577-123	34.17174	118.38847
577-124	34.1708	118.38741
577-125	34.17049	118.38668
577-126	34.16974	118.38591
577-127	34.1682	118.3844
577-128	34.1668	118.38376
577-129	34.16573	118.38341
577-136	34.16573	118.38341
577-137	34.16573	118.38341
577-138	34.16573	118.38341
577-139	34.15613	118.37843
577-140	34.15881	118.37971
577-141	34.16005	118.3802
577-142	34.16074	118.38055
577-143	34.16126	118.38082
577-144	34.16208	118.38112
577-145	34.16275	119.38142
577-146	34.16354	118.38169
577-147	34.16428	118.38191
577-148	34.16718	118.38346
577-149	34.16746	118.38355
577-150	34.16905	118.38451
577-151	34.17029	118.38567
577-152	34.17113	118.38699
577-153	34.17308	118.38908
577-154	34.17334	118.39005

577-155	34.17379	118.39093
577-156	34.17451	118.39176
577-157	34.17695	118.24461
577-158	34.17556	118.39273
577-159	34.1762	118.39316
577-160	34.17724	118.39364
577-161	34.17813	118.39389
577-162	34.17894	118.39326
577-163	34.17855	118.39422
577-170	34.18055	118.39622
577-171	34.1815	118.39701
577-172	34.18203	118.39787
577-173	34.18292	118.39876
577-174	34.18375	118.39965
577-175	34.18418	118.4002
577-176	34.1847	118.40062
577-177	34.18609	118.40147
577-178	34.18521	118.40119
577-179	34.18541	118.40198
577-180	34.18704	118.40303
577-181	34.18972	118.40232
577-182	34.18809	118.40223
577-183	34.18911	118.40228
577-184	34.18871	118.40253
577-185	34.18862	118.40225
577-186	34.18917	118.40249
577-187	34.18985	118.40241
577-188	34.19259	118.40253
577-189	34.19318	118.4025
577-190	34.19477	118.40278
577-191	34.19559	118.40289
577-192	34.19628	118.40297
577-193	34.19762	118.40323
577-194	34.19807	118.40326
577-195	34.19855	118.40337
577-196	34.19914	118.40347
577-200	34.18768	118.40135
577-201	34.1883	118.40141
577-202	34.18907	118.40158
577-203	34.18983	118.40167
577-204	34.19066	118.40173
577-205	34.19159	118.40192
577-206	34.19435	118.40226
577-207	34.19497	118.40233
577-208	34.19542	118.40239
577-209	34.19607	118.40236
577-210	34.19813	118.40228
577-215	34.14287	118.18611
577-216	34.14624	118.19322

577-217	34.14648	118.19362
577-218	34.14684	118.19451
577-219	34.1471	118.19511

Appendix

Memorandum from the Department of Transportation OEEFS-Hazardous Waste Branch, South Region, MS 16 Dated November 19, 2002 & February 6, 2003

G

State of California

Business, Transportation and Housing Agency

Memorandum

Flex your power!
Be energy efficient!

To: Melvin Hodge, Chief
Office of Project Studies

Attn: Albert Andraos, STE

Date: November 19, 2002

File: 07-LA-134 KP 17.4/18.3
07-LA-170 KP 23.7/29.5
Soundwall Project
Phase I, Priority II
MTA Oversight
Project

EA: 07-333-23280K

From: **DEPARTMENT OF TRANSPORTATION**
OEEFS- HAZARDOUS WASTE BRANCH, SOUTH REGION, MS 16

Subject: *Draft ADL Site Investigation Report Review*

We have received the draft Lead Site Investigation report, prepared by AESCO for MTA Soundwall projects, Phase 1, Priority 2, Route 134 and 170 (KP 10.8/18.3). This report was prepared for Washington Infrastructure, Inc. under Caltrans Project EA 23280K. This three-volume report consisted of the following:

- Volume I-Initial Site Assessment dated September 2002
- Volume II- Preliminary Foundation Report dated September 2002
- Volume III- Aerially Deposited Lead Study dated October 2002.

This review and comment focuses mainly on Volume III, Aerially Deposited Lead (ADL) Study dated October 2002 conducted along the various segments of Route 134 and 170. Based on the review of the report, Caltrans offers the following comments.

1. The report requires signature and seal of a Registered Geologist as stated in the approved Workplan (9/2002).
2. *Section 4.2, page 8.* AESCO used *"400 mg/kg"* to define clean soil. Please provide the complete reference that defines clean soil at *"400 mg/kg"* concentration. Please note that the 350 mg/kg is used for disposal purposes.
3. *Section 4.4, page 10.* The discussion referred to a District 6 memo. This project is being oversight by District 7. Any documents referenced in the report should reflect District 7. In addition, please provide the specific Appendix location when referencing materials in the appendix.
4. *Section 4.5.3, page 12.* The discussion on decontamination verification process is misleading due the use of the phrase *"contamination level"*. Please revise the discussion. Also, please include the procedure on how the equipment blank was obtained. Please

specify what test was performed on the equipment blanks (This was part of the QA/QC protocol as described in the approved Workplan).

5. Page 16-23. The data for *"Soluble Lead STLC (De-ionized)"* column is missing. Please check and verify.

6. *Site 20020155-1 (1) through (3)*

   a. It was noticed that some of the samples with greater than 1,000 mg/kg total lead concentration were not tested for TCLP on some of the sites, for example site 20020155-1(4) area. Please clarify and provide an explanation for not testing the required number of TCLP.

   b. Please provide an explanation for not meeting the required minimum number of sample required for TCLP testing. Please see *September 2002 Aerially Deposited Lead Study Workplan, page 15, Section 11, Laboratory Testing and Section 5.2, Laboratory Testing* of the report for the minimum number of TCLP tests required.

   c. *20020155-1(1)*- The number of pH testing at this was inadequate. Please refer to the approved Workplan, dated 9/2002, regarding the minimum number of pH tests required. Please check and verify the other locations as well for the minimum amount of pH testing required.

7. *Section 5.2, page 24*, last paragraph. This paragraph indicated that ***only*** selected soil samples were analyzed for all metals. This conflicts with the September 2002 Workplan requirement found on page 15, Section 11, Laboratory Testing that states, *"A total of 10% or a minimum of all samples or four samples will be analyzed for all metals (CAM 17/Title 22 Metal Analysis) per study section."*

8. *Chain of Custody Record*

   a. The chain-of-custody showed samples were delivered to lab on the following day after the samples were collected. Some of the samples also exceeded the 24-hour delivery schedule requirement, for example 577-101 through -121. Please provide an explanation for this deviation. Please check and verify the delivery schedule for all the samples.

   b. The chain of custody is incomplete. Information such as analysis required, matrix (type of sample), preservation, container, turn-around-time etc. were missing.

9. The report is missing the required GIS information. Please refer to the approved Workplan regarding the required information. This information should be included in the submittal for review. The GIS data entry spreadsheet was sent to AESCO on September 17, 2002 via e-mail.

10. Please ensure that all the elements of a site investigation report as describe in the July 15, 2002 protocol are followed. For example, the site investigation report should include an Executive Summary.

11. In order to avoid confusion, the used of new and undefined terminology is discourage unless it has been defined. For example, minor hazardous and soil lead variance. If AESCO desires to reference the variance, please refer to it as the DTSC Variance.

12. Conclusion and Recommendation.

a. The procedures for performing the statistical analysis per the July 15, 2002 protocol and SW-846 was not in complied with, therefore the conclusion and recommendation may be invalid. Please review and revise the accordingly.

b. Section 6.1.1 Total Lead Analysis. This section used the 350 mg/kg total lead concentration as the threshold limit for DTSC Variance. This discussion might be confusing. Please note that the DTSC variance uses a different threshold limit for the re-use of lead contaminated soil; whereas the 350 mg/kg is used for handling and disposal. Please revise the discussion accordingly (Note: a copy of the Variance and AB414 amendment was forwarded to the consultants and also documented in the approved Workplan).

c. The conclusion and recommendation should also include a discussion on the tests such as pH, TCLP, and CAM 17 metals.

13. Appendix C, Laboratory Results. The laboratory results are incomplete. The submittal included only the results for 577-122 through -129, 577-136 through -139. In addition, the QA/QC results were not included in the report. Please check and verify. Appendix D also listed the results of the TCLP, however, the laboratory results were not included in the report.

14. Appendix D-2. The table included samples ***578***-111-.75 and ***578***-116-.45 in the TCLP list. Please note that the 578 unique identification number does not apply to this project. Please clarify.

15. Appendix D. This appendix showed the statistical analysis for the project. During the review of the report, the following deficiencies were noticed.

a. The analysis did not include the calculation of the correlation coefficient. The correlation coefficient is required to determine the relationship between the total lead and soluble lead and determine if re-analysis is required. This procedure was included in the July 15, 2002 protocol.

b. Raw data transformation was absent in the report. Please note that data transformation is required depending on the result the histogram, or based on the result comparing the mean to the variance. This procedure was delineated in SW-846 and in the July 15, 2002 protocol. Also, please refer to AESCO's Workplan dated September 19, 2002 on statistical analysis implementation procedure.

c. The lead Soluble Threshold Limit Concentration (STLC) calculation used in the report is incorrect. Please note that predicted STLC could only be derived by using the regression analysis. Again, this procedure was described in the July 15, 2002 protocol. Please re-calculate the predicted STLC value.

d. It was notice that some of the statistical calculations included both directions. Please note that the statistical analysis considers each direction separately (this was discussed in our initial meeting and subsequent Workplan meetings).

e. Statistical analysis for TCLP is not a requirement. Please delete.

f. Statistical analysis for DI-STLC is not required. Recommendation for re-use of contaminated soil is determined by evaluating the DI-WET values in its entirety, without using statistical analysis.

Please check and verify the statistical analysis procedure per the Caltrans protocol dated July 15, 2002 and Section 7.0 of the September 19, 2002 Workplan and re-calculate the total and soluble lead concentration accordingly. Based on the results of the calculation, please re-evaluate the conclusion and recommendation.

Please revise the draft report per the comments above. If you have any questions, I can be reached at 213-897-3646 or contact Carol Green of my staff at 213-897-0688. Should AESCO need to meet with our office in person, the request should be arranged through the Office of Project Studies.

Steve Chan

Steve Chan, STE
District Hazardous Waste Coordinator, South Region
Office of Environmental Engineering and Feasibility Studies

cc: File

STATE OF CALIFORNIA—BUSINESS, TRANSPORTATION AND HOUSING AGENCY

GRAY DAVIS, Governor

DEPARTMENT OF TRANSPORTATION
OFFICE OF ENVIRONMENTAL ENGINEERING
AND FEASIBILITY STUDIES
120 S. Spring St.
Los Angeles, CA 90012
PHONE (213)897-3646
FAX (213) 897-1634

Flex your power!
Be energy efficient!

February 6, 2003

Mr. Adam Chamaa, P.E.
AESCO Technologies, Inc.
18548 Beach Blvd.
Huntington Beach, CA 92648

2nd Review Comments on Aerially Deposited Lead Site Investigation Report for LA-134 and LA-170, EA 23280K

Dear Mr. Chamaa:

Our office is in receipt of the Aerially Lead Study Workplan, Volume III for MTA soundwall project for Route 134 and 170 dated January 2003. The first submittal was dated October 2002; Caltrans' comments were provided on November 19, 2002. Based on the review of the January 2003 report, our office offers the following comments.

1. Please provide an original signature page, i.e., "wet signature" and original seal.
2. The purpose of the Executive Summary is to provide readers of a complete summary of the investigation that includes a brief discussion on the conclusion recommendation. AESCO's refers the readers to the discussion in the report as their Executive Summary. This approach defeats the intention and purpose of an Executive Summary.
3. Various sections from the old report (October 2002) were deleted from the revised report such as geophysical setting, groundwater information, and regulatory background. Please consult July 15, 2002 protocol site investigation requirements.
4. Comments 2, 3, and 12(b) were not addressed. The sections were deleted from the report.
5. Comments 6 and 7 of the November 19, 2002 letter were not addressed.
6. Report dated October 2002 included section 4.10, Laboratory Results that summarizes and tabulated all the analytical results. However, this section was deleted in the revised submittal dated January 2003. Please see July 15, 2002 protocol; item J for requirements of a site investigation report.
7. As indicated in November 15, 2002 comment 15(f), statistical analysis (e.g., regression analysis) for Di-WET is not required. The use of the "soft" or "hard" cover is based the evaluation of the entire Di-WET results. If this approach is adopted, it should follow the same procedures listed in item 8 below with exception of having the independent variable 'X' as STLC WET, and the dependent variable 'Y' as the Di-WET.
8. In the statistical analysis, AESCO performed a separate regression analysis for the entire site, per direction, and for each layer. There should only be one regression analysis per each direction. This regression analysis is then used to facilitate the

calculation of the predicted STLC per staging area as defined in the workplan. The approach had been discussed during several meetings, teleconferences, and review comments. Also, section 7, Statistical Analysis of Lead Concentration of the workplan states, *"If the analysis shows that an individual layer has a borderline level (slightly above 350 ppm) and is combine with adjacent non-hazardous layer, the concentration will much below 350 ppm."* Based on this account, Caltrans assumed that AESCO understands the necessary statistical approach. However, based on the review of the report, the statistical analysis still seems unclear. In order to clearly define, facilitate, and address the issue of proper statistical approach, Caltrans has provided step-by-step procedures for your reference as listed below.

(i) Perform linear regression analysis using soluble lead concentration (STLC) versus total lead concentration (TTLC). Total lead concentration (TTLC) shall represent the independent variable (x), and the soluble lead concentration (STLC) shall represent the dependent variable (y). The regression analysis shall consider all the analytical results for ***each direction*** as one data set. The regression analysis should have a correlation that has an r-value equal to, or greater than 0.8. If the correlation coefficient is less than 0.8 this must be explained in the report, or the sample procedures adjusted and the sample re-analyzed for both total and soluble lead.

(ii) If the laboratory determines that samples do not warrant the re-examination and analysis of the samples, a justification shall be provided in writing.

(iii) Perform the regression analysis for each direction in the ***raw data*** form. Consider all the analytical result per each direction. Total lead concentration (TTLC) shall represent the independent variable (x) and the soluble lead concentration (STLC) shall represent the dependent variable (y).

(iv) Generate regression analysis trend line equation ($y = mx + b$) for predicting the STLC during the layer-by-layer analysis of each area, segment, construction staging, etc. as defined in the site investigation workplan.

b) Upper Confidence Limit Calculation

(i) 90% and 95% TTLC and STLC Upper Confidence Limit (UCL)

- 90% and 95% TTLC and STLC UCL calculation shall be performed using the transformed values in accordance with SW-846 guideline.
- 90% TTLC and STLC UCL along with analysis of Di-WET results are used to determine DTSC variance applicability.
- 95% TTLC UCL is used for relinquishment to contractors, or to determine handling and disposal of excess soil in accordance with the 350-ppm TTLC regulatory threshold.
- Recommendations and conclusions shall be based on the results of the statistical analysis of each area, wall, staging etc. as defined in the workplan.

(i) Calculate 90% and 95% UCL for the total lead concentration (TTLC) for all layers combined.

(ii) If the UCL for TTLC is ***less than*** 350 ppm, then the calculation is complete. Calculate the predicted soluble lead (STLC) using the regression analysis equation.

(iii) If the UCL for TTLC is ***greater*** than **350 mg/kg** (from all layers), analyzed as follows:

Step 1 Proceed by eliminating the first layer (i.e., surface) and re-calculate the 90% and 95% TTLC UCL for this layer. Calculate the corresponding predicted STLC using the regression analysis equation.

Step 2 Perform UCL calculation for the *remaining layers* (i.e. 0.3m + 0.6m + 0.9m, etc). Re-calculate the 90% and 95% TTLC UCL and the predicted STLC for the *combined underlying* layers. If the UCL is still greater than **350 mg/kg** at the combined underlying layers, perform step 3.

Step 3 Isolate the top 2 layers (i.e., surface and 0.3-m). Considering the values of the two layers as one data set, calculate the 90% and 95% TTLC UCL. Calculate the corresponding predicted STLC using the regression analysis equation.

Step 4 Perform the UCL calculation for the *remaining layers* (i.e. 0.6m+0.9m etc.). Re-calculate the UCL for the *combined underlying* layers and the predicted STLC.

Step 5 Repeat the layer elimination process for the total investigative depths until the 90% and 95% UCL for TTLC is less than **350 mg/kg**.

9. Caltrans only verified the statistical calculation for LA 134 and LA 170 southbound. **LA 170 northbound was not verified.** Caltrans assumes AESCO applies the same approach for the LA-170 northbound. Please check and verify all statistical calculations as delineated in item 5.

10. Section 5.2, Statistic Analysis. AESCO provide a layer-by-layer approach without consideration of the result of the remaining layer. Please revise this section based on the approach described in item 8 above. Please revise the conclusion and recommendation accordingly.

11. Section 5.3, Toxicity Evaluation refers pH as 5. This statement is inaccurate for the following reasons, (a) pH is not used to indicated toxicity characteristic but rather corrositivity, (b) the threshold for pH in accordance with Title 22 California Code of Regulation section 66264.22 is less than or equal to 2, to equal or greater than 12.5. Please revise the discussion accordingly.

12. It was noticed that AESCO deleted the discussion for each analytical results (pH, TCLP, etc.) For clarity, it is suggested that each test results be discussed separately as previously submitted in the October 2002 report.

13. Section 5.4, Re-Use Evaluation discussion is incomplete based on the following:

    a. The purpose of conclusion and recommendation is to provide a summary of the results for the entire project. The discussion only includes southbound 170 (Stage 2), northbound (Stage 3), and 95% UCL. Some of the information shown in the table is irrelevant, since only each layer was considered.

b. The first sentence of the last paragraph on page 17, *"If the layers in the above table can be separated during construction, they shall be disposed of at Class I Landfill and the remaining layers of the same construction stage may not be restricted to a Class 1 Landfill. "* may be incorrect based on the procedures specified in item 8. Again, this is due to the varying results when layers are combined.

c. When providing a conclusion and recommendation, please specify the applicability of the DTSC variance with respect to the use of "soft" or "hard" cover for each stage.

d. The discussion also include the regression analysis for Di-STLC, please comment 7 above.

14. Please clarify the use pH 150.1in testing for pH. According to EPA, *"EPA Method 150.1 is applicable for drinking, ground, surface, and saline waters, domestic and industrial wastes, and acid rain. The procedure is not applicable to waste characterization which requires the determination of pH at 2 and 12.5."* The method appears to apply only to ***water*** matrix. Since this project involves soil matrix, please clarify the use of Method 150.1.

    Typically, EPA Method 9045 is used to test the soil pH for ADL projects. EPA defines the scope and application of the EPA Method 9045 as, *"an electrometric procedure for measuring pH in soils and waste samples. Wastes may be solids, sludges, or non-aqueous liquids. If water is present, it must constitute less than 20% of the total volume of the sample."*

15. Comment 9 of November 19, 2002 regarding the missing GIS information has not been addressed. The report indicated that the information is still being compiled. Please provide status. In order for the report to be considered complete, all information should be included in the report. The submittal or incorporation of hard copy can be deferred until final approval of report provided Caltrans is notifies. An e-file submittal is required for review prior to finalization to ensure formatting and all the necessary information are to Caltrans standard.

Please call me at (213) 897-3646 or Carol Green of my staff if you require additional information.

Sincerely,

Steve Chan

STEVE CHAN, P.E.
Branch Chief
District Hazardous Waste Coordinator, South Region
Office of Environmental Engineering and Feasibility Studies

Appendix

GIS Data

H

UniqueID	BoreholeID	BoreholeLatitude	BoreholeLongitude	BoreholeDepth	ParcelNumber
577	577-101	34.15506	118.37867	1.5	
577	577-102	34.15561	118.37868	1.5	
577	577-103	34.158	118.38018	1.5	
577	577-104	34.15892	118.38059	1.5	
577	577-105	34.15981	118.38079	1.5	
577	577-106	34.1615	118.3814	1.5	
577	577-107	34.16231	118.38185	1.5	
577	577-108	34.16294	118.38208	1.5	
577	577-109	34.16348	118.38235	1.5	
577	577-110	34.16393	118.38271	1.5	
577	577-111	34.16434	118.38284	1.5	
577	577-112	34.17852	118.39517	1.5	
577	577-113	34.17794	118.39477	1.5	
577	577-114	34.1766	118.39422	1.5	
577	577-115	34.17534	118.39335	1.5	
577	577-116	34.17472	118.39277	1.5	
577	577-117	34.17416	118.39225	1.5	
577	577-118	34.17363	118.39156	1.5	
577	577-119	34.17306	118.39064	1.5	
577	577-120	34.17285	118.39038	1.5	
577	577-121	34.17267	118.38999	1.5	
577	577-122	34.17282	118.39031	1.5	
577	577-123	34.17174	118.38847	1.5	
577	577-124	34.1708	118.38741	1.5	
577	577-125	34.17049	118.38668	1.5	
577	577-126	34.16974	118.38591	1.5	
577	577-127	34.1682	118.3844	1.5	
577	577-128	34.1668	118.38376	1.5	
577	577-129	34.16573	118.38341	1.5	
577	577-136	34.16573	118.38341	1.5	
577	577-137	34.16573	118.38341	1.5	
577	577-138	34.16573	118.38341	1.5	
577	577-139	34.15613	118.37843	1.5	
577	577-140	34.15881	118.37971	1.5	
577	577-141	34.16005	118.3802	1.5	
577	577-142	34.16074	118.38055	1.5	
577	577-143	34.16126	118.38082	1.5	
577	577-144	34.16208	118.38112	1.5	
577	577-145	34.16275	119.38142	1.5	
577	577-146	34.16354	118.38169	1.5	
577	577-147	34.16428	118.38191	1.5	
577	577-148	34.16718	118.38346	1.5	
577	577-149	34.16746	118.38355	1.5	
577	577-150	34.16905	118.38451	1.5	
577	577-151	34.17029	118.38567	1.5	
577	577-152	34.17113	118.38699	1.5	
577	577-153	34.17308	118.38908	1.5	
577	577-154	34.17334	118.39005	1.5	

577	577-155	34.17379	118.39093	1.5	
577	577-156	34.17451	118.39176	1.5	
577	577-157	34.17695	118.24461	0.45	
577	577-158	34.17556	118.39273	1.5	
577	577-159	34.1762	118.39316	1.5	
577	577-160	34.17724	118.39364	1.5	
577	577-161	34.17813	118.39389	1.5	
577	577-162	34.17894	118.39326	1.5	
577	577-163	34.17855	118.39422	1.5	
577	577-170	34.18055	118.39622	1.5	
577	577-171	34.1815	118.39701	1.5	
577	577-172	34.18203	118.39787	1.5	
577	577-173	34.18292	118.39876	1.5	
577	577-174	34.18375	118.39965	1.5	
577	577-175	34.18418	118.4002	1.5	
577	577-176	34.1847	118.40062	1.5	
577	577-177	34.18609	118.40147	1.5	
577	577-178	34.18521	118.40119	1.5	
577	577-179	34.18541	118.40198	1.5	
577	577-180	34.18704	118.40303	0.15	
577	577-181	34.18972	118.40232	1.5	
577	577-182	34.18809	118.40223	1.5	
577	577-183	34.18911	118.40228	1.5	
577	577-184	34.18871	118.40253	1.5	
577	577-185	34.18862	118.40225	1.5	
577	577-186	34.18917	118.40249	1.5	
577	577-187	34.18985	118.40241	1.5	
577	577-188	34.19259	118.40253	1.5	
577	577-189	34.19318	118.4025	1.5	
577	577-190	34.19477	118.40278	1.5	
577	577-191	34.19559	118.40289	1.5	
577	577-192	34.19628	118.40297	1.5	
577	577-193	34.19762	118.40323	1.5	
577	577-194	34.19807	118.40326	1.5	
577	577-195	34.19855	118.40337	1.5	
577	577-196	34.19914	118.40347	1.5	
577	577-200	34.18768	118.40135	1.5	
577	577-201	34.1883	118.40141	1.5	
577	577-202	34.18907	118.40158	1.5	
577	577-203	34.18983	118.40167	1.5	
577	577-204	34.19066	118.40173	1.5	
577	577-205	34.19159	118.40192	1.5	
577	577-206	34.19435	118.40226	1.5	
577	577-207	34.19497	118.40233	1.5	
577	577-208	34.19542	118.40239	1.5	
577	577-209	34.19607	118.40236	1.5	
577	577-210	34.19813	118.40228	1.5	
577	577-215	34.14287	118.18611	1.5	
577	577-216	34.14624	118.19322	1.5	

577	577-217	34.14648	118.19362	1.5	
577	577-218	34.14684	118.19451	1.5	
577	577-219	34.1471	118.19511	1.5	

npleID	LabName	Analysis Date	Matrix	AnalysisType	Analyte	Value	Result Units	MdlPql	MdlPql Value
577-101-.15	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.79	NA		
577-101-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	226	mg/Kg	PQL	10
577-101-.15	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-101-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	14.9	mg/L	PQL	1
577-101-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	166	mg/Kg	PQL	10
577-101-.45	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-101-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	12.1	mg/L	PQL	1
577-101-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	17.6	mg/Kg	PQL	10
577-101-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	16.4	mg/Kg	PQL	10
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	3.97	mg/Kg	PQL	0.5
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	72.8	mg/Kg	PQL	1
577-102-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	0.6	mg/Kg	PQL	0.5
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	2.77	mg/Kg	PQL	0.5
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	19.5	mg/Kg	PQL	1
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	8.58	mg/Kg	PQL	0.5
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	22.4	mg/Kg	PQL	1
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	66.3	mg/Kg	PQL	0.5
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	5.75	mg/Kg	PQL	1
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	19.9	mg/Kg	PQL	1.5
577-102-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	3.18	mg/Kg	PQL	1
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	54.9	mg/Kg	PQL	0.5
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	93.3	mg/Kg	PQL	5
577-102-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	86.4	mg/Kg	PQL	10
577-102-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	4.05	mg/L	PQL	1
577-102-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-102-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	67.6	mg/Kg	PQL	10
577-102-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	2.05	mg/L	PQL	1
577-102-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	18.3	mg/Kg	PQL	10
577-102-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	11.6	mg/Kg	PQL	10
577-103-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	124	mg/Kg	PQL	10
577-103-.15	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-103-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	6.35	mg/L	PQL	
577-103-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	25	mg/Kg	PQL	10
577-103-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	33.3	mg/Kg	PQL	10
577-103-000	Associated Lab	10/2/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-103-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	10.4	mg/Kg	PQL	10
577-104-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	46.6	mg/Kg	PQL	10
577-104-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-104-.75	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.36	NA		
577-104-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	50	mg/Kg	PQL	10
577-104-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	3.4	mg/L	PQL	
577-104-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-105-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.46	mg/L	PQL	0.
577-105-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	321	mg/Kg	PQL	1
577-105-.15	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-105-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	22.4	mg/L	PQL	
577-105-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	26.7	mg/Kg	PQL	1
577-105-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	11.8	mg/Kg	PQL	1
577-105-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	11.3	mg/Kg	PQL	1

77-106-.15	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.58	NA		
77-106-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	136	mg/Kg	PQL	10
77-106-.15	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.21	mg/L	PQL	0.2
577-106-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	6.45	mg/L	PQL	1
577-106-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	168	mg/Kg	PQL	10
577-106-.45	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-106-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	8.55	mg/L	PQL	1
577-106-.75	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.35	mg/L	PQL	0.2
577-106-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	314	mg/Kg	PQL	10
577-106-.75	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-106-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	21.8	mg/L	PQL	1
577-106-.75 DUP	Associated Lab	1/2/03	Soil	TTLC EPA 7000 series	Lead	331	mg/Kg	PQL	10
577-106-000	Associated Lab	10/2/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-106-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-107-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.66	mg/L	PQL	0.2
577-107-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	716	mg/Kg	PQL	100
577-107-.15	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.21	mg/L	PQL	0.2
577-107-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	51	mg/L	PQL	1
577-107-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	35.6	mg/Kg	PQL	10
577-107-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	21.3	mg/Kg	PQL	10
577-107-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	21.6	mg/Kg	PQL	10
577-108-.15	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	3.85	mg/L	PQL	0.2
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	1.19	mg/Kg	PQL	0.5
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	135	mg/Kg	PQL	
77-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	1.6	mg/Kg	PQL	0.5
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	23.7	mg/Kg	PQL	
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	11.1	mg/Kg	PQL	0.5
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	44.2	mg/Kg	PQL	
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	1670	mg/Kg	PQL	0.5
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	2.43	mg/Kg	PQL	
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	20.9	mg/Kg	PQL	1.5
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.53	mg/Kg	PQL	
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	47.9	mg/Kg	PQL	0.
577-108-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	283	mg/Kg	PQL	
577-108-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	2120	mg/Kg	PQL	10
577-108-.15	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-108-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	96.6	mg/Kg	PQL	1
577-108-.45	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-108-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	6.75	mg/L	PQL	
577-108-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	11.6	mg/Kg	PQL	1
577-108-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	218	mg/Kg	PQL	1
577-108-1.50	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-108-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	15	mg/L	PQL	
577-109-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	ND	mg/L	PQL	0.
577-109-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	315	mg/Kg	PQL	1
577-109-.15	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0
577-109-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	18.8	mg/L	PQL	
577-109-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	ND	mg/L	PQL	0
577-109-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	292	mg/Kg	PQL	1
577-109-.45	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0

77-109-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	12.7	mg/L	PQL	1
7-109-.75	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-109-.75	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.93	NA		
577-109-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	372	mg/Kg	PQL	10
577-109-.75	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-109-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	19.7	mg/L	PQL	1
577-109-000	Associated Lab	10/2/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-109-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	72.1	mg/Kg	PQL	10
577-109-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	3.65	mg/L	PQL	1
577-110-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.67	mg/L	PQL	0.2
577-110-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	971	mg/Kg	PQL	100
577-110-.15	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-110-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	39.6	mg/L	PQL	1
577-110-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.35	mg/L	PQL	0.2
577-110-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	921	mg/Kg	PQL	100
577-110-.45	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-110-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	47.4	mg/L	PQL	1
577-110-.75	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	1.02	mg/L	PQL	0.2
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	80.2	mg/Kg	PQL	1
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	ND	mg/Kg	PQL	0.5
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	15.2	mg/Kg	PQL	1
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	10.4	mg/Kg	PQL	0.5
77-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	11.9	mg/Kg	PQL	1
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	601	mg/Kg	PQL	0.5
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	ND	mg/Kg	PQL	1
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	10.1	mg/Kg	PQL	1.5
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	2.9	mg/Kg	PQL	1
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	41.6	mg/Kg	PQL	0.5
577-110-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	191	mg/Kg	PQL	5
577-110-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	2130	mg/Kg	PQL	10
577-110-.75	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-110-.75	Associated Lab	10/25/02	Soil	STLC EPA 7000 series	Lead	40.9	mg/L	PQL	0.
577-110-.75	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-110-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	71.5	mg/Kg	PQL	1
577-110-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	3.95	mg/L	PQL	
577-111-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	ND	mg/L	PQL	0.
577-111-.15	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.57	NA		
577-111-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	355	mg/Kg	PQL	1
577-111-.15	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-111-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	19.1	mg/L	PQL	
577-111-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	117	mg/Kg	PQL	1
577-111-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	3.2	mg/L	PQL	
577-111-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	1
77-111-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	13.4	mg/Kg	PQL	1
577-112-.15	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	1.82	mg/L	PQL	0.
577-112-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	3920	mg/Kg	PQL	10
577-112-.45	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.22	NA		
577-112-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	32.4	mg/Kg	PQL	1
577-112-.75	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.61	mg/L	PQL	0.

77-112-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	394	mg/Kg	PQL	10
77-112-.75	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-112-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	27.4	mg/L	PQL	1
577-112-.75 DUP	Associated Lab	1/2/03	Soil	TTLC EPA 7000 series	Lead	395	mg/Kg	PQL	10
577-112-000	Associated Lab	10/2/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-112-1.50	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	0.8	mg/L	PQL	0.2
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	149	mg/Kg	PQL	1
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	0.775	mg/Kg	PQL	0.5
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	25.9	mg/Kg	PQL	1
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	13	mg/Kg	PQL	0.5
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	26.2	mg/Kg	PQL	1
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	865	mg/Kg	PQL	0.5
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	1.16	mg/Kg	PQL	1
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	15.7	mg/Kg	PQL	1.5
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.49	mg/Kg	PQL	1
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	57.3	mg/Kg	PQL	0.5
577-112-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	198	mg/Kg	PQL	1
577-112-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	1260	mg/Kg	PQL	100
577-112-1.50	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
77-113-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.52	mg/L	PQL	0.
577-113-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	404	mg/Kg	PQL	1
577-113-.15	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-113-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	26.4	mg/L	PQL	
577-113-.45	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	1.08	mg/L	PQL	0.
577-113-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	2120	mg/Kg	PQL	10
577-113-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	159	mg/Kg	PQL	1
577-113-.75	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-113-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	8.95	mg/L	PQL	
577-113-1.50	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.7	mg/L	PQL	0.
577-113-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	902	mg/Kg	PQL	1
577-113-1.50	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-113-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	55.5	mg/L	PQL	
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	2.34	mg/Kg	PQL	0.
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	85.1	mg/Kg	PQL	
577-114-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	0.54	mg/Kg	PQL	0.
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	2.68	mg/Kg	PQL	0.
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	16.8	mg/Kg	PQL	
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	8.02	mg/Kg	PQL	0.
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	14.3	mg/Kg	PQL	
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	6.95	mg/Kg	PQL	0.
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	7.3	mg/Kg	PQL	
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	18.2	mg/Kg	PQL	1.
577-114-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	2.44	mg/Kg	PQL	
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	54.2	mg/Kg	PQL	0
577-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	52.5	mg/Kg	PQL	
577-114-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	13.1	mg/Kg	PQL	1

77-114-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
7-114-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
77-114-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-114-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	13.9	mg/Kg	PQL	10
577-115-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	47.7	mg/Kg	PQL	10
577-115-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-115-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	10.8	mg/Kg	PQL	10
577-115-000	Associated Lab	10/2/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-115-1.50	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.6	NA		
577-115-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-116-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.77	mg/L	PQL	0.2
577-116-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	976	mg/Kg	PQL	100
577-116-.15	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-116-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	54.7	mg/L	PQL	2
577-116-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.46	mg/L	PQL	0.2
577-116-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	453	mg/Kg	PQL	10
577-116-.45	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-116-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	33	mg/L	PQL	1
577-116-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	144	mg/Kg	PQL	10
577-116-.75	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-116-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	8.85	mg/L	PQL	1
577-116-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-117-.15	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.1	NA		
577-117-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	24.3	mg/Kg	PQL	10
7-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
77-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	1.25	mg/Kg	PQL	0.5
577-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	122	mg/Kg	PQL	1
577-117-.45	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	0.57	mg/Kg	PQL	0.5
577-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	0.581	mg/Kg	PQL	0.5
577-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	22.3	mg/Kg	PQL	1
577-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	9.55	mg/Kg	PQL	0.5
577-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	19.5	mg/Kg	PQL	1
577-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	98.9	mg/Kg	PQL	0.5
577-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	1.49	mg/Kg	PQL	1
577-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	14.7	mg/Kg	PQL	1.5
577-117-.45	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	2.3	mg/Kg	PQL	1
577-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	49.8	mg/Kg	PQL	0.5
577-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	91.5	mg/Kg	PQL	5
577-117-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	99	mg/Kg	PQL	10
577-117-.45	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-117-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	5.35	mg/L	PQL	1
577-117-.45	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-117-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	33.6	mg/Kg	PQL	10
577-117-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	16.1	mg/Kg	PQL	10
577-118-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.41	mg/L	PQL	0.2
77-118-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	467	mg/Kg	PQL	10
7-118-.15	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
77-118-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	24.6	mg/L	PQL	
577-118-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	41.7	mg/Kg	PQL	10
577-118-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	84.3	mg/Kg	PQL	10
577-118-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	4.25	mg/L	PQL	
577-118-000	Associated Lab	10/2/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.

577-118-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	125	mg/Kg	PQL	10
577-118-1.50	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-118-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	7.25	mg/L	PQL	1
577-119-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	69.4	mg/Kg	PQL	10
577-119-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	3.2	mg/L	PQL	1
577-119-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	63.6	mg/Kg	PQL	10
577-119-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	0.5	mg/L	PQL	1
577-119-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	17.2	mg/Kg	PQL	10
577-119-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	96.5	mg/Kg	PQL	10
577-119-1.50	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-119-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	5.9	mg/L	PQL	1
577-120-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.54	mg/L	PQL	0.2
577-120-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	412	mg/Kg	PQL	10
577-120-.15	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-120-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	19.4	mg/L	PQL	1
577-120-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	24.5	mg/Kg	PQL	10
577-120-.75	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	8.42	NA		
577-120-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	28.8	mg/Kg	PQL	10
577-120-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	23.6	mg/Kg	PQL	10
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	2.34	mg/Kg	PQL	0.5
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	91.3	mg/Kg	PQL	1
577-121-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	0.61	mg/Kg	PQL	0.5
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	2.19	mg/Kg	PQL	0.5
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	20.5	mg/Kg	PQL	1
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	9.71	mg/Kg	PQL	0.5
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	22	mg/Kg	PQL	1
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	80.7	mg/Kg	PQL	0.5
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	2.81	mg/Kg	PQL	
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	16.5	mg/Kg	PQL	1.5
577-121-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	2.52	mg/Kg	PQL	
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	58.3	mg/Kg	PQL	0.
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	77.9	mg/Kg	PQL	
577-121-.15	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	99	mg/Kg	PQL	1
577-121-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	4.2	mg/L	PQL	
577-121-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-121-.45	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	17.1	mg/Kg	PQL	1
577-121-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	25.9	mg/Kg	PQL	1
577-121-000	Associated Lab	10/2/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.
577-121-1.50	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	46.2	mg/Kg	PQL	1
577-122-.15	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	7.24	NA		
577-122-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	146	mg/Kg	PQL	1
577-122-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.4	mg/L	PQL	0.
577-122-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	7.75	mg/L	PQL	
577-122-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	179	mg/Kg	PQL	1
577-122-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.53	mg/L	PQL	0.
577-122-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	15.6	mg/L	PQL	
577-122-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	74	mg/Kg	PQL	1
577-122-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	3.5	mg/L	PQL	
577-122-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	1
577-123-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	153	mg/Kg	PQL	1
577-123-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.27	mg/L	PQL	0

77-123-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	6.7	mg/L	PQL	1
7-123-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	53	mg/Kg	PQL	10
7-123-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	1.35	mg/L	PQL	1
577-123-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	79.6	mg/Kg	PQL	10
577-123-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	2.8	mg/L	PQL	1
577-123-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	113	mg/Kg	PQL	10
577-123-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.4	mg/L	PQL	0.2
577-123-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	5.65	mg/L	PQL	1
577-124-.15	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	3.07	mg/L	PQL	0.2
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	172	mg/Kg	PQL	1
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	1.49	mg/Kg	PQL	0.5
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	24.3	mg/Kg	PQL	1
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	12.5	mg/Kg	PQL	0.5
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	35.6	mg/Kg	PQL	1
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	1840	mg/Kg	PQL	0.5
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	2.1	mg/Kg	PQL	1
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	16.1	mg/Kg	PQL	1.5
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.43	mg/Kg	PQL	1
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	55.8	mg/Kg	PQL	0.5
7-124-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	242	mg/Kg	PQL	5
77-124-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	1900	mg/Kg	PQL	100
577-124-.15	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-124-.45	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	3.72	mg/L	PQL	0.2
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	178	mg/Kg	PQL	1
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	1.57	mg/Kg	PQL	0.5
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	27.2	mg/Kg	PQL	1
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	11.8	mg/Kg	PQL	0.5
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	45.4	mg/Kg	PQL	1
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	2530	mg/Kg	PQL	0.5
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	1.92	mg/Kg	PQL	1
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	16.9	mg/Kg	PQL	1.5
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.25	mg/Kg	PQL	1
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	52.3	mg/Kg	PQL	0.5
577-124-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	309	mg/Kg	PQL	5
577-124-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	3080	mg/Kg	PQL	100
577-124-.45	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-124-.75	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	3.34	mg/L	PQL	0.2
577-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	
77-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
77-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	183	mg/Kg	PQL	
577-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	1.69	mg/Kg	PQL	0.5
577-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	27.1	mg/Kg	PQL	
577-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	12	mg/Kg	PQL	0.

7-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	49.6	mg/Kg	PQL	1
7-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	2660	mg/Kg	PQL	0.5
7-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	2.62	mg/Kg	PQL	1
577-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	17.9	mg/Kg	PQL	1.5
577-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.53	mg/Kg	PQL	1
577-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	58.9	mg/Kg	PQL	0.5
577-124-.75	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	322	mg/Kg	PQL	5
577-124-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	3070	mg/Kg	PQL	100
577-124-.75	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-124-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-124-1.50	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	3.2	mg/L	PQL	0.2
577-124-1.50	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	7	NA		
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	206	mg/Kg	PQL	1
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	1.87	mg/Kg	PQL	0.5
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	26.9	mg/Kg	PQL	
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	11.7	mg/Kg	PQL	0.5
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	46	mg/Kg	PQL	
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	2960	mg/Kg	PQL	0.5
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	2.09	mg/Kg	PQL	
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	22.5	mg/Kg	PQL	1.5
7-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.4	mg/Kg	PQL	
77-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	55.2	mg/Kg	PQL	0.5
577-124-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	310	mg/Kg	PQL	
577-124-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	3390	mg/Kg	PQL	10
577-124-1.50	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-125-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	142	mg/Kg	PQL	1
577-125-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.26	mg/L	PQL	0.
577-125-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	7	mg/L	PQL	
577-125-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.95	mg/L	PQL	0.
577-125-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	490	mg/Kg	PQL	1
577-125-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	1.27	mg/L	PQL	0.
577-125-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	24.7	mg/L	PQL	0.
577-125-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	13.4	mg/Kg	PQL	1
577-125-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	96.1	mg/Kg	PQL	1
577-125-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	4.6	mg/L	PQL	
577-126-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.37	mg/L	PQL	0.
577-126-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	314	mg/Kg	PQL	1
577-126-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-126-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	16.3	mg/L	PQL	
577-126-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	139	mg/Kg	PQL	1
577-126-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	4.6	mg/L	PQL	
77-126-.75	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	7.36	NA		
577-126-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	195	mg/Kg	PQL	1
577-126-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-126-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	10.9	mg/L	PQL	
577-126-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	107	mg/Kg	PQL	1
577-126-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0

577-126-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	5.7	mg/L	PQL	1
577-127-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	49.5	mg/Kg	PQL	10
577-127-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	226	mg/Kg	PQL	10
577-127-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-127-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	12.1	mg/L	PQL	1
577-127-.75	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.81	mg/L	PQL	0.2
577-127-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	475	mg/Kg	PQL	10
577-127-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.36	mg/L	PQL	0.2
577-127-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	34.7	mg/L	PQL	1
577-127-.75	Associated Lab	1/2/03	Soil	TTLC EPA 7000 series	Lead	421	mg/Kg	PQL	10
577-127-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-127-1.50	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.58	mg/L	PQL	0.2
577-127-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	441	mg/Kg	PQL	10
577-127-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.23	mg/L	PQL	0.2
577-127-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	24.3	mg/L	PQL	1
577-128-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.57	mg/L	PQL	0.2
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Barium	134	mg/Kg	PQL	1
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Beryllium	0.53	mg/Kg	PQL	0.5
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Cadmium	3.4	mg/Kg	PQL	0.5
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Chromium	25.9	mg/Kg	PQL	1
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Cobalt	10.4	mg/Kg	PQL	0.5
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Copper	41.9	mg/Kg	PQL	1
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Lead	746	mg/Kg	PQL	0.5
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Molybdenum	2.06	mg/Kg	PQL	1
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Nickel	22.3	mg/Kg	PQL	1.5
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Selenium	1.32	mg/Kg	PQL	1
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Vanadium	49.3	mg/Kg	PQL	0.5
577-128-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Zinc	202	mg/Kg	PQL	5
577-128-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	911	mg/Kg	PQL	10
577-128-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	1.12	mg/L	PQL	0.2
577-128-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	40.5	mg/L	PQL	0.2
577-128-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-128-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	39.1	mg/Kg	PQL	10
577-128-.75	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-128-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	259	mg/Kg	PQL	10
577-128-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.29	mg/L	PQL	0.2
577-128-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	14	mg/L	PQL	
577-128-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	159	mg/Kg	PQL	10
577-128-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-128-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	7.35	mg/L	PQL	
577-129-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	147	mg/Kg	PQL	10
577-129-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-129-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	7.9	mg/L	PQL	
577-129-.45	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	8.03	NA		
577-129-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	20	mg/Kg	PQL	1
577-129-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	17.5	mg/Kg	PQL	1
577-129-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.
577-129-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	35	mg/Kg	PQL	1
577-136-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.56	mg/L	PQL	0.
577-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	

7-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	3.98	mg/Kg	PQL	0.5
7-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	78.7	mg/Kg	PQL	1
77-136-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	0.51	mg/Kg	PQL	0.5
577-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	2.14	mg/Kg	PQL	0.5
577-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	17.3	mg/Kg	PQL	1
577-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	8.7	mg/Kg	PQL	0.5
577-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	32.6	mg/Kg	PQL	1
577-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	270	mg/Kg	PQL	0.5
577-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	2.76	mg/Kg	PQL	1
577-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	15.4	mg/Kg	PQL	1.5
577-136-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	2.48	mg/Kg	PQL	1
577-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	50.8	mg/Kg	PQL	0.5
577-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	102	mg/Kg	PQL	5
577-136-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	318	mg/Kg	PQL	10
577-136-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.1
577-136-.15	Associated Lab	10/11/02	Soil	STLC EPA 7000 series	Lead	20.6	mg/L	PQL	1
577-136-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-136-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	133	mg/Kg	PQL	10
577-136-.45	Associated Lab	10/11/02	Soil	STLC EPA 7000 series	Lead	4.05	mg/L	PQL	1
577-136-.75	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	7.64	NA		
577-136-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	69	mg/Kg	PQL	10
577-136-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.1
7-136-.75	Associated Lab	10/11/02	Soil	STLC EPA 7000 series	Lead	5.15	mg/L	PQL	1
77-136-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.
577-136-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	229	mg/Kg	PQL	1
577-136-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-136-1.50	Associated Lab	10/11/02	Soil	STLC EPA 7000 series	Lead	13.8	mg/L	PQL	1
577-137-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	98.5	mg/Kg	PQL	1
577-137-.15	Associated Lab	10/11/02	Soil	STLC EPA 7000 series	Lead	3.9	mg/L	PQL	1
577-137-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	14.1	mg/Kg	PQL	1
577-137-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	20.5	mg/Kg	PQL	1
577-137-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	16.7	mg/Kg	PQL	1
577-138-.15	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	6.5	NA		
577-138-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	68.6	mg/Kg	PQL	1
577-138-.15	Associated Lab	10/11/02	Soil	STLC EPA 7000 series	Lead	2.8	mg/L	PQL	1
577-138-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	18	mg/Kg	PQL	1
577-138-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	20.8	mg/Kg	PQL	1
577-138-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	34	mg/Kg	PQL	1
577-139-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.59	mg/L	PQL	0.
577-139-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	837	mg/Kg	PQL	1
577-139-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.51	mg/L	PQL	0.
577-139-.15	Associated Lab	10/11/02	Soil	STLC EPA 7000 series	Lead	46.1	mg/L	PQL	1
577-139-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	70.5	mg/Kg	PQL	1
577-139-.45	Associated Lab	10/11/02	Soil	STLC EPA 7000 series	Lead	4.4	mg/L	PQL	1
577-139-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	159	mg/Kg	PQL	1
577-139-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0
77-139-.75	Associated Lab	10/11/02	Soil	STLC EPA 7000 series	Lead	10.6	mg/L	PQL	1
77-139-000	Associated Lab	10/3/02	Water	PH EPA 150.1	pH	8.09	NA		
577-139-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0
577-139-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	138	mg/Kg	PQL	1
577-139-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0
577-139-1.50	Associated Lab	10/11/02	Soil	STLC EPA 7000 series	Lead	11.6	mg/L	PQL	1

7-140-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	247	mg/Kg	PQL	10
7-140-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
77-140-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	13.4	mg/L	PQL	1
577-140-.45	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	0.74	mg/L	PQL	0.2
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	3.29	mg/Kg	PQL	0.5
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	83.5	mg/Kg	PQL	1
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	4.69	mg/Kg	PQL	0.5
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	22.8	mg/Kg	PQL	1
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	8.97	mg/Kg	PQL	0.5
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	34.2	mg/Kg	PQL	1
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	1260	mg/Kg	PQL	0.5
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	3.31	mg/Kg	PQL	1
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	18.3	mg/Kg	PQL	1.5
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.76	mg/Kg	PQL	1
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	52.5	mg/Kg	PQL	0.5
577-140-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	238	mg/Kg	PQL	5
577-140-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	1620	mg/Kg	PQL	100
577-140-.45	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-140-.75	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.75	mg/L	PQL	0.2
577-140-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	726	mg/Kg	PQL	100
7-140-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-140-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	26	mg/L	PQL	1
577-140-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	14.4	mg/Kg	PQL	10
577-141-.15	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	1.17	mg/L	PQL	0.2
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	0.977	mg/Kg	PQL	0.5
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	133	mg/Kg	PQL	1
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	2.86	mg/Kg	PQL	0.5
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	27.2	mg/Kg	PQL	
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	8.87	mg/Kg	PQL	0.5
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	49	mg/Kg	PQL	
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	2440	mg/Kg	PQL	0.5
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	2.8	mg/Kg	PQL	
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	21.8	mg/Kg	PQL	1.5
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.49	mg/Kg	PQL	
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	43.1	mg/Kg	PQL	0.
577-141-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	407	mg/Kg	PQL	
577-141-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	2970	mg/Kg	PQL	10
577-141-.15	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-141-.45	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	0.95	mg/L	PQL	0.
577-141-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	1700	mg/Kg	PQL	10
77-141-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	163	mg/Kg	PQL	1
577-141-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-141-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	10.2	mg/L	PQL	
577-141-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.
577-141-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	91.8	mg/Kg	PQL	1
577-141-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	3.9	mg/L	PQL	

577-142-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.62	mg/L	PQL	0.2
577-142-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	973	mg/Kg	PQL	10
577-142-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.25	mg/L	PQL	0.2
577-142-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	69.4	mg/L	PQL	2
577-142-.15	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	0.7	mg/L	PQL	0.2
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	1.83	mg/Kg	PQL	0.5
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	133	mg/Kg	PQL	1
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	2.7	mg/Kg	PQL	0.5
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	25.2	mg/Kg	PQL	1
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	8.69	mg/Kg	PQL	0.5
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	56.7	mg/Kg	PQL	1
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	1830	mg/Kg	PQL	0.5
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	3.45	mg/Kg	PQL	1
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	22.1	mg/Kg	PQL	1.5
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.71	mg/Kg	PQL	1
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	42.6	mg/Kg	PQL	0.5
577-142-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	466	mg/Kg	PQL	5
577-142-.45	Associated Lab	10/21/02	Soil	TTLC EPA 7000 series	Lead	2240	mg/Kg	PQL	100
577-142-.45	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-142-.75	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.94	NA		
577-142-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	120	mg/Kg	PQL	10
577-142-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-142-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	7.05	mg/L	PQL	1
577-142-1.50	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	0.68	mg/L	PQL	0.2
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	3.77	mg/Kg	PQL	0.5
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	98.2	mg/Kg	PQL	1
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	2.86	mg/Kg	PQL	0.5
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	25.6	mg/Kg	PQL	1
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	9.26	mg/Kg	PQL	0.5
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	134	mg/Kg	PQL	1
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	1120	mg/Kg	PQL	0.5
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	3.51	mg/Kg	PQL	1
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	24	mg/Kg	PQL	1.5
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.46	mg/Kg	PQL	1
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	47.9	mg/Kg	PQL	0.5
577-142-1.50	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	351	mg/Kg	PQL	5
577-142-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	1320	mg/Kg	PQL	100
577-142-1.50	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-143-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-143-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	269	mg/Kg	PQL	10
577-143-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-143-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	8.35	mg/L	PQL	
577-143-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.39	mg/L	PQL	0.2
577-143-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	804	mg/Kg	PQL	100
577-143-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.62	mg/L	PQL	0.2
577-143-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	78.9	mg/L	PQL	

77-143-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	12.5	mg/Kg	PQL	10
7-143-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
77-144-.15	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	0.76	mg/L	PQL	0.2
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	1.27	mg/Kg	PQL	0.5
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	131	mg/Kg	PQL	1
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	2.25	mg/Kg	PQL	0.5
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	28.3	mg/Kg	PQL	1
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	10.6	mg/Kg	PQL	0.5
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	52.8	mg/Kg	PQL	1
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	1560	mg/Kg	PQL	0.5
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	3.28	mg/Kg	PQL	1
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	23.2	mg/Kg	PQL	1.5
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	4.11	mg/Kg	PQL	1
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	48.9	mg/Kg	PQL	0.5
577-144-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	407	mg/Kg	PQL	5
577-144-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	1490	mg/Kg	PQL	100
577-144-.15	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-144-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.23	mg/L	PQL	0.2
577-144-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	338	mg/Kg	PQL	10
577-144-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
77-144-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	14.4	mg/L	PQL	1
577-144-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	35.1	mg/Kg	PQL	10
577-144-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-144-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	39.8	mg/Kg	PQL	10
577-145-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.57	mg/L	PQL	0.2
577-145-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	655	mg/Kg	PQL	100
577-145-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.25	mg/L	PQL	0.
577-145-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	43.8	mg/L	PQL	
577-145-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	245	mg/Kg	PQL	1
577-145-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	1.14	mg/L	PQL	0.
577-145-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	14	mg/L	PQL	
577-145-.75	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.03	NA		
577-145-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	211	mg/Kg	PQL	1
577-145-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-145-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	8.5	mg/L	PQL	
577-145-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	12.3	mg/Kg	PQL	1
577-146-.15	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	0.63	mg/L	PQL	0.
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	1.43	mg/Kg	PQL	0.
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	166	mg/Kg	PQL	
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	0.525	mg/Kg	PQL	0.
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	2.15	mg/Kg	PQL	0.
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	23.7	mg/Kg	PQL	
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	11.3	mg/Kg	PQL	0.
77-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	33.2	mg/Kg	PQL	
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	1150	mg/Kg	PQL	0.
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	2.44	mg/Kg	PQL	
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	18.4	mg/Kg	PQL	1
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	4.03	mg/Kg	PQL	
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0

577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	54.1	mg/Kg	PQL	0.5
577-146-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	232	mg/Kg	PQL	5
577-146-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	1320	mg/Kg	PQL	100
577-146-.15	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-146-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-146-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	253	mg/Kg	PQL	10
577-146-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	4.7	mg/L	PQL	1
577-146-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	30.8	mg/Kg	PQL	10
577-146-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	96.5	mg/Kg	PQL	10
577-146-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	4.45	mg/L	PQL	1
577-147-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	231	mg/Kg	PQL	10
577-147-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-147-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	13.3	mg/L	PQL	1
577-147-.45	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.6	NA		
577-147-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	19.9	mg/Kg	PQL	10
577-147-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	30.6	mg/Kg	PQL	10
577-147-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-147-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	128	mg/Kg	PQL	10
577-147-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-147-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	8.7	mg/L	PQL	1
577-148-.15	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	2.52	mg/L	PQL	0.2
577-148-.15	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7	NA		
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	172	mg/Kg	PQL	3
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	1.79	mg/Kg	PQL	0.5
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	29.9	mg/Kg	PQL	
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	11.3	mg/Kg	PQL	0.5
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	82.7	mg/Kg	PQL	
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	3070	mg/Kg	PQL	0.5
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	2.62	mg/Kg	PQL	
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	21	mg/Kg	PQL	1.5
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.56	mg/Kg	PQL	
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	2.31	mg/Kg	PQL	0.
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	51.7	mg/Kg	PQL	0.
577-148-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	396	mg/Kg	PQL	
577-148-.15	Associated Lab	10/21/02	Soil	TTLC EPA 7000 series	Lead	3510	mg/Kg	PQL	10
577-148-.15	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-148-.45	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	2.23	mg/L	PQL	0.
577-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	
577-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.
577-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	197	mg/Kg	PQL	
577-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.
577-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	1.93	mg/Kg	PQL	0.
577-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	30.4	mg/Kg	PQL	
577-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	11.7	mg/Kg	PQL	0.
577-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	59.4	mg/Kg	PQL	
577-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	2380	mg/Kg	PQL	0.
577-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	3.07	mg/Kg	PQL	
577-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	26.7	mg/Kg	PQL	1.
577-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.51	mg/Kg	PQL	

77-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
7-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
7-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	51.1	mg/Kg	PQL	0.5
577-148-.45	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	415	mg/Kg	PQL	5
577-148-.45	Associated Lab	10/21/02	Soil	TTLC EPA 7000 series	Lead	2840	mg/Kg	PQL	100
577-148-.45	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-148-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	130	mg/Kg	PQL	10
577-148-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-148-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	8.8	mg/L	PQL	1
577-148-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	40.1	mg/Kg	PQL	10
577-149-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.79	mg/L	PQL	0.2
577-149-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	470	mg/Kg	PQL	10
577-149-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.29	mg/L	PQL	0.2
577-149-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	43	mg/L	PQL	1
577-149-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	56.9	mg/Kg	PQL	10
577-149-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	2.4	mg/L	PQL	1
577-149-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	90.5	mg/Kg	PQL	10
577-149-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	4.9	mg/L	PQL	1
577-149-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	43.9	mg/Kg	PQL	10
577-150-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	35.2	mg/Kg	PQL	10
577-150-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	24.3	mg/Kg	PQL	10
577-150-.75	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.27	mg/L	PQL	0.2
577-150-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	282	mg/Kg	PQL	10
577-150-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
7-150-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	17.1	mg/L	PQL	1
77-150-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-150-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	14.6	mg/Kg	PQL	10
577-151-.15	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.32	NA		
577-151-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	155	mg/Kg	PQL	10
577-151-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-151-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	10.4	mg/L	PQL	1
577-151-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	14.5	mg/Kg	PQL	10
577-151-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	126	mg/Kg	PQL	10
577-151-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-151-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	8.6	mg/L	PQL	1
577-151-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	221	mg/Kg	PQL	10
577-151-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-151-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	13.4	mg/L	PQL	1
577-152-.15	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	0.74	mg/L	PQL	0.2
577-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	1
577-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	2.34	mg/Kg	PQL	0.5
577-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	116	mg/Kg	PQL	
577-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	1.82	mg/Kg	PQL	0.5
577-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	25.2	mg/Kg	PQL	
577-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	8.04	mg/Kg	PQL	0.5
577-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	46	mg/Kg	PQL	
577-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	1030	mg/Kg	PQL	0.
77-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	3.23	mg/Kg	PQL	
77-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	24	mg/Kg	PQL	1.
577-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	4.21	mg/Kg	PQL	
577-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.
577-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	51.3	mg/Kg	PQL	0.

7-152-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	235	mg/Kg	PQL	5
7-152-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	1180	mg/Kg	PQL	100
7-152-.15	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	0.23	mg/Kg	PQL	0.14
577-152-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	140	mg/Kg	PQL	10
577-152-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-152-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	8.8	mg/L	PQL	1
577-152-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-152-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	133	mg/Kg	PQL	10
577-152-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-152-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	8.35	mg/L	PQL	1
577-153-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	128	mg/Kg	PQL	10
577-153-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-153-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	8.7	mg/L	PQL	1
577-153-.45	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	6.7	NA		
577-153-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	10.2	mg/Kg	PQL	10
577-153-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	13.2	mg/Kg	PQL	10
577-153-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-153-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	14.7	mg/Kg	PQL	10
577-154-.15	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.51	NA		
577-154-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	63.8	mg/Kg	PQL	10
577-154-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	2.8	mg/L	PQL	1
577-154-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	117	mg/Kg	PQL	10
577-154-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-154-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	7.9	mg/L	PQL	1
7-154-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
77-154-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	19.2	mg/Kg	PQL	10
577-155-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.23	mg/L	PQL	0.2
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	6.17	mg/Kg	PQL	0.5
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	93	mg/Kg	PQL	1
577-155-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	0.53	mg/Kg	PQL	0.5
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	1.8	mg/Kg	PQL	0.5
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	21.6	mg/Kg	PQL	1
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	9.09	mg/Kg	PQL	0.5
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	42.7	mg/Kg	PQL	1
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	266	mg/Kg	PQL	0.5
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	3.54	mg/Kg	PQL	
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	16.4	mg/Kg	PQL	1.5
577-155-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	2.76	mg/Kg	PQL	
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	58.7	mg/Kg	PQL	0.5
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	120	mg/Kg	PQL	
577-155-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	260	mg/Kg	PQL	1
577-155-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.27	mg/L	PQL	0.
577-155-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	16.9	mg/L	PQL	
577-155-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-155-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	1
77-155-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	229	mg/Kg	PQL	1
77-155-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-155-.75	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	15.8	mg/L	PQL	
577-155-1.50	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.39	mg/L	PQL	0.
577-155-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	332	mg/Kg	PQL	1
577-155-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.32	mg/L	PQL	0.

77-155-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	20	mg/L	PQL	1
7-156-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	41.5	mg/Kg	PQL	10
7-156-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	21.3	mg/Kg	PQL	10
577-156-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	14.4	mg/Kg	PQL	10
577-156-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-156-1.50	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-156-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	288	mg/Kg	PQL	10
577-156-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-156-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	14.2	mg/L	PQL	1
577-157-.15	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	7.34	NA		
577-157-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	46.6	mg/Kg	PQL	10
577-157-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	151	mg/Kg	PQL	10
577-157-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.2	mg/L	PQL	0.2
577-157-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	6.4	mg/L	PQL	1
577-158-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	120	mg/Kg	PQL	10
577-158-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-158-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	7	mg/L	PQL	1
577-158-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	34.2	mg/Kg	PQL	10
577-158-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	17.6	mg/Kg	PQL	10
577-158-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	19.7	mg/Kg	PQL	10
577-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	1.7	mg/Kg	PQL	0.5
577-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	108	mg/Kg	PQL	1
577-159-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	0.61	mg/Kg	PQL	0.5
77-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	0.719	mg/Kg	PQL	0.5
77-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	18.3	mg/Kg	PQL	1
577-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	9.73	mg/Kg	PQL	0.5
577-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	18.8	mg/Kg	PQL	
577-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	56.3	mg/Kg	PQL	0.5
577-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	1.96	mg/Kg	PQL	
577-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	14.1	mg/Kg	PQL	1.5
577-159-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	1.97	mg/Kg	PQL	
577-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	51.3	mg/Kg	PQL	0.5
577-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	52.7	mg/Kg	PQL	
577-159-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	70.3	mg/Kg	PQL	1
577-159-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	1.85	mg/L	PQL	
577-159-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-159-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	56	mg/Kg	PQL	1
577-159-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	3	mg/L	PQL	
577-159-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	18.6	mg/Kg	PQL	1
577-159-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.
577-159-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	19	mg/Kg	PQL	1
577-160-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	104	mg/Kg	PQL	1
577-160-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	3.05	mg/L	PQL	
577-160-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	30	mg/Kg	PQL	1
577-160-.75	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	8.42	NA		
77-160-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	1
77-160-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	193	mg/Kg	PQL	1
577-160-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.46	mg/L	PQL	0.
577-160-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	12.6	mg/L	PQL	
577-161-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	125	mg/Kg	PQL	1
577-161-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.

77-161-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	10.8	mg/L	PQL	1
7-161-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	14.5	mg/Kg	PQL	10
77-161-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-161-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	152	mg/Kg	PQL	1
577-162-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	ND	mg/Kg	PQL	0.5
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	17.3	mg/Kg	PQL	1
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	11.5	mg/Kg	PQL	0.5
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	20.2	mg/Kg	PQL	1
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	219	mg/Kg	PQL	0.5
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	ND	mg/Kg	PQL	1
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	10.5	mg/Kg	PQL	1.5
577-162-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	1.62	mg/Kg	PQL	1
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	47.6	mg/Kg	PQL	0.5
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	136	mg/Kg	PQL	5
577-162-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	245	mg/Kg	PQL	10
577-162-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.54	mg/L	PQL	0.2
577-162-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	13.5	mg/L	PQL	1
577-162-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
7-162-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	78.4	mg/Kg	PQL	10
77-162-.45	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	4.55	mg/L	PQL	1
577-162-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	46.1	mg/Kg	PQL	10
577-162-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-162-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	226	mg/Kg	PQL	10
577-162-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.23	mg/L	PQL	0.2
577-162-1.50	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	15.2	mg/L	PQL	1
577-163-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	92.8	mg/Kg	PQL	10
577-163-.15	Associated Lab	10/10/02	Soil	STLC EPA 7000 series	Lead	4.2	mg/L	PQL	1
577-163-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	17.3	mg/Kg	PQL	10
577-163-.75	Associated Lab	10/2/02	Soil	PH EPA 9045	pH	8.41	NA		
577-163-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-163-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-170-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.77	mg/L	PQL	0.2
577-170-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	414	mg/Kg	PQL	10
577-170-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-170-.15	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	30.8	mg/L	PQL	
577-170-.45	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	8.12	NA		
577-170-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	54.9	mg/Kg	PQL	10
577-170-.45	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	3.2	mg/L	PQL	
577-170-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	27.5	mg/Kg	PQL	1
577-170-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.
577-170-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	20.2	mg/Kg	PQL	1
577-171-.15	Associated Lab	10/8/02	Soil	TCLP EPA 7000 series	Lead	0.55	mg/L	PQL	0.
77-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	
77-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.
577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	192	mg/Kg	PQL	
577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.
577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	0.958	mg/Kg	PQL	0.
577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	24.7	mg/Kg	PQL	

577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	13.5	mg/Kg	PQL	0.5
577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	33.5	mg/Kg	PQL	1
577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	621	mg/Kg	PQL	0.5
577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	1.68	mg/Kg	PQL	1
577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	15.7	mg/Kg	PQL	1.5
577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	4.19	mg/Kg	PQL	1
577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	64	mg/Kg	PQL	0.5
577-171-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	173	mg/Kg	PQL	5
577-171-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	1020	mg/Kg	PQL	100
577-171-.15	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-171-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-171-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	630	mg/Kg	PQL	100
577-171-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-171-.45	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	27.6	mg/L	PQL	
577-171-.75	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-171-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	396	mg/Kg	PQL	10
577-171-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-171-.75	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	24.4	mg/L	PQL	
577-171-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-171-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	27.4	mg/Kg	PQL	10
577-172-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	114	mg/Kg	PQL	10
577-172-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-172-.15	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	9	mg/L	PQL	0.2
577-172-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	146	mg/Kg	PQL	10
577-172-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-172-.45	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	7.75	mg/L	PQL	
577-172-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	1
577-172-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	149	mg/Kg	PQL	1
577-172-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-172-1.50	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	8.6	mg/L	PQL	
577-173-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.3	mg/L	PQL	0.
577-173-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	766	mg/Kg	PQL	10
577-173-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-173-.15	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	33.7	mg/L	PQL	
577-173-.15 Dup	Associated Lab	1/9/03	Soil	TTLC EPA 7000 series	Lead	378	mg/Kg	PQL	1
577-173-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	81.9	mg/Kg	PQL	1
577-173-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-173-.45	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	5.15	mg/L	PQL	
577-173-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	56.4	mg/Kg	PQL	1
577-173-.75	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	2.2	mg/L	PQL	
577-173-1.50	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	7.69	NA		
577-173-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	61.2	mg/Kg	PQL	1
577-173-1.50	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-173-1.50	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	7.8	mg/L	PQL	
577-174-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.55	mg/L	PQL	0.
577-174-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	745	mg/Kg	PQL	10
577-174-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0
577-174-.15	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	29.8	mg/L	PQL	
577-174-.15 Dup	Associated Lab	1/9/03	Soil	TTLC EPA 7000 series	Lead	466	mg/Kg	PQL	1
577-174-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	224	mg/Kg	PQL	1
577-174-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0
577-174-.45	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	17	mg/L	PQL	

77-174-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	110	mg/Kg	PQL	10
7-174-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
7-174-.75	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	11.8	mg/L	PQL	1
577-174-.75	Associated Lab	1/2/03	Soil	TTLC EPA 7000 series	Lead	209	mg/Kg	PQL	10
577-174-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-174-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	26.2	mg/Kg	PQL	10
577-175-.15	Associated Lab	10/8/02	Soil	TCLP EPA 7000 series	Lead	1.63	mg/L	PQL	0.2
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	2.26	mg/Kg	PQL	0.5
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	161	mg/Kg	PQL	1
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	1.39	mg/Kg	PQL	0.5
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	25.8	mg/Kg	PQL	1
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	10.7	mg/Kg	PQL	0.5
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	68.7	mg/Kg	PQL	1
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	1550	mg/Kg	PQL	0.5
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	3.12	mg/Kg	PQL	1
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	18.4	mg/Kg	PQL	1.5
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.72	mg/Kg	PQL	1
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	48.3	mg/Kg	PQL	0.5
577-175-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	314	mg/Kg	PQL	1
577-175-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	2090	mg/Kg	PQL	100
77-175-.15	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
77-175-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	141	mg/Kg	PQL	10
577-175-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-175-.45	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	9.05	mg/L	PQL	
577-175-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	24.4	mg/Kg	PQL	1
577-175-1.50	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.56	mg/L	PQL	0.
577-175-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	811	mg/Kg	PQL	10
577-175-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-175-1.50	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	43.8	mg/L	PQL	
577-176-.15	Associated Lab	10/8/02	Soil	TCLP EPA 7000 series	Lead	0.99	mg/L	PQL	0.
577-176-.15	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	7.57	NA		
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	4.04	mg/Kg	PQL	
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	5.28	mg/Kg	PQL	0.
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	167	mg/Kg	PQL	
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	1.61	mg/Kg	PQL	0.
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	28.9	mg/Kg	PQL	
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	11.1	mg/Kg	PQL	0.
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	122	mg/Kg	PQL	
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	1750	mg/Kg	PQL	0.
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	6.12	mg/Kg	PQL	
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	20.6	mg/Kg	PQL	1.
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	4.76	mg/Kg	PQL	
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	51.4	mg/Kg	PQL	0
577-176-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	434	mg/Kg	PQL	
577-176-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	2440	mg/Kg	PQL	10
577-176-.15	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-176-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	47.5	mg/Kg	PQL	1

7-176-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	59.2	mg/Kg	PQL	10
-176-.75	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	4	mg/L	PQL	1
7-176-1.50	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.74	mg/L	PQL	0.2
577-176-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	366	mg/Kg	PQL	10
577-176-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-176-1.50	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	22.6	mg/L	PQL	1
577-177-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.07	mg/L	PQL	0.2
577-177-.15	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	8.14	NA		
577-177-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	444	mg/Kg	PQL	10
577-177-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.26	mg/L	PQL	0.2
577-177-.15	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	37.3	mg/L	PQL	1
577-177-.15	Associated Lab	1/2/03	Soil	TTLC EPA 7000 series	Lead	495	mg/Kg	PQL	10
577-177-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	16.8	mg/Kg	PQL	10
577-177-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-177-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-178-.15	Associated Lab	12/18/02	Soil	TCLP EPA 6010	Lead	0.817	mg/L	PQL	0.005
577-178-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	461	mg/Kg	PQL	100
577-178-.15	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-178-.15	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	30.6	mg/L	PQL	1
577-178-.15	Associated Lab	1/2/03	Soil	TTLC EPA 7000 series	Lead	342	mg/Kg	PQL	10
577-178-.45	Associated Lab	12/18/02	Soil	TCLP EPA 6010	Lead	0.279	mg/L	PQL	0.005
577-178-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	358	mg/Kg	PQL	10
577-178-.45	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-178-.45	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	17.9	mg/L	PQL	1
7-178-.75	Associated Lab	12/18/02	Soil	TCLP EPA 6010	Lead	0.288	mg/L	PQL	0.005
77-178-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	250	mg/Kg	PQL	10
577-178-.75	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-178-.75	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	25.4	mg/L	PQL	1
577-178-.75	Associated Lab	1/2/03	Soil	TTLC EPA 7000 series	Lead	237	mg/Kg	PQL	10
577-178-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-178-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	169	mg/Kg	PQL	10
577-178-1.50	Associated Lab	10/17/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-178-1.50	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	10.3	mg/L	PQL	1
577-179-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-179-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-179-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	14.3	mg/Kg	PQL	10
577-179-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-180-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.25	mg/L	PQL	0.2
577-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
577-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	111	mg/Kg	PQL	1
577-180-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	0.897	mg/Kg	PQL	0.5
577-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	16.2	mg/Kg	PQL	1
577-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	8.39	mg/Kg	PQL	0.5
577-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	29.7	mg/Kg	PQL	
577-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	248	mg/Kg	PQL	0.5
77-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	1.41	mg/Kg	PQL	
77-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	11.2	mg/Kg	PQL	1.5
77-180-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	ND	mg/Kg	PQL	
577-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	40.6	mg/Kg	PQL	0.
577-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	420	mg/Kg	PQL	

77-180-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	327	mg/Kg	PQL	10
7-180-.15	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.22	mg/L	PQL	0.2
77-180-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	11.5	mg/L	PQL	1
577-180-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-181-.15	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	8.23	NA		
577-181-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	58	mg/Kg	PQL	10
577-181-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	3.95	mg/L	PQL	1
577-181-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-181-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-181-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-182-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	57	mg/Kg	PQL	10
577-182-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	4.65	mg/L	PQL	1
577-182-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	70.8	mg/Kg	PQL	10
577-182-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	4.75	mg/L	PQL	1
577-182-.75	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	8.11	NA		
577-182-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	47.5	mg/Kg	PQL	10
577-182-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	81.7	mg/Kg	PQL	10
577-182-1.50	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.49	mg/L	PQL	0.2
577-182-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	5.35	mg/L	PQL	1
577-183-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	75.2	mg/Kg	PQL	10
577-183-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	4.85	mg/L	PQL	1
577-183-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-183-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	10.9	mg/Kg	PQL	10
577-183-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	63.7	mg/Kg	PQL	10
77-183-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	4.2	mg/L	PQL	1
577-184-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	38	mg/Kg	PQL	10
577-184-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	46.5	mg/Kg	PQL	10
577-184-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	45.1	mg/Kg	PQL	10
577-184-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-184-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	46.1	mg/Kg	PQL	10
577-185-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	64.7	mg/Kg	PQL	10
577-185-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	4.1	mg/L	PQL	
577-185-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	11	mg/Kg	PQL	10
577-185-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-185-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-185-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	12.9	mg/Kg	PQL	10
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	93.3	mg/Kg	PQL	
577-186-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	ND	mg/Kg	PQL	0.
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	12.7	mg/Kg	PQL	
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	7.67	mg/Kg	PQL	0.
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	14	mg/Kg	PQL	
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	44.8	mg/Kg	PQL	0.
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	ND	mg/Kg	PQL	
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	7.9	mg/Kg	PQL	1.
577-186-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	1.91	mg/Kg	PQL	
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	41.3	mg/Kg	PQL	0.
577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	59.2	mg/Kg	PQL	
577-186-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	81.9	mg/Kg	PQL	1
577-186-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	3.5	mg/L	PQL	

577-186-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
7-186-.45	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	8.02	NA		
7-186-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	22.3	mg/Kg	PQL	10
577-186-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	24.7	mg/Kg	PQL	10
577-186-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	33	mg/Kg	PQL	10
577-187-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	96.5	mg/Kg	PQL	10
577-187-.15	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.54	mg/L	PQL	0.2
577-187-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	5.45	mg/L	PQL	1
577-187-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	88.8	mg/Kg	PQL	10
577-187-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	4.7	mg/L	PQL	1
577-187-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	33.5	mg/Kg	PQL	10
577-187-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	26.7	mg/Kg	PQL	10
577-188-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.23	mg/L	PQL	0.2
577-188-.15	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	8.06	NA		
577-188-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	382	mg/Kg	PQL	10
577-188-.15	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-188-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	17.3	mg/L	PQL	1
577-188-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	34.9	mg/Kg	PQL	10
577-188-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	20.4	mg/Kg	PQL	10
577-188-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-188-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	46	mg/Kg	PQL	10
577-189-.15	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	0.55	mg/L	PQL	0.2
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	1.04	mg/Kg	PQL	0.5
7-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	144	mg/Kg	PQL	1
77-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	2.4	mg/Kg	PQL	0.5
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	23.4	mg/Kg	PQL	1
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	8.16	mg/Kg	PQL	0.5
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	254	mg/Kg	PQL	1
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	1150	mg/Kg	PQL	0.5
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	3.05	mg/Kg	PQL	1
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	19.6	mg/Kg	PQL	1.5
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	3.07	mg/Kg	PQL	1
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	35.9	mg/Kg	PQL	0.5
577-189-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	376	mg/Kg	PQL	5
577-189-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	1190	mg/Kg	PQL	10
577-189-.15	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-189-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	237	mg/Kg	PQL	1
577-189-.45	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-189-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	15	mg/L	PQL	
577-189-.75	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.5	mg/L	PQL	0.
577-189-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	329	mg/Kg	PQL	1
577-189-.75	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-189-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	21.3	mg/L	PQL	
577-189-1.50	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.61	mg/L	PQL	0.
77-189-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	320	mg/Kg	PQL	1
77-189-1.50	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-189-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	21.9	mg/L	PQL	
577-190-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.81	mg/L	PQL	0.
577-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	
577-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.

77-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	99.1	mg/Kg	PQL	1
7-190-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
77-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	0.803	mg/Kg	PQL	0.5
577-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	15.9	mg/Kg	PQL	1
577-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	7.33	mg/Kg	PQL	0.5
577-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	36.9	mg/Kg	PQL	1
577-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	613	mg/Kg	PQL	0.5
577-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	1.19	mg/Kg	PQL	1
577-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	11.2	mg/Kg	PQL	1.5
577-190-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	1.41	mg/Kg	PQL	1
577-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	33.9	mg/Kg	PQL	0.5
577-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	195	mg/Kg	PQL	5
577-190-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	900	mg/Kg	PQL	10
577-190-.15	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-190-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	59.2	mg/L	PQL	
577-190-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-190-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.08	mg/L	PQL	0.
577-190-.45	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	7.87	NA		
577-190-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	675	mg/Kg	PQL	10
577-190-.45	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-190-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	51	mg/L	PQL	
577-190-.75	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.24	mg/L	PQL	0.
77-190-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	723	mg/Kg	PQL	10
577-190-.75	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-190-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	48	mg/L	PQL	
577-190-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.
577-190-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	67.2	mg/Kg	PQL	1
577-190-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	4.95	mg/L	PQL	
577-191-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.3	mg/L	PQL	0.
577-191-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	835	mg/Kg	PQL	1
577-191-.15	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.52	mg/L	PQL	0.
577-191-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	62.3	mg/L	PQL	
577-191-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	32	mg/Kg	PQL	1
577-191-.75	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.2	mg/L	PQL	0.
577-191-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	902	mg/Kg	PQL	1
577-191-.75	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.52	mg/L	PQL	0.
577-191-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	61.1	mg/L	PQL	
577-191-.75 DUP	Associated Lab	1/2/03	Soil	TTLC EPA 7000 series	Lead	747	mg/Kg	PQL	1
577-191-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	18.5	mg/Kg	PQL	1
577-192-.15	Associated Lab	10/10/02	Soil	TCLP EPA 7000 series	Lead	1.88	mg/L	PQL	0.
577-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	
577-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0
577-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Barium	101	mg/Kg	PQL	
577-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0
577-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cadmium	0.737	mg/Kg	PQL	0
577-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Chromium	17.2	mg/Kg	PQL	
577-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Cobalt	7.6	mg/Kg	PQL	0
577-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Copper	29	mg/Kg	PQL	
577-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Lead	833	mg/Kg	PQL	0
577-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Molybdenum	1.11	mg/Kg	PQL	
577-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Nickel	12.3	mg/Kg	PQL	1
577-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Selenium	2.45	mg/Kg	PQL	

77-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
7-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
77-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Vanadium	33.4	mg/Kg	PQL	0.5
577-192-.15	Associated Lab	10/17/02	Soil	TTLC EPA 6010	Zinc	161	mg/Kg	PQL	5
577-192-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	1180	mg/Kg	PQL	100
577-192-.15	Associated Lab	10/16/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-192-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.47	mg/L	PQL	0.2
577-192-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	936	mg/Kg	PQL	100
577-192-.45	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-192-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	69.8	mg/L	PQL	2
577-192-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	28.7	mg/Kg	PQL	10
577-192-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	58.9	mg/Kg	PQL	10
577-192-1.50	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-192-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	7.15	mg/L	PQL	1
577-193-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	163	mg/Kg	PQL	10
577-193-.15	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-193-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	14.9	mg/L	PQL	1
577-193-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	172	mg/Kg	PQL	10
577-193-.45	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-193-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	11.6	mg/L	PQL	1
577-193-.75	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	8.12	NA		
577-193-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	180	mg/Kg	PQL	10
577-193-.75	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-193-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	11.1	mg/L	PQL	
77-193-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-193-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	156	mg/Kg	PQL	10
577-193-1.50	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.24	mg/L	PQL	0.2
577-193-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	12.6	mg/L	PQL	
577-194-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.47	mg/L	PQL	0.
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	82.7	mg/Kg	PQL	
577-194-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	ND	mg/Kg	PQL	0.
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	13.8	mg/Kg	PQL	
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	8.12	mg/Kg	PQL	0.
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	19.9	mg/Kg	PQL	
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	256	mg/Kg	PQL	0.
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	ND	mg/Kg	PQL	
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	10	mg/Kg	PQL	1.
577-194-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	1.29	mg/Kg	PQL	
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	40.8	mg/Kg	PQL	0.
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	74.2	mg/Kg	PQL	
577-194-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	268	mg/Kg	PQL	1
577-194-.15	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0
577-194-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	17.3	mg/L	PQL	
577-194-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-194-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	41.6	mg/Kg	PQL	1
577-194-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	46.5	mg/Kg	PQL	1
577-194-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	22.8	mg/Kg	PQL	1
577-195-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.64	mg/L	PQL	0
577-195-.15	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	7.17	NA		

577-195-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	338	mg/Kg	PQL	10
577-195-.15	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-195-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	23.2	mg/L	PQL	1
577-195-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	53.5	mg/Kg	PQL	10
577-195-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	3.15	mg/L	PQL	1
577-195-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	28.7	mg/Kg	PQL	10
577-195-1.50	Associated Lab	12/18/02	Soil	TCLP EPA 6010	Lead	0.258	mg/L	PQL	0.005
577-195-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	252	mg/Kg	PQL	10
577-195-1.50	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-195-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	16.9	mg/L	PQL	1
577-196-.000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-196-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	222	mg/Kg	PQL	10
577-196-.15	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.54	mg/L	PQL	0.2
577-196-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	12.1	mg/L	PQL	1
577-196-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	14.6	mg/Kg	PQL	10
577-196-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	27.2	mg/Kg	PQL	10
577-196-1.50	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	9.14	NA		
577-196-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	32.5	mg/Kg	PQL	10
577-200-.15	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	8	NA		
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	53.1	mg/Kg	PQL	1
577-200-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	ND	mg/Kg	PQL	0.5
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	7.23	mg/Kg	PQL	1
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	4.78	mg/Kg	PQL	0.5
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	12.5	mg/Kg	PQL	1
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	141	mg/Kg	PQL	0.5
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	ND	mg/Kg	PQL	1
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	4.52	mg/Kg	PQL	1.5
577-200-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	ND	mg/Kg	PQL	1
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	25.9	mg/Kg	PQL	0.5
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	43	mg/Kg	PQL	5
577-200-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	189	mg/Kg	PQL	10
577-200-.15	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.57	mg/L	PQL	0.2
577-200-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	15.8	mg/L	PQL	[illegible]
577-200-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-200-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-200-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	10
577-200-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	112	mg/Kg	PQL	10
577-200-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	4.25	mg/L	PQL	[illegible]
577-201-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.56	mg/L	PQL	0.[illegible]
577-201-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	396	mg/Kg	PQL	10
577-201-.15	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	1.29	mg/L	PQL	0.[illegible]
577-201-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	22.3	mg/L	PQL	[illegible]
577-201-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	187	mg/Kg	PQL	1[illegible]
577-201-.45	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.49	mg/L	PQL	0.[illegible]
577-201-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	11.3	mg/L	PQL	[illegible]
577-201-.75	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	7.48	NA		
577-201-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	119	mg/Kg	PQL	1
577-201-.75	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.32	mg/L	PQL	0.[illegible]
577-201-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	11.2	mg/L	PQL	[illegible]

77-201-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	83.2	mg/Kg	PQL	10
7-201-1.50	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.46	mg/L	PQL	0.2
77-201-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	7.5	mg/L	PQL	1
577-202-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.45	mg/L	PQL	0.2
577-202-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	847	mg/Kg	PQL	10
577-202-.15	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	2.2	mg/L	PQL	0.2
577-202-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	42.8	mg/L	PQL	1
577-202-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.5	mg/L	PQL	0.2
577-202-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	293	mg/Kg	PQL	10
577-202-.45	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	1.56	mg/L	PQL	0.2
577-202-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	29.4	mg/L	PQL	1
577-202-.75	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	2.25	mg/L	PQL	0.2
577-202-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	472	mg/Kg	PQL	10
577-202-.75	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.78	mg/L	PQL	0.2
577-202-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	40.3	mg/L	PQL	1
577-202-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-202-1.50	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.29	mg/L	PQL	0.2
577-202-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	327	mg/Kg	PQL	10
577-202-1.50	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	2.29	mg/L	PQL	0.2
577-202-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	26.9	mg/L	PQL	1
577-203-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	61.9	mg/Kg	PQL	10
577-203-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	4.75	mg/L	PQL	1
577-203-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	22.5	mg/Kg	PQL	10
577-203-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	73.8	mg/Kg	PQL	10
7-203-.75	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.27	mg/L	PQL	0.2
77-203-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	6.9	mg/L	PQL	1
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	85.8	mg/Kg	PQL	1
577-203-1.50	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.5
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	ND	mg/Kg	PQL	0.5
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	11.1	mg/Kg	PQL	1
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	7.5	mg/Kg	PQL	0.5
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	12.7	mg/Kg	PQL	1
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	125	mg/Kg	PQL	0.5
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	ND	mg/Kg	PQL	1
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	8.32	mg/Kg	PQL	1.5
577-203-1.50	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	1.4	mg/Kg	PQL	1
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	38.5	mg/Kg	PQL	0.5
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	54.4	mg/Kg	PQL	1
577-203-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	145	mg/Kg	PQL	10
577-203-1.50	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.61	mg/L	PQL	0.2
577-203-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	7.55	mg/L	PQL	1
577-203-1.50	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-204-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	132	mg/Kg	PQL	10
577-204-.15	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
77-204-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	8.95	mg/L	PQL	
77-204-.45	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	8.14	NA		
577-204-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	18.3	mg/Kg	PQL	1
577-204-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	10.3	mg/Kg	PQL	1
577-204-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	ND	mg/Kg	PQL	1
577-205-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.77	mg/L	PQL	0.

77-205-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	296	mg/Kg	PQL	10
7-205-.15	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.3	mg/L	PQL	0.2
77-205-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	21.8	mg/L	PQL	1
577-205-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	83.8	mg/Kg	PQL	10
577-205-.45	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.51	mg/L	PQL	0.2
577-205-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	8.85	mg/L	PQL	1
577-205-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	43.6	mg/Kg	PQL	10
577-205-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-205-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	18.1	mg/Kg	PQL	10
577-206-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.11	mg/L	PQL	0.2
577-206-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	261	mg/Kg	PQL	10
577-206-.15	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	1.43	mg/L	PQL	0.2
577-206-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	19.5	mg/L	PQL	1
577-206-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	227	mg/Kg	PQL	10
577-206-.45	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.26	mg/L	PQL	0.2
577-206-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	19.2	mg/L	PQL	
577-206-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	101	mg/Kg	PQL	10
577-206-.75	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.56	mg/L	PQL	0.2
577-206-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	10.3	mg/L	PQL	
577-206-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	82.4	mg/Kg	PQL	10
577-206-1.50	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-206-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	5.3	mg/L	PQL	
577-207-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.56	mg/L	PQL	0.2
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	
77-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	104	mg/Kg	PQL	
577-207-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	0.517	mg/Kg	PQL	0.
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	15.4	mg/Kg	PQL	
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	8.31	mg/Kg	PQL	0.
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	27.8	mg/Kg	PQL	
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	630	mg/Kg	PQL	0.
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	ND	mg/Kg	PQL	
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	10.6	mg/Kg	PQL	1.
577-207-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	1.72	mg/Kg	PQL	
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	41.6	mg/Kg	PQL	0.
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	142	mg/Kg	PQL	
577-207-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	777	mg/Kg	PQL	1
577-207-.15	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	1.53	mg/L	PQL	0.
577-207-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	54.9	mg/L	PQL	
577-207-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-207-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	208	mg/Kg	PQL	1
577-207-.45	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.86	mg/L	PQL	0
577-207-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	15.4	mg/L	PQL	
577-207-.75	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	1.09	mg/L	PQL	0
577-207-.75	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	7.67	NA		
77-207-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	630	mg/Kg	PQL	1
577-207-.75	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	1.33	mg/L	PQL	0
577-207-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	36.8	mg/L	PQL	
577-207-1.50	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.75	mg/L	PQL	0
577-207-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	276	mg/Kg	PQL	
577-207-1.50	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0

77-207-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	21.7	mg/L	PQL	
7-208-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	53.9	mg/Kg	PQL	1
77-208-.15	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.31	mg/L	PQL	0.
577-208-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	5.1	mg/L	PQL	
577-208-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	129	mg/Kg	PQL	1
577-208-.45	Associated Lab	10/24/20	Soil	STLC-DI EPA 7000 series	Lead	0.69	mg/L	PQL	0.
577-208-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	11.3	mg/L	PQL	
577-208-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	188	mg/Kg	PQL	1
577-208-.75	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.76	mg/L	PQL	0.
577-208-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	12.8	mg/L	PQL	
577-208-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.
577-208-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	103	mg/Kg	PQL	1
577-208-1.50	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.89	mg/L	PQL	0.
577-208-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	8.9	mg/L	PQL	
577-209-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	181	mg/Kg	PQL	1
577-209-.15	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.62	mg/L	PQL	0.
577-209-.15	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	9.8	mg/L	PQL	
577-209-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	99.5	mg/Kg	PQL	1
577-209-.45	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.24	mg/L	PQL	0.
577-209-.45	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	6.4	mg/L	PQL	
577-209-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	161	mg/Kg	PQL	1
577-209-.75	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.48	mg/L	PQL	0.
577-209-.75	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	9.4	mg/L	PQL	
577-209-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	148	mg/Kg	PQL	1
77-209-1.50	Associated Lab	10/24/02	Soil	STLC-DI EPA 7000 series	Lead	0.26	mg/L	PQL	0.
77-209-1.50	Associated Lab	10/14/02	Soil	STLC EPA 7000 series	Lead	8.2	mg/L	PQL	
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	76.5	mg/Kg	PQL	
577-210-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	ND	mg/Kg	PQL	0.
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	12.7	mg/Kg	PQL	
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	8.41	mg/Kg	PQL	0
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	17.8	mg/Kg	PQL	
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	27.6	mg/Kg	PQL	0
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	ND	mg/Kg	PQL	
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	7.47	mg/Kg	PQL	1
577-210-.15	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	1.57	mg/Kg	PQL	
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	42.8	mg/Kg	PQL	0
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	140	mg/Kg	PQL	
577-210-.15	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	35	mg/Kg	PQL	
577-210-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.
577-210-.45	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	7.55	NA		
577-210-.45	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	13.4	mg/Kg	PQL	
577-210-.75	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	17	mg/Kg	PQL	
577-210-000	Associated Lab	10/7/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0
577-210-1.50	Associated Lab	10/7/02	Soil	TTLC EPA 7000 series	Lead	18	mg/Kg	PQL	
577-215-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	213	mg/Kg	PQL	
577-215-.15	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0
577-215-.15	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	17.7	mg/L	PQL	
577-215-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.56	mg/L	PQL	0
577-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	

7-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
7-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Barium	93.2	mg/Kg	PQL	1
7-215-.45	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Beryllium	0.77	mg/Kg	PQL	0.5
577-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cadmium	ND	mg/Kg	PQL	0.5
577-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Chromium	15.5	mg/Kg	PQL	1
577-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Cobalt	11.4	mg/Kg	PQL	0.5
577-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Copper	17.4	mg/Kg	PQL	1
577-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Lead	184	mg/Kg	PQL	0.5
577-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Molybdenum	ND	mg/Kg	PQL	1
577-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Nickel	26.2	mg/Kg	PQL	1.5
577-215-.45	Associated Lab	12/4/02	Soil	TTLC EPA 6010	Selenium	1.59	mg/Kg	PQL	1
577-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Vanadium	43.7	mg/Kg	PQL	0.5
577-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 6010	Zinc	221	mg/Kg	PQL	5
577-215-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	267	mg/Kg	PQL	10
577-215-.45	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-215-.45	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	19.5	mg/L	PQL	1
577-215-.45	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	0.16	mg/Kg	PQL	0.14
577-215-.75	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	8.37	NA		
577-215-.75	Associated Lab	10/2/02	Soil	TTLC EPA 7000 series	Lead	55.4	mg/Kg	PQL	10
577-215-.75	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	3.65	mg/L	PQL	1
577-215-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-215-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	19.6	mg/Kg	PQL	10
7-216-.15	Associated Lab	10/31/02	Soil	TCLP EPA 7000 series	Lead	3.08	mg/L	PQL	0.2
77-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Barium	141	mg/Kg	PQL	
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Beryllium	0.589	mg/Kg	PQL	0.5
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Cadmium	ND	mg/Kg	PQL	0.5
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Chromium	23.8	mg/Kg	PQL	
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Cobalt	14.7	mg/Kg	PQL	0.5
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Copper	36.1	mg/Kg	PQL	
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Lead	1090	mg/Kg	PQL	0.5
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Molybdenum	ND	mg/Kg	PQL	
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Nickel	13.3	mg/Kg	PQL	1.
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Selenium	ND	mg/Kg	PQL	
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Vanadium	36.3	mg/Kg	PQL	0.
577-216-.15	Associated Lab	12/6/02	Soil	TTLC EPA 6010	Zinc	275	mg/Kg	PQL	
577-216-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	1140	mg/Kg	PQL	10
577-216-.15	Associated Lab	12/3/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-216-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	ND	mg/L	PQL	0.
577-216-.45	Associated Lab	12/2/02	Soil	PH EPA 9045	pH	8.14	NA		
577-216-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	463	mg/Kg	PQL	1
577-216-.45	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-216-.45	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	16.3	mg/L	PQL	
77-216-.45 Dup	Associated Lab	1/2/03	Soil	TTLC EPA 7000 series	Lead	209	mg/Kg	PQL	1
77-216-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	110	mg/Kg	PQL	1
577-216-.75	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
577-216-.75	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	7.4	mg/L	PQL	
577-216-1.50	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.31	mg/L	PQL	0.
577-216-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	398	mg/Kg	PQL	1

7-216-1.50	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
7-216-1.50	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	21.7	mg/L	PQL	1
77-217-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Arsenic	ND	mg/Kg	PQL	0.5
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Barium	132	mg/Kg	PQL	1
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Beryllium	0.701	mg/Kg	PQL	0.5
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Cadmium	ND	mg/Kg	PQL	0.5
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Chromium	22.1	mg/Kg	PQL	1
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Cobalt	15.9	mg/Kg	PQL	0.5
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Copper	27.8	mg/Kg	PQL	1
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Lead	270	mg/Kg	PQL	0.5
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Molybdenum	1.71	mg/Kg	PQL	1
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Nickel	13	mg/Kg	PQL	1.5
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Selenium	1.31	mg/Kg	PQL	1
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.5
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	1
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Vanadium	74.4	mg/Kg	PQL	0.5
577-217-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Zinc	125	mg/Kg	PQL	5
577-217-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	363	mg/Kg	PQL	10
577-217-.15	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-217-.15	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	23.4	mg/L	PQL	1
577-217-.15	Associated Lab	12/13/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.14
577-217-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	105	mg/Kg	PQL	10
7-217-.45	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
77-217-.45	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	7.05	mg/L	PQL	1
577-217-.75	Associated Lab	12/2/02	Soil	PH EPA 9045	pH	8.48	NA		
577-217-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	34.1	mg/Kg	PQL	10
577-217-000	Associated Lab	10/3/02	Water	TTLC EPA 7000 series	Lead	ND	mg/L	PQL	0.2
577-217-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	26.2	mg/Kg	PQL	10
577-218-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	2.76	mg/L	PQL	0.2
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Antimony	ND	mg/Kg	PQL	3
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Arsenic	1.13	mg/Kg	PQL	0.
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Barium	151	mg/Kg	PQL	
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Beryllium	ND	mg/Kg	PQL	0.
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Cadmium	ND	mg/Kg	PQL	0.
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Chromium	16.2	mg/Kg	PQL	
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Cobalt	11	mg/Kg	PQL	0.
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Copper	27.5	mg/Kg	PQL	
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Lead	490	mg/Kg	PQL	0.
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Molybdenum	4.53	mg/Kg	PQL	
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Nickel	12.2	mg/Kg	PQL	1.
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Selenium	1.22	mg/Kg	PQL	
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Silver	ND	mg/Kg	PQL	0.
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Thallium	ND	mg/Kg	PQL	
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Vanadium	47.7	mg/Kg	PQL	0.
577-218-.15	Associated Lab	12/16/02	Soil	TTLC EPA 6010	Zinc	264	mg/Kg	PQL	
577-218-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	548	mg/Kg	PQL	10
77-218-.15	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.
77-218-.15	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	43.9	mg/L	PQL	
577-218-.15	Associated Lab	12/13/02	Soil	TTLC EPA 7000 series	Mercury	ND	mg/Kg	PQL	0.1
577-218-.45	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.73	mg/L	PQL	0.
577-218-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	257	mg/Kg	PQL	1
577-218-.45	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.

7-218-.45	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	22.3	mg/L	PQL	1
7-218-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	187	mg/Kg	PQL	10
7-218-.75	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-218-.75	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	10.2	mg/L	PQL	1
577-218-1.50	Associated Lab	10/3/02	Soil	PH EPA 9045	pH	8.48	NA		
577-218-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	146	mg/Kg	PQL	10
577-218-1.50	Associated Lab	10/23/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-218-1.50	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	5.4	mg/L	PQL	1
577-219-.15	Associated Lab	12/4/02	Soil	TCLP EPA 7000 series	Lead	0.2	mg/L	PQL	0.2
577-219-.15	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	723	mg/Kg	PQL	100
577-219-.15	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-219-.15	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	46.6	mg/L	PQL	1
577-219-.45	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	36.6	mg/Kg	PQL	10
577-219-.75	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	54.9	mg/Kg	PQL	10
577-219-.75	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-219-.75	Associated Lab	10/8/02	Soil	STLC EPA 7000 series	Lead	5.1	mg/L	PQL	1
577-219-1.50	Associated Lab	10/3/02	Soil	TTLC EPA 7000 series	Lead	101	mg/Kg	PQL	10
577-219-1.50	Associated Lab	10/25/02	Soil	STLC-DI EPA 7000 series	Lead	0.1	mg/L	PQL	0.2
577-219-1.50	Associated Lab	10/25/02	Soil	STLC EPA 7000 series	Lead	5.1	mg/L	PQL	0.2