

INFORMATION HANDOUT

For Contract No. 07-4T7304

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MATERIALS INFORMATION

Lead Investigation Report (Task Order No. 07-0535A1-3C, Project No. 10-515-01-001)

Aerially Deposited Lead Investigation Report (Task Order No. 07-218301-QY, Project No. 09100-06-57)

Fiber Optic System As-Built Drawings

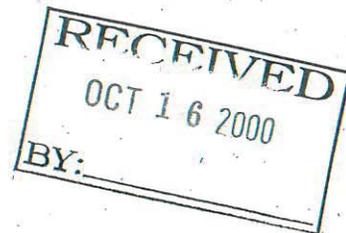
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LEAD INVESTIGATION REPORT

Soundwall Construction Project
Northbound and Southbound Route 405
0.5 km South of Victory Boulevard to Sherman Way
Los Angeles County, California

Contract No. 43A0012
Task Order No. 07-0535A1-3C

Alisto Project No. 10-515-01



Prepared for:

California Department of Transportation
District 7
120 South Spring Street
Los Angeles, California 90012

Prepared by:

Alisto Engineering Group
3732 Mount Diablo Boulevard, Suite 270
Lafayette, California 94549

August 28, 2000



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**Al Sevilla, P.E. #26392
Principal**



EXECUTIVE SUMMARY

LEAD INVESTIGATION REPORT

for

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0.5 km South of Victory Boulevard to Sherman Way
Los Angeles County, California

In accordance with Task Order (TO) No. 07-0535A1-3C of the California Department of Transportation (Caltrans) Contract No. 43A0012, Alisto Engineering Group of Lafayette, California conducted a lead investigation as part of a soundwall construction project along Route 405 in Los Angeles County, California. As specified in the TO, 68 soil borings were drilled along the northbound and southbound shoulders of Route 405 within the soundwall construction project. Soil samples were collected from each boring at depths of 0.15, 0.30, 0.60 and 0.90 meters. A total of 271 soil samples were collected and analyzed for total and soluble lead. Samples with a total lead concentration greater than the total threshold limit concentration (TTL) of 50 milligrams per kilogram (mg/kg) were analyzed for extractable lead using citric acid. Of these, 133 samples with soluble lead concentrations greater than the soluble threshold limit concentration (STLC) of 5.0 milligrams per liter (mg/L) were additionally analyzed for extractable lead using deionized water.

The analytical results for all of the soil samples and for each sample set for each depth interval were statistically analyzed to calculate the mean concentration and the normal and lognormal at 80, 90, and 95 percent upper confidence limit (UCL).

The mean concentrations and UCL of total and soluble lead for each sample set were compared with Caltrans soil classification (Caltrans Chart) based on the draft California Department of Toxic Substances Control (DTSC) criteria. The Caltrans Chart was used to classify soil to be excavated for reuse and disposal. The classification of soil by depth intervals within the project area is summarized below.

Route 405 Section	Soil Depth Interval (meters below grade)	Can the Soil be Reused at the Site?	Surplus Soil Handling And Disposal
Northbound	0.15	No	Type Z-2, Hazardous
	0.30	No	Type Z-2, Hazardous
	0.60	Yes	Type Y/Z-2, Hazardous
	0.90	Yes	Type Y/Z-2, Hazardous
Southbound	0.15	No	Type Z-2, Hazardous
	0.30	Yes	Type Y/Z-2, Hazardous
	0.60	Yes	Type Y/Z-2 Hazardous
	0.90	Yes	Type Y/Z-2 Hazardous



Based on the above classification, all of the soil excavated from either the northbound or southbound sections can be classified as hazardous. Only soil excavated from below the 0.60-m depth interval along the northbound section and from below 0.30-m depth interval along the southbound section can be reused at the job site. Any surplus material from these depth intervals as well as all soil excavated from the upper 0.15 m should be handled and disposed of as hazardous waste at a Class I landfill per Title 22 of the California Code of Regulations.



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1.0 INTRODUCTION

As authorized under Task Order (TO) No. 07-0535A1-3C of the California Department of Transportation (Caltrans) Contract No. 43A0012, Alisto Engineering Group of Lafayette, California conducted a site investigation (SI) to evaluate the impact of aerially deposited lead (ADL) along the northbound and southbound shoulders of Route 405 as part of a soundwall construction project. This report presents the results and findings of the soil sampling and analysis for total and soluble lead along the project area.

2.0 PROJECT LOCATION

The project area extends from approximately 0.5 kilometers (km) south of Victory Boulevard undercrossing (KP 66.0/PM 41.0) to Sherman Way undercrossing (KP 68.2/PM 42.4) in Los Angeles County, California. The site vicinity and project area is shown on Figure 1.

3.0 SCOPE OF WORK

The scope of work was based on Caltrans' specifications and requirements set forth in Task Order No. 07-0535A1-3C dated July 12, 2000, a copy of which is included in Appendix B.

3.1 Task Order Scope

The tasks for this lead investigation as set forth in the task order included the following:

- Hand augering of 68 soil borings along the northbound and southbound section of Route 405 at designated locations within the soundwall construction project area.
- Collecting four samples at depths of 0.15-meter (m), 0.30-m, 0.60-m, and 0.90-m from each soil boring.
- Analyzing all soil samples for lead (total and soluble) and selected samples for soil pH.
- Evaluating the data and determining the soil classification based on the Caltrans' designation for aerially deposited lead dated June 12, 2000.
- Preparing a site investigation report per the requirements of Caltrans Contract No. 43A0012.

3.2 Task Order Deviations

Two deviations from the TO scope of work were implemented during field activities. One additional borehole was drilled at location 38+2200 (SW 38) due to a discrepancy in the borehole numbering in the TO, which was not identified until the fieldwork. A Caltrans representative approved drilling an additional borehole in the field and reducing the number of boreholes by one at another location. Only 271 soil samples were collected from the borings rather than 272 as specified in the TO. No soil sample was collected from the 0.90-m depth interval in Boring 34a+200. However, the chain-of-custody submitted to the analytical laboratory was not corrected accordingly to reflect this discrepancy.



4.0 FIELD METHODS

The objective of the site investigation is to determine the vertical extent of ADL in soil along the proposed soundwall construction project. The analytical results will provide the concentration of ADL in the soil and the type or classification of material generated during excavation along the project area.

4.1 Soil Sampling and Drilling Methods

The field methods and procedures used during this investigation were in accordance with the requirements of state regulatory agencies, technical specifications of Caltrans and standard practice of the industry. The procedures used during this investigation are discussed below.

To assess the nature and extent of aerially deposited lead in the soil within the area of the proposed soundwall construction project, 68 soil borings were drilled on July 11 and 12, 2000 using hand auger equipment. The borings were drilled along the northbound and southbound shoulders of Route 405 within the soundwall construction project area. As specified in the Caltrans TO, 30 boreholes were hand augered at designated locations along the shoulder of the northbound section spaced at approximately 30.5 m (100 feet), and 38 boreholes along the southbound shoulder at every 61.0 m (200 feet). The boring locations are shown on Figure 2.

Soil samples were collected from each boring at four depth intervals of 0.15-m, 0.30-m, 0.60-m and 0.90-m. After collection, the soil samples were transferred directly into clean sample containers and transported to the designated laboratory for analysis. The borings were backfilled with the cuttings after completion of sampling.

4.2 Sample Container, Preservation, and Shipment

Each sample collected was placed in a sealable plastic bag in accordance with laboratory protocol, labeled with a sample identification number, and logged on a chain-of-custody document for submittal to a state-certified laboratory. The chain-of-custody procedures and documentation are included in Appendix B. The samples were then placed in an ice-cooler and hand-delivered or shipped with the chain-of-custody documentation to the laboratory within the same day of sample collection.

4.3 Equipment Decontamination

Before and after each use, sampling equipment was decontaminated with a phosphate-free detergent wash. Following each detergent wash, the equipment was rinsed twice with tap and deionized water.

5.0 ANALYTICAL METHODS

The soil samples collected from the project area were analyzed by Associated Laboratories of Orange, California. All samples were shipped or hand-delivered to the laboratory within 24 hours of sample collection for lead analysis on a 48-hour turnaround basis.

The samples were analyzed by the laboratory using the following standard test methods recommended by the U.S. Environmental Protection Agency (EPA):



- Total lead by EPA Method 6010B
- Soluble lead by the Waste Extraction Test method using citric acid (WET) and EPA Method 7000 series
- Soluble lead by the California WET method using de-ionized water (DI-WET)
- pH by EPA Method 9045

As specified by Caltrans, soil samples with reported total threshold limit concentration (TTLC) of lead greater than 50 milligrams per kilogram (mg/kg) were further analyzed for soluble lead by the WET method using citric acid. Samples with reported soluble threshold limit concentration (STLC) of lead greater than 5 milligrams per liter (mg/L) were additionally analyzed by the California DI-WET method using de-ionized water. For soil pH, 24 of the samples were analyzed using EPA Method 9045.

The field procedures for chain-of-custody documentation and the laboratory reports are presented in Appendix B. Laboratory quality assurance/quality control (QA/QC) documentation is also included in Appendix B.

6.0 RESULTS AND FINDINGS

To determine the type and handling of the soil within the project area, the results of total and soluble lead analysis were compared with the Caltrans Chart dated June 12, 2000 and the draft California Department of Toxic Substance Control (DTSC) variance criteria for aerially deposited lead in soil.

The laboratory results for the soil samples collected from the project area are summarized in Tables 1 through 18 and shown on Figure 2. The concentration and distribution of total and soluble lead in the soil and the results of the statistical analysis of analytical data are discussed in the following sections.

6.1 Analytical Results

Total lead was detected in all of the 271 soil samples (119 from the northbound section and 152 from the southbound section) collected along the project area. Total lead concentrations detected in the northbound soil samples ranged from 4.33 to 4760 mg/kg, of which 65 samples exceeded the TTLC of 50 mg/kg. The majority of samples from the northbound section with total lead concentrations above the TTLC were collected from the 0.15-m and 0.30-m depth intervals. The highest concentrations of total lead were detected in the samples from northbound Borings 38+600 and 46+400 at 4760 and 2800 mg/kg, respectively.

Of the 65 northbound samples analyzed by the WET method, soluble lead was detected at concentrations exceeding the STLC of 5.0 mg/L in 53 samples. Based on Caltrans criteria and specifications, all samples with soluble lead concentrations above the STLC were additionally analyzed by the California DI-WET method. Soluble lead was detected at concentrations above 0.5 mg/L in 36 of the 53 samples by the DI-WET method.

Total lead detected in the southbound soil samples ranged from 3.84 to 3084 mg/kg, of which 97 samples exceeded the TTLC of 50 mg/kg. The majority of samples with total lead concentrations above the TTLC were collected from the 0.15-m and 0.30-m depth intervals with



the highest concentrations detected in the near surface samples from southbound Borings 45+800 and 39+400 at 3084 and 2700 mg/kg, respectively.

Of the 97 samples analyzed by the WET method, soluble lead was detected in 80 samples at concentrations exceeding the STLC of 5.0 mg/L. Based on Caltrans criteria and specifications, all samples with soluble lead concentrations above the STLC were additionally analyzed using the California DI-WET method, which detected soluble lead concentrations above 0.5 mg/L in 54 of the 80 samples.

There was an apparent discernible pattern of lead distribution in the northbound or southbound sections laterally and by depth. On the average, the concentrations of ADL detected in the samples from the northbound section were slightly higher than those collected from the southbound section. In addition, most of the samples with lead concentrations exceeding the TTLC and STLC were collected from the 0.15-m and 0.30-m depth intervals along both the northbound and southbound sections of the project area.

Using regression analysis, the results of the total lead analysis were compared with those of the soluble lead analysis. As shown on Figure 3, the correlation between total and soluble lead results was calculated to be 0.845.

Six samples each from the northbound and southbound sections were analyzed in the laboratory for pH. The pH of the soil samples from the northbound section ranged from 6.72 to 7.94, corresponding to an average of 7.37. The pH of the southbound soil samples ranged from 7.31 to 8.11, which corresponds to an average of 7.76. The average soil pH for both the northbound and southbound samples is within the neutral pH range of 6 to 8.

6.2 Statistical Analysis

A statistical evaluation of lead analytical results was performed to provide a basis for classifying and determining the recommended handling of the soil that will be disturbed and excavated during construction based on the Caltrans Chart for reuse of soils with aerially deposited lead. The statistical evaluation of analytical results was performed in accordance with Article XXVII of Caltrans Contract No. 43A0012 and subsequent revision thereto dated April 2, 1999 to calculate or determine the following:

- Arithmetic mean or average;
- Standard deviation;
- 80 and 95 percent Upper Confidence Level (UCL) using the student t-distribution (SW-846) for normal population distribution; and
- 90 and 95 percent UCL using the H statistic for lognormal distribution.

As specified by Caltrans for this project, the analytical results were statistically analyzed for each sampling depth of 0.15, 0.30, 0.60, and 0.90-m for both the northbound and southbound sections. All statistical calculations were performed using Microsoft® Excel. The 80 and 95 percent UCLs for normal distribution were calculated using the following equation:



$$UCL = \bar{x} + (sT/\sqrt{n-1})$$

Where: \bar{x} = mean of the data
s = standard deviation of the data
T = Student's t-distribution
n = number of samples

For the lognormal distribution, the data set was first transformed to natural log $[\ln(x)]$ before the 90 and 95 percent UCLs were calculated using the following equation:

$$UCL = \exp(\bar{x} + 0.5s^2 + (sH/\sqrt{n-1}))$$

Where: exp = constant (base of the natural log (LN) = 2.718)
 \bar{x} = mean of the transformed data (LN(concentration))
s = standard deviation of the transformed data
H = H-statistic
n = number of samples

The H-statistic values were determined using a four-point extrapolation. Results of the statistical calculations, including the H-statistic values used, are presented in Tables 2 through 18 and the histograms for the analytical results are shown on Figures 4 through 6.

6.3 Discussion of Results

The results of the statistical analysis of laboratory data for average or arithmetic mean and UCLs are summarized in the following table including the soil classification for each sample data set based on Caltrans Chart and draft DTSC variance criteria. Since the H-statistic values are not available to calculate the 80 percent UCL for lognormal distribution, only the normal 80 percent UCL was calculated for each data set. Because of the large sample population, the H-statistic values for the lognormal 90 and 95 percent UCLs for total lead could not be calculated for the entire sample data set. As specified by Caltrans, the sample data set was divided into northbound and southbound sections to reduce the sample population in order to determine the H-statistic values and calculate the lognormal 90 and 95 percent UCLs.

As summarized in the following table, there are significant deviations between the arithmetic mean concentrations and the 90 and 95 percent UCLs for lognormal distribution in all of the sample data sets. As such, the lognormal 90 and 95 percent UCLs for these data sets are not considered appropriate for use in determining the type and handling of the soil that will be disturbed and excavated during the soundwall construction project.

As specified by Caltrans, the calculated 80 and 95 percent UCLs for the various data sets were used in determining the soil classification for reuse at the job site and for the proper handling and disposal of surplus soil in accordance with the DTSC draft variance and applicable regulations.



**SUMMARY OF STATISTICAL ANALYSES AND SOIL CLASSIFICATION
PER DTSC VARIANCE CRITERIA**

Soil Sample Data Set	Total Lead Normal (mg/kg)	Total Lead Lognormal (mg/kg)	Lead WET Normal (mg/L)	Lead WET Lognormal (mg/L)	Lead DI-WET Normal (mg/L)	Lead DI-WET Lognormal (mg/L)	Classification per DTSC Variance Criteria	Hazardous/ Non Hazardous Classification	
All Samples	Mean	314.60	4.50	25.16	2.67	1.62	-0.19	Type Y/Z-2	Hazardous
	80% UCL	344.51	---	27.38	---	1.80	---		
	90% UCL	---	---	---	---	---	---		
	95% UCL	371.05	---	29.36	---	1.96	---		
Northbound - All Samples	Mean	350.29	4.41	30.05	2.78	1.55	-0.30	Type Z-2	Hazardous
	80% UCL	404.25	---	34.04	---	1.84	---		
	90% UCL	---	---	---	43.65	---	3.16		
	95% UCL	452.16	---	37.57	47.63	2.11	3.61		
Northbound - Part 1 (30+00 to 34a+600)	Mean	183.33	4.32	---	---	---	---	---	---
	80% UCL	219.51	---	---	---	---	---		
	90% UCL	---	409.28	---	---	---	---		
	95% UCL	251.65	506.17	---	---	---	---		
Northbound - Part 2 (38+00 to 46+2000)	Mean	409.11	4.44	---	---	---	---	---	---
	80% UCL	480.37	---	---	---	---	---		
	90% UCL	---	924.27	---	---	---	---		
	95% UCL	543.63	1084.61	---	---	---	---		
Northbound @ 0.15 M	Mean	878.19	5.98	45.89	3.37	2.35	0.26	Type Z-2	Hazardous
	80% UCL	1051.60	---	54.01	---	2.93	---		
	90% UCL	---	2458.58	---	73.41	---	3.75		
	95% UCL	1205.56	3099.41	61.23	83.80	3.45	4.45		
Northbound @ 0.3 M	Mean	338.69	4.81	22.73	2.62	0.74	-0.90	Type Z-2	Hazardous
	80% UCL	407.94	---	27.56	---	0.88	---		
	90% UCL	---	1123.99	---	39.27	---	5.67		
	95% UCL	469.42	1473.64	31.85	46.32	1.00	8.73		
Northbound @ 0.6 M	Mean	116.47	3.69	16.66	2.08	1.33	-0.31	Type Y/Z-2	Hazardous
	80% UCL	150.38	---	22.95	---	1.87	---		
	90% UCL	---	182.99	---	68.26	---	31.55		
	95% UCL	180.49	220.40	28.53	118.17	2.36	203.97		
Northbound @ 0.9 M	Mean	58.08	3.13	13.38	2.08	0.52	-1.04	Type Y/Z-2	Hazardous
	80% UCL	78.28	---	18.70	---	0.82	---		
	90% UCL	---	80.27	---	45.66	---	7.57		
	95% UCL	96.21	95.98	23.42	82.25	1.08	90.34		



Soil Sample Data Set	Total Lead Normal (mg/kg)	Total Lead Lognormal (mg/kg)	Lead WET Normal (mg/L)	Lead WET Lognormal (mg/L)	Lead DI-WET Normal (mg/L)	Lead DI-WET Lognormal (mg/L)	Classification per DTSC Variance Criteria	Hazardous/ Non Hazardous Classification
Southbound- All Samples	Mean 286.66 80% UCL 319.39 90% UCL --- 95% UCL 348.45	4.57 --- --- ---	21.88 24.46 --- 26.76	2.60 --- 27.52 29.10	1.67 1.90 --- 2.10	-0.12 --- 2.08 2.24	Type Y/Z-2	Hazardous
Southbound - Part 1 (45+300 to 45+1800)	Mean 271.69 80% UCL 319.19 90% UCL --- 95% UCL 361.37	4.28 --- 653.27 784.28	--- --- --- ---	--- --- --- ---	--- --- --- ---	--- --- --- ---	---	---
Southbound - Part 2 (35+00 to 39+1200)	Mean 301.64 80% UCL 347.26 90% UCL --- 95% UCL 387.76	4.86 --- 525.20 587.57	--- --- --- ---	--- --- --- ---	--- --- --- ---	--- --- --- ---	---	---
Southbound @ 0.15 M	Mean 731.75 80% UCL 830.47 90% UCL --- 95% UCL 918.12	6.22 --- 1062.16 1169.90	37.27 43.10 --- 48.27	3.26 --- 46.58 50.22	2.72 3.17 --- 3.57	0.48 --- 4.02 4.50	Type Z-2	Hazardous
Southbound @ 0.3 M	Mean 200.63 80% UCL 235.22 90% UCL --- 95% UCL 265.95	4.48 --- 470.05 566.64	13.82 15.85 --- 17.65	2.19 --- 35.05 40.93	0.77 0.89 --- 1.00	-0.60 --- 1.13 1.27	Type Y/Z-2	Hazardous
Southbound @ 0.6 M	Mean 120.06 80% UCL 144.36 90% UCL --- 95% UCL 165.94	3.87 --- 244.51 294.82	14.45 17.52 --- 20.25	2.34 --- 21.30 24.40	0.81 1.08 --- 1.31	-0.74 --- 1.38 1.72	Type Y/Z-2	Hazardous
Southbound @ 0.9 M	Mean 94.22 80% UCL 112.67 90% UCL --- 95% UCL 129.06	3.71 --- 168.08 197.72	7.31 8.98 --- 10.46	1.51 --- 14.31 17.92	0.90 1.17 --- 1.41	-0.44 --- 2.42 3.78	Type Y/Z-2	Hazardous

Note:

¹ The lognormal value for the 80% UCL could not be calculated. The H-statistic for this data set is not available.

As can be noted above, the normal 80 percent UCL calculated for total lead in the northbound samples ranged from 78.28 mg/kg in the 0.90-m depth interval to 1051.60 mg/kg in the 0.15-m interval with the corresponding 80 percent UCL for soluble lead by the WET method ranging from 54.01 mg/L for the 0.15-m interval samples to 18.70 mg/L for the 0.90-m interval. Soil along the northbound section at the 0.15-m and 0.30-m intervals correspond to Type Z-2 and can be classified as hazardous. Soil from the 0.30-m and 0.90-m intervals, which is classified as Type Y/Z-2, can be used on site with any surplus material disposed of as hazardous waste in accordance with Title 22 of the California Code of Regulations (CCR).

The normal 80 percent UCL for total lead concentration in the southbound samples ranged from 112.67 mg/kg for the 0.90-m depth samples to 830.47 mg/kg for the 0.15-m interval samples with the corresponding normal 80 percent UCL for soluble lead by WET method ranging from 8.98 to 43.10 mg/L. Soil from all depth intervals of the southbound section can be classified as hazardous or Type Z-2. Soil excavated from the 0.30- to 0.90-m depth intervals, however, can



be reused on site (Type Y) with the surplus material disposed of as hazardous waste in accordance with CCR Title 22.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The results of lead investigation suggest that the soil within the project area had been impacted by the accumulation of aurally deposited lead, with the highest total and soluble lead concentrations detected in the samples from the 0.15-m and 0.30-m depth intervals collected from both the northbound and southbound sections of the project area. Because of significant deviations between the arithmetic mean concentrations and the lognormal 90 and 95 percent UCLs for total and soluble lead, the calculated lognormal UCLs are not considered appropriate for use.

Using the 80 percent UCL calculated for total and soluble lead and compared to the Caltrans Chart, all of the soil in the northbound and southbound sections of the project area are considered hazardous. However, soil at the 0.60-m and 0.90-m depth intervals in the northbound section and at the 0.30, 0.60, and 0.90-m depth intervals in the southbound section may be appropriate for reuse at the job site. Any surplus soil excavated from the project area must be disposed of as hazardous waste at a Class I facility per Title 22 of the CCR.



TABLES

TABLE 1

SUMMARY OF ANALYTICAL RESULTS OF SOIL SAMPLING
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Lead			pH (units)
			Total (mg/kg)	WET (mg/L)	DI WET (mg/L)	
30+00	0.15	0.5	327	27.7	1.72	----
	0.3	1	33.2	----	----	----
	0.6	2	32.5	----	----	----
	0.9	3	12.3	----	----	----
30+200	0.15	0.5	609	46.1	2.31	7.11
	0.3	1	260	24.7	1.97	7.53
	0.6	2	27.8	----	----	7.56
	0.9	3	98.1	12.0	0.339	7.93
30+400	0.15	0.5	161	19.1	0.856	----
	0.3	1	148	12.8	0.674	----
	0.6	2	7.98	----	----	----
	0.9	3	65.3	2.94	----	----
30+600	0.15	0.5	268	7.47	0.630	----
	0.3	1	396	8.36	0.372	----
	0.6	2	24.2	----	----	----
	0.9	3	90.8	3.09	----	----
30+800	0.15	0.5	16.9	----	----	----
	0.3	1	96.5	3.81	----	----
	0.6	2	25.8	----	----	----
	0.9	3	50.7	6.13	0.127	----
34a+00	0.15	0.5	756	40.1	0.477	----
	0.3	1	491	25.0	0.307	----
	0.6	2	21.6	----	----	----
	0.9	3	5.71	----	----	----
34a+200	0.15	0.5	536	23.5	0.379	----
	0.3	1	60.9	1.70	----	----
	0.6	2	8.59	----	----	----
	0.9	3	----	----	----	----
34a+600	0.15	0.5	664	22.4	0.653	----
	0.3	1	341	10.1	0.562	----
	0.6	2	15.4	----	----	----
	0.9	3	31.8	----	----	----
38+00	0.15	0.5	635	27.6	0.499	6.82
	0.3	1	757	42.5	0.586	6.82
	0.6	2	180	1.3	----	7.59
	0.9	3	16.2	----	----	7.53
38+200	0.15	0.5	518	22.5	0.732	----
	0.3	1	12.8	----	----	----
	0.6	2	25.0	----	----	----
	0.9	3	12.0	----	----	----
38+400	0.15	0.5	826	20.2	4.63	----
	0.3	1	72.7	6.85	0.755	----
	0.6	2	135	6.88	0.055	----
	0.9	3	23.5	----	----	----
38+600	0.15	0.5	4760	202	2.0	----
	0.3	1	1160	24.3	0.001	----
	0.6	2	356	12.6	0.586	----
	0.9	3	24.0	----	----	----
38+800	0.15	0.5	894	34.7	0.639	----
	0.3	1	1340	22.3	0.718	----
	0.6	2	466	22.3	0.782	----
	0.9	3	293	25.5	0.26	----
38+1000	0.15	0.5	1950	70.6	1.84	6.72
	0.3	1	1070	69.8	1.91	6.95
	0.6	2	763	28.8	1.92	7.11
	0.9	3	607	40.9	1.37	7.17
38+1200	0.15	0.5	2110	123	3.35	----
	0.3	1	1320	107	2.3	----
	0.6	2	761	70.6	3.81	----
	0.9	3	8.07	----	----	----
38+1400	0.15	0.5	411	14.6	1.76	----
	0.3	1	27.8	----	----	----
	0.6	2	9.33	----	----	----
	0.9	3	20.2	----	----	----

TABLE 1

SUMMARY OF ANALYTICAL RESULTS OF SOIL SAMPLING
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Lead			pH (units)
			Total (mg/kg)	WET (mg/L)	DI WET (mg/L)	
38+1600	0.15	0.5	794	52.7	8.1	----
	0.3	1	138	25	0.503	----
	0.6	2	98.5	3.74	----	----
	0.9	3	106	3.10	----	----
38+1800	0.15	0.5	215	5.57	0.673	----
	0.3	1	274	13.3	0.473	----
	0.6	2	24.7	----	----	----
	0.9	3	48.3	----	----	----
38+2200	0.15	0.5	722	42	1.82	----
	0.3	1	307	14.6	0.489	----
	0.6	2	21.7	----	----	----
	0.9	3	41.8	----	----	----
46+00	0.15	0.5	2520	110	1.68	----
	0.3	1	672	27.3	0.625	----
	0.6	2	26.4	----	----	----
	0.9	3	5.89	----	----	----
46+200	0.15	0.5	1530	84	4.02	----
	0.3	1	57.5	4.37	----	----
	0.6	2	186	16.1	0.846	----
	0.9	3	7.41	----	----	----
46+400	0.15	0.5	2800	91.6	15.2	----
	0.3	1	144	9.45	0.312	----
	0.6	2	34.2	----	----	----
	0.9	3	21.7	----	----	----
46+600	0.15	0.5	800	60	3.41	7.44
	0.3	1	9.11	----	----	7.84
	0.6	2	18.6	----	----	7.85
	0.9	3	28.4	----	----	7.94
46+800	0.15	0.5	110	8.89	0.346	----
	0.3	1	63.7	5.42	0.054	----
	0.6	2	97.4	3.1	----	----
	0.9	3	25.2	----	----	----
46+1000	0.15	0.5	1190	27.6	0.8	----
	0.3	1	781	39.5	0.685	----
	0.6	2	62.6	1.16	----	----
	0.9	3	10.9	----	----	----
46+1200	0.15	0.5	37.6	----	----	----
	0.3	1	4.65	----	----	----
	0.6	2	15.0	----	----	----
	0.9	3	4.45	----	----	----
46+1400	0.15	0.5	57.8	6.21	0.114	----
	0.3	1	45.2	----	----	----
	0.6	2	18.6	----	----	----
	0.9	3	5.97	----	----	----
46+1600	0.15	0.5	83.9	2.98	----	----
	0.3	1	7.07	----	----	----
	0.6	2	8.74	----	----	----
	0.9	3	7.34	----	----	----
46+1800	0.15	0.5	23.2	----	----	----
	0.3	1	63.7	1.83	----	----
	0.6	2	18.1	----	----	----
	0.9	3	5.5	----	----	----
46+2000	0.15	0.5	20.3	----	----	----
	0.3	1	6.84	----	----	----
	0.6	2	4.33	----	----	----
	0.9	3	6.74	----	----	----
35+00	0.15	0.5	481	10.9	0.381	----
	0.3	1	134	4.42	----	----
	0.6	2	23.7	----	----	----
	0.9	3	12.5	----	----	----
35+100	0.15	0.5	523	18.6	0.888	----
	0.3	1	25.9	----	----	----
	0.6	2	46.0	----	----	----
	0.9	3	36.5	----	----	----

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TABLE 1

SUMMARY OF ANALYTICAL RESULTS OF SOIL SAMPLING
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Lead			pH (units)
			Total (mg/kg)	WET (mg/L)	DI WET (mg/L)	
35+200	0.15	0.5	1570	80.1	3.01	----
	0.3	1	8.02	----	----	----
	0.6	2	9.1	----	----	----
	0.9	3	16.5	----	----	----
35+300	0.15	0.5	499	22.3	0.345	----
	0.3	1	9.28	----	----	----
	0.6	2	6.45	----	----	----
	0.9	3	6.51	----	----	----
35+400	0.15	0.5	1160	78.3	1.95	----
	0.3	1	5.97	----	----	----
	0.6	2	6.20	----	----	----
	0.9	3	12.6	----	----	----
35+500	0.15	0.5	309	7.61	0.178	----
	0.3	1	98.8	5.88	0.138	----
	0.6	2	244	1.69	----	----
	0.9	3	29.3	----	----	----
39+00	0.15	0.5	29.8	----	----	----
	0.3	1	3.84	----	----	----
	0.6	2	4.66	----	----	----
	0.9	3	4.46	----	----	----
39+100	0.15	0.5	2040	86.7	4.33	----
	0.3	1	123	17.8	0.548	----
	0.6	2	176	12.4	0.105	----
	0.9	3	262	2.5	----	----
39+200	0.15	0.5	421	24.7	1.08	----
	0.3	1	5.71	----	----	----
	0.6	2	6.73	----	----	----
	0.9	3	20.3	----	----	----
39+300	0.15	0.5	1030	51.8	2.01	----
	0.3	1	8.80	----	----	----
	0.6	2	10.0	----	----	----
	0.9	3	140	2.52	----	----
39+400	0.15	0.5	2700	197	10.4	----
	0.3	1	383	6.59	0.142	----
	0.6	2	849	64.4	4.17	----
	0.9	3	48.2	----	----	----
39+500	0.15	0.5	211	16.9	0.52	----
	0.3	1	63.6	0.05	----	----
	0.6	2	17.4	----	----	----
	0.9	3	6.64	----	----	----
39+600	0.15	0.5	412	21.7	0.662	----
	0.3	1	52.9	5.62	0.091	----
	0.6	2	6.77	----	----	----
	0.9	3	5.71	----	----	----
39+700	0.15	0.5	613	24.7	1.06	7.31
	0.3	1	236	18.4	0.606	7.54
	0.6	2	351	8.43	0.216	7.62
	0.9	3	8.95	----	----	7.73
39+800	0.15	0.5	51.4	3.15	----	----
	0.3	1	239	11.8	0.383	----
	0.6	2	28.3	----	----	----
	0.9	3	148	9.36	0.150	----
39+900	0.15	0.5	643	39.4	3.56	----
	0.3	1	831	29.3	0.69	----
	0.6	2	231	15.8	0.22	----
	0.9	3	291	11.9	0.325	----
39+1000	0.15	0.5	410	17.2	0.597	----
	0.3	1	182	10.5	0.664	----
	0.6	2	25.8	----	----	----
	0.9	3	33.8	----	----	----
39+1100	0.15	0.5	447	23.9	0.612	----
	0.3	1	63.2	5.33	0.280	----
	0.6	2	30.7	----	----	----
	0.9	3	79.8	1.69	----	----

TABLE 1

SUMMARY OF ANALYTICAL RESULTS OF SOIL SAMPLING
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Lead			pH (unlts)
			Total (mg/kg)	WET (mg/L)	DI WET (mg/L)	
39+1200	0.15	0.5	429	11.0	0.766	----
	0.3	1	538	25.9	0.839	----
	0.6	2	74.5	3.52	----	----
	0.9	3	347	13.0	1.09	----
45+00	0.15	0.5	607	27.2	1.36	----
	0.3	1	116	11.2	0.451	----
	0.6	2	108	10.0	0.526	----
	0.9	3	8.44	----	----	----
45+100	0.15	0.5	293	13.4	0.468	----
	0.3	1	339	18.2	1.31	----
	0.6	2	90.6	14.4	0.468	----
	0.9	3	29.7	----	----	----
45+200	0.15	0.5	659	29.8	2.90	----
	0.3	1	46.6	----	----	----
	0.6	2	10.1	----	----	----
	0.9	3	7.85	----	----	----
45+300	0.15	0.5	402	13.3	1.70	----
	0.3	1	20.7	----	----	----
	0.6	2	17.1	----	----	----
	0.9	3	15.7	----	----	----
45+400	0.15	0.5	514	32.0	2.91	----
	0.3	1	287	11.0	0.511	----
	0.6	2	156	7.21	0.476	----
	0.9	3	35.6	----	----	----
45+500	0.15	0.5	862	35.5	5.83	----
	0.3	1	703	36.3	2.29	----
	0.6	2	403	26.7	1.28	----
	0.9	3	363	25.2	2.22	----
45+600	0.15	0.5	612	39.7	3.74	----
	0.3	1	206	11.6	0.42	----
	0.6	2	231	18.5	1.56	----
	0.9	3	32.7	----	----	----
45+700	0.15	0.5	826	32.4	1.03	----
	0.3	1	903	50.5	1.61	----
	0.6	2	153	17.9	0.386	----
	0.9	3	143	14.6	0.591	----
45+800	0.15	0.5	364	18.7	2.28	----
	0.3	1	67.8	6.54	0.281	----
	0.6	2	90.6	3.85	----	----
	0.9	3	88.7	4.21	----	----
45+900	0.15	0.5	171	12.3	0.757	7.59
	0.3	1	47.3	----	----	8.10
	0.6	2	12.5	----	----	8.11
	0.9	3	33.0	----	----	8.09
45+1000	0.15	0.5	349	13.7	2.29	----
	0.3	1	135	6.49	0.662	----
	0.6	2	34.1	----	----	----
	0.9	3	141	12.7	1.48	----
45+1100	0.15	0.5	1640	35.6	5.72	----
	0.3	1	575	25.7	2.22	----
	0.6	2	9.63	----	----	----
	0.9	3	166	5.80	0.446	----
45+1200	0.15	0.5	961	39.7	9.13	----
	0.3	1	91.7	8.21	0.783	----
	0.6	2	8.42	----	----	----
	0.9	3	5.92	----	----	----
45+1300	0.15	0.5	67.2	20.9	1.80	----
	0.3	1	206	11.9	0.701	----
	0.6	2	317	22.4	1.26	----
	0.9	3	572	2.45	----	----
45+1400	0.15	0.5	235	6.03	0.261	----
	0.3	1	54.6	2.28	----	----
	0.6	2	43.7	----	----	----
	0.9	3	18.6	----	----	----

TABLE 1

SUMMARY OF ANALYTICAL RESULTS OF SOIL SAMPLING
 Route 405 - Construction of Soundwall
 Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Lead			pH (units)
			Total (mg/kg)	WET (mg/L)	DI WET (mg/L)	
45+1500	0.15	0.5	618	42.4	5.37	----
	0.3	1	26.9	----	----	----
	0.6	2	93.4	4.18	----	----
	0.9	3	87.7	1.30	----	----
45+1600	0.15	0.5	884	34.9	2.69	----
	0.3	1	59.4	4.28	----	----
	0.6	2	239	8.89	0.214	----
	0.9	3	187	1.66	----	----
45+1700	0.15	0.5	679	40.6	2.01	----
	0.3	1	272	5.44	0.191	----
	0.6	2	89.9	9.90	0.257	----
	0.9	3	108	0.747	----	----
45+1800	0.15	0.5	3084	155	13.3	----
	0.3	1	455	21.8	1.91	----
	0.6	2	308	9.96	0.254	----
	0.9	3	26.5	----	----	----

Abbreviations:

m Meters
 ft Feet
 mg/kg Milligrams per kilogram
 mg/L Milligrams per liter
 ND Not detected above the method detection limit
 ---- Not analyzed

TABLE 2

ALL SAMPLES
LEAD STATISTICAL ANALYSIS AND CALCULATIONS
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)		WET (mg/L)		DI WET (mg/L)	
			Normal	Lognormal	Normal	Lognormal	Normal	Lognormal
30+00	0.15	0.5	327	5.79	27.7	3.32	1.72	0.54
	0.3	1	33.2	3.50	----	----	----	----
	0.6	2	32.5	3.48	----	----	----	----
	0.9	3	12.3	2.51	----	----	----	----
30+200	0.15	0.5	609	6.41	46.1	3.83	2.31	0.84
	0.3	1	260	5.56	24.7	3.21	1.97	0.68
	0.6	2	27.8	3.33	----	----	----	----
	0.9	3	98.1	4.59	12	2.48	0.339	-1.08
30+400	0.15	0.5	161	5.08	19.1	2.95	0.856	-0.16
	0.3	1	148	5.00	12.8	2.55	0.674	-0.39
	0.6	2	7.98	2.08	----	----	----	----
	0.9	3	65.3	4.18	2.94	1.08	----	----
30+600	0.15	0.5	268	5.59	7.47	2.01	0.63	-0.46
	0.3	1	396	5.98	8.36	2.12	0.372	-0.99
	0.6	2	24.2	3.19	----	----	----	----
	0.9	3	90.8	4.51	3.09	1.13	----	----
30+800	0.15	0.5	16.9	2.83	----	----	----	----
	0.3	1	96.5	4.57	3.81	1.34	----	----
	0.6	2	25.8	3.25	----	----	----	----
	0.9	3	50.7	3.93	6.13	1.81	0.127	-2.06
34a+00	0.15	0.5	756	6.63	40.1	3.69	0.477	-0.74
	0.3	1	491	6.20	25	3.22	0.307	-1.18
	0.6	2	21.6	3.07	----	----	----	----
	0.9	3	5.71	1.74	----	----	----	----
34a+200	0.15	0.5	536	6.28	23.5	3.16	0.379	-0.97
	0.3	1	60.9	4.11	1.7	0.53	----	----
	0.6	2	8.59	2.15	----	----	----	----
	0.9	3	----	----	----	----	----	----
34a+600	0.15	0.5	664	6.50	22.4	3.11	0.653	-0.43
	0.3	1	341	5.83	10.1	2.31	0.562	-0.58
	0.6	2	15.4	2.73	----	----	----	----
	0.9	3	31.8	3.46	----	----	----	----
38+00	0.15	0.5	635	6.45	27.6	3.32	0.499	-0.70
	0.3	1	757	6.63	42.5	3.75	0.586	-0.53
	0.6	2	180	5.19	1.3	0.26	----	----
	0.9	3	16.2	2.79	----	----	----	----
38+200	0.15	0.5	518	6.25	22.5	3.11	0.732	-0.31
	0.3	1	12.8	2.55	----	----	----	----
	0.6	2	25	3.22	----	----	----	----
	0.9	3	12	2.48	----	----	----	----
38+400	0.15	0.5	826	6.72	20.2	3.01	4.63	1.53
	0.3	1	72.7	4.29	6.85	1.92	0.755	-0.28
	0.6	2	135	4.91	6.88	1.93	0.055	-2.90
	0.9	3	23.5	3.16	----	----	----	----
38+600	0.15	0.5	4760	8.47	202	5.31	2.0	0.69
	0.3	1	1160	7.06	24.3	3.19	0.001	-6.91
	0.6	2	356	5.87	12.6	2.53	0.586	-0.53
	0.9	3	24	3.18	----	----	----	----
38+800	0.15	0.5	894	6.80	34.7	3.55	0.639	-0.45
	0.3	1	1340	7.20	22.3	3.10	0.718	-0.33
	0.6	2	466	6.14	22.3	3.10	0.782	-0.25
	0.9	3	293	5.68	25.5	3.24	0.26	-1.35
38+1000	0.15	0.5	1950	7.58	70.6	4.26	1.84	0.61
	0.3	1	1070	6.98	69.8	4.25	1.91	0.65
	0.6	2	763	6.64	28.8	3.36	1.92	0.65
	0.9	3	607	6.41	40.9	3.71	1.37	0.31
38+1200	0.15	0.5	2110	7.65	123	4.81	3.35	1.21
	0.3	1	1320	7.19	107	4.67	2.3	0.83
	0.6	2	761	6.63	70.6	4.26	3.81	1.34
	0.9	3	8.07	2.09	----	----	----	----

TABLE 2

ALL SAMPLES
LEAD STATISTICAL ANALYSIS AND CALCULATIONS
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)		WET (mg/L)		DI WET (mg/L)	
			Normal	Lognormal	Normal	Lognormal	Normal	Lognormal
38+1400	0.15	0.5	411	6.02	14.6	2.68	1.76	0.57
	0.3	1	27.8	3.33	-----	-----	-----	-----
	0.6	2	9.33	2.23	-----	-----	-----	-----
	0.9	3	20.2	3.01	-----	-----	-----	-----
38+1600	0.15	0.5	794	6.68	52.7	3.96	8.1	2.09
	0.3	1	138	4.93	25	3.22	0.503	-0.69
	0.6	2	98.5	4.59	3.74	1.32	-----	-----
	0.9	3	106	4.66	3.1	1.13	-----	-----
38+1800	0.15	0.5	215	5.37	5.57	1.72	0.673	-0.40
	0.3	1	274	5.61	13.3	2.59	0.473	-0.75
	0.6	2	24.7	3.21	-----	-----	-----	-----
	0.9	3	48.3	3.88	-----	-----	-----	-----
38+2200	0.15	0.5	722	6.58	42	3.74	1.82	0.60
	0.3	1	307	5.73	14.6	2.68	0.489	-0.72
	0.6	2	21.7	3.08	-----	-----	-----	-----
	0.9	3	41.8	3.73	-----	-----	-----	-----
46+00	0.15	0.5	2520	7.83	110	4.70	1.68	0.52
	0.3	1	672	6.51	27.3	3.31	0.625	-0.47
	0.6	2	26.4	3.27	-----	-----	-----	-----
	0.9	3	5.89	1.77	-----	-----	-----	-----
46+200	0.15	0.5	1530	7.33	84	4.43	4.02	1.39
	0.3	1	57.5	4.05	4.37	1.47	-----	-----
	0.6	2	186	5.23	16.1	2.78	0.846	-0.17
	0.9	3	7.41	2.00	-----	-----	-----	-----
46+400	0.15	0.5	2800	7.94	91.6	4.52	15.2	2.72
	0.3	1	144	4.97	9.45	2.25	0.312	-1.16
	0.6	2	34.2	3.53	-----	-----	-----	-----
	0.9	3	21.7	3.08	-----	-----	-----	-----
46+600	0.15	0.5	800	6.68	60	-----	3.41	1.23
	0.3	1	9.11	2.21	-----	-----	-----	-----
	0.6	2	18.6	2.92	-----	-----	-----	-----
	0.9	3	28.4	3.35	-----	-----	-----	-----
46+800	0.15	0.5	110	4.70	8.89	2.18	0.346	-1.06
	0.3	1	63.7	4.15	5.42	-----	0.054	-2.92
	0.6	2	97.4	4.58	3.1	1.13	-----	-----
	0.9	3	25.2	3.23	-----	-----	-----	-----
46+1000	0.15	0.5	1190	7.08	27.6	3.32	0.8	-0.22
	0.3	1	781	6.66	39.5	3.68	0.685	-0.38
	0.6	2	62.6	4.14	1.16	0.15	-----	-----
	0.9	3	10.9	2.39	-----	-----	-----	-----
46+1200	0.15	0.5	37.6	3.63	-----	-----	-----	-----
	0.3	1	4.65	1.54	-----	-----	-----	-----
	0.6	2	15	2.71	-----	-----	-----	-----
	0.9	3	4.45	1.49	-----	-----	-----	-----
46+1400	0.15	0.5	57.8	4.06	6.21	1.83	0.114	-2.17
	0.3	1	45.2	3.81	-----	-----	-----	-----
	0.6	2	18.6	2.92	-----	-----	-----	-----
	0.9	3	5.97	1.79	-----	-----	-----	-----
46+1600	0.15	0.5	83.9	4.43	2.98	1.09	-----	-----
	0.3	1	7.07	1.96	-----	-----	-----	-----
	0.6	2	8.74	2.17	-----	-----	-----	-----
	0.9	3	7.34	1.99	-----	-----	-----	-----
46+1800	0.15	0.5	23.2	3.14	-----	-----	-----	-----
	0.3	1	63.7	4.15	1.83	0.60	-----	-----
	0.6	2	18.1	2.90	-----	-----	-----	-----
	0.9	3	5.5	1.70	-----	-----	-----	-----
46+2000	0.15	0.5	20.3	3.01	-----	-----	-----	-----
	0.3	1	6.84	1.92	-----	-----	-----	-----
	0.6	2	4.33	1.47	-----	-----	-----	-----
	0.9	3	6.74	1.91	-----	-----	-----	-----

TABLE 2

ALL SAMPLES
LEAD STATISTICAL ANALYSIS AND CALCULATIONS
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal	WET (mg/L) Normal	WET Lognormal	DI WET (mg/L) Normal	DI WET Lognormal
35+00	0.15	0.5	481	6.18	10.9	2.39	0.381	-0.96
	0.3	1	134	4.90	4.42	1.49	-----	-----
	0.6	2	23.7	3.17	-----	-----	-----	-----
	0.9	3	12.5	2.53	-----	-----	-----	-----
35+100	0.15	0.5	523	6.26	18.6	2.92	0.888	-0.12
	0.3	1	25.9	3.25	-----	-----	-----	-----
	0.6	2	46	3.83	-----	-----	-----	-----
	0.9	3	36.5	3.60	-----	-----	-----	-----
35+200	0.15	0.5	1570	7.36	80.1	4.38	3.01	1.10
	0.3	1	8.02	2.08	-----	-----	-----	-----
	0.6	2	9.1	2.21	-----	-----	-----	-----
	0.9	3	16.5	2.80	-----	-----	-----	-----
35+300	0.15	0.5	499	6.21	22.3	3.10	0.345	-1.06
	0.3	1	9.28	2.23	-----	-----	-----	-----
	0.6	2	6.45	1.86	-----	-----	-----	-----
	0.9	3	6.51	1.87	-----	-----	-----	-----
35+400	0.15	0.5	1160	7.06	78.3	4.36	1.95	0.67
	0.3	1	5.97	1.79	-----	-----	-----	-----
	0.6	2	6.2	1.82	-----	-----	-----	-----
	0.9	3	12.6	2.53	-----	-----	-----	-----
35+500	0.15	0.5	309	5.73	7.61	2.03	0.178	-1.73
	0.3	1	98.8	4.59	5.88	1.77	0.138	-1.98
	0.6	2	244	5.50	1.69	-----	-----	-----
	0.9	3	29.3	3.38	-----	-----	-----	-----
39+00	0.15	0.5	29.8	3.39	-----	-----	-----	-----
	0.3	1	3.84	1.35	-----	-----	-----	-----
	0.6	2	4.66	1.54	-----	-----	-----	-----
	0.9	3	4.46	1.50	-----	-----	-----	-----
39+100	0.15	0.5	2040	7.62	86.7	4.46	4.33	1.47
	0.3	1	123	4.81	17.8	2.88	0.548	-0.60
	0.6	2	176	5.17	12.4	2.52	0.105	-2.25
	0.9	3	262	5.57	2.5	0.92	-----	-----
39+200	0.15	0.5	421	6.04	24.7	3.21	1.08	0.08
	0.3	1	5.71	1.74	-----	-----	-----	-----
	0.6	2	6.73	1.91	-----	-----	-----	-----
	0.9	3	20.3	3.01	-----	-----	-----	-----
39+300	0.15	0.5	1030	6.94	51.8	3.95	2.01	0.70
	0.3	1	8.8	2.17	-----	-----	-----	-----
	0.6	2	10	2.30	-----	-----	-----	-----
	0.9	3	140	4.94	2.52	0.92	-----	-----
39+400	0.15	0.5	2700	7.90	197	5.28	10.4	2.34
	0.3	1	383	5.95	6.59	1.89	0.142	-1.95
	0.6	2	849	6.74	64.4	4.17	4.17	1.43
	0.9	3	48.2	3.88	-----	-----	-----	-----
39+500	0.15	0.5	211	5.35	16.9	2.83	0.52	-0.65
	0.3	1	63.6	4.15	0.05	-----	-----	-----
	0.6	2	17.4	2.86	-----	-----	-----	-----
	0.9	3	6.64	1.89	-----	-----	-----	-----
39+600	0.15	0.5	412	6.02	21.7	3.08	0.662	-0.41
	0.3	1	52.9	3.97	5.62	1.73	0.091	-2.40
	0.6	2	6.77	1.91	-----	-----	-----	-----
	0.9	3	5.71	1.74	-----	-----	-----	-----
39+700	0.15	0.5	613	6.42	24.7	3.21	1.06	0.06
	0.3	1	236	5.46	18.4	2.91	0.606	-0.50
	0.6	2	351	5.86	8.43	2.13	0.216	-1.53
	0.9	3	8.95	2.19	-----	-----	-----	-----
39+800	0.15	0.5	51.4	3.94	3.15	1.15	-----	-----
	0.3	1	239	5.48	11.8	2.47	0.383	-0.96
	0.6	2	28.3	3.34	-----	-----	-----	-----
	0.9	3	148	5.00	9.36	2.24	0.15	-1.90

TABLE 2

ALL SAMPLES
LEAD STATISTICAL ANALYSIS AND CALCULATIONS
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)		WET (mg/L)		DI WET (mg/L)	
			Normal	Lognormal	Normal	Lognormal	Normal	Lognormal
39+900	0.15	0.5	643	6.47	39.4	3.67	3.56	1.27
	0.3	1	831	6.72	29.3	3.38	0.69	-0.37
	0.6	2	231	5.44	15.8	2.76	0.22	-1.51
	0.9	3	291	5.67	11.9	2.48	0.325	-1.12
39+1000	0.15	0.5	410	6.02	17.2	2.84	0.597	-0.52
	0.3	1	182	5.20	10.5	2.35	0.664	-0.41
	0.6	2	25.8	3.25	-----	-----	-----	-----
	0.9	3	33.8	3.52	-----	-----	-----	-----
39+1100	0.15	0.5	447	6.10	23.9	3.17	0.612	-0.49
	0.3	1	63.2	4.15	5.33	1.67	0.28	-1.27
	0.6	2	30.7	3.42	-----	-----	-----	-----
	0.9	3	79.8	4.38	1.69	0.52	-----	-----
39+1200	0.15	0.5	429	6.06	11	2.40	0.766	-0.27
	0.3	1	538	6.29	25.9	3.25	0.839	-0.18
	0.6	2	74.5	4.31	3.52	1.26	-----	-----
	0.9	3	347	5.85	13	2.56	1.09	0.09
45+00	0.15	0.5	607	6.41	27.2	3.30	1.36	0.31
	0.3	1	116	4.75	11.2	2.42	0.451	-0.80
	0.6	2	108	4.68	10	2.30	0.526	-0.64
	0.9	3	8.44	2.13	-----	-----	-----	-----
45+100	0.15	0.5	293	5.68	13.4	2.60	0.468	-0.76
	0.3	1	339	5.83	18.2	2.90	1.31	0.27
	0.6	2	90.6	4.51	14.4	2.67	0.468	-0.76
	0.9	3	29.7	3.39	-----	-----	-----	-----
45+200	0.15	0.5	659	6.49	29.8	3.39	2.9	1.06
	0.3	1	46.6	3.84	-----	-----	-----	-----
	0.6	2	10.1	2.31	-----	-----	-----	-----
	0.9	3	7.85	2.06	-----	-----	-----	-----
45+300	0.15	0.5	402	6.00	13.3	2.59	1.7	0.53
	0.3	1	20.7	3.03	-----	-----	-----	-----
	0.6	2	17.1	2.84	-----	-----	-----	-----
	0.9	3	15.7	2.75	-----	-----	-----	-----
45+400	0.15	0.5	514	6.24	32	3.47	2.91	1.07
	0.3	1	287	5.66	11	2.40	0.511	-0.67
	0.6	2	156	5.05	7.21	1.98	0.476	-0.74
	0.9	3	35.6	3.57	-----	-----	-----	-----
45+500	0.15	0.5	862	6.76	35.5	3.57	5.83	1.76
	0.3	1	703	6.56	36.3	3.59	2.29	0.83
	0.6	2	403	6.00	26.7	3.28	1.28	0.25
	0.9	3	363	5.89	25.2	3.23	2.22	0.80
45+600	0.15	0.5	612	6.42	39.7	3.68	3.74	1.32
	0.3	1	206	5.33	11.6	2.45	0.42	-0.87
	0.6	2	231	5.44	18.5	2.92	1.56	0.44
	0.9	3	32.7	3.49	-----	-----	-----	-----
45+700	0.15	0.5	826	6.72	32.4	3.48	1.03	0.03
	0.3	1	903	6.81	50.5	3.92	1.61	0.48
	0.6	2	153	5.03	17.9	2.88	0.386	-0.95
	0.9	3	143	4.96	14.6	2.68	0.591	-0.53
45+800	0.15	0.5	364	5.90	18.7	2.93	2.28	0.82
	0.3	1	67.8	4.22	6.54	1.88	0.281	-1.27
	0.6	2	90.6	4.51	3.85	1.35	-----	-----
	0.9	3	88.7	4.49	4.21	1.44	-----	-----
45+900	0.15	0.5	171	5.14	12.3	2.51	0.757	-0.28
	0.3	1	47.3	3.86	-----	-----	-----	-----
	0.6	2	12.5	2.53	-----	-----	-----	-----
	0.9	3	33	3.50	-----	-----	-----	-----
45+1000	0.15	0.5	349	5.86	13.7	2.62	2.29	0.83
	0.3	1	135	4.91	6.49	1.87	0.662	-0.41
	0.6	2	34.1	3.53	-----	-----	-----	-----
	0.9	3	141	4.95	12.7	2.54	1.48	0.39

TABLE 2

ALL SAMPLES
LEAD STATISTICAL ANALYSIS AND CALCULATIONS
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal	WET (mg/L) Normal	WET Lognormal	DI WET (mg/L) Normal	DI WET Lognormal
45+1100	0.15	0.5	1640	7.40	35.6	3.57	5.72	1.74
	0.3	1	575	6.35	25.7	3.25	2.22	0.80
	0.6	2	9.63	2.26	-----	-----	-----	-----
	0.9	3	166	5.11	5.8	1.76	0.446	-0.81
45+1200	0.15	0.5	961	6.87	39.7	3.68	9.13	2.21
	0.3	1	91.7	4.52	8.21	2.11	0.783	-0.24
	0.6	2	8.42	2.13	-----	-----	-----	-----
	0.9	3	5.92	1.78	-----	-----	-----	-----
45+1300	0.15	0.5	67.2	4.21	20.9	3.04	1.8	0.59
	0.3	1	206	5.33	11.9	2.48	0.701	-0.36
	0.6	2	317	5.76	22.4	3.11	1.26	0.23
	0.9	3	572	6.35	2.45	0.90	-----	-----
45+1400	0.15	0.5	235	5.46	6.03	1.80	0.261	-1.34
	0.3	1	54.6	4.00	2.28	0.82	-----	-----
	0.6	2	43.7	3.78	-----	-----	-----	-----
	0.9	3	18.6	2.92	-----	-----	-----	-----
45+1500	0.15	0.5	618	6.43	42.4	3.75	5.37	1.68
	0.3	1	26.9	3.29	-----	-----	-----	-----
	0.6	2	93.4	4.54	4.18	1.43	-----	-----
	0.9	3	87.7	4.47	1.3	0.26	-----	-----
45+1600	0.15	0.5	884	6.78	34.9	3.55	2.69	0.99
	0.3	1	59.4	4.08	4.28	1.45	-----	-----
	0.6	2	239	5.48	8.89	2.18	0.214	-1.54
	0.9	3	187	5.23	1.66	0.51	-----	-----
45+1700	0.15	0.5	679	6.52	40.6	3.70	2.01	0.70
	0.3	1	272	5.61	5.44	1.69	0.191	-1.66
	0.6	2	89.9	4.50	9.9	2.29	0.257	-1.36
	0.9	3	108	4.68	0.747	-0.29	-----	-----
45+1800	0.15	0.5	3084	8.03	155	5.04	13.3	2.59
	0.3	1	455	6.12	21.8	3.08	1.91	0.65
	0.6	2	308	5.73	9.96	2.30	0.254	-1.37
	0.9	3	26.5	3.28	-----	-----	-----	-----
Sample Population			271	271	162	162	133	133
Degrees of Freedom			270	270	161	161	132	132
Mean			314.60	4.50	25.16	2.67	1.62	-0.19
Standard Deviation			550.82	1.73	31.70	1.10	2.32	1.26
H(95%)				-----		-----		-----
95% UCL			371.05	#VALUE!	29.36	#VALUE!	1.96	#VALUE!
H(90%)				-----		-----		-----
90% UCL				#VALUE!		#VALUE!		#VALUE!
80% UCL			344.51		27.38		1.80	

TABLE 3
ALL SAMPLES NORTHBOUND
LEAD STATISTICAL ANALYSIS AND CALCULATIONS
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)		WET (mg/L)		DI WET (mg/L)	
			Normal	Lognormal	Normal	Lognormal	Normal	Lognormal
30+00	0.15	0.5	327	5.79	27.7	3.32	1.72	0.54
	0.3	1	33.2	3.50	----	----	----	----
	0.6	2	32.5	3.48	----	----	----	----
	0.9	3	12.3	2.51	----	----	----	----
30+200	0.15	0.5	609	6.41	46.1	3.83	2.31	0.84
	0.3	1	260	5.56	24.7	3.21	1.97	0.68
	0.6	2	27.8	3.33	----	----	----	----
	0.9	3	98.1	4.59	12	2.48	0.339	-1.08
30+400	0.15	0.5	161	5.08	19.1	2.95	0.856	-0.16
	0.3	1	148	5.00	12.8	2.55	0.674	-0.39
	0.6	2	7.98	2.08	----	----	----	----
	0.9	3	65.3	4.18	2.94	1.08	----	----
30+600	0.15	0.5	268	5.59	7.47	2.01	0.63	-0.46
	0.3	1	396	5.98	8.36	2.12	0.372	-0.99
	0.6	2	24.2	3.19	----	----	----	----
	0.9	3	90.8	4.51	3.09	1.13	----	----
30+800	0.15	0.5	16.9	2.83	----	----	----	----
	0.3	1	96.5	4.57	3.81	1.34	----	----
	0.6	2	25.8	3.25	----	----	----	----
	0.9	3	50.7	3.93	6.13	1.81	0.127	-2.06
34a+00	0.15	0.5	756	6.63	40.1	3.69	0.477	-0.74
	0.3	1	491	6.20	25	3.22	0.307	-1.18
	0.6	2	21.6	3.07	----	----	----	----
	0.9	3	5.71	1.74	----	----	----	----
34a+200	0.15	0.5	536	6.28	23.5	3.16	0.379	-0.97
	0.3	1	60.9	4.11	1.7	0.53	----	----
	0.6	2	8.59	2.15	----	----	----	----
	0.9	3	----	----	----	----	----	----
34a+600	0.15	0.5	664	6.50	22.4	3.11	0.653	-0.43
	0.3	1	341	5.83	10.1	2.31	0.562	-0.58
	0.6	2	15.4	2.73	----	----	----	----
	0.9	3	31.8	3.46	----	----	----	----
38+00	0.15	0.5	635	6.45	27.6	3.32	0.499	-0.70
	0.3	1	757	6.63	42.5	3.75	0.586	-0.53
	0.6	2	180	5.19	1.3	0.26	----	----
	0.9	3	16.2	2.79	----	----	----	----
38+200	0.15	0.5	518	6.25	22.5	3.11	0.732	-0.31
	0.3	1	12.8	2.55	----	----	----	----
	0.6	2	25	3.22	----	----	----	----
	0.9	3	12	2.48	----	----	----	----
38+400	0.15	0.5	826	6.72	20.2	3.01	4.63	1.53
	0.3	1	72.7	4.29	6.85	1.92	0.755	-0.28
	0.6	2	135	4.91	6.88	1.93	0.055	-2.90
	0.9	3	23.5	3.16	----	----	----	----
38+600	0.15	0.5	4760	8.47	202	5.31	2	0.69
	0.3	1	1160	7.06	24.3	3.19	0.001	-6.91
	0.6	2	356	5.87	12.6	2.53	0.586	-0.53
	0.9	3	24	3.18	----	----	----	----
38+800	0.15	0.5	894	6.80	34.7	3.55	0.639	-0.45
	0.3	1	1340	7.20	22.3	3.10	0.718	-0.33
	0.6	2	466	6.14	22.3	3.10	0.782	-0.25
	0.9	3	293	5.68	25.5	3.24	0.26	-1.35
38+1000	0.15	0.5	1950	7.58	70.6	4.26	1.84	0.61
	0.3	1	1070	6.98	69.8	4.25	1.91	0.65
	0.6	2	763	6.64	28.8	3.36	1.92	0.65
	0.9	3	607	6.41	40.9	3.71	1.37	0.31
38+1200	0.15	0.5	2110	7.65	123	4.81	3.35	1.21
	0.3	1	1320	7.19	107	4.67	2.3	0.83
	0.6	2	761	6.63	70.6	4.26	3.81	1.34
	0.9	3	8.07	2.09	----	----	----	----
38+1400	0.15	0.5	411	6.02	14.6	2.68	1.76	0.57
	0.3	1	27.8	3.33	----	----	----	----
	0.6	2	9.33	2.23	----	----	----	----
	0.9	3	20.2	3.01	----	----	----	----
38+1600	0.15	0.5	794	6.68	52.7	3.96	8.1	2.09
	0.3	1	138	4.93	25	3.22	0.503	-0.69
	0.6	2	98.5	4.59	3.74	1.32	----	----
	0.9	3	106	4.66	3.1	1.13	----	----
38+1800	0.15	0.5	215	5.37	5.57	1.72	0.673	-0.40
	0.3	1	274	5.61	13.3	2.59	0.473	-0.75
	0.6	2	24.7	3.21	----	----	----	----
	0.9	3	48.3	3.88	----	----	----	----

TABLE 3

ALL SAMPLES NORTHBOUND
LEAD STATISTICAL ANALYSIS AND CALCULATIONS
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal	WET (mg/L) Normal	WET Lognormal	DI WET (mg/L) Normal	DI WET Lognormal
38+2200	0.15	0.5	722	6.58	42	3.74	1.82	0.60
	0.3	1	307	5.73	14.6	2.68	0.489	-0.72
	0.6	2	21.7	3.08	----	----	----	----
	0.9	3	41.8	3.73	----	----	----	----
46+00	0.15	0.5	2520	7.83	110	4.70	1.68	0.52
	0.3	1	672	6.51	27.3	3.31	0.625	-0.47
	0.6	2	26.4	3.27	----	----	----	----
	0.9	3	5.89	1.77	----	----	----	----
46+200	0.15	0.5	1530	7.33	84	4.43	4.02	1.39
	0.3	1	57.5	4.05	4.37	1.47	----	----
	0.6	2	186	5.23	16.1	2.78	0.846	-0.17
	0.9	3	7.41	2.00	----	----	----	----
46+400	0.15	0.5	2800	7.94	91.6	4.52	15.2	2.72
	0.3	1	144	4.97	9.45	2.25	0.312	-1.16
	0.6	2	34.2	3.53	----	----	----	----
	0.9	3	21.7	3.08	----	----	----	----
46+600	0.15	0.5	800	6.68	60	----	3.41	1.23
	0.3	1	9.11	2.21	----	----	----	----
	0.6	2	18.6	2.92	----	----	----	----
	0.9	3	28.4	3.35	----	----	----	----
46+800	0.15	0.5	110	4.70	8.89	2.18	0.346	-1.06
	0.3	1	63.7	4.15	5.42	----	0.054	-2.92
	0.6	2	97.4	4.58	3.1	1.13	----	----
	0.9	3	25.2	3.23	----	----	----	----
46+1000	0.15	0.5	1190	7.08	27.6	3.32	0.8	-0.22
	0.3	1	781	6.66	39.5	3.68	0.685	-0.38
	0.6	2	62.6	4.14	1.16	0.15	----	----
	0.9	3	10.9	2.39	----	----	----	----
46+1200	0.15	0.5	37.6	3.63	----	----	----	----
	0.3	1	4.65	1.54	----	----	----	----
	0.6	2	15	2.71	----	----	----	----
	0.9	3	4.45	1.49	----	----	----	----
46+1400	0.15	0.5	57.8	4.06	6.21	1.83	0.114	-2.17
	0.3	1	45.2	3.81	----	----	----	----
	0.6	2	18.6	2.92	----	----	----	----
	0.9	3	5.97	1.79	----	----	----	----
46+1600	0.15	0.5	83.9	4.43	2.98	1.09	----	----
	0.3	1	7.07	1.96	----	----	----	----
	0.6	2	8.74	2.17	----	----	----	----
	0.9	3	7.34	1.99	----	----	----	----
46+1800	0.15	0.5	23.2	3.14	----	----	----	----
	0.3	1	63.7	4.15	1.83	0.60	----	----
	0.6	2	18.1	2.90	----	----	----	----
	0.9	3	5.5	1.70	----	----	----	----
46+2000	0.15	0.5	20.3	3.01	----	----	----	----
	0.3	1	6.84	1.92	----	----	----	----
	0.6	2	4.33	1.47	----	----	----	----
	0.9	3	6.74	1.91	----	----	----	----
Sample Population			119	119	65	65	53	53
Degrees of Freedom			118	118	64	64	52	52
Mean			350.29	4.41	30.05	2.78	1.55	-0.30
Standard Deviation			657.10	1.82	35.69	1.21	2.40	1.45
H(95%)			----	----	----	2.39	----	2.66
95% UCL			452.16	#VALUE!	37.57	47.63	2.11	3.61
H(90%)			----	----	----	1.81	----	2.01
90% UCL			----	#VALUE!	----	43.65	----	3.16
80% UCL			404.25	----	34.03	----	1.84	----

TABLE 4 (PART 1)

NORTH BOUND - TOTAL LEAD
 LEAD STATISTICAL ANALYSIS AND CALCULATIONS
 Route 405 - Construction of Soundwall
 Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal
30+00	0.15	0.5	327	5.79
	0.3	1	33.2	3.50
	0.6	2	32.5	3.48
	0.9	3	12.3	2.51
30+200	0.15	0.5	609	6.41
	0.3	1	260	5.56
	0.6	2	27.8	3.33
	0.9	3	98.1	4.59
30+400	0.15	0.5	161	5.08
	0.3	1	148	5.00
	0.6	2	7.98	2.08
	0.9	3	65.3	4.18
30+600	0.15	0.5	268	5.59
	0.3	1	396	5.98
	0.6	2	24.2	3.19
	0.9	3	90.8	4.51
30+800	0.15	0.5	16.9	2.83
	0.3	1	96.5	4.57
	0.6	2	25.8	3.25
	0.9	3	50.7	3.93
34a+00	0.15	0.5	756	6.63
	0.3	1	491	6.20
	0.6	2	21.6	3.07
	0.9	3	5.71	1.74
34a+200	0.15	0.5	536	6.28
	0.3	1	60.9	4.11
	0.6	2	8.59	2.15
	0.9	3	-----	-----
34a+600	0.15	0.5	664	6.50
	0.3	1	341	5.83
	0.6	2	15.4	2.73
	0.9	3	31.8	3.46
Sample Population			31	31
Degrees of Freedom			30	30
Mean			183.33	4.32
Standard Deviation			222.21	1.47
H(95%)				3.04
95% UCL			251.65	506.17
H(90%)				2.25
90% UCL				409.28
80% UCL			219.51	

TABLE 4 (PART 2)

NORTHBOUND - TOTAL LEAD
 LEAD STATISTICAL ANALYSIS AND CALCULATIONS
 Route 405 - Construction of Soundwall
 Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal
38+00	0.15	0.5	635	6.45
	0.3	1	757	6.63
	0.6	2	180	5.19
	0.9	3	16.2	2.79
38+200	0.15	0.5	518	6.25
	0.3	1	12.8	2.55
	0.6	2	25	3.22
	0.9	3	12	2.48
38+400	0.15	0.5	826	6.72
	0.3	1	72.7	4.29
	0.6	2	135	4.91
	0.9	3	23.5	3.16
38+600	0.15	0.5	4760	8.47
	0.3	1	1160	7.06
	0.6	2	356	5.87
	0.9	3	24	3.18
38+800	0.15	0.5	894	6.80
	0.3	1	1340	7.20
	0.6	2	466	6.14
	0.9	3	293	5.68
38+1000	0.15	0.5	1950	7.58
	0.3	1	1070	6.98
	0.6	2	763	6.64
	0.9	3	607	6.41
38+1200	0.15	0.5	2110	7.65
	0.3	1	1320	7.19
	0.6	2	761	6.63
	0.9	3	8.07	2.09
38+1400	0.15	0.5	411	6.02
	0.3	1	27.8	3.33
	0.6	2	9.33	2.23
	0.9	3	20.2	3.01
38+1600	0.15	0.5	794	6.68
	0.3	1	138	4.93
	0.6	2	98.5	4.59
	0.9	3	106	4.66
38+1800	0.15	0.5	215	5.37
	0.3	1	274	5.61
	0.6	2	24.7	3.21
	0.9	3	48.3	3.88
38+2200	0.15	0.5	722	6.58
	0.3	1	307	5.73
	0.6	2	21.7	3.08
	0.9	3	41.8	3.73
46+00	0.15	0.5	2520	7.83
	0.3	1	672	6.51
	0.6	2	26.4	3.27
	0.9	3	5.89	1.77
46+200	0.15	0.5	1530	7.33
	0.3	1	57.5	4.05
	0.6	2	186	5.23
	0.9	3	7.41	2.00

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal
46+400	0.15	0.5	2800	7.94
	0.3	1	144	4.97
	0.6	2	34.2	3.53
	0.9	3	21.7	3.08
46+600	0.15	0.5	800	6.68
	0.3	1	9.11	2.21
	0.6	2	18.6	2.92
	0.9	3	28.4	3.35
46+800	0.15	0.5	110	4.70
	0.3	1	63.7	4.15
	0.6	2	97.4	4.58
	0.9	3	25.2	3.23
46+1000	0.15	0.5	1190	7.08
	0.3	1	781	6.66
	0.6	2	62.6	4.14
	0.9	3	10.9	2.39
46+1200	0.15	0.5	37.6	3.63
	0.3	1	4.65	1.54
	0.6	2	15	2.71
	0.9	3	4.45	1.49
46+1400	0.15	0.5	57.8	4.06
	0.3	1	45.2	3.81
	0.6	2	18.6	2.92
	0.9	3	5.97	1.79
46+1600	0.15	0.5	83.9	4.43
	0.3	1	7.07	1.96
	0.6	2	8.74	2.17
	0.9	3	7.34	1.99
46+1800	0.15	0.5	23.2	3.14
	0.3	1	63.7	4.15
	0.6	2	18.1	2.90
	0.9	3	5.5	1.70
46+2000	0.15	0.5	20.3	3.01
	0.3	1	6.84	1.92
	0.6	2	4.33	1.47
	0.9	3	6.74	1.91

Sample Population	88	88
Degrees of Freedom	87	87
Mean	409.11	4.44
Standard Deviation	745.10	1.94
H(95%)		3.21
95% UCL	543.63	1084.61
H(90%)		2.44
90% UCL		924.27
80% UCL	480.37	

TABLE 5
ALL SAMPLES SOUTHBOUND
LEAD STATISTICAL ANALYSIS AND CALCULATIONS
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)		WET (mg/L)		DI WET (mg/L)	
			Normal	Lognormal	Normal	Lognormal	Normal	Lognormal
35+00	0.15	0.5	481	6.18	10.9	2.39	0.381	-0.96
	0.3	1	134	4.90	4.42	1.49	-----	-----
	0.6	2	23.7	3.17	-----	-----	-----	-----
	0.9	3	12.5	2.53	-----	-----	-----	-----
35+100	0.15	0.5	523	6.26	18.6	2.92	0.888	-0.12
	0.3	1	25.9	3.25	-----	-----	-----	-----
	0.6	2	46	3.83	-----	-----	-----	-----
	0.9	3	36.5	3.60	-----	-----	-----	-----
35+200	0.15	0.5	1570	7.36	80.1	4.38	3.01	1.10
	0.3	1	8.02	2.08	-----	-----	-----	-----
	0.6	2	9.1	2.21	-----	-----	-----	-----
	0.9	3	16.5	2.80	-----	-----	-----	-----
35+300	0.15	0.5	499	6.21	22.3	3.10	0.345	-1.06
	0.3	1	9.28	2.23	-----	-----	-----	-----
	0.6	2	6.45	1.86	-----	-----	-----	-----
	0.9	3	6.51	1.87	-----	-----	-----	-----
35+400	0.15	0.5	1160	7.06	78.3	4.36	1.95	0.67
	0.3	1	5.97	1.79	-----	-----	-----	-----
	0.6	2	6.2	1.82	-----	-----	-----	-----
	0.9	3	12.6	2.53	-----	-----	-----	-----
35+500	0.15	0.5	309	5.73	7.61	2.03	0.178	-1.73
	0.3	1	98.8	4.59	5.88	1.77	0.138	-1.98
	0.6	2	244	5.50	1.69	-----	-----	-----
	0.9	3	29.3	3.38	-----	-----	-----	-----
39+00	0.15	0.5	29.8	3.39	-----	-----	-----	-----
	0.3	1	3.84	1.35	-----	-----	-----	-----
	0.6	2	4.66	1.54	-----	-----	-----	-----
	0.9	3	4.46	1.50	-----	-----	-----	-----
39+100	0.15	0.5	2040	7.62	86.7	4.46	4.33	1.47
	0.3	1	123	4.81	17.8	2.88	0.548	-0.60
	0.6	2	176	5.17	12.4	2.52	0.105	-2.25
	0.9	3	262	5.57	2.5	0.92	-----	-----
39+200	0.15	0.5	421	6.04	24.7	3.21	1.08	0.08
	0.3	1	5.71	1.74	-----	-----	-----	-----
	0.6	2	6.73	1.91	-----	-----	-----	-----
	0.9	3	20.3	3.01	-----	-----	-----	-----
39+300	0.15	0.5	1030	6.94	51.8	3.95	2.01	0.70
	0.3	1	8.8	2.17	-----	-----	-----	-----
	0.6	2	10	2.30	-----	-----	-----	-----
	0.9	3	140	4.94	2.52	0.92	-----	-----
39+400	0.15	0.5	2700	7.90	197	5.28	10.4	2.34
	0.3	1	383	5.95	6.59	1.89	0.142	-1.95
	0.6	2	849	6.74	64.4	4.17	4.17	1.43
	0.9	3	48.2	3.88	-----	-----	-----	-----
39+500	0.15	0.5	211	5.35	16.9	2.83	0.52	-0.65
	0.3	1	63.6	4.15	0.05	-----	-----	-----
	0.6	2	17.4	2.86	-----	-----	-----	-----
	0.9	3	6.64	1.89	-----	-----	-----	-----
39+600	0.15	0.5	412	6.02	21.7	3.08	0.662	-0.41
	0.3	1	52.9	3.97	5.62	1.73	0.091	-2.40
	0.6	2	6.77	1.91	-----	-----	-----	-----
	0.9	3	5.71	1.74	-----	-----	-----	-----
39+700	0.15	0.5	613	6.42	24.7	3.21	1.06	0.06
	0.3	1	236	5.46	18.4	2.91	0.606	-0.50
	0.6	2	351	5.86	8.43	2.13	0.216	-1.53
	0.9	3	8.95	2.19	-----	-----	-----	-----
39+800	0.15	0.5	51.4	3.94	3.15	1.15	-----	-----
	0.3	1	239	5.48	11.8	2.47	0.383	-0.96
	0.6	2	28.3	3.34	-----	-----	-----	-----
	0.9	3	148	5.00	9.36	2.24	0.15	-1.90
39+900	0.15	0.5	643	6.47	39.4	3.67	3.56	1.27
	0.3	1	831	6.72	29.3	3.38	0.69	-0.37
	0.6	2	231	5.44	15.8	2.76	0.22	-1.51
	0.9	3	291	5.67	11.9	2.48	0.325	-1.12
39+1000	0.15	0.5	410	6.02	17.2	2.84	0.597	-0.52
	0.3	1	182	5.20	10.5	2.35	0.664	-0.41
	0.6	2	25.8	3.25	-----	-----	-----	-----
	0.9	3	33.8	3.52	-----	-----	-----	-----
39+1100	0.15	0.5	447	6.10	23.9	3.17	0.612	-0.49
	0.3	1	63.2	4.15	5.33	1.67	0.28	-1.27
	0.6	2	30.7	3.42	-----	-----	-----	-----
	0.9	3	79.8	4.38	1.69	0.52	-----	-----
39+1200	0.15	0.5	429	6.06	11	2.40	0.766	-0.27
	0.3	1	538	6.29	25.9	3.25	0.839	-0.18
	0.6	2	74.5	4.31	3.52	1.26	-----	-----
	0.9	3	347	5.85	13	2.56	1.09	0.09
45+00	0.15	0.5	607	6.41	27.2	3.30	1.36	0.31
	0.3	1	116	4.75	11.2	2.42	0.451	-0.80
	0.6	2	108	4.68	10	2.30	0.526	-0.64
	0.9	3	8.44	2.13	-----	-----	-----	-----
45+100	0.15	0.5	293	5.68	13.4	2.60	0.468	-0.76
	0.3	1	339	5.83	18.2	2.90	1.31	0.27
	0.6	2	90.6	4.51	14.4	2.67	0.468	-0.76
	0.9	3	29.7	3.39	-----	-----	-----	-----
45+200	0.15	0.5	659	6.49	29.8	3.39	2.9	1.06
	0.3	1	46.6	3.84	-----	-----	-----	-----
	0.6	2	10.1	2.31	-----	-----	-----	-----
	0.9	3	7.85	2.06	-----	-----	-----	-----

TABLE 5
 ALL SAMPLES SOUTHBOUND
 LEAD STATISTICAL ANALYSIS AND CALCULATIONS
 Route 405 - Construction of Soundwall
 Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal	WET (mg/L) Normal	WET Lognormal	DI WET (mg/L) Normal	DI WET Lognormal
45+300	0.15	0.5	402	6.00	13.3	2.59	1.7	0.53
	0.3	1	20.7	3.03	-----	-----	-----	-----
	0.6	2	17.1	2.84	-----	-----	-----	-----
	0.9	3	15.7	2.75	-----	-----	-----	-----
45+400	0.15	0.5	514	6.24	32	3.47	2.91	1.07
	0.3	1	287	5.66	11	2.40	0.511	-0.67
	0.6	2	156	5.05	72.1	1.98	0.476	-0.74
	0.9	3	35.6	3.57	-----	-----	-----	-----
45+500	0.15	0.5	862	6.76	35.5	3.57	5.83	1.76
	0.3	1	703	6.56	36.3	3.59	2.29	0.83
	0.6	2	403	6.00	26.7	3.28	1.28	0.25
	0.9	3	363	5.89	25.2	3.23	2.22	0.80
45+600	0.15	0.5	612	6.42	39.7	3.68	3.74	1.32
	0.3	1	206	5.33	11.6	2.45	0.42	-0.87
	0.6	2	231	5.44	18.5	2.92	1.56	0.44
	0.9	3	32.7	3.49	-----	-----	-----	-----
45+700	0.15	0.5	826	6.72	32.4	3.48	1.03	0.03
	0.3	1	903	6.81	50.5	3.92	1.61	0.48
	0.6	2	153	5.03	17.9	2.88	0.386	-0.95
	0.9	3	143	4.96	14.6	2.68	0.591	-0.53
45+800	0.15	0.5	364	5.90	18.7	2.93	2.28	0.82
	0.3	1	67.8	4.22	6.54	1.88	0.281	-1.27
	0.6	2	90.6	4.51	3.85	1.35	-----	-----
	0.9	3	88.7	4.49	4.21	1.44	-----	-----
45+900	0.15	0.5	171	5.14	12.3	2.51	0.757	-0.28
	0.3	1	47.3	3.86	-----	-----	-----	-----
	0.6	2	12.5	2.53	-----	-----	-----	-----
	0.9	3	33	3.50	-----	-----	-----	-----
45+1000	0.15	0.5	349	5.86	13.7	2.62	2.29	0.83
	0.3	1	135	4.91	6.49	1.87	0.662	-0.41
	0.6	2	34.1	3.53	-----	-----	-----	-----
	0.9	3	141	4.95	12.7	2.54	1.48	0.39
45+1100	0.15	0.5	1640	7.40	35.6	3.57	5.72	1.74
	0.3	1	575	6.35	25.7	3.25	2.22	0.80
	0.6	2	9.63	2.26	-----	-----	-----	-----
	0.9	3	166	5.11	5.8	1.76	0.446	-0.81
45+1200	0.15	0.5	961	6.87	39.7	3.68	9.13	2.21
	0.3	1	91.7	4.52	8.21	2.11	0.783	-0.24
	0.6	2	8.42	2.13	-----	-----	-----	-----
	0.9	3	5.92	1.78	-----	-----	-----	-----
45+1300	0.15	0.5	67.2	4.21	20.9	3.04	1.8	0.59
	0.3	1	206	5.33	11.9	2.48	0.701	-0.36
	0.6	2	317	5.76	22.4	3.11	1.26	0.23
	0.9	3	572	6.35	2.45	0.90	-----	-----
45+1400	0.15	0.5	235	5.46	6.03	1.80	0.261	-1.34
	0.3	1	54.6	4.00	2.28	0.82	-----	-----
	0.6	2	43.7	3.78	-----	-----	-----	-----
	0.9	3	18.6	2.92	-----	-----	-----	-----
45+1500	0.15	0.5	618	6.43	42.4	3.75	5.37	1.68
	0.3	1	26.9	3.29	-----	-----	-----	-----
	0.6	2	93.4	4.54	4.18	1.43	-----	-----
	0.9	3	87.7	4.47	1.3	0.26	-----	-----
45+1600	0.15	0.5	884	6.78	34.9	3.55	2.69	0.99
	0.3	1	59.4	4.08	4.28	1.45	-----	-----
	0.6	2	239	5.48	8.89	2.18	0.214	-1.54
	0.9	3	187	5.23	1.66	0.51	-----	-----
45+1700	0.15	0.5	679	6.52	40.6	3.70	2.01	0.70
	0.3	1	272	5.61	5.44	1.69	0.191	-1.66
	0.6	2	89.9	4.50	9.9	2.29	0.257	-1.36
	0.9	3	108	4.68	0.747	-0.29	-----	-----
45+1800	0.15	0.5	3084	8.03	155	5.04	13.3	2.59
	0.3	1	455	6.12	21.8	3.08	1.91	0.65
	0.6	2	308	5.73	9.96	2.30	0.254	-1.37
	0.9	3	26.5	3.28	-----	-----	-----	-----
Sample Population			152	152	97	97	80	80
Degrees of Freedom			151	151	96	96	79	79
Mean			286.66	4.57	21.88	2.60	1.67	-0.12
Standard Deviation			450.89	1.66	28.43	1.03	2.29	1.12
H(95%)			-----	-----	-----	2.28	-----	2.37
95% UCL			348.45	#VALUE!	26.76	29.10	2.10	2.24
H(90%)			-----	-----	-----	1.75	-----	1.80
90% UCL			-----	#VALUE!	-----	27.52	-----	2.08
80% UCL			319.39	-----	24.46	-----	1.90	-----

TABLE 6 (PART 1)

SOUTHBOUND - TOTAL LEAD
 LEAD STATISTICAL ANALYSIS AND CALCULATIONS
 Route 405 - Construction of Soundwall
 Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal
35+00	0.15	0.5	481	6.18
	0.3	1	134	4.90
	0.6	2	23.7	3.17
	0.9	3	12.5	2.53
35+100	0.15	0.5	523	6.26
	0.3	1	25.9	3.25
	0.6	2	46	3.83
	0.9	3	36.5	3.60
35+200	0.15	0.5	1570	7.36
	0.3	1	8.02	2.08
	0.6	2	9.1	2.21
	0.9	3	16.5	2.80
35+300	0.15	0.5	499	6.21
	0.3	1	9.28	2.23
	0.6	2	6.45	1.86
	0.9	3	6.51	1.87
35+400	0.15	0.5	1160	7.06
	0.3	1	5.97	1.79
	0.6	2	6.2	1.82
	0.9	3	12.6	2.53
35+500	0.15	0.5	309	5.73
	0.3	1	98.8	4.59
	0.6	2	244	5.50
	0.9	3	29.3	3.38
39+00	0.15	0.5	29.8	3.39
	0.3	1	3.84	1.35
	0.6	2	4.66	1.54
	0.9	3	4.46	1.50
39+100	0.15	0.5	2040	7.62
	0.3	1	123	4.81
	0.6	2	176	5.17
	0.9	3	262	5.57
39+200	0.15	0.5	421	6.04
	0.3	1	5.71	1.74
	0.6	2	6.73	1.91
	0.9	3	20.3	3.01
39+300	0.15	0.5	1030	6.94
	0.3	1	8.8	2.17
	0.6	2	10	2.30
	0.9	3	140	4.94
39+400	0.15	0.5	2700	7.90
	0.3	1	383	5.95
	0.6	2	849	6.74
	0.9	3	48.2	3.88
39+500	0.15	0.5	211	5.35
	0.3	1	63.6	4.15
	0.6	2	17.4	2.86
	0.9	3	6.64	1.89

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal	
39+600	0.15	0.5	412	6.02	
	0.3	1	52.9	3.97	
	0.6	2	6.77	1.91	
	0.9	3	5.71	1.74	
39+700	0.15	0.5	613	6.42	
	0.3	1	236	5.46	
	0.6	2	351	5.86	
	0.9	3	8.95	2.19	
39+800	0.15	0.5	51.4	3.94	
	0.3	1	239	5.48	
	0.6	2	28.3	3.34	
	0.9	3	148	5.00	
39+900	0.15	0.5	643	6.47	
	0.3	1	831	6.72	
	0.6	2	231	5.44	
	0.9	3	291	5.67	
39+1000	0.15	0.5	410	6.02	
	0.3	1	182	5.20	
	0.6	2	25.8	3.25	
	0.9	3	33.8	3.52	
39+1100	0.15	0.5	447	6.10	
	0.3	1	63.2	4.15	
	0.6	2	30.7	3.42	
	0.9	3	79.8	4.38	
39+1200	0.15	0.5	429	6.06	
	0.3	1	538	6.29	
	0.6	2	74.5	4.31	
	0.9	3	347	5.85	
			Sample Population	76	76
			Degrees of Freedom	75	75
			Mean	271.69	4.28
			Standard Deviation	461.21	1.82
			H(95%)		3.45
			95% UCL	361.37	784.28
			H(90%)		2.58
			90% UCL		653.27
			80% UCL	319.19	

TABLE 7

0.15 METER SAMPLE DEPTH - ALL SAMPLES
LEAD STATISTICAL ANALYSIS AND CALCULATIONS
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)		WET (mg/L)		DI WET (mg/L)	
			Normal	Lognormal	Normal	Lognormal	Normal	Lognormal
30+00	0.15	0.5	327	5.79	27.7	3.32	1.72	0.54
30+200	0.15	0.5	609	6.41	46.1	3.83	2.31	0.84
30+400	0.15	0.5	161	5.08	19.1	2.95	0.856	-0.16
30+600	0.15	0.5	268	5.59	7.47	2.01	0.63	-0.46
30+800	0.15	0.5	16.9	2.83	-----	-----	-----	-----
34a+00	0.15	0.5	756	6.63	40.1	3.69	0.477	-0.74
34a+200	0.15	0.5	536	6.28	23.5	3.16	0.379	-0.97
34a+600	0.15	0.5	664	6.50	22.4	3.11	0.653	-0.43
38+00	0.15	0.5	635	6.45	27.6	3.32	0.499	-0.70
38+200	0.15	0.5	518	6.25	22.5	3.11	0.732	-0.31
38+400	0.15	0.5	826	6.72	20.2	3.01	4.63	1.53
38+600	0.15	0.5	4760	8.47	202	5.31	2	0.69
38+800	0.15	0.5	894	6.80	34.7	3.55	0.639	-0.45
38+1000	0.15	0.5	1950	7.58	70.6	4.26	1.84	0.61
38+1200	0.15	0.5	2110	7.65	123	4.81	3.35	1.21
38+1400	0.15	0.5	411	6.02	14.6	2.68	1.76	0.57
38+1600	0.15	0.5	794	6.68	52.7	3.96	8.1	2.09
38+1800	0.15	0.5	215	5.37	5.57	1.72	0.673	-0.40
38+2200	0.15	0.5	722	6.58	42	3.74	1.82	0.60
46+00	0.15	0.5	2520	7.83	110	4.70	1.68	0.52
46+200	0.15	0.5	1530	7.33	84	4.43	4.02	1.39
46+400	0.15	0.5	2800	7.94	91.6	4.52	15.2	2.72
46+600	0.15	0.5	800	6.68	60	4.09	3.41	1.23
46+800	0.15	0.5	110	4.70	8.89	2.18	0.346	-1.06
46+1000	0.15	0.5	1190	7.08	27.6	3.32	0.8	-0.22
46+1200	0.15	0.5	37.6	3.63	-----	-----	-----	-----
46+1400	0.15	0.5	57.8	4.06	6.21	1.83	0.114	-2.17
46+1600	0.15	0.5	83.9	4.43	2.98	1.09	-----	-----
46+1800	0.15	0.5	23.2	3.14	-----	-----	-----	-----
46+2000	0.15	0.5	20.3	3.01	-----	-----	-----	-----
35+00	0.15	0.5	481	6.18	10.9	2.39	0.381	-0.96
35+100	0.15	0.5	523	6.26	18.6	2.92	0.888	-0.12
35+200	0.15	0.5	1570	7.36	80.1	4.38	3.01	1.10
35+300	0.15	0.5	499	6.21	22.3	3.10	0.345	-1.06
35+400	0.15	0.5	1160	7.06	78.3	4.36	1.95	0.67
35+500	0.15	0.5	309	5.73	7.61	2.03	0.178	-1.73
39+00	0.15	0.5	29.8	3.39	-----	-----	-----	-----
39+100	0.15	0.5	2040	7.62	86.7	4.46	4.33	1.47
39+200	0.15	0.5	421	6.04	24.7	3.21	1.08	0.08
39+300	0.15	0.5	1030	6.94	51.8	3.95	2.01	0.70
39+400	0.15	0.5	2700	7.90	197	5.28	10.4	2.34
39+500	0.15	0.5	211	5.35	16.9	2.83	0.52	-0.65
39+600	0.15	0.5	412	6.02	21.7	3.08	0.662	-0.41
39+700	0.15	0.5	613	6.42	24.7	3.21	1.06	0.06
39+800	0.15	0.5	51.4	3.94	3.15	1.15	-----	-----
39+900	0.15	0.5	643	6.47	39.4	3.67	3.56	1.27
39+1000	0.15	0.5	410	6.02	17.2	2.84	0.597	-0.52
39+1100	0.15	0.5	447	6.10	23.9	3.17	0.612	-0.49
39+1200	0.15	0.5	429	6.06	11	2.40	0.766	-0.27
45+00	0.15	0.5	607	6.41	27.2	3.30	1.36	0.31
45+100	0.15	0.5	293	5.68	13.4	2.60	0.468	-0.76
45+200	0.15	0.5	659	6.49	29.8	3.39	2.9	1.06
45+300	0.15	0.5	402	6.00	13.3	2.59	1.7	0.53
45+400	0.15	0.5	514	6.24	32	3.47	2.91	1.07
45+500	0.15	0.5	862	6.76	35.5	3.57	5.83	1.76
45+600	0.15	0.5	612	6.42	39.7	3.68	3.74	1.32
45+700	0.15	0.5	826	6.72	32.4	3.48	1.03	0.03
45+800	0.15	0.5	364	5.90	18.7	2.93	2.28	0.82
45+900	0.15	0.5	171	5.14	12.3	2.51	0.757	-0.28
45+1000	0.15	0.5	349	5.86	13.7	2.62	2.29	0.83
45+1100	0.15	0.5	1640	7.40	35.6	3.57	5.72	1.74
45+1200	0.15	0.5	961	6.87	39.7	3.68	9.13	2.21
45+1300	0.15	0.5	67.2	4.21	20.9	3.04	1.8	0.59
45+1400	0.15	0.5	235	5.46	6.03	1.80	0.261	-1.34
45+1500	0.15	0.5	618	6.43	42.4	3.75	5.37	1.68
45+1600	0.15	0.5	884	6.78	34.9	3.55	2.69	0.99
45+1700	0.15	0.5	679	6.52	40.6	3.70	2.01	0.70
45+1800	0.15	0.5	3084	8.03	155	5.04	13.3	2.59
	Sample Population		68	68	63	63	61	61
	Degrees of Freedom		67	67	62	62	60	60
	Mean		796.35	6.12	40.83	3.31	2.57	0.39
	Standard Deviation		854.40	1.24	41.79	0.92	3.07	1.08
	H(95%)			2.50		2.19		2.39
	95% UCL		972.13	1418.93	49.77	53.69	3.23	3.67
	H(90%)			1.88		1.66		1.81
	90% UCL			1292.10		50.48		3.39
	80% UCL		889.46		45.56		2.92	

TABLE 8

**0.15 METER SAMPLE DEPTH - NORTHBOUND
LEAD STATISTICAL ANALYSIS AND CALCULATIONS**

Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)		WET (mg/L)		DI WET (mg/L)	
			Normal	Lognormal	Normal	Lognormal	Normal	Lognormal
30+00	0.15	0.5	327	5.79	27.7	3.32	1.72	0.54
30+200	0.15	0.5	609	6.41	46.1	3.83	2.31	0.84
30+400	0.15	0.5	161	5.08	19.1	2.95	0.856	-0.16
30+600	0.15	0.5	268	5.59	7.47	2.01	0.63	-0.46
30+800	0.15	0.5	16.9	2.83	---	---	---	---
34a+00	0.15	0.5	756	6.63	40.1	3.69	0.477	-0.74
34a+200	0.15	0.5	536	6.28	23.5	3.16	0.379	-0.97
34a+600	0.15	0.5	664	6.50	22.4	3.11	0.653	-0.43
38+00	0.15	0.5	635	6.45	27.6	3.32	0.499	-0.70
38+200	0.15	0.5	518	6.25	22.5	3.11	0.732	-0.31
38+400	0.15	0.5	826	6.72	20.2	3.01	4.63	1.53
38+600	0.15	0.5	4760	8.47	202	5.31	2	0.69
38+800	0.15	0.5	894	6.80	34.7	3.55	0.639	-0.45
38+1000	0.15	0.5	1950	7.58	70.6	4.26	1.84	0.61
38+1200	0.15	0.5	2110	7.65	123	4.81	3.35	1.21
38+1400	0.15	0.5	411	6.02	14.6	2.68	1.76	0.57
38+1600	0.15	0.5	794	6.68	52.7	3.96	8.1	2.09
38+1800	0.15	0.5	215	5.37	5.57	1.72	0.673	-0.40
38+2200	0.15	0.5	722	6.58	42	3.74	1.82	0.60
46+00	0.15	0.5	2520	7.83	110	4.70	1.68	0.52
46+200	0.15	0.5	1530	7.33	84	4.43	4.02	1.39
46+400	0.15	0.5	2800	7.94	91.6	4.52	15.2	2.72
46+600	0.15	0.5	800	6.68	60	4.09	3.41	1.23
46+800	0.15	0.5	110	4.70	8.89	2.18	0.346	-1.06
46+1000	0.15	0.5	1190	7.08	27.6	3.32	0.8	-0.22
46+1200	0.15	0.5	37.6	3.63	---	---	---	---
46+1400	0.15	0.5	57.8	4.06	6.21	1.83	0.114	-2.17
46+1600	0.15	0.5	83.9	4.43	2.98	1.09	---	---
46+1800	0.15	0.5	23.2	3.14	---	---	---	---
46+2000	0.15	0.5	20.3	3.01	---	---	---	---
Sample Population			30	30	26	26	25	25
Degrees of Freedom			29	29	25	25	24	24
Mean			878.19	5.98	45.89	3.37	2.35	0.26
Standard Deviation			1046.89	1.52	45.54	1.03	3.22	1.10
H(95%)				3.18		2.52		2.82
95% UCL			1205.56	3099.41	61.23	83.80	3.45	4.45
H(90%)				2.36		1.88		2.06
90% UCL				2458.58		73.41		3.75
80% UCL			1051.60		54.01		2.93	

TABLE 9

**0.15 METER SAMPLE DEPTH - SOUTHBOUND
LEAD STATISTICAL ANALYSIS AND CALCULATIONS**
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal	WET (mg/L) Normal	WET Lognormal	DI WET (mg/L) Normal	DI WET Lognormal
35+00	0.15	0.5	481	6.18	10.9	2.39	0.381	-0.96
35+100	0.15	0.5	523	6.26	18.6	2.92	0.888	-0.12
35+200	0.15	0.5	1570	7.36	80.1	4.38	3.01	1.10
35+300	0.15	0.5	499	6.21	22.3	3.10	0.345	-1.06
35+400	0.15	0.5	1160	7.06	78.3	4.36	1.95	0.67
35+500	0.15	0.5	309	5.73	7.61	2.03	0.178	-1.73
39+00	0.15	0.5	29.8	3.39	---	---	---	---
39+100	0.15	0.5	2040	7.62	86.7	4.46	4.33	1.47
39+200	0.15	0.5	421	6.04	24.7	3.21	1.08	0.08
39+300	0.15	0.5	1030	6.94	51.8	3.95	2.01	0.70
39+400	0.15	0.5	2700	7.90	197	5.28	10.4	2.34
39+500	0.15	0.5	211	5.35	16.9	2.83	0.52	-0.65
39+600	0.15	0.5	412	6.02	21.7	3.08	0.662	-0.41
39+700	0.15	0.5	613	6.42	24.7	3.21	1.06	0.06
39+800	0.15	0.5	51.4	3.94	3.15	1.15	---	---
39+900	0.15	0.5	643	6.47	39.4	3.67	3.56	1.27
39+1000	0.15	0.5	410	6.02	17.2	2.84	0.597	-0.52
39+1100	0.15	0.5	447	6.10	23.9	3.17	0.612	-0.49
39+1200	0.15	0.5	429	6.06	11	2.40	0.766	-0.27
45+00	0.15	0.5	607	6.41	27.2	3.30	1.36	0.31
45+100	0.15	0.5	293	5.68	13.4	2.60	0.468	-0.76
45+200	0.15	0.5	659	6.49	29.8	3.39	2.9	1.06
45+300	0.15	0.5	402	6.00	13.3	2.59	1.7	0.53
45+400	0.15	0.5	514	6.24	32	3.47	2.91	1.07
45+500	0.15	0.5	862	6.76	35.5	3.57	5.83	1.76
45+600	0.15	0.5	612	6.42	39.7	3.68	3.74	1.32
45+700	0.15	0.5	826	6.72	32.4	3.48	1.03	0.03
45+800	0.15	0.5	364	5.90	18.7	2.93	2.28	0.82
45+900	0.15	0.5	171	5.14	12.3	2.51	0.757	-0.28
45+1000	0.15	0.5	349	5.86	13.7	2.62	2.29	0.83
45+1100	0.15	0.5	1640	7.40	35.6	3.57	5.72	1.74
45+1200	0.15	0.5	961	6.87	39.7	3.68	9.13	2.21
45+1300	0.15	0.5	67.2	4.21	20.9	3.04	1.8	0.59
45+1400	0.15	0.5	235	5.46	6.03	1.80	0.261	-1.34
45+1500	0.15	0.5	618	6.43	42.4	3.75	5.37	1.68
45+1600	0.15	0.5	884	6.78	34.9	3.55	2.69	0.99
45+1700	0.15	0.5	679	6.52	40.6	3.70	2.01	0.70
45+1800	0.15	0.5	3084	8.03	155	5.04	13.3	2.59
Sample Population			38	38	37	37	36	36
Degrees of Freedom			37	37	36	36	35	35
Mean			731.75	6.22	37.27	3.26	2.72	0.48
Standard Deviation			673.18	0.96	39.19	0.84	3.00	1.07
H(95%)				2.40		2.18		2.51
95% UCL			918.12	1169.90	48.27	50.22	3.57	4.50
H(90%)				1.79		1.64		1.88
90% UCL				1062.16		46.58		4.02
80% UCL			830.47		43.10		3.17	

TABLE 10

0.30 METER SAMPLE DEPTH - ALL SAMPLES
 LEAD STATISTICAL ANALYSIS AND CALCULATIONS
 Route 405 - Construction of Soundwall
 Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal	WET (mg/L) Normal	WET Lognormal	DI WET (mg/L) Normal	DI WET Lognormal
30+00	0.3	1	33.2	3.50	----	----	----	----
30+200	0.3	1	260	5.56	24.7	3.21	1.97	0.68
30+400	0.3	1	148	5.00	12.8	2.55	0.674	-0.39
30+600	0.3	1	396	5.98	8.36	2.12	0.372	-0.99
30+800	0.3	1	96.5	4.57	3.81	1.34	----	----
34a+00	0.3	1	491	6.20	25	3.22	0.307	-1.18
34a+200	0.3	1	60.9	4.11	1.7	0.53	----	----
34a+600	0.3	1	341	5.83	10.1	2.31	0.562	-0.58
38+00	0.3	1	757	6.63	42.5	3.75	0.586	-0.53
38+200	0.3	1	12.8	2.55	----	----	----	----
38+400	0.3	1	72.7	4.29	6.85	1.92	0.755	-0.28
38+600	0.3	1	1160	7.06	24.3	3.19	0.001	-6.91
38+800	0.3	1	1340	7.20	22.3	3.10	0.718	-0.33
38+1000	0.3	1	1070	6.98	69.8	4.25	1.91	0.65
38+1200	0.3	1	1320	7.19	107	4.67	2.3	0.83
38+1400	0.3	1	27.8	3.33	----	----	----	----
38+1600	0.3	1	138	4.93	25	3.22	0.503	-0.69
38+1800	0.3	1	274	5.61	13.3	2.59	0.473	-0.75
38+2200	0.3	1	307	5.73	14.6	2.68	0.489	-0.72
46+00	0.3	1	672	6.51	27.3	3.31	0.625	-0.47
46+200	0.3	1	57.5	4.05	4.37	1.47	----	----
46+400	0.3	1	144	4.97	9.45	2.25	0.312	-1.16
46+600	0.3	1	9.11	2.21	----	----	----	----
46+800	0.3	1	63.7	4.15	5.42	1.69	0.054	-2.92
46+1000	0.3	1	781	6.66	39.5	3.68	0.685	-0.38
46+1200	0.3	1	4.65	1.54	----	----	----	----
46+1400	0.3	1	45.2	3.81	----	----	----	----
46+1600	0.3	1	7.07	1.96	----	----	----	----
46+1800	0.3	1	63.7	4.15	1.83	0.60	----	----
46+2000	0.3	1	6.84	1.92	----	----	----	----
35+00	0.3	1	134	4.90	4.42	1.49	----	----
35+100	0.3	1	25.9	3.25	----	----	----	----
35+200	0.3	1	8.02	2.08	----	----	----	----
35+300	0.3	1	9.28	2.23	----	----	----	----
35+400	0.3	1	5.97	1.79	----	----	----	----
35+500	0.3	1	98.8	4.59	5.88	1.77	0.138	-1.98
39+00	0.3	1	3.84	1.35	----	----	----	----
39+100	0.3	1	123	4.81	17.8	2.88	0.548	-0.60
39+200	0.3	1	5.71	1.74	----	----	----	----
39+300	0.3	1	8.8	2.17	----	----	----	----
39+400	0.3	1	383	5.95	6.59	1.89	0.142	-1.95
39+500	0.3	1	63.6	4.15	0.05	-3.00	----	----
39+600	0.3	1	52.9	3.97	5.62	1.73	0.091	-2.40
39+700	0.3	1	236	5.46	18.4	2.91	0.606	-0.50
39+800	0.3	1	239	5.48	11.8	2.47	0.383	-0.96
39+900	0.3	1	831	6.72	29.3	3.38	0.69	-0.37
39+1000	0.3	1	182	5.20	10.5	2.35	0.664	-0.41
39+1100	0.3	1	63.2	4.15	5.33	1.67	0.28	-1.27
39+1200	0.3	1	538	6.29	25.9	3.25	0.839	-0.18
45+00	0.3	1	116	4.75	11.2	2.42	0.451	-0.80
45+100	0.3	1	339	5.83	18.2	2.90	1.31	0.27
45+200	0.3	1	46.6	3.84	----	----	----	----
45+300	0.3	1	20.7	3.03	----	----	----	----
45+400	0.3	1	287	5.66	11	2.40	0.511	-0.67
45+500	0.3	1	703	6.56	36.3	3.59	2.29	0.83
45+600	0.3	1	206	5.33	11.6	2.45	0.42	-0.87
45+700	0.3	1	903	6.81	50.5	3.92	1.61	0.48
45+800	0.3	1	67.8	4.22	6.54	1.88	0.281	-1.27
45+900	0.3	1	47.3	3.86	----	----	----	----
45+1000	0.3	1	135	4.91	6.49	1.87	0.662	-0.41
45+1100	0.3	1	575	6.35	25.7	3.25	2.22	0.80
45+1200	0.3	1	91.7	4.52	8.21	2.11	0.783	-0.24
45+1300	0.3	1	206	5.33	11.9	2.48	0.701	-0.36
45+1400	0.3	1	54.6	4.00	2.28	0.82	----	----
45+1500	0.3	1	26.9	3.29	----	----	----	----
45+1600	0.3	1	59.4	4.08	4.28	1.45	----	----
45+1700	0.3	1	272	5.61	5.44	1.69	0.191	-1.66
45+1800	0.3	1	455	6.12	21.8	3.08	1.91	0.65
Sample Population			68	68	49	49	41	41
Degrees of Freedom			67	67	48	48	40	40
Mean			261.54	4.63	17.82	2.38	0.76	-0.73
Standard Deviation			333.37	1.58	19.05	1.20	0.64	1.30
H(95%)				2.96		2.49		2.67
95% UCL			330.12	633.45	22.45	34.25	0.93	1.95
H(90%)				2.23		1.88		2.02
90% UCL				550.04		30.81		1.71
80% UCL			297.87		20.27		0.85	

TABLE 11

0.30 METER SAMPLE DEPTH - NORTHBOUND
LEAD STATISTICAL ANALYSIS AND CALCULATIONS

Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal	WET (mg/L) Normal	WET Lognormal	DI WET (mg/L) Normal	DI WET Lognormal
30+00	0.3	1	33.2	3.50	----	----	----	----
30+200	0.3	1	260	5.56	24.7	3.21	1.97	0.68
30+400	0.3	1	148	5.00	12.8	2.55	0.674	-0.39
30+600	0.3	1	396	5.98	8.36	2.12	0.372	-0.99
30+800	0.3	1	96.5	4.57	3.81	1.34	----	----
34a+00	0.3	1	491	6.20	25	3.22	0.307	-1.18
34a+200	0.3	1	60.9	4.11	1.7	0.53	----	----
34a+600	0.3	1	341	5.83	10.1	2.31	0.562	-0.58
38+00	0.3	1	757	6.63	42.5	3.75	0.586	-0.53
38+200	0.3	1	12.8	2.55	----	----	----	----
38+400	0.3	1	72.7	4.29	6.85	1.92	0.755	-0.28
38+600	0.3	1	1160	7.06	24.3	3.19	0.001	-6.91
38+800	0.3	1	1340	7.20	22.3	3.10	0.718	-0.33
38+1000	0.3	1	1070	6.98	69.8	4.25	1.91	0.65
38+1200	0.3	1	1320	7.19	107	4.67	2.3	0.83
38+1400	0.3	1	27.8	3.33	----	----	----	----
38+1600	0.3	1	138	4.93	25	3.22	0.503	-0.69
38+1800	0.3	1	274	5.61	13.3	2.59	0.473	-0.75
38+2200	0.3	1	307	5.73	14.6	2.68	0.489	-0.72
46+00	0.3	1	672	6.51	27.3	3.31	0.625	-0.47
46+200	0.3	1	57.5	4.05	4.37	1.47	----	----
46+400	0.3	1	144	4.97	9.45	2.25	0.312	-1.16
46+600	0.3	1	9.11	2.21	----	----	----	----
46+800	0.3	1	63.7	4.15	5.42	1.69	0.054	-2.92
46+1000	0.3	1	781	6.66	39.5	3.68	0.685	-0.38
46+1200	0.3	1	4.65	1.54	----	----	----	----
46+1400	0.3	1	45.2	3.81	----	----	----	----
46+1600	0.3	1	7.07	1.96	----	----	----	----
46+1800	0.3	1	63.7	4.15	1.83	0.60	----	----
46+2000	0.3	1	6.84	1.92	----	----	----	----
Sample Population			30	30	22	22	18	18
Degrees of Freedom			29	29	21	21	17	17
Mean			338.69	4.81	22.73	2.62	0.74	-0.90
Standard Deviation			418.07	1.70	24.83	1.08	0.65	1.71
H(95%)				3.34		2.67		3.83
95% UCL			469.42	1473.64	31.85	46.32	1.00	8.73
H(90%)				2.48		1.97		2.79
90% UCL				1123.99		39.27		5.67
80% UCL			407.94		27.56		0.88	

TABLE 12

**0.30 METER SAMPLE DEPTH - SOUTHBOUND
LEAD STATISTICAL ANALYSIS AND CALCULATIONS**
Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal	WET (mg/L) Normal	WET Lognormal	DI WET (mg/L) Normal	DI WET Lognormal
35+00	0.3	1	134	4.90	4.42	1.49	---	---
35+100	0.3	1	25.9	3.25	---	---	---	---
35+200	0.3	1	8.02	2.08	---	---	---	---
35+300	0.3	1	9.28	2.23	---	---	---	---
35+400	0.3	1	5.97	1.79	---	---	---	---
35+500	0.3	1	98.8	4.59	5.88	1.77	0.138	-1.98
39+00	0.3	1	3.84	1.35	---	---	---	---
39+100	0.3	1	123	4.81	17.8	2.88	0.548	-0.60
39+200	0.3	1	5.71	1.74	---	---	---	---
39+300	0.3	1	8.8	2.17	---	---	---	---
39+400	0.3	1	383	5.95	6.59	1.89	0.142	-1.95
39+500	0.3	1	63.6	4.15	0.05	-3.00	---	---
39+600	0.3	1	52.9	3.97	5.62	1.73	0.091	-2.40
39+700	0.3	1	236	5.46	18.4	2.91	0.606	-0.50
39+800	0.3	1	239	5.48	11.8	2.47	0.383	-0.96
39+900	0.3	1	831	6.72	29.3	3.38	0.69	-0.37
39+1000	0.3	1	182	5.20	10.5	2.35	0.664	-0.41
39+1100	0.3	1	63.2	4.15	5.33	1.67	0.28	-1.27
39+1200	0.3	1	538	6.29	25.9	3.25	0.839	-0.18
45+00	0.3	1	116	4.75	11.2	2.42	0.451	-0.80
45+100	0.3	1	339	5.83	18.2	2.90	1.31	0.27
45+200	0.3	1	46.6	3.84	---	---	---	---
45+300	0.3	1	20.7	3.03	---	---	---	---
45+400	0.3	1	287	5.66	11	2.40	0.511	-0.67
45+500	0.3	1	703	6.56	36.3	3.59	2.29	0.83
45+600	0.3	1	206	5.33	11.6	2.45	0.42	-0.87
45+700	0.3	1	903	6.81	50.5	3.92	1.61	0.48
45+800	0.3	1	67.8	4.22	6.54	1.88	0.281	-1.27
45+900	0.3	1	47.3	3.86	---	---	---	---
45+1000	0.3	1	135	4.91	6.49	1.87	0.662	-0.41
45+1100	0.3	1	575	6.35	25.7	3.25	2.22	0.80
45+1200	0.3	1	91.7	4.52	8.21	2.11	0.783	-0.24
45+1300	0.3	1	206	5.33	11.9	2.48	0.701	-0.36
45+1400	0.3	1	54.6	4.00	2.28	0.82	---	---
45+1500	0.3	1	26.9	3.29	---	---	---	---
45+1600	0.3	1	59.4	4.08	4.28	1.45	---	---
45+1700	0.3	1	272	5.61	5.44	1.69	0.191	-1.66
45+1800	0.3	1	455	6.12	21.8	3.08	1.91	0.65
Sample Population			38	38	27	27	23	23
Degrees of Freedom			37	37	26	26	22	22
Mean			200.63	4.48	13.82	2.19	0.77	-0.60
Standard Deviation			235.83	1.50	11.60	1.28	0.65	0.88
H(95%)				3.00		2.84		2.41
95% UCL			265.92	566.64	17.65	40.93	1.00	1.27
H(90%)				2.24		2.22		1.78
90% UCL				470.05		35.05		1.13
80% UCL			235.22		15.85		0.89	

TABLE 13

0.60 METER SAMPLE DEPTH - ALL SAMPLES
 LEAD STATISTICAL ANALYSIS AND CALCULATIONS
 Route 405 - Construction of Soundwall
 Los Angeles County, California

Task Order No. 07-0535A 1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)		WET (mg/L)		DI WET (mg/L)	
			Normal	Lognormal	Normal	Lognormal	Normal	Lognormal
30+00	0.6	2	32.5	3.48	----	----	----	----
30+200	0.6	2	27.8	3.33	----	----	----	----
30+400	0.6	2	7.98	2.08	----	----	----	----
30+600	0.6	2	24.2	3.19	----	----	----	----
30+800	0.6	2	25.8	3.25	----	----	----	----
34a+00	0.6	2	21.6	3.07	----	----	----	----
34a+200	0.6	2	8.59	2.15	----	----	----	----
34a+600	0.6	2	15.4	2.73	----	----	----	----
38+00	0.6	2	180	5.19	1.3	0.26	----	----
38+200	0.6	2	25	3.22	----	----	----	----
38+400	0.6	2	135	4.91	7	1.93	0.055	-2.90
38+600	0.6	2	356	5.87	13	2.53	0.586	-0.53
38+800	0.6	2	466	6.14	22	3.10	0.782	-0.25
38+1000	0.6	2	763	6.64	29	3.36	1.92	0.65
38+1200	0.6	2	761	6.63	71	4.26	3.81	1.34
38+1400	0.6	2	9.33	2.23	----	----	----	----
38+1600	0.6	2	98.50	4.59	3.74	1.32	----	----
38+1800	0.6	2	24.7	3.21	----	----	----	----
38+2200	0.6	2	21.7	3.08	----	----	----	----
46+00	0.6	2	26.4	3.27	----	----	----	----
46+200	0.6	2	186	5.23	16.1	2.78	0.846	-0.17
46+400	0.6	2	34.2	3.53	----	----	----	----
46+600	0.6	2	18.6	2.92	----	----	----	----
46+800	0.6	2	97.4	4.58	3.1	1.13	----	----
46+1000	0.6	2	62.6	4.14	1.16	0.15	----	----
46+1200	0.6	2	15	2.71	----	----	----	----
46+1400	0.6	2	18.6	2.92	----	----	----	----
46+1600	0.6	2	8.74	2.17	----	----	----	----
46+1800	0.6	2	18.1	2.90	----	----	----	----
46+2000	0.6	2	4.33	1.47	----	----	----	----
35+00	0.6	2	23.7	3.17	----	----	----	----
35+100	0.6	2	46	3.83	----	----	----	----
35+200	0.6	2	9.1	2.21	----	----	----	----
35+300	0.6	2	6.45	1.86	----	----	----	----
35+400	0.6	2	6.2	1.82	----	----	----	----
35+500	0.6	2	244	5.50	1.69	0.52	----	----
39+00	0.6	2	4.66	1.54	----	----	----	----
39+100	0.6	2	176	5.17	12.4	2.52	0.105	-2.25
39+200	0.6	2	6.73	1.91	----	----	----	----
39+300	0.6	2	10	2.30	----	----	----	----
39+400	0.6	2	849	6.74	64.4	4.17	4.17	1.43
39+500	0.6	2	17.4	2.86	----	----	----	----
39+600	0.6	2	6.77	1.91	----	----	----	----
39+700	0.6	2	351	5.86	8.43	2.13	0.216	-1.53
39+800	0.6	2	28.3	3.34	----	----	----	----
39+900	0.6	2	231	5.44	15.8	2.76	0.22	-1.51
39+1000	0.6	2	25.8	3.25	----	----	----	----
39+1100	0.6	2	30.7	3.42	----	----	----	----
39+1200	0.6	2	74.5	4.31	3.52	1.26	----	----
45+00	0.6	2	108	4.68	10	2.30	0.526	-0.64
45+100	0.6	2	90.6	4.51	14.4	2.67	0.468	-0.76
45+200	0.6	2	10.1	2.31	----	----	----	----
45+300	0.6	2	17.1	2.84	----	----	----	----
45+400	0.6	2	156	5.05	7.21	1.98	0.476	-0.74
45+500	0.6	2	403	6.00	26.7	3.28	1.28	0.25
45+600	0.6	2	231	5.44	18.5	2.92	1.56	0.44
45+700	0.6	2	153	5.03	17.9	2.88	0.386	-0.95
45+800	0.6	2	90.6	4.51	3.85	1.35	----	----
45+900	0.6	2	12.5	2.53	----	----	----	----
45+1000	0.6	2	34.1	3.53	----	----	----	----
45+1100	0.6	2	9.63	2.26	----	----	----	----
45+1200	0.6	2	8.42	2.13	----	----	----	----
45+1300	0.6	2	317	5.76	22.4	3.11	1.26	0.23
45+1400	0.6	2	43.7	3.78	----	----	----	----
45+1500	0.6	2	93.4	4.54	4.18	1.43	----	----
45+1600	0.6	2	239	5.48	8.89	2.18	0.214	-1.54
45+1700	0.6	2	89.9	4.50	9.9	2.29	0.257	-1.36
45+1800	0.6	2	308	5.73	9.96	2.30	0.254	-1.37
Sample Population			68	68	28	28	20	20
Degrees of Freedom			67	67	27	27	19	19
Mean			118.48	3.79	15.24	2.25	0.97	-0.61
Standard Deviation			182.51	1.43	16.65	1.04	1.15	1.13
H(95%)				2.80		2.52		3.04
95% UCL			156.03	202.00	20.63	26.95	1.42	2.81
H(90%)				2.10		1.89		2.03
90% UCL				178.71		23.75		2.06
80% UCL			138.37		18.10		1.21	

TABLE 14

**0.60 METER SAMPLE DEPTH - NORTHBOUND
LEAD STATISTICAL ANALYSIS AND CALCULATIONS**

Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)		WET (mg/L)		DI WET (mg/L)	
			Normal	Lognormal	Normal	Lognormal	Normal	Lognormal
30+00	0.6	2	32.5	3.48	---	---	---	---
30+200	0.6	2	27.8	3.33	---	---	---	---
30+400	0.6	2	7.98	2.08	---	---	---	---
30+600	0.6	2	24.2	3.19	---	---	---	---
30+800	0.6	2	25.8	3.25	---	---	---	---
34a+00	0.6	2	21.6	3.07	---	---	---	---
34a+200	0.6	2	8.59	2.15	---	---	---	---
34a+600	0.6	2	15.4	2.73	---	---	---	---
38+00	0.6	2	180	5.19	1.3	0.26	---	---
38+200	0.6	2	25	3.22	---	---	---	---
38+400	0.6	2	135	4.91	6.88	1.93	0.055	-2.90
38+600	0.6	2	356	5.87	12.60	2.53	0.586	-0.53
38+800	0.6	2	466	6.14	22.30	3.10	0.782	-0.25
38+1000	0.6	2	763	6.64	28.80	3.36	1.92	0.65
38+1200	0.6	2	761	6.63	70.60	4.26	3.81	1.34
38+1400	0.6	2	9.33	2.23	---	---	---	---
38+1600	0.6	2	98.50	4.59	3.74	1.32	---	---
38+1800	0.6	2	24.7	3.21	---	---	---	---
38+2200	0.6	2	21.7	3.08	---	---	---	---
46+00	0.6	2	26.4	3.27	---	---	---	---
46+200	0.6	2	186	5.23	16.1	2.78	0.846	-0.17
46+400	0.6	2	34.2	3.53	---	---	---	---
46+600	0.6	2	18.6	2.92	---	---	---	---
46+800	0.6	2	97.4	4.58	3.1	1.13	---	---
46+1000	0.6	2	62.6	4.14	1.16	0.15	---	---
46+1200	0.6	2	15	2.71	---	---	---	---
46+1400	0.6	2	18.6	2.92	---	---	---	---
46+1600	0.6	2	8.74	2.17	---	---	---	---
46+1800	0.6	2	18.1	2.90	---	---	---	---
46+2000	0.6	2	4.33	1.47	---	---	---	---
Sample Population			30	30	10	10	6	6
Degrees of Freedom			29	29	9	9	5	5
Mean			116.47	3.69	16.66	2.08	1.33	-0.31
Standard Deviation			204.73	1.39	21.16	1.36	1.36	1.44
H(95%)				2.84		3.89		7.10
95% UCL			180.49	220.40	28.53	118.17	2.36	203.97
H(90%)				2.12		2.68		4.21
90% UCL				182.99		68.26		31.55
80% UCL			150.38		22.95		1.87	

TABLE 15

0.60 METER SAMPLE DEPTH - SOUTHBOUND
 LEAD STATISTICAL ANALYSIS AND CALCULATIONS
 Route 405 - Construction of Soundwall
 Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal	WET (mg/L) Normal	WET Lognormal	DI WET (mg/L) Normal	DI WET Lognormal
35+00	0.6	2	23.7	3.17	----	----	----	----
35+100	0.6	2	46	3.83	----	----	----	----
35+200	0.6	2	9.1	2.21	----	----	----	----
35+300	0.6	2	6.45	1.86	----	----	----	----
35+400	0.6	2	6.2	1.82	----	----	----	----
35+500	0.6	2	244	5.50	1.69	0.52	----	----
39+00	0.6	2	4.66	1.54	----	----	----	----
39+100	0.6	2	176	5.17	12.4	2.52	0.105	-2.25
39+200	0.6	2	6.73	1.91	----	----	----	----
39+300	0.6	2	10	2.30	----	----	----	----
39+400	0.6	2	849	6.74	64.4	4.17	4.17	1.43
39+500	0.6	2	17.4	2.86	----	----	----	----
39+600	0.6	2	6.77	1.91	----	----	----	----
39+700	0.6	2	351	5.86	8.43	2.13	0.216	-1.53
39+800	0.6	2	28.3	3.34	----	----	----	----
39+900	0.6	2	231	5.44	15.8	2.76	0.22	-1.51
39+1000	0.6	2	25.8	3.25	----	----	----	----
39+1100	0.6	2	30.7	3.42	----	----	----	----
39+1200	0.6	2	74.5	4.31	3.52	1.26	----	----
45+00	0.6	2	108	4.68	10.0	2.30	0.526	-0.64
45+100	0.6	2	90.6	4.51	14.4	2.67	0.468	-0.76
45+200	0.6	2	10.1	2.31	----	----	----	----
45+300	0.6	2	17.1	2.84	----	----	----	----
45+400	0.6	2	156	5.05	7.21	1.98	0.476	-0.74
45+500	0.6	2	403	6.00	26.7	3.28	1.28	0.25
45+600	0.6	2	231	5.44	18.5	2.92	1.56	0.44
45+700	0.6	2	153	5.03	17.9	2.88	0.386	-0.95
45+800	0.6	2	90.6	4.51	3.85	1.35	----	----
45+900	0.6	2	12.5	2.53	----	----	----	----
45+1000	0.6	2	34.1	3.53	----	----	----	----
45+1100	0.6	2	9.63	2.26	----	----	----	----
45+1200	0.6	2	8.42	2.13	----	----	----	----
45+1300	0.6	2	317	5.76	22.4	3.11	1.26	0.23
45+1400	0.6	2	43.7	3.78	----	----	----	----
45+1500	0.6	2	93.4	4.54	4.18	1.43	----	----
45+1600	0.6	2	239	5.48	8.89	2.18	0.214	-1.54
45+1700	0.6	2	89.9	4.50	9.9	2.29	0.257	-1.36
45+1800	0.6	2	308	5.73	9.96	2.30	0.254	-1.37
Sample Population			38	38	18	18	14	14
Degrees of Freedom			37	37	17	17	13	13
Mean			120.06	3.87	14.45	2.34	0.81	-0.74
Standard Deviation			165.72	1.48	14.19	0.85	1.07	1.00
H(95%)				2.98		2.42		2.80
95% UCL			165.94	294.82	20.25	24.40	1.31	1.72
H(90%)				2.21		1.76		2.01
90% UCL				244.51		21.30		1.38
80% UCL			144.36		17.52		1.08	

TABLE 16

0.90 METER SAMPLE DEPTH - ALL SAMPLES
 LEAD STATISTICAL ANALYSIS AND CALCULATIONS
 Route 405 - Construction of Soundwall
 Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)		WET (mg/L)		DI WET (mg/L)	
			Normal	Lognormal	Normal	Lognormal	Normal	Lognormal
30+00	0.9	3	12.3	2.51	----	----	----	----
30+200	0.9	3	98.1	4.59	12.0	2.48	0.339	-1.08
30+400	0.9	3	65.3	4.18	2.94	1.08	----	----
30+600	0.9	3	90.8	4.51	3.09	1.13	----	----
30+800	0.9	3	50.7	3.93	6.13	1.81	0.127	-2.06
34a+00	0.9	3	5.71	1.74	----	----	----	----
34a+200	0.9	3	----	----	----	----	----	----
34a+600	0.9	3	31.8	3.46	----	----	----	----
38+00	0.9	3	16.2	2.79	----	----	----	----
38+200	0.9	3	12	2.48	----	----	----	----
38+400	0.9	3	24	3.16	----	----	----	----
38+600	0.9	3	24	3.18	----	----	----	----
38+800	0.9	3	293	5.68	25.5	3.24	0.260	-1.35
38+1000	0.9	3	607	6.41	40.9	3.71	1.37	0.31
38+1200	0.9	3	8	2.09	----	----	----	----
38+1400	0.9	3	20.20	3.01	----	----	----	----
38+1600	0.9	3	106.00	4.66	3.10	1.13	----	----
38+1800	0.9	3	48.3	3.88	----	----	----	----
38+2200	0.9	3	41.8	3.73	----	----	----	----
46+00	0.9	3	5.89	1.77	----	----	----	----
46+200	0.9	3	7.41	2.00	----	----	----	----
46+400	0.9	3	21.7	3.08	----	----	----	----
46+600	0.9	3	28.4	3.35	----	----	----	----
46+800	0.9	3	25.2	3.23	----	----	----	----
46+1000	0.9	3	10.9	2.39	----	----	----	----
46+1200	0.9	3	4.45	1.49	----	----	----	----
46+1400	0.9	3	5.97	1.79	----	----	----	----
46+1600	0.9	3	7.34	1.99	----	----	----	----
46+1800	0.9	3	5.5	1.70	----	----	----	----
46+2000	0.9	3	6.74	1.91	----	----	----	----
35+00	0.9	3	12.5	2.53	----	----	----	----
35+100	0.9	3	36.5	3.60	----	----	----	----
35+200	0.9	3	16.5	2.80	----	----	----	----
35+300	0.9	3	6.51	1.87	----	----	----	----
35+400	0.9	3	12.6	2.53	----	----	----	----
35+500	0.9	3	29.3	3.38	----	----	----	----
39+00	0.9	3	4.46	1.50	----	----	----	----
39+100	0.9	3	262	5.57	2.5	0.92	----	----
39+200	0.9	3	20.3	3.01	----	----	----	----
39+300	0.9	3	140	4.94	2.52	0.92	----	----
39+400	0.9	3	48.2	3.88	----	----	----	----
39+500	0.9	3	6.64	1.89	----	----	----	----
39+600	0.9	3	5.71	1.74	----	----	----	----
39+700	0.9	3	8.95	2.19	----	----	----	----
39+800	0.9	3	148	5.00	9.36	2.24	0.15	-1.90
39+900	0.9	3	291	5.67	11.9	2.48	0.325	-1.12
39+1000	0.9	3	33.8	3.52	----	----	----	----
39+1100	0.9	3	79.8	4.38	1.69	0.52	----	----
39+1200	0.9	3	347	5.85	13.0	2.56	1.09	0.09
45+00	0.9	3	8.44	2.13	----	----	----	----
45+100	0.9	3	29.7	3.39	----	----	----	----
45+200	0.9	3	7.85	2.06	----	----	----	----
45+300	0.9	3	15.7	2.75	----	----	----	----
45+400	0.9	3	35.6	3.57	----	----	----	----
45+500	0.9	3	363	5.89	25.2	3.23	2.22	0.80
45+600	0.9	3	32.7	3.49	----	----	----	----
45+700	0.9	3	143	4.96	14.6	2.68	0.591	-0.53
45+800	0.9	3	88.7	4.49	4.21	1.44	----	----
45+900	0.9	3	33	3.50	----	----	----	----
45+1000	0.9	3	141	4.95	12.7	2.54	1.48	0.39
45+1100	0.9	3	166	5.11	5.8	1.76	0.446	-0.81
45+1200	0.9	3	5.92	1.78	----	----	----	----
45+1300	0.9	3	572	6.35	2.45	0.90	----	----
45+1400	0.9	3	18.6	2.92	----	----	----	----
45+1500	0.9	3	87.7	4.47	1.3	0.26	----	----
45+1600	0.9	3	187	5.23	1.66	0.51	----	----
45+1700	0.9	3	108	4.68	0.747	-0.29	----	----
45+1800	0.9	3	26.5	3.28	----	----	----	----
Sample Population			67	67	22	22	11	11
Degrees of Freedom			66	66	21	21	10	10
Mean			78.57	3.46	9.24	1.69	0.76	-0.66
Standard Deviation			123.67	1.34	10.09	1.08	0.68	0.96
H(95%)				2.66		2.67		3.06
95% UCL			104.21	120.65	12.95	18.27	1.13	2.06
H(90%)				2.01		1.97		2.13
90% UCL				108.38		15.49		1.56
80% UCL			92.15		11.21		0.96	

TABLE 17

0.90 METER SAMPLE DEPTH - NORTHBOUND
LEAD STATISTICAL ANALYSIS AND CALCULATIONS

Route 405 - Construction of Soundwall
Los Angeles County, California

Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg) Normal	Total Lead Lognormal	WET (mg/L) Normal	WET Lognormal	DI WET (mg/L) Normal	DI WET Lognormal
30+00	0.9	3	12.3	2.51	---	---	---	---
30+200	0.9	3	98.1	4.59	12.0	2.48	0.339	-1.08
30+400	0.9	3	65.3	4.18	2.94	1.08	---	---
30+600	0.9	3	90.8	4.51	3.09	1.13	---	---
30+800	0.9	3	50.7	3.93	6.13	1.81	0.127	-2.06
34a+00	0.9	3	5.71	1.74	---	---	---	---
34a+200	0.9	3	---	---	---	---	---	---
34a+600	0.9	3	31.8	3.46	---	---	---	---
38+00	0.9	3	16.2	2.79	---	---	---	---
38+200	0.9	3	12	2.48	---	---	---	---
38+400	0.9	3	24	3.16	---	---	---	---
38+600	0.9	3	24	3.18	---	---	---	---
38+800	0.9	3	293	5.68	25.5	3.24	0.26	-1.35
38+1000	0.9	3	607	6.41	40.9	3.71	1.37	0.31
38+1200	0.9	3	8	2.09	---	---	---	---
38+1400	0.9	3	20.20	3.01	---	---	---	---
38+1600	0.9	3	106.00	4.66	3.10	1.13	---	---
38+1800	0.9	3	48.3	3.88	---	---	---	---
38+2200	0.9	3	41.8	3.73	---	---	---	---
46+00	0.9	3	5.89	1.77	---	---	---	---
46+200	0.9	3	7.41	2.00	---	---	---	---
46+400	0.9	3	21.7	3.08	---	---	---	---
46+600	0.9	3	28.4	3.35	---	---	---	---
46+800	0.9	3	25.2	3.23	---	---	---	---
46+1000	0.9	3	10.9	2.39	---	---	---	---
46+1200	0.9	3	4.45	1.49	---	---	---	---
46+1400	0.9	3	5.97	1.79	---	---	---	---
46+1600	0.9	3	7.34	1.99	---	---	---	---
46+1800	0.9	3	5.5	1.70	---	---	---	---
46+2000	0.9	3	6.74	1.91	---	---	---	---
Sample Population			29	29	7	7	4	4
Degrees of Freedom			28	28	6	6	3	3
Mean			58.08	3.13	13.38	2.08	0.52	-1.04
Standard Deviation			119.82	1.24	14.60	1.08	0.57	1.00
H(95%)				2.82		3.93		8.78
95% UCL			96.21	95.98	23.42	82.25	1.08	90.34
H(90%)				2.06		2.60		4.47
90% UCL				80.27		45.66		7.57
80% UCL			78.28		18.70		0.82	

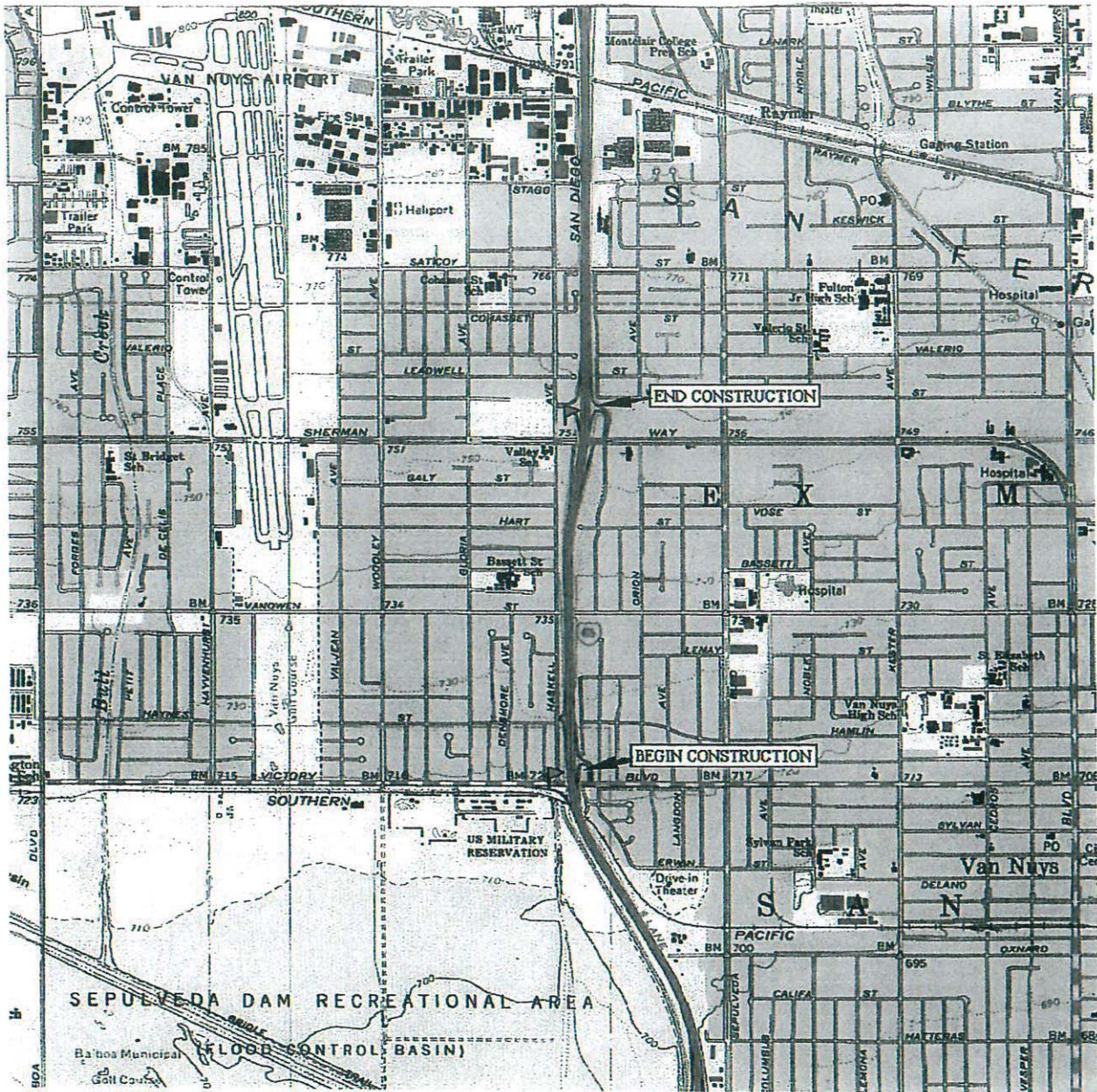
TABLE 18

0.90 METER SAMPLE DEPTH - SOUTHBOUND
LEAD STATISTICAL ANALYSIS AND CALCULATIONS
Route 405 - Construction of Soundwall
Los Angeles County, California

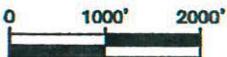
Task Order No. 07-0535A1-3C

Boring Number	Sample Depth (m)	Sample Depth (ft)	Total Lead (mg/kg)		WET (mg/L)		DI WET (mg/L)	
			Normal	Lognormal	Normal	Lognormal	Normal	Lognormal
35+00	0.9	3	12.5	2.53	---	---	---	---
35+100	0.9	3	36.5	3.60	---	---	---	---
35+200	0.9	3	16.5	2.80	---	---	---	---
35+300	0.9	3	6.51	1.87	---	---	---	---
35+400	0.9	3	12.6	2.53	---	---	---	---
35+500	0.9	3	29.3	3.38	---	---	---	---
39+00	0.9	3	4.46	1.50	---	---	---	---
39+100	0.9	3	262	5.57	2.5	0.92	---	---
39+200	0.9	3	20.3	3.01	---	---	---	---
39+300	0.9	3	140	4.94	2.52	0.92	---	---
39+400	0.9	3	48.2	3.88	---	---	---	---
39+500	0.9	3	6.64	1.89	---	---	---	---
39+600	0.9	3	5.71	1.74	---	---	---	---
39+700	0.9	3	8.95	2.19	---	---	---	---
39+800	0.9	3	148	5.00	9.36	2.24	0.15	-1.90
39+900	0.9	3	291	5.67	11.9	2.48	0.325	-1.12
39+1000	0.9	3	33.8	3.52	---	---	---	---
39+1100	0.9	3	79.8	4.38	1.69	0.52	---	---
39+1200	0.9	3	347	5.85	13	2.56	1.09	0.09
45+00	0.9	3	8.44	2.13	---	---	---	---
45+100	0.9	3	29.7	3.39	---	---	---	---
45+200	0.9	3	7.85	2.06	---	---	---	---
45+300	0.9	3	15.7	2.75	---	---	---	---
45+400	0.9	3	35.6	3.57	---	---	---	---
45+500	0.9	3	363	5.89	25.2	3.23	2.22	0.80
45+600	0.9	3	32.7	3.49	---	---	---	---
45+700	0.9	3	143	4.96	14.6	2.68	0.591	-0.53
45+800	0.9	3	88.7	4.49	4.21	1.44	---	---
45+900	0.9	3	33	3.50	---	---	---	---
45+1000	0.9	3	141	4.95	12.7	2.54	1.48	0.39
45+1100	0.9	3	166	5.11	5.8	1.76	0.446	-0.81
45+1200	0.9	3	5.92	1.78	---	---	---	---
45+1300	0.9	3	572	6.35	2.45	0.90	---	---
45+1400	0.9	3	18.6	2.92	---	---	---	---
45+1500	0.9	3	87.7	4.47	1.3	0.26	---	---
45+1600	0.9	3	187	5.23	1.66	0.51	---	---
45+1700	0.9	3	108	4.68	0.747	-0.29	---	---
45+1800	0.9	3	26.5	3.28	---	---	---	---
Sample Population			38	38	15	15	7	7
Degrees of Freedom			37	37	14	14	6	6
Mean			94.22	3.71	7.31	1.51	0.90	-0.44
Standard Deviation			125.85	1.37	6.99	1.06	0.74	0.93
H(95%)				2.83		2.84		3.50
95% UCL			129.06	197.72	10.46	17.92	1.41	3.78
H(90%)				2.11		2.05		2.33
90% UCL				168.08		14.31		2.42
80% UCL			112.67		8.98		1.17	

FIGURES



SOURCE:
 WILD FLOWER PRODUCTIONS
 TOPOI CALIFORNIA CD-ROM DISK 10: LOS ANGELES



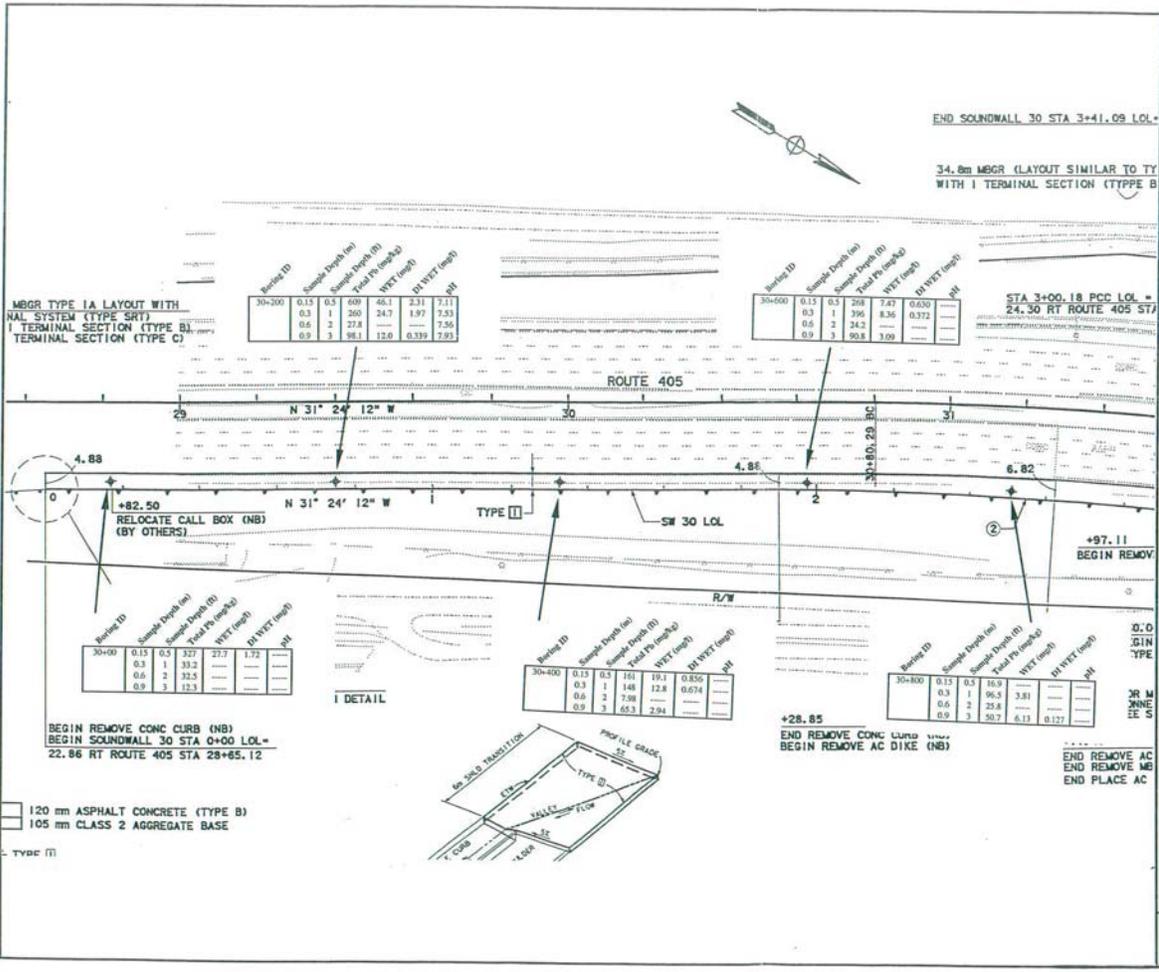
SITE VICINITY MAP

CALIFORNIA DEPARTMENT OF TRANSPORTATION
 DISTRICT 7
 SOUNDWALL CONSTRUCTION PROJECT
 ROUTE 405, LOS ANGELES, CALIFORNIA
 TASK ORDER NO. 07-0535A1-3C

PROJECT NO. 10-515



ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA



0 .25 .5

METRIC SCALE

LEGEND

◆ SOIL BORING LOCATION

FIGURE 2

SITE PLAN SHOWING SOIL BORING LOCATIONS AND ANALYTICAL RESULTS

CALIFORNIA DEPARTMENT OF TRANSPORTATION DISTRICT 7

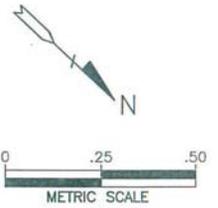
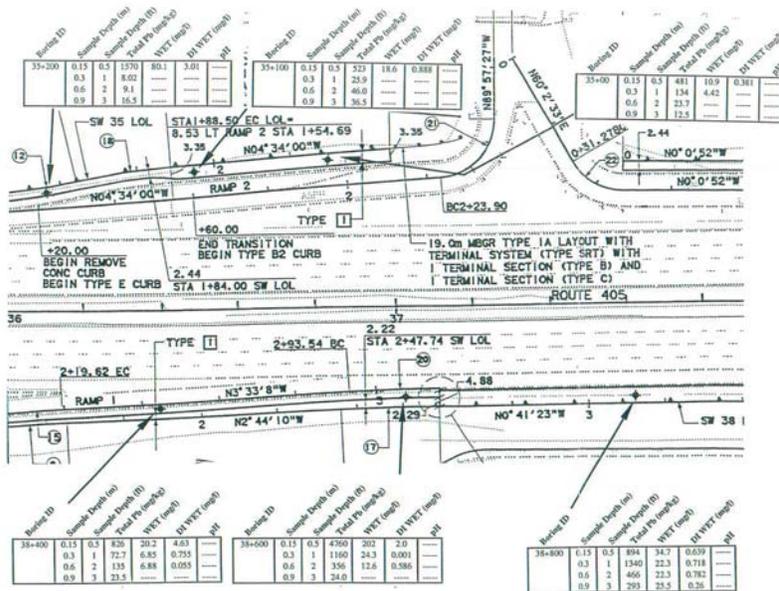
SOUNDWALL CONSTRUCTION PROJECT

ROUTE 405, LOS ANGELES, CALIFORNIA

TASK ORDER No. 07-0535A1-3C

PROJECT NO. 10-515

ALISTO ENGINEERING GROUP
WALNUT CREEK, CALIFORNIA



LEGEND

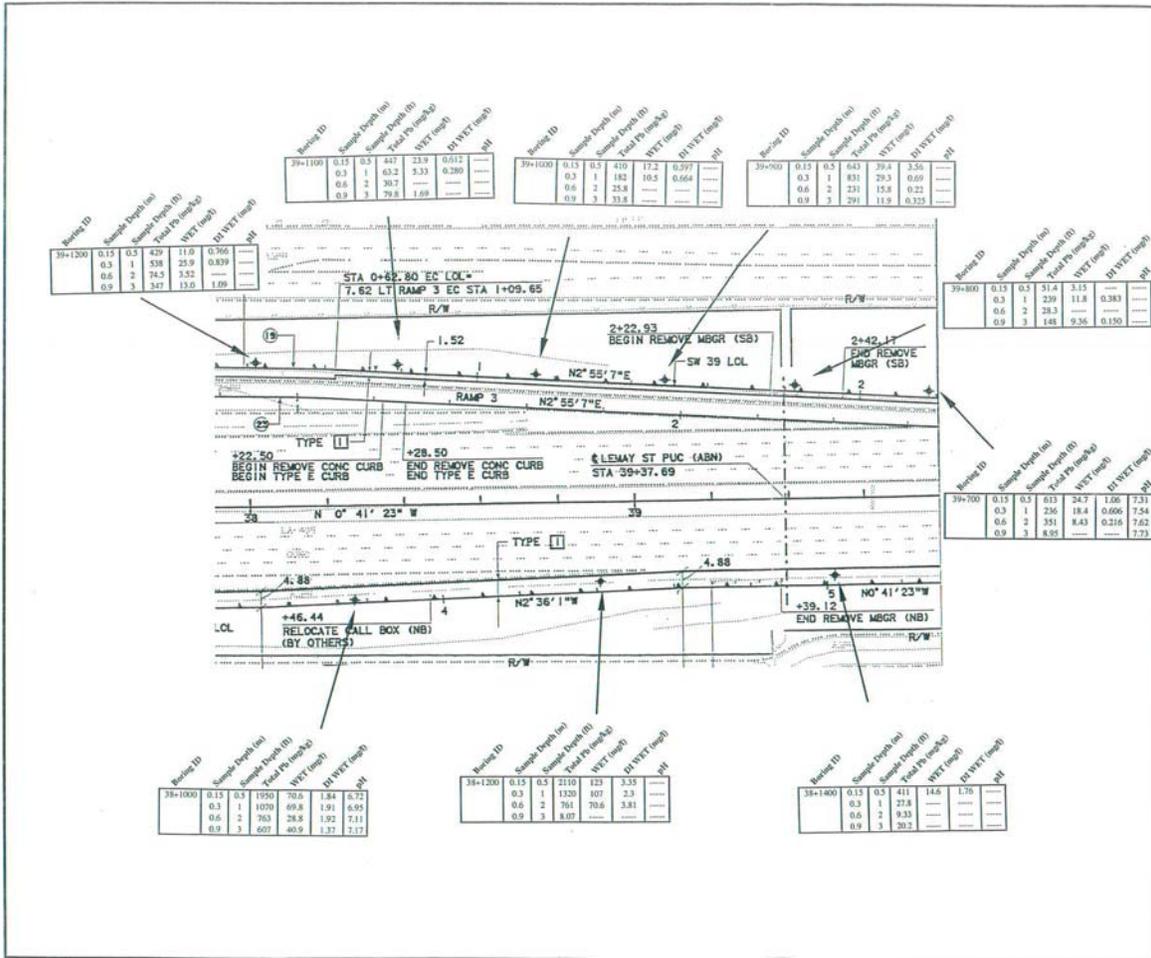
◆ SOIL BORING LOCATION

FIGURE 2 (CONTINUED)
SITE PLAN SHOWING
SOIL BORING LOCATIONS AND
ANALYTICAL RESULTS

CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 7
SOUNDWALL CONSTRUCTION PROJECT
ROUTE 405, LOS ANGELES, CALIFORNIA
TASK ORDER No. 07-0535A1-3C
PROJECT NO. 10-515



8/1/2010 10:51:51 AM



N

METRIC SCALE

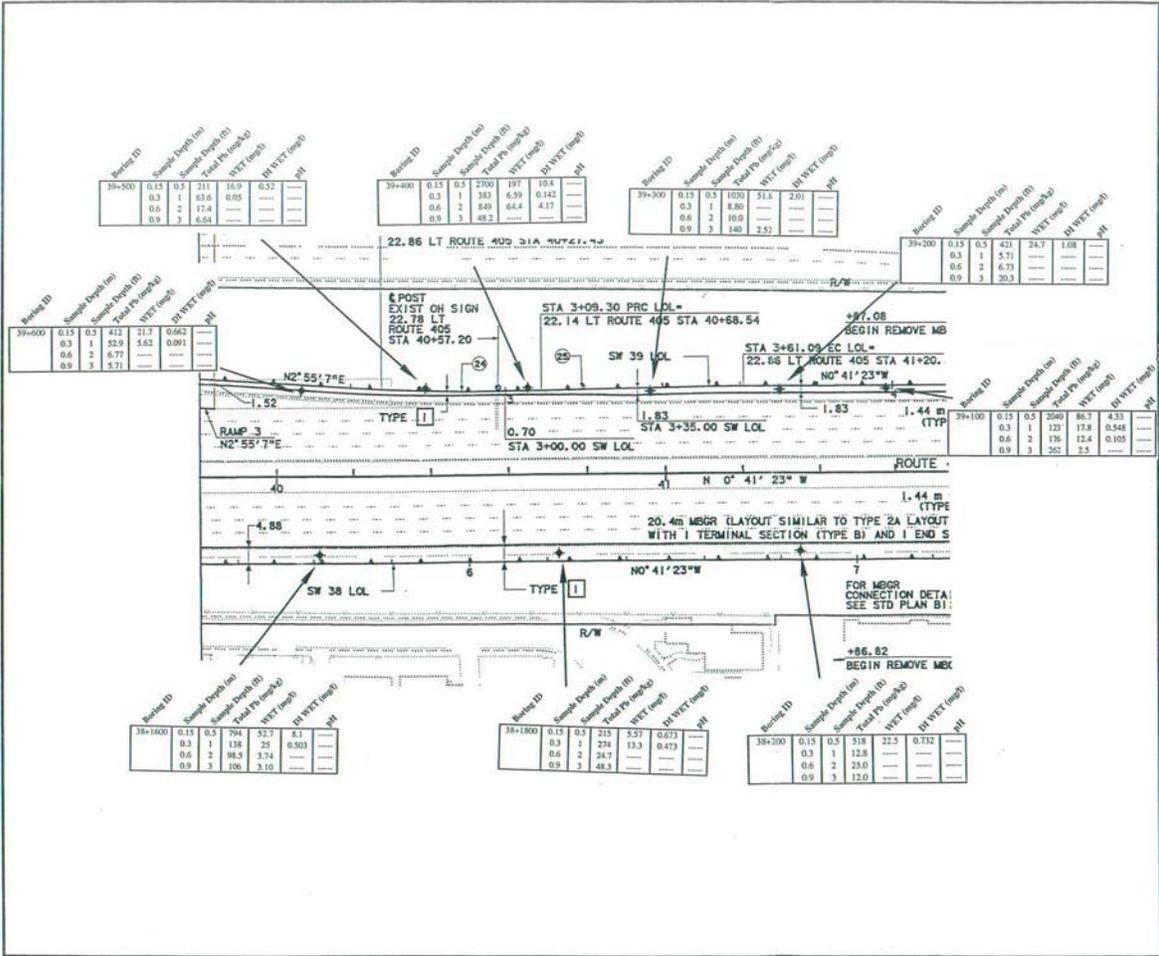
LEGEND

✦ SOIL BORING LOCATION

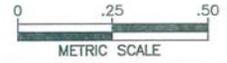
FIGURE 2 (CONTINUED)
 SITE PLAN SHOWING
 SOIL BORING LOCATIONS AND
 ANALYTICAL RESULTS

CALIFORNIA DEPARTMENT OF TRANSPORTATION
 DISTRICT 7
 SOUNDWALL CONSTRUCTION PROJECT
 ROUTE 405, LOS ANGELES, CALIFORNIA
 TASK ORDER No. 07-0535A1-3C
 PROJECT NO. 10-515

ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA





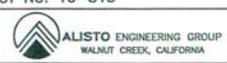


LEGEND

◆ SOIL BORING LOCATION

FIGURE 2 (CONTINUED)
SOIL BORING LOCATIONS AND ANALYTICAL RESULTS

CALIFORNIA DEPARTMENT OF TRANSPORTATION
 DISTRICT 7
 SOUNDWALL CONSTRUCTION PROJECT
 ROUTE 405, LOS ANGELES, CALIFORNIA
 TASK ORDER No. 07-0535A1-3C
 PROJECT NO. 10-515



Boring ID	Sample Depth (m)	Sample Depth (ft)	Total P _v (m/kip)	WET (m/kip)	DR WET (m/kip)	PH
39+00	0.15	0.5	29.8	---	---	---
	0.3	1	3.84	---	---	---
	0.6	2	4.66	---	---	---
	0.9	3	4.66	---	---	---

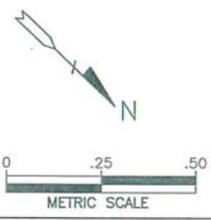
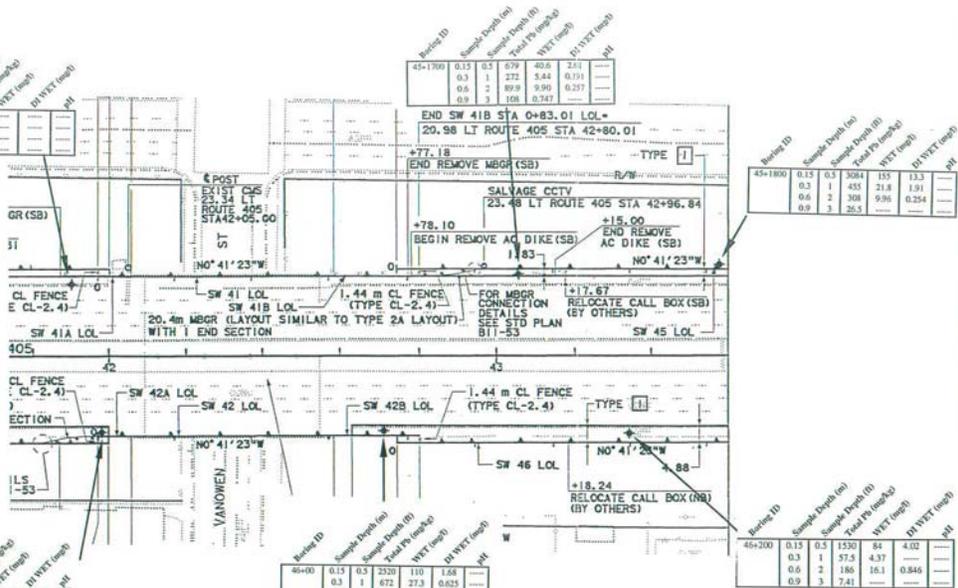
Boring ID	Sample Depth (m)	Sample Depth (ft)	Total P _v (m/kip)	WET (m/kip)	DR WET (m/kip)	PH
45-1700	0.15	0.5	679	40.6	2.61	---
	0.3	1	272	3.44	0.191	---
	0.6	2	80.8	3.90	0.257	---
	0.9	3	108	0.747	---	---

Boring ID	Sample Depth (m)	Sample Depth (ft)	Total P _v (m/kip)	WET (m/kip)	DR WET (m/kip)	PH
45-1800	0.15	0.5	3084	153	13.3	---
	0.3	1	455	21.8	1.91	---
	0.6	2	308	9.98	0.254	---
	0.9	3	26.5	---	---	---

Boring ID	Sample Depth (m)	Sample Depth (ft)	Total P _v (m/kip)	WET (m/kip)	DR WET (m/kip)	PH
35+2200	0.15	0.5	222	42	1.82	---
	0.3	1	307	14.6	0.489	---
	0.6	2	21.7	---	---	---
	0.9	3	41.8	---	---	---

Boring ID	Sample Depth (m)	Sample Depth (ft)	Total P _v (m/kip)	WET (m/kip)	DR WET (m/kip)	PH
40+00	0.15	0.5	2520	110	1.58	---
	0.3	1	672	27.3	0.625	---
	0.6	2	26.4	---	---	---
	0.9	3	5.89	---	---	---

Boring ID	Sample Depth (m)	Sample Depth (ft)	Total P _v (m/kip)	WET (m/kip)	DR WET (m/kip)	PH
45+200	0.15	0.5	1530	84	4.02	---
	0.3	1	57.5	4.37	---	---
	0.6	2	186	16.1	0.846	---
	0.9	3	7.41	---	---	---

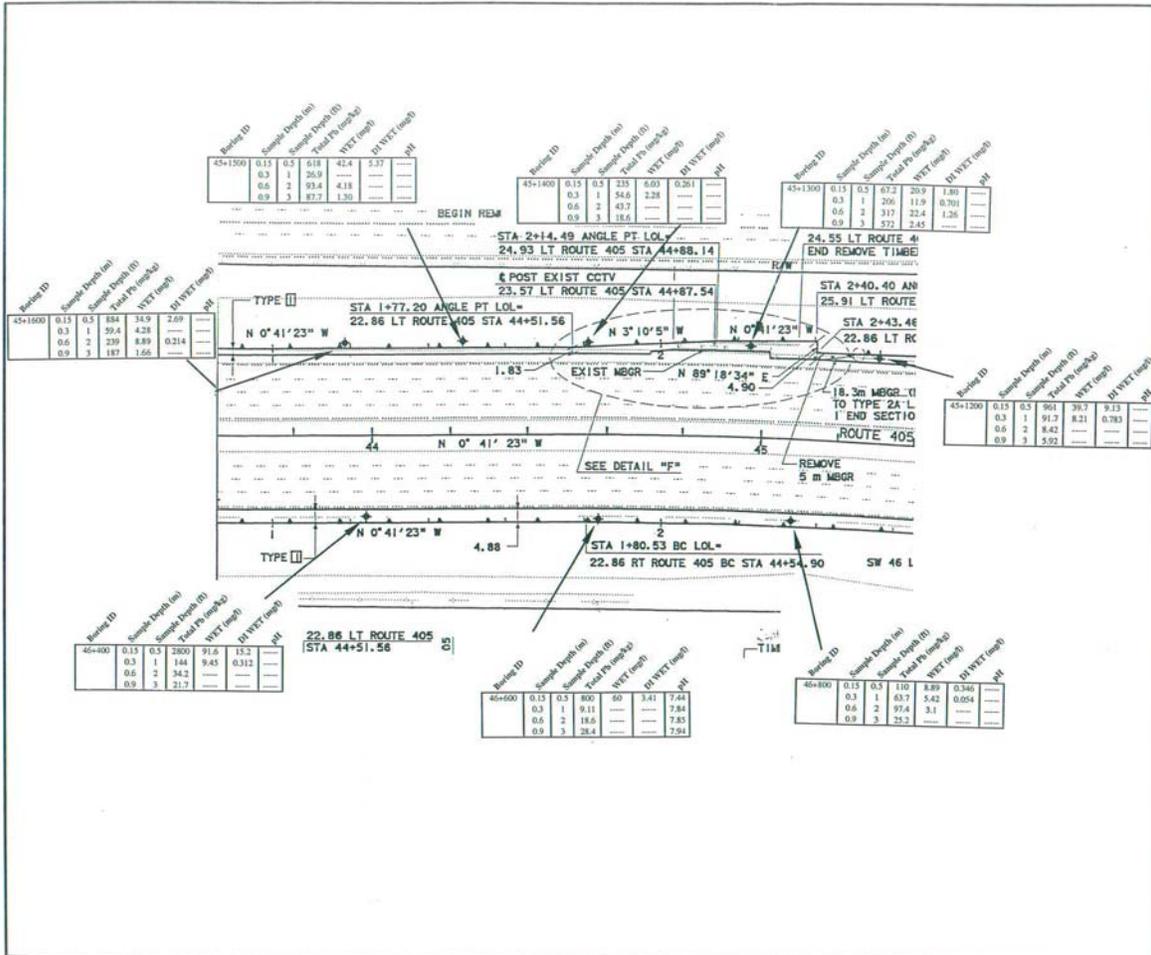


LEGEND
 * SOIL BORING LOCATION

FIGURE 2 (CONTINUED)
 SITE PLAN SHOWING
 SOIL BORING LOCATIONS AND
 ANALYTICAL RESULTS
 CALIFORNIA DEPARTMENT OF TRANSPORTATION
 DISTRICT 7
 SOUNDWALL CONSTRUCTION PROJECT
 ROUTE 405, LOS ANGELES, CALIFORNIA
 TASK ORDER No. 07-0535A1-3C
 PROJECT NO. 10-515



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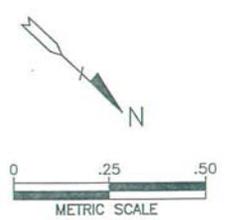
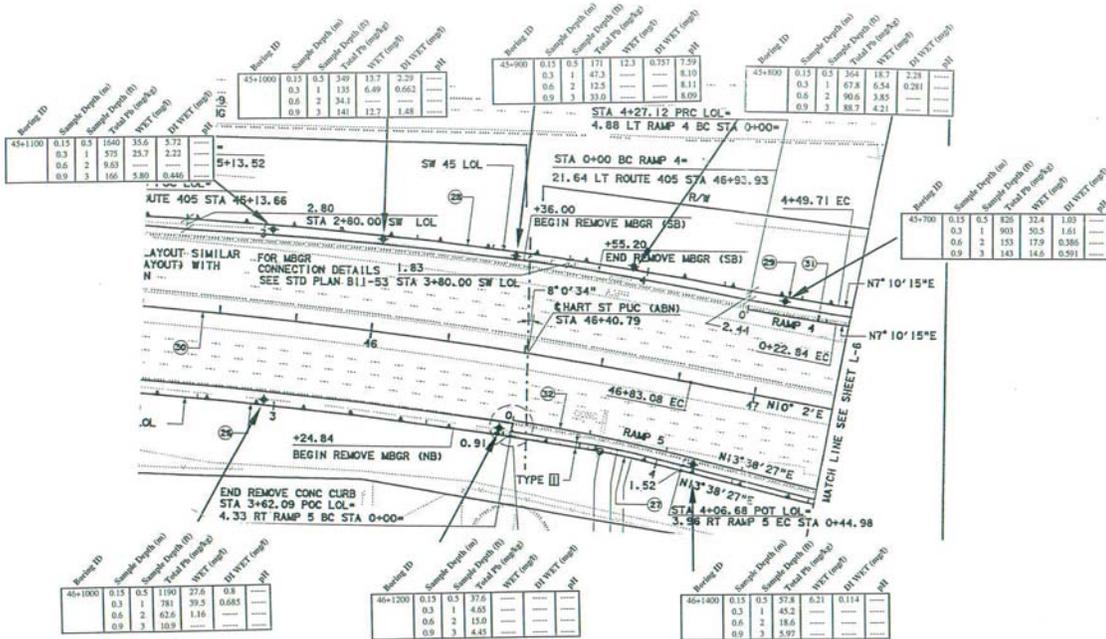
0 .25 .50
METRIC SCALE

LEGEND

✦ SOIL BORING LOCATION

FIGURE 2 (CONTINUED)
 SITE PLAN SHOWING
 SOIL BORING LOCATIONS AND
 ANALYTICAL RESULTS
 CALIFORNIA DEPARTMENT OF TRANSPORTATION
 DISTRICT 7
 SOUNDWALL CONSTRUCTION PROJECT
 ROUTE 405, LOS ANGELES, CALIFORNIA
 TASK ORDER No. 07-0535A1-3C
 PROJECT NO. 10-515

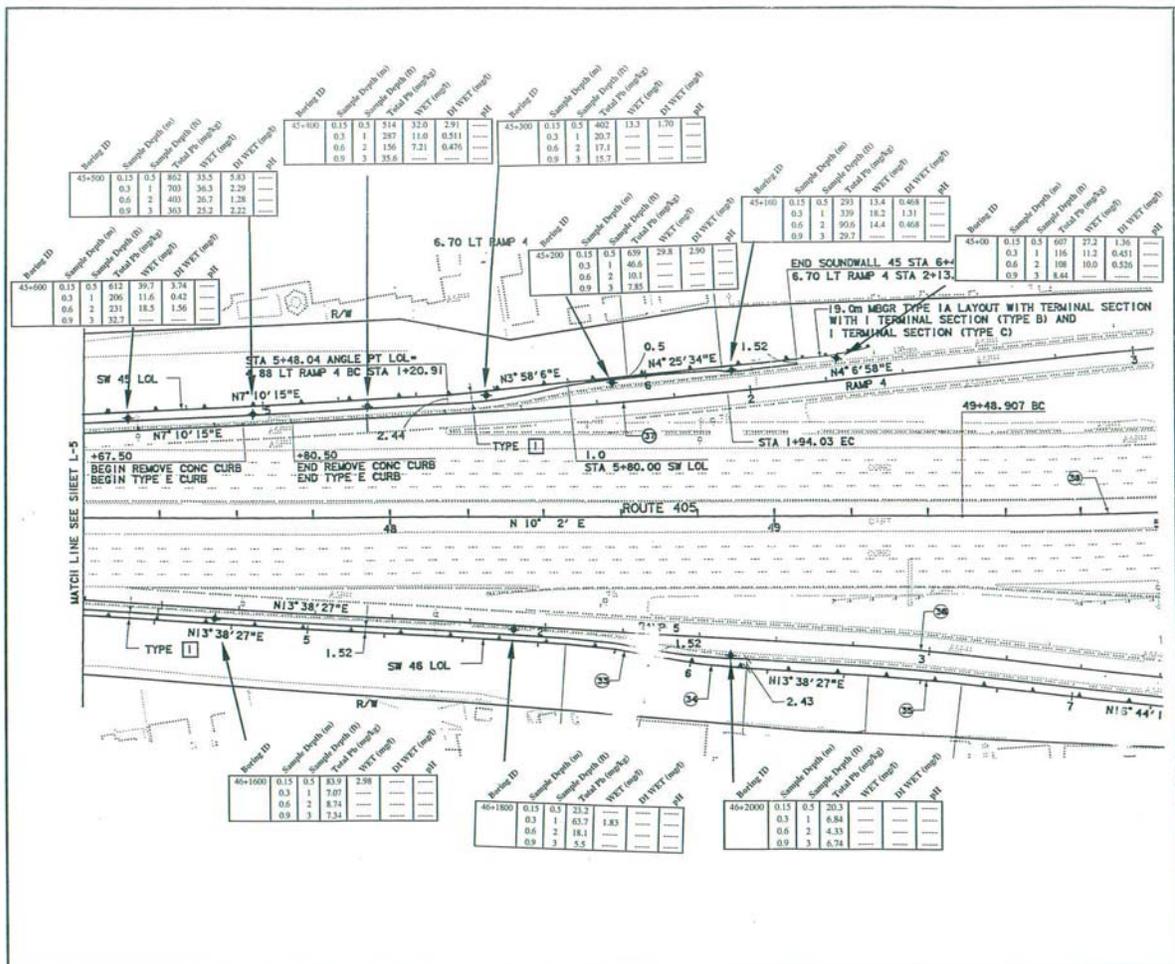
ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA



LEGEND
 ✦ SOIL BORING LOCATION

FIGURE 2 (CONTINUED)
 SITE PLAN SHOWING
 SOIL BORING LOCATIONS AND
 ANALYTICAL RESULTS
 CALIFORNIA DEPARTMENT OF TRANSPORTATION
 DISTRICT 7
 SOUNDWALL CONSTRUCTION PROJECT
 ROUTE 405, LOS ANGELES, CALIFORNIA
 TASK ORDER No. 07-0535A1-3C
 PROJECT NO. 10-515





METRIC SCALE'

LEGEND

- ◆ SOIL BORING LOCATION

FIGURE 2 (CONTINUED)
 SITE PLAN SHOWING
 SOIL BORING LOCATIONS AND
 ANALYTICAL RESULTS

CALIFORNIA DEPARTMENT OF TRANSPORTATION
 DISTRICT 7
 SOUNDWALL CONSTRUCTION PROJECT
 ROUTE 405, LOS ANGELES, CALIFORNIA
 TASK ORDER No. 07-0535A1-3C
 PROJECT NO. 10-515

ALISTO ENGINEERING GROUP
 WALNUT CREEK, CALIFORNIA

REGRESSION ANALYSIS OF
TOTAL LEAD VERSUS SOLUBLE LEAD BY WET METHOD

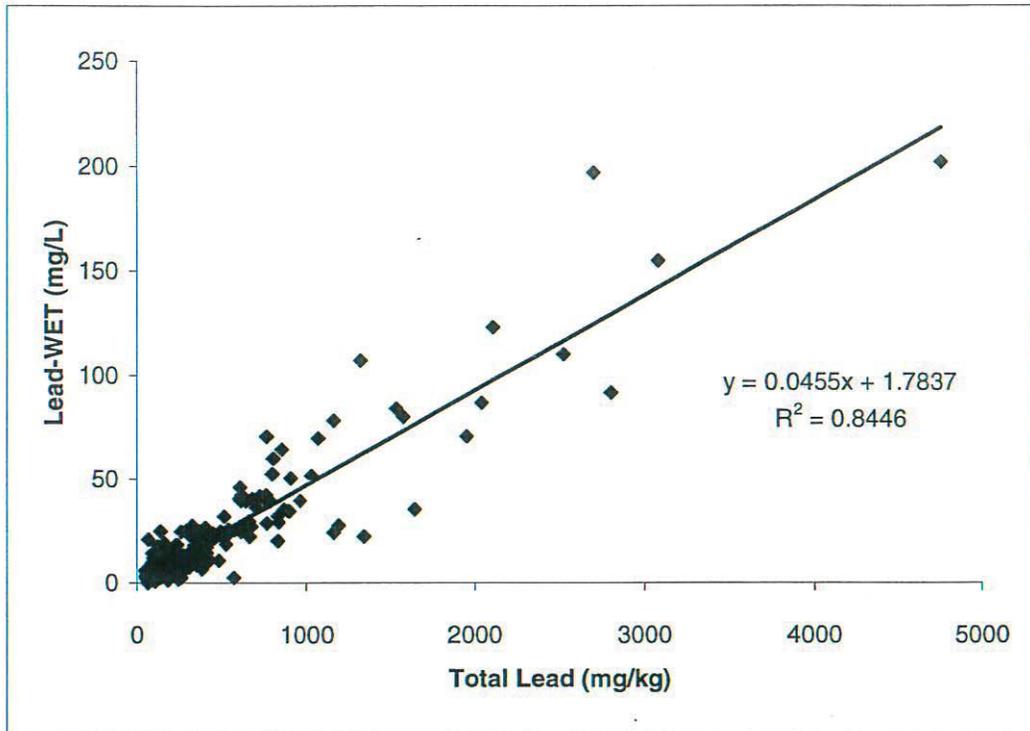


FIGURE 3

Histogram of Total Lead Analytical Results (mg/L)

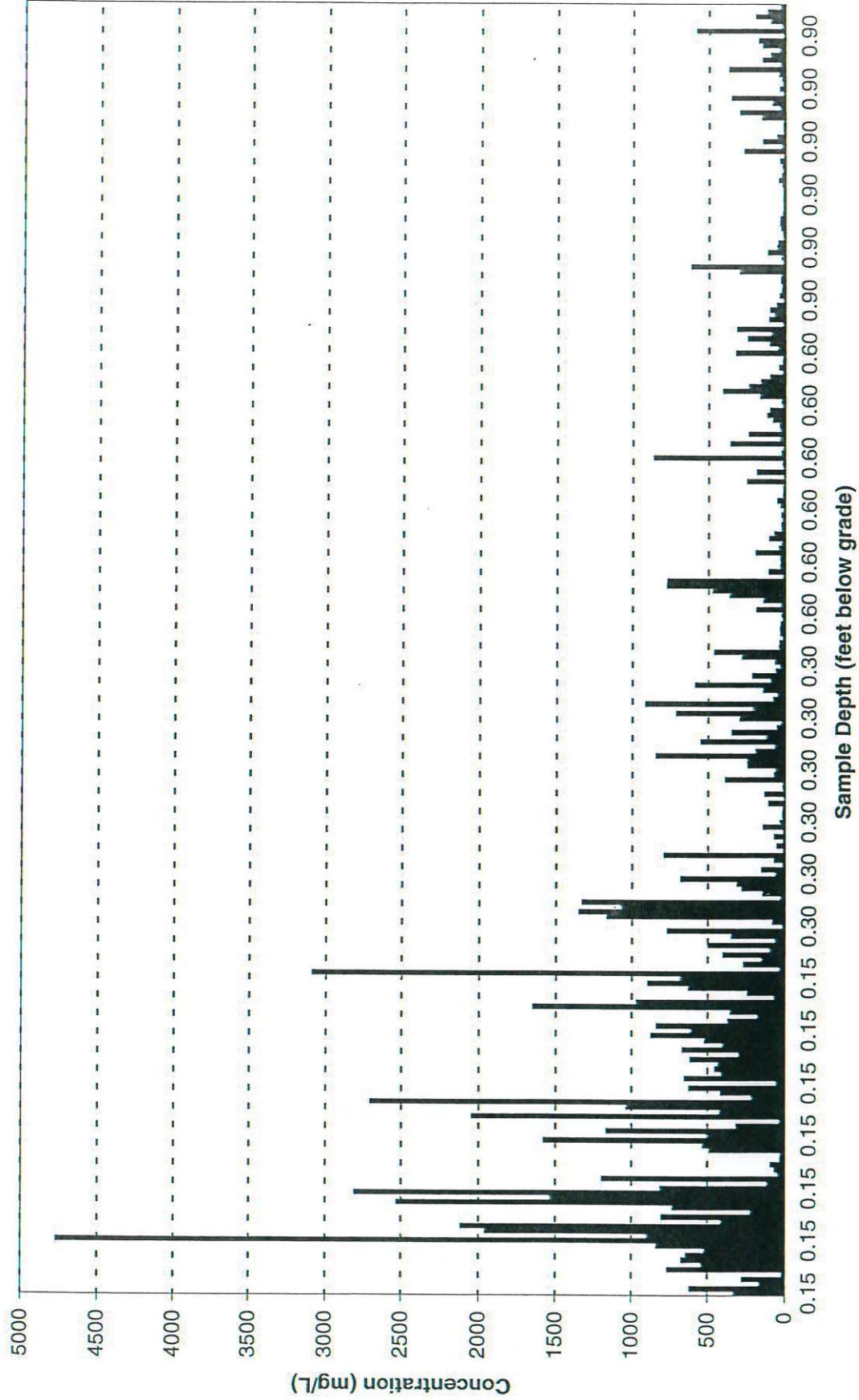


FIGURE 4

Histogram of WET Lead Analytical Results (mg/L)

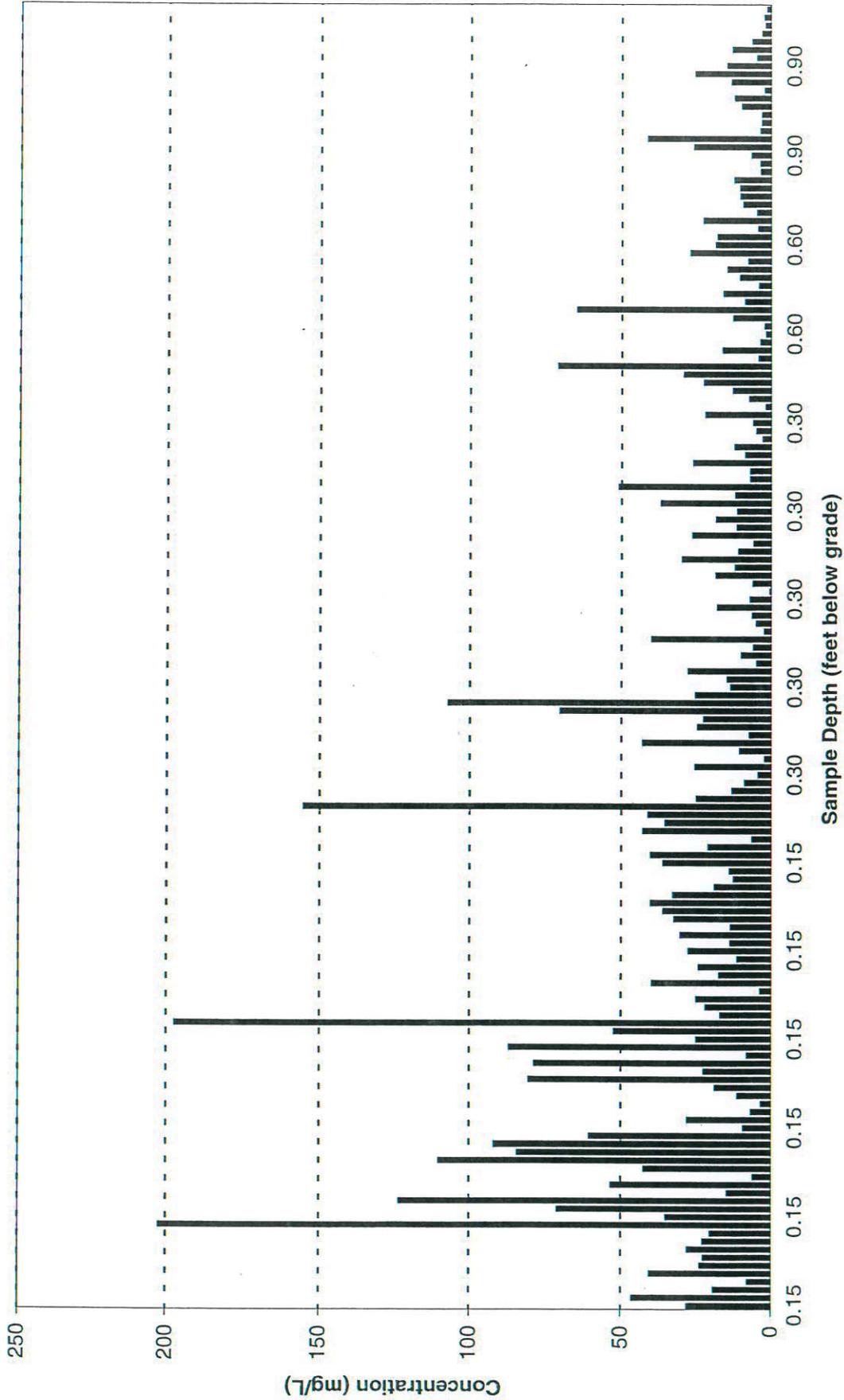


FIGURE 5

APPENDIX A

COPY OF TASK ORDER NO. 07-0535A1-3C

LA-405 KP 66.0 – 68.2 (PM 41.0 –42.4), Lead Site Investigation
Task Order No. 07-0535A1-3C, Statewide Contract No. 43A0012

Description

This Task Order (TO) is for the proposed project at both northbound (NB) and southbound (SB) Route 405 from 0.5 km south of Victory Boulevard to Sherman Way in Los Angeles, County, California (PM 41.0 – 42.4, KP 66.0 – 68.2). This project involves construction of soundwall.

This Task Order shall serve as the Basic Workplan for performing the Lead Site Investigation. A minimum of 2 hours of non-registered professional is included for generally planning for the work.

Introduction

This Task Order (TO) is part of Statewide Contract 43A0012 and all of the provisions contained therein shall apply. The Contractor has two (2) days to evaluate and return the Acceptance/Refusal Document (ARD) (Attachment D) to the Contract Manager. Failure to comply with these terms will result in the withdrawal of the TO from the Contractor. The contractor must return the list of subcontractors they will use and a bid quote for extra work (if any) with the ARD.

Purpose

Site Investigation

The purpose of the Task Order is to conduct Site Investigation to evaluate the subsurface soil for the presence of lead in concentrations that exceed the acceptable regulatory concentrations. This Site Investigation (SI) is on an estimated 1.4 miles of the northbound and southbound I-405 extending from 0.5 km south of Victory Blvd to Sherman Way. The soil adjacent to the freeway is suspected of being contaminated with Aerially Deposited Lead (ADL) believed to be from automobile emission. The information obtained from the analytical results of the soil samples will be used to determine the impact of the ADL on soil, and applicability the Department of Toxic Substances Control (DTSC) variance for the re-use of soil on-site. In addition, the SI will assist in identifying the concentrations of lead that might pose a threat to worker's health and safety.

Scope and Description of Work

In general the scope of work shall consists of the following activities:

1. Hand augering the soil boring at the depths and location specified herein.
2. Collection of soil samples at the location and depths specified in this Task Order.
3. Analyzed the soil samples collected.
4. Preparation of report documenting the field investigation activities, the laboratory analytical results, potential impacts at the project site. The report shall include the EA number 07-0535A1-JP

The Contractor shall perform the following services under this task order:

- A. Attend a pre-work task order meeting and site visit for orientation.
- B. Provide a Health and Safety Plan.
- C. Site Investigation
 1. The soil borings will be terminated at a maximum depth of 0.9m (3 feet) below ground surface.

2. The soil samples shall be collected as follows:

northbound every 30.5m (100 feet)
southbound every 61.0m (200 feet)

3. Soil borings and soil samples shall be collected in the area where the soundwall will be constructed. (See typical cross section for each soundwall station to determine the location in reference to the edge of shoulder or edge of traveled way). The soil samples shall be collected at the following depth.

0.15m (6 inches)
0.30m (1 foot)
0.60m (2 feet)
0.90m (3 feet)

4. A total of **152 soil samples** shall be collected at the northbound location *from 38 hand augered boreholes* at each depth specified above.
5. A total of **120 soil samples** shall be collected at the southbound location *from 30 hand augered boreholes* at each depth specified above.
6. The soil sampling shall be subdivided into Northbound and Southbound sections. See attached plan for station locations.

Northbound

a. **Soundwall 35 (KP 66.6/66.8)**

Total length	= 200 meters (656 feet)
Total boreholes every 150 ft (45 m)	= 6 boreholes
No. of samples at this location	= 24 samples

b. **Soundwall 39 (KP 66.9/67.3)**

Total length	= 400 meters (1312 feet)
Total boreholes every 150 ft (45 m)	= 13 boreholes
No. of samples at this location	= 52 samples

c. **Soundwall 45 (KP67.4/68)**

Total length	= 600 meters (1969 feet)
Total boreholes every 150 ft (45 m)	= 19 boreholes
No. of samples at this location	= 76 samples

Southbound

a. **Soundwall 30 (KP 66.0/66.3)**

Total length	= 300 meters (984 feet)
Total boreholes every 150 ft (45 m)	= 5 boreholes
No. of samples at this location	= 20 samples

b. **Soundwall 32 – 34A (KP 66.4/66.6)**

Total length	= 200 meters (656 feet)
Total boreholes every 150 ft (45 m)	= 3 boreholes
No. of samples at this location	= 12 samples

c. **Soundwall 38 (KP66.6.4/67.3)**

Total length	= 700 meters (2296 feet)
Total boreholes every 150 ft (45 m)	= 11 boreholes
No. of samples at this location	= 44 samples

d. Soundwall 46 (KP67.4./68.1)

Total length	= 700 meters (2296 feet)
Total boreholes every 150 ft (45 m)	= 11 boreholes
No. of samples at this location	= 44 samples

D. Quality Control

- Decontamination between samples shall be performed in accordance to Special Provision 7 of the contract. Proper decontamination procedures must be followed to prevent foreign contamination of the samples and cross contamination between sampling site.
- The analytical data report shall include all the information outlined in page 43-44 of the Statewide Contract 43A0012.
- Measures shall be taken to prevent any liquids from entering the storm drains or escaping the right of way. These requirements are necessary to meet the specifications in the State Wide Storm Water Permit. Decontamination water shall be properly containerized and disposed offsite.

All cuttings shall be returned to their corresponding borehole.

- All Quality Assurance/Quality Control (QA/QC) shall be performed in accordance with pages 31 – 32 of the Statewide Contract 43A0012.

E. Chemical Analysis

- The soil samples shall be analyzed for total metal concentration using EPA Method 6010. When the total lead concentration (TTLC) is greater than 50 mg/kg, the laboratory shall proceed with the California Waste Extraction (WET) test, using EPA Method 7000 series.

If the STLC using the CA-WET is greater than 5 mg/l, the laboratory shall proceed with CA-DI-WET test to determine the applicability of the DTSC variance or samples that meet these criteria.

- For soil samples with TTLC less than 50 mg/kg, WET analysis will not be necessary.
- 10% of the samples shall be analyzed for Soil pH using EPA Method 9045.

F. Reporting

- Submit the results of the laboratory tests on soil samples with recommended alternatives for depositing or removing the excavated soil in accordance with DTSC Variance granted to Caltrans in Draft form. The anticipated limit for total lead is 350 ppm.
- The final report shall have a full description of the site including: location, schematic diagram at the scale 1" = 100' and cross-sections with locations of the borings.
- The report shall include a Data Evaluation and Discussion. Include all the required information outlined in page 39-40, item 1-7 of the Statewide Contract No. 43A0012.

- d. Compensation for the Site Investigation Report will be paid as a percentage of the actual work completed.

G. Statistical Analysis

- a. A statistical analysis shall be provided as follows:
 - i. northbound - a separate analysis using test results at each depth (surface, 1-ft, 2-ft, 3-ft)
 - ii. northbound - an analysis using all test results for all depths
 - iii. southbound - a separate analysis using test results at each depth (surface, 1-ft, 2-ft, 3-ft)
 - iv. southbound - an analysis using all test results for all depths
 - v. combined northbound and southbound- a separate analysis using test results for each depth (surface, 1 ft, 2 ft, 3 ft)
 - vi. combined northbound and southbound - an analysis using all test results for all depths
- b. Please provide a plot of the histograms of the observed contaminant concentrations and perform a statistical test of normal and lognormal distribution.
- c. The statistical analysis shall be evaluated for 80% and 95% confidence level.
- d. The laboratory shall compare the solubility tests versus the total lead results for sample test using a regression analysis. If the co-relation is less than 0.8, the samples shall be run for re-analysis.
- e. The recommendation and conclusion shall be based on the results of analysis statistical analysis of the entire site. The Contractor shall review and utilize the applicable provisions of the Caltrans Variance for Reuse of Soils containing Aerially Deposited Lead in Highway Construction for this project. Please note the DTSC variance is still in draft form as noted in Item E (a) above.
- f. Provide a calculation for the estimated volume of contaminated soil that needs to be removed from the site based on the statistical analysis and DTSC variance requirements.

Field Protocols

Site Investigation Workplan shall follow the provisions of the State Wide Contract (43A0012) concerning the location of hand augered holes, equipment, decontamination, temporary storage, delivery, chain of custody, and quality assurance/quality control.

Completion Schedule

The TO shall be completed in accordance with the Completion Schedule (Attachment C) that has been agreed to and signed by the Contractor, but not before the Notice To Proceed (Attachment E) is issued by the Contract Manager.

Estimated Cost of the Scope of Work

The estimated cost for this TO has been developed for accounting and budget purposes only. All authorized items of work are shown on the attached document. The Contractor shall only be paid for actual services performed. The total estimated cost is the maximum amount to be paid under this TO, unless the Contract Manager approves a supplement or additional work in writing. Any approved Extra Work shall be paid in accordance Contract 43A0012, if such work is not included in the bid items.

SA43A0012 - Site Investigation Services BCS - South Region							ver 4.7.2
Task Order Number: 07-0535A1-3C							7/7/00 16:40
Project Name: Lead Site Investigation							0.256762377
Enter SI-Extra Work (w/10% mark-up) here -->							
SITE INVESTIGATION							
Enter "Y" if SI report costs paid as a % of actual work (Items 7-38, 41-76, and 83-139); "N" if report costs based on hours under Items 40-46. If no SI work items, enter "N".							Alisto
Item	SI BID ITEMS	Unit	Quantity	Normal	24-hr	48-hr	Price
<i>Workplan Development</i>							
4	Basic Workplan	hr					\$ -
5	Detailed Workplan	hr					\$ -
6	Health and Safety Plan	hr	4				\$ 200.00
<i>Drilling</i>							
7	Hollow Stem Auger Mob/Demob	loc					\$ -
8	Cone Penetrometer (CP) Mob/Demob	loc				SI	\$ -
9	Direct Push Mob/Demob	loc					\$ -
10	Re-mob between locs (all rigs)	loc					\$ -
11	Hollow Stem Auger (HSA) Drilling 0-100 ft	ft					\$ -
12	HSA: Drilling 100 ft+	ft					\$ -
13	HSA: Continuous sampling/coring for logging purposes	ft					\$ -
14	Emplacement of HSA driven bailer	smpl					\$ -
15	Emplacement of CP driven bailer 0-50 ft	ft					\$ -
16	Emplacement of CP driven bailer 50-100 ft	ft					\$ -
17	Direct Push Drilling 0-50 ft	ft					\$ -
18	Emplacement of direct push driven bailer 0-50 ft	smpl					\$ -
<i>Monitoring Well Installation</i>							
19	Complete well 0-100 ft	ft					\$ -
20	Complete well 100+ ft	ft					\$ -
21	Develop well 0-100 ft	hr					\$ -
22	Develop well 100+ ft	hr					\$ -
23	Temporary Well	ft					\$ -
24	Sample well 0-100 ft	smpl					\$ -
25	Sample well 100+ ft	smpl					\$ -
26	Water level measurement	well				SI	\$ -
27	Destroy monitoring well	ft					\$ -
<i>Well Construction Equipment</i>							
28	Flush joint 1" PVC casing (including screen)	ft					\$ -
29	Flush joint 2" PVC casing (including screen)	ft					\$ -
30	Flush joint 4" PVC casing (including screen)	ft					\$ -
31	Well centralizers	item					\$ -
32	Metal, flush-mount, traffic-resistant locking well cover	item					\$ -
33	Monument-type well cover	item					\$ -
<i>Monitoring Well Sampling</i>							
34	Monitoring Well Sampling mob/demob	loc					\$ -
<i>Hand Augering</i>							
35	Hand Auger mob/demob	loc	1				\$ 175.00
36	Hand Auger remob	loc					\$ -
37	Hand-held auger	ft	204				\$ 1,632.00
38	Hand-held power auger	ft					\$ -
<i>Reports</i>							
39	Site Investigation Report	%					\$ 1,333.64
40	Remedial Actions Opt. Report	hr					\$ -
<i>General Personnel</i>							
41	Registered Geologist or Certified Engineering Geologist	hr				SI	\$ -
42	Non-registered professional	hr	2				\$ 90.00
43	Certified Industrial Hygienist	hr					\$ -
44	Technician/Drafting	hr					\$ -
45	Task Order Meeting	hr	4				\$ 400.00
46	Regulatory Hearing/Meeting	hr					\$ -
<i>General Services/Equipment and Materials</i>							
47	Organic vapor analyzer (Flame Ionization Detector - FID)	day					\$ -

SA43A0012 - Site Investigation Services BCS - South Region							var 4.7.2	
Task Order Number: 07-0535A1-3C							7/7/00 15:40	
Project Name							0256762377	
Lead Site Investigation						Enter SI Extra Work (w/10% mark-up) here		
SITE INVESTIGATION								
Enter "Y" if SI report costs paid as a % of actual work (Items 7-38, 41-76, and 83-139); "N" if report costs based on hours under Items 40-46. If no SI work items, enter "N".							Alisto 1	
Item	SI BID ITEMS	Unit	Quantity	Normal	24-hr	48-hr	Price	
48	Hnu meter (Photo Ionization Detector - PID)	day					\$ -	
49	New 55-gallon drums (new DOT #17H)	drm					\$ -	
50	Recondition/decontaminated 55-gallon drums	drm	1				\$ 38.50	
52	Level C protection (per crew of four persons)	hr					\$ -	
53	Temporary chain link fencing (installation and removal)	ft					\$ -	
54	Cut/Repair borehole	bor					\$ -	
55	Soil sampling	smpl	272				\$ 1,768.00	
58	Water sample from undeveloped HSA boring	smpl					\$ -	
57	Surface water sample: Trench, ditch and stream samples	smpl					\$ -	
Traffic Control								
58	Traffic Control Mob/Demob	loc	1				\$ 200.00	
59	Shoulder closure for each additional mile	mile	2			SI	\$ 200.00	
60	Conventional hwy Mobile Work SP for 10+ minutes	loc					\$ -	
Soil Gas Survey								
61	Soil Gas Mob/demob	loc					\$ -	
62	Soil Gas daily rate	day					\$ -	
63	Cutting/patching A/C for probe placement/removal	bor					\$ -	
Surface Geophysical Investigations								
64	Geophysics Mob/demob	loc					\$ -	
65	Ground penetrating radar (GPR)	hr					\$ -	
66	Magnetometry	hr					\$ -	
Mobile Laboratory								
67	Mobile lab Mob/demob	loc					\$ -	
68	Mobile lab daily rate	day					\$ -	
69	Mobile lab TPH as Gasoline: LUFT Modified EPA 8015	test					\$ -	
70	Mobile lab TPH as Diesel: LUFT Modified EPA 8015	test					\$ -	
71	Mobile lab BTEX: EPA 8020	test					\$ -	
72	Mobile lab Volatile Organics: EPA 8010	test					\$ -	
Trenching								
73	Trenching Mob/demob	loc					\$ -	
74	Unshored trench and trench backfilling	day					\$ -	
75	Imported clean material for backfilling	yd3					\$ -	
76	Surface restoration	ton				SI	\$ -	
				Total Smpls	Normal	24-hr	48-hr	Price
Scans								
83	Elements Scan: ICAP	test	0				\$ -	
Waste Extraction Test (WET) 22CCR867000								
84	WET: Extract EPA 3050	test	272			272	\$ 8,262.00	
85	WET: EPA 7000	test	272			272	\$ 2,295.00	
86	WET: EPA 200 (Flame AA)	test	0				\$ -	
87	WET: EPA 8000 (GC only)	test	0				\$ -	
88	WET: EPA 8000 (GC/MS)	test	0				\$ -	
Toxicity Characteristic Leaching Procedure EPA 1311								
89	TCLP: Inorganic element analysis - Extract	extr	0				\$ -	
90	TCLP: Inorganic element analysis - Test	test	0				\$ -	
91	TCLP: Volatile organic compounds EPA 8260 - Extract	extr	0				\$ -	
92	TCLP: Volatile organic compounds EPA 8260 - Test	test	0				\$ -	
93	TCLP: Semivolatile organic compounds EPA 8270C - Extract	extr	0				\$ -	
94	TCLP: Semivolatile organic compounds EPA 8270C - Test	test	0				\$ -	
95	TCLP: Organochlorine pesticides & PCB's EPA 8081 - Extract	extr	0				\$ -	
96	TCLP: Organochlorine pesticides & PCB's EPA 8081 - Test	test	0				\$ -	
Organic Compound Analyses								
97	Oil and Grease EPA 1664	test	0				\$ -	

SA43A0012 - Site Investigation Services BCS - South Region							ver 4.7.2
Task Order Number: 07-0535A1-3C							7/7/00 15:40
Project Name: Lead Site Investigation							0.258762377
Enter SI Extra Work (w/10% mark-up) here ->							
SITE INVESTIGATION							
Enter "Y" if SI report costs paid as a % of actual work (Items 7-38, 41-76, and 83-139); "N" if report costs based on hours under Items 40-46. If no SI work items, enter "N".							Alisto 1 ▾
Item	SI BID ITEMS	Unit	Quantity	Normal	24-hr	48-hr	Price
98	TPH-Gasoline Modified EPA 8015	test	0				\$ -
99	Gasoline Analysis Package-Gasoline EPA 8015	test	0				\$ -
100	TPH-Diesel Modified EPA 8015	test	0				\$ -
101	TPH Oil: Modified EPA 8015	test	0				\$ -
102	Organolead: per LUFT Field Manual May 1988	test	0				\$ -
103	Non-Halogenated Volatile Organics EPA 8015	test	0				\$ -
104	Aromatic and Halogenated Volatile Organics EPA 8021B	test	0				\$ -
105	Phenols EPA 8041	test	0				\$ -
106	Organochlorine Pesticides EPA 8081	test	0				\$ -
107	Polynuclear Aromatic Hydrocarbons EPA 8100	test	0				\$ -
108	Chlorinated Hydrocarbons EPA 8121	test	0				\$ -
109	Organophosphorus Pesticides EPA 8141A	test	0				\$ -
110	Chlorinated Herbicides EPA 8151A	test	0				\$ -
111	GC/MS for Volatile Organic EPA 8260B	test	0				\$ -
112	GC/MS for Fuel Oxygenate Compounds EPA 8260B	test	0				\$ -
113	GC/MS for Semivolatile Organics EPA 8270C	test	0				\$ -
114	Polychlorinated Dibenzo-p-dioxins and Dibenofurans EPA 8280	test	0				\$ -
<i>Inorganic Compound Analyses</i>							
115	ICAP any single element: EPA 8010	test	272			272	\$ 2,142.00
116	Atomic Absorption EPA 7000 series: all except lead	test	0				\$ -
117	Atomic Absorption EPA 7000 series: lead only	test	0				\$ -
118	Cr, Hexavalent by EPA 7195, w/analysis by EPA 7190	test	0				\$ -
<i>Misc Test Methods</i>							
119	Polarized Light Microscopy (PLM)	test	0				\$ -
120	Phased Contrast Microscopy (PCM)	test	0				\$ -
121	Transmission Electron Microscopy (TEM)	test	0				\$ -
122	Filtration for dissolved constituents (0.45 m) SM 302A	test	0				\$ -
123	Total and Amenable Cyanide EPA 9010B	test	0				\$ -
124	Chloride (titrimetric mercuric nitrate) EPA 9253	test	0				\$ -
125	Ethylene Glycol	test	0				\$ -
126	pH Electrometric Measurement EPA 9040	test	0				\$ -
127	Soil pH EPA 9045	test	27			27	\$ 194.40
128	Specific Conductance EPA 9050	test	0				\$ -
129	Temperature (field measurement)	test	0				\$ -
130	Conductivity (field measurement)	test	0				\$ -
131	pH (field measurement)	test	0				\$ -
132	Fish Bioassay (22CCR66696(A)(4))	test	0				\$ -
133	Salinity SM 2520	test	0				\$ -
<i>Physical Tests for RBCA Analysis</i>							
134	Total Dissolved Solids (TDS) EPA 160.1 or SM 209B	test	0				\$ -
135	Total Org. Carbon (Wolky-Black Method)	test	0				\$ -
136	Moisture Content ASTM 2216	test	0				\$ -
137	Porosity (includes tests needed to calculate porosity)	test	0				\$ -
138	Seive Analysis of Fine & Coarse Aggregates (ASTM C136-92)	test	0				\$ -
139	Unit Weight (Bulk Density D698-91)	test	0				\$ -

Print this sheet and attach a copy to the Task Order Control Sheet

Total Cost \$ 18,930.54

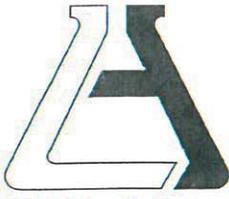
APPENDIX B

**FIELD PROCEDURES FOR CHAIN-OF-CUSTODY DOCUMENTATION, LABORATORY
REPORTS, AND CHAIN-OF-CUSTODY RECORDS**

**FIELD PROCEDURES
FOR
CHAIN-OF-CUSTODY DOCUMENTATION**

Samples collected were handled in accordance with the California Department of Health Services' guidelines. Each sample was labeled in the field, then immediately stored in a cooler with blue or dry ice for transport to a state-certified laboratory for analysis.

The official chain-of-custody record accompanied the samples. It included the site and sample identification, date and time of sample collection, analysis requested, and the name and signature of the sampling technician. When transferring possession of the samples, the transferee signed and dated the chain-of-custody record.



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Alisto Engineering Group (8946)
ATTN: Chris Reinheimer
3732 Mt. Diablo Boulevard
Suite 270
Lafayette, CA 94549

LAB REQUEST 56210

REPORTED 07/31/2000

RECEIVED 07/14/2000

PROJECT #10-515-01
CalTrans District 7
Task Order 07-535A1

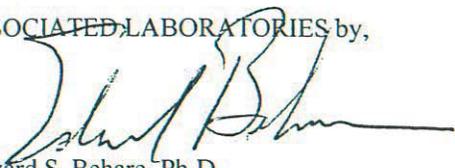
SUBMITTER Client

COMMENTS Route 405; Victory Boulevard to Sherman Way, L.A.

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.

<u>Order No.</u>	<u>Client Sample Identification</u>
198323	35+00 @ 0.15
198324	35+00 @ 0.30
198325	35+00 @ 0.60 ✓
198326	35+00 @ 0.90
198327	35+100 @ 0.15
198328	35+100 @ 0.30 ✓
198329	35+100 @ 0.60
198330	35+100 @ 0.90
198331	35+200 @ 0.15 ✓
198332	35+200 @ 0.30

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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT Alisto Engineering Group (8946)
ATTN: Chris Reinheimer
3732 Mt. Diablo Boulevard
Suite270
Lafayette, CA 94549

LAB REQUEST 56210

REPORTED 07/31/2000

RECEIVED 07/14/2000

PROJECT #10-515-01
CalTrans District 7
Task Order 07-535A1

SUBMITTER Client

COMMENTS Route 405; Victory Boulevard to Sherman Way, L.A.

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.

<u>Order No.</u>	<u>Client Sample Identification</u>
198333	35+200 @ 0.60 ✓
198334	35+200 @ 0.90 ✓
198335	35+300 @ 0.15
198336	35+300 @ 0.30 ✓
198337	35+300 @ 0.60
198338	35+300 @ 0.90
198339	35+400 @ 0.15
198340	35+400 @ 0.30 ✓
198341	35+400 @ 0.60 ✓
198342	35+400 @ 0.90
198343	35+500 @ 0.15
198344	35+500 @ 0.30 ✓
198345	35+500 @ 0.60 ✓
198346	35+500 @ 0.90
198347	39+1000 @ 0.15
198348	39+1000 @ 0.30 ✓
198349	39+1000 @ 0.60 ✓
198350	39+1000 @ 0.90

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

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT Alisto Engineering Group (8946)
ATTN: Chris Reinheimer
3732 Mt. Diablo Boulevard
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Lafayette, CA 94549

LAB REQUEST 56210

REPORTED 07/31/2000

RECEIVED 07/14/2000

PROJECT #10-515-01
CalTrans District 7
Task Order 07-535A1

SUBMITTER Client

COMMENTS Route 405; Victory Boulevard to Sherman Way, L.A.

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.

<u>Order No.</u>	<u>Client Sample Identification</u>
198351	39+1100 @ 0.15
198352	39+1100 @ 0.30
198353	39+1100 @ 0.60
198354	39+1100 @ 0.90
198355	39+1200 @ 0.15
198356	39+1200 @ 0.30
198357	39+1200 @ 0.60
198358	39+1200 @ 0.90
198381	34A+600 @ 0.15
198382	34A+600 @ 0.30
198383	34A+600 @ 0.60
198384	34A+600 @ 0.90

No chain
of custody

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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 198323

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+00 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.381	1	0.005	mg/L	07/28/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	10.9	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	481	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198324

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+00 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010 STLC (16 ICP Metals)					
Lead, STLC	4.42	1	0.05	mg/L	07/28/00 SD
010B ICP Metals - Solid/Liquid					
Lead	134	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198325
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 35+00 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>6010B ICP Metals - Solid/Liquid</u>					
Lead	23.7	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198326

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+00 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

010B ICP Metals - Solid/Liquid

Analyte	Result	DF	DLR	Units	Date/Analyst
Lead	12.5	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198327

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+100 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.888	1	0.005	mg/L	07/28/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	18.6	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	523	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198328

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+100 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	25.9	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198329
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 35+100 @ 0.60

Analyte**Result DF DLR Units Date/Analyst**

6010B ICP Metals - Solid/Liquid

Lead		46.0	10	2.5	mg/Kg	07/20/00	PH
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198330
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 35+100 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	36.5	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 198331

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+200 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	3.01	1	0.05	mg/L	07/28/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	80.1	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	1,570	100	25.0	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198332

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+200 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	8.02	1	0.25	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 198333

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+200 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>6010B ICP Metals - Solid/Liquid</u>					
Lead	9.10	1	0.25	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198334
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 35+200 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	16.5	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 198335
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 35+300 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.345	1	0.005	mg/L	07/28/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	22.3	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	499	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198336
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 35+300 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	9.28	1	0.25	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198337

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+300 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	6.45	1	0.25	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198338

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+300 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	6.51	1	0.25	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes. ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198339

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+400 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	1.95	1	0.05	mg/L	07/28/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	78.3	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	1,160	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198340

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+400 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

010B ICP Metals - Solid/Liquid

Analyte	Result	DF	DLR	Units	Date/Analyst
Lead	5.97	1	0.25	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198341

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+400 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

6010B ICP Metals - Solid/Liquid

Lead

6.20

1

0.25

mg/Kg

07/20/00

PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198342

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+400 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	12.6	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198343
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 35+500 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.178	1	0.005	mg/L	07/28/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	7.61	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	309	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198344

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+500 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.138	1	0.005	mg/L	07/28/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	5.88	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	98.8	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 198345

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+500 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	1.69	1	0.05	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	244	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198346

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 35+500 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
310B ICP Metals - Solid/Liquid					
Lead	29.3	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198347

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+1000 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.597	1	0.05	mg/L	07/28/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	17.2	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	410	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198348
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+1000 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.664	1	0.05	mg/L	07/28/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	10.5	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	182	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 198349

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+1000 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	25.8	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198350
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+1000 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	33.8	1	0.25	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 198351

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+1100 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.612	1	0.05	mg/L	07/28/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	23.9	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	447	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198352

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+1100 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.280	1	0.005	mg/L	07/28/00 SD
010 STLC (16 ICP Metals)					
Lead, STLC	5.33	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	63.2	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198353
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+1100 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	30.7	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 198354

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+1100 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010 STLC (16 ICP Metals)					
Lead, STLC	1.69	1	0.5	mg/L	07/28/00 SD
010B ICP Metals - Solid/Liquid					
Lead	79.8	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198355

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+1200 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.766	1	0.05	mg/L	07/28/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	11.0	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	429	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198356

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+1200 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.839	1	0.05	mg/L	07/28/00 SD
010 STLC (16 ICP Metals)					
Lead, STLC	25.9	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	538	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198357
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+1200 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	3.52	1	0.05	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	74.5	1	0.25	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198358

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+1200 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	1.09	1	0.05	mg/L	07/28/00 SD
010 STLC (16 ICP Metals)					
Lead, STLC	13.0	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	347	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

Order #: 198381

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 34A+600 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.653	1	0.005	mg/L	07/28/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	22.4	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	664	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198382

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 34A+600 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.562	1	0.05	mg/L	07/28/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	10.1	1	0.5	mg/L	07/28/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	341	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198383
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 34A+600 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	15.4	10	2.5	mg/Kg	07/20/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198384
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 34A+600 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
110B ICP Metals - Solid/Liquid					
Lead	31.8	10	2.5	mg/Kg	07/20/00 PH

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: LR 56210 - 198335

Matrix: SOLID

Prep. Date: 07/18/00

Analysis Date: 07/20/00

Lab ID#'s in Batch: LR 56210

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	6010	499		19.8	499	502	NC	NC	0.6
Lead	6010	481		19.6	507	504	NC	NC	0.6

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

QC Code # : H071800S034

Prep. Meth 3050

LCS Source(s) QC21-LOT#QC2184/4;QC7-LOT7A84/1

Wt./Vol : 1ml/100ml

Lab Control Sample (LCS)

							Method Blank	
TEST	Method	Result	TRUE	% Rec	L.Limit	H.Limit	PB	ND
Lead	6010	204.7	200	102.4	80%	120%	5	U
Lead	6010	204.8	200	102.4	80%	120%	5	U

Notes : RESULT = Sample Result; TRUE = True Value; % Rec = 100*Result/True

L.Limit / H. Limit = Low / High Control Limits

PB = Preparation Blank; ND = "U" for Non-Detected

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 56210 - 198327
 Matrix: TCLP
 Prep. Date: 07/27/00
 Analysis Date: 07/27/00
 Lab ID#'s in Batch: LR 56210

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	6010	0.889		0.2	1.1	1.1	NC	NC	0.0

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

QC Code # : H072700TCLP1 Prep. Meth 3050

LCS Source(s) : QC21-LOT#QC2/91/1;QC7-LOT7A92/1 Wt./Vol : 0.5ml/25ml

Lab Control Sample (LCS)

TEST	Method	Result	TRUE	% Rec	L.Limit	H.Limit	Method Blank	
							PB	ND
Lead	6010	1.842	2	92.1	80 %	120 %	0.05	U

Notes : RESULT = Sample Result; TRUE = True Value; % Rec = 100*Result/True
 L.Limit : H. Limit = Low : High Control Limits
 PB = Preparation Blank; ND = "U" for Non-Detected

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 56210 - 198382

Matrix: STLC

Prep. Date: 07/28/00

Analysis Date: 07/28/00

Lab ID#'s in Batch: LR 56210

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	6010	5.33		2	7.42	7.19	104.5	93.0	3.1

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

26210

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project Information: Project No: 10-515-01 Project Title: Caltrans District 7; Task Order 07-535A1 Location: Route 405; Victory Boulevard to Sherman Way, L.A., California Sampler's Name: Chris Reinheimer/Phil Cherry (print) Sampler's Signature:	Report To: Consultant: Alisto Engineering Address: 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Consultant: Alisto Engineering Address: Same	Samples Submitted To: Laboratory: Associated Laboratories Address: 806 North Batavia Orange, California 92868 Contact: Danielle Roberts Phone: (714) 771-6900 Fax: (714) 538-1209 Date Results Required: Date Report Required:																																																																																																																																																
TURN AROUND TIME RUSH <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> Standard (10-14 days) <input type="checkbox"/>	ANALYSIS																																																																																																																																																	
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Sample ID.</th> <th style="width: 15%;">Date</th> <th style="width: 15%;"># Containers</th> <th style="width: 15%;">Matrix</th> <th style="width: 35%;">Lead (EPA 6010) ICAP</th> <th style="width: 10%;">Lead (WET) TLC</th> <th style="width: 10%;">Lead (WET) D.L. STLC</th> <th style="width: 10%;">Soil pH (EPA 9045)</th> <th style="width: 10%;">ANALYSIS</th> <th style="width: 10%;">Container / Preservative</th> <th style="width: 10%;">COMMENTS</th> </tr> </thead> <tbody> <tr> <td>357300 E.O.15</td> <td>7/12/08</td> <td>1</td> <td>SOIL</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>357300 E.O.30</td> <td></td> <td></td> <td>SOIL</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>357300 E.O.60</td> <td></td> <td></td> <td>SOIL</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>357300 E.O.90</td> <td></td> <td></td> <td>SOIL</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>357400 E.O.15</td> <td></td> <td></td> <td>SOIL</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>357400 E.O.30</td> <td></td> <td></td> <td>SOIL</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>357400 E.O.60</td> <td></td> <td></td> <td>SOIL</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>357400 E.O.90</td> <td></td> <td></td> <td>SOIL</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>357500 E.O.15</td> <td></td> <td></td> <td>SOIL</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>357500 E.O.30</td> <td></td> <td></td> <td>SOIL</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>357500 E.O.60</td> <td></td> <td></td> <td>SOIL</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>357500 E.O.90</td> <td></td> <td></td> <td>SOIL</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Sample ID.	Date	# Containers	Matrix	Lead (EPA 6010) ICAP	Lead (WET) TLC	Lead (WET) D.L. STLC	Soil pH (EPA 9045)	ANALYSIS	Container / Preservative	COMMENTS	357300 E.O.15	7/12/08	1	SOIL	X							357300 E.O.30			SOIL	X							357300 E.O.60			SOIL	X							357300 E.O.90			SOIL	X							357400 E.O.15			SOIL	X							357400 E.O.30			SOIL	X							357400 E.O.60			SOIL	X							357400 E.O.90			SOIL	X							357500 E.O.15			SOIL	X							357500 E.O.30			SOIL	X							357500 E.O.60			SOIL	X							357500 E.O.90			SOIL	X							SPECIAL INSTRUCTIONS: 		
Sample ID.	Date	# Containers	Matrix	Lead (EPA 6010) ICAP	Lead (WET) TLC	Lead (WET) D.L. STLC	Soil pH (EPA 9045)	ANALYSIS	Container / Preservative	COMMENTS																																																																																																																																								
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the 1990s, the number of people with a mental health problem has increased in the UK (Mental Health Act 1983, 1990).

There is a growing awareness of the need to improve the lives of people with mental health problems. The UK Government has set out a strategy for mental health care in the 21st century (Department of Health 1999). The strategy is based on the following principles:

- (i) People with mental health problems should be treated as individuals, with their own needs and wishes.
- (ii) People with mental health problems should be given the opportunity to participate in decisions about their care and treatment.
- (iii) People with mental health problems should be given the opportunity to live in their own homes and communities.

The strategy also states that people with mental health problems should be given the opportunity to live in their own homes and communities.

The strategy also states that people with mental health problems should be given the opportunity to live in their own homes and communities. This is a key principle of the strategy and is reflected in the following objectives:

- (i) To reduce the number of people with mental health problems who are in hospital.
- (ii) To improve the quality of life of people with mental health problems.
- (iii) To improve the effectiveness of mental health services.

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- (iii) To improve the effectiveness of mental health services.



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Alisto Engineering Group (8946)
ATTN: Chris Reinheimer
3732 Mt. Diablo Boulevard
Suite270
Lafayette, CA 94549

LAB REQUEST 56157

REPORTED 07/25/2000

RECEIVED 07/12/2000

PROJECT #10-515-01
CalTrans District 7
Task Order 07-535A1-3C

SUBMITTER Client

COMMENTS Route 405; Victory Boulevard to Sherman Way, LA

* No samples were received.

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.

<u>Order No.</u>	<u>Client Sample Identification</u>
197947	30+00 @ 0.15
197948	30+00 @ 0.30 ✓
197949	30+00 @ 0.60
197950	30+00 @ 0.90
197951	30+200 @ 0.15 ✓
197952	30+200 @ 0.30 ✓
197953	30+200 @ 0.60
197954	30+200 @ 0.90 ✓
197955	30+400 @ 0.15

9

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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

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<u>Order No.</u>	<u>Client Sample Identification</u>
197956	30+400 @ 0.30 ✓
197957	30+400 @ 0.60 ✓
197958	30+400 @ 0.90 ✓
197959	30+600 @ 0.15 ✓
197960	30+600 @ 0.30 ✓
197961	30+600 @ 0.60 ✓
197962	30+600 @ 0.90 ✓
197963	30+800 @ 0.15 ✓
197964	30+800 @ 0.30 ✓
197965	30+800 @ 0.60 ✓
197966	30+800 @ 0.90 ✓
197967	34A+00 @ 0.15 ✓
197968	34A+00 @ 0.30 ✓
197969	34A+00 @ 0.60 ✓
197970	34A+00 @ 0.90 ✓
197971	34A+200 @ 0.15 ✓

(14)
35

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,



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<u>Order No.</u>	<u>Client Sample Identification</u>	
197972	34A+200 @ 0.30	✓
197973	34A+200 @ 0.60	✓
197974	34A+200 @ 0.90	✓
197975	34A+400 @ 0.15	✓
197976	34A+400 @ 0.30	✓
197977	34A+400 @ 0.60	✓
197978	34A+400 @ 0.90	✓
197979	39+00 @ 0.15	✓
197980	39+00 @ 0.30	✓
197981	39+00 @ 0.60	✓
197982	39+00 @ 0.90	✓
197983	39+100 @ 0.15	✓
197984	39+100 @ 0.30	✓
197985	39+100 @ 0.60	✓
197986	39+100 @ 0.90	✓
197987	39+200 @ 0.15	✓

Handwritten notes on the right side of the table:
16
85
51

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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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT Alisto Engineering Group (8946)
ATTN: Chris Reinheimer
3732 Mt. Diablo Boulevard
Suite270
Lafayette, CA 94549

LAB REQUEST 56157

REPORTED 07/25/2000

RECEIVED 07/12/2000

PROJECT #10-515-01
CalTrans-District 7
Task Order 07-535A1-3C

SUBMITTER Client

COMMENTS Route 405; Victory Boulevard to Sherman Way, LA

* No samples were received.

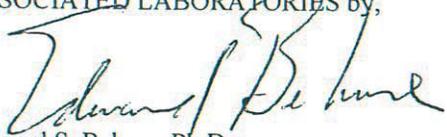
This laboratory request covers the following listed samples which were analyzed for the parameters indicated on the attached Analytical Result Report. All analyses were conducted using the appropriate methods as indicated on the report. This cover letter is an integral part of the final report.

<u>Order No.</u>	<u>Client Sample Identification</u>
197988	39+200 @ 0.30
197989	39+200 @ 0.60 ✓
197990	39+200 @ 0.90
197991	39+300 @ 0.15
197992	39+300 @ 0.30 ✓
197993	39+300 @ 0.60
197994	39+300 @ 0.90
197995	39+400 @ 0.15 ✓
197996	39+400 @ 0.30
197997	39+400 @ 0.60
197998	39+400 @ 0.90
197999	39+500 @ 0.15
198000	39+500 @ 0.30
198001	39+500 @ 0.60 ✓
198002	39+500 @ 0.90
198003	39+600 @ 0.15

16
51
67

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,



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PROJECT #10-515-01
CalTrans District 7
Task Order 07-535A1-3C

SUBMITTER Client

COMMENTS Route 405; Victory Boulevard to Sherman Way, LA

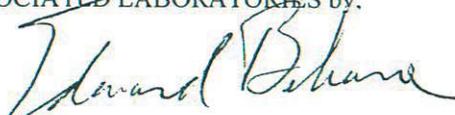
* No samples were received.

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<u>Order No.</u>	<u>Client Sample Identification</u>
198004	39+600 @ 0.30
198005	39+600 @ 0.60
198006	39+600 @ 0.90
198007	39+700 @ 0.15
198008	39+700 @ 0.30
198009	39+700 @ 0.60
198010	39+700 @ 0.90
198011	39+800 @ 0.15
198012	39+800 @ 0.30
198013	39+800 @ 0.60
198014	39+800 @ 0.90
198015	39+900 @ 0.15
198016	39+900 @ 0.30
198017	39+900 @ 0.60
198018	39+900 @ 0.90
198019	46+00 @ 0.15

Handwritten notes: (16), (17), (18) circled; a bracket on the right side of the table with the text "missing cc" written vertically.

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ASSOCIATED LABORATORIES by


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LAB REQUEST 56157

REPORTED 07/25/2000

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PROJECT #10-515-01
CalTrans-District 7
Task Order 07-535A1-3C

SUBMITTER Client

COMMENTS Route 405; Victory Boulevard to Sherman Way, LA

* No samples were received.

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.

<u>Order No.</u>	<u>Client Sample Identification</u>
198020	46+00 @ 0.30
198021	46+00 @ 0.60
198022	46+00 @ 0.90
198023	46+200 @ 0.15
198024	46+200 @ 0.30
198025	46+200 @ 0.60
198026	46+200 @ 0.90
198027	46+400 @ 0.15
198028	46+400 @ 0.30
198029	46+400 @ 0.60
198030	46+400 @ 0.90
198031	46+600 @ 0.15
198032	46+600 @ 0.30
198035	46+600 @ 0.60
198036	46+600 @ 0.90
198037	46+800 @ 0.15

(16)
82
99
MISSING

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ASSOCIATED LABORATORIES by,



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CLIENT Alisto Engineering Group (8946)
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LAB REQUEST 56157

REPORTED 07/25/2000

RECEIVED 07/12/2000

PROJECT #10-515-01
CalTrans-District 7
Task Order 07-535A1-3C

SUBMITTER Client

COMMENTS Route 405; Victory Boulevard to Sherman Way, LA

* No samples were received.

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.
198038
198039
198040
198041
198042
198043
198044

MISSING

Client Sample Identification (7)
46+800 @ 0.30
46+800 @ 0.60
46+800 @ 0.90
46+1000 @ 0.15
46+1000 @ 0.30
46+1000 @ 0.60
46+1000 @ 0.90

59
106
44
150
96
246

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.


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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 197947

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+00 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	1.72	10	0.05	mg/L	07/24/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	27.7	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	327	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197948

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+00 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	33.2	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197949

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+00 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	32.5	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 197950

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+00 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	12.3	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197951

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+200 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	2.31	10	0.05	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	46.1	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	609	10	2.5	mg/Kg	07/13/00 MD
9045 pH					
pH	7.11	1		NA	07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197952

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+200 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	1.97	10	0.05	mg/L	07/24/00 MD
010 STLC (16 ICP Metals)					
Lead, STLC	24.7	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	260	10	2.5	mg/Kg	07/13/00 MD
045 pH					
pH	7.53	1	NA		07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197953

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+200 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	27.8	10	2.5	mg/Kg	07/13/00 MD
9045 pH					
pH	7.56	1	NA		07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197954
 Matrix: SOLID
 Date Sampled: 07/12/2000
 Time Sampled:
 Sampled By:

Client: Alisto Engineering Group
 Client Sample ID: 30+200 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.339	1	0.005	mg/L	07/24/00 SD
6010 STLC (16 ICP Metals)					
Lead, STLC	12.0	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	98.1	10	2.5	mg/Kg	07/13/00 MD
045 pH					
pH	7.93	1		NA	07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197955

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+400 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.856	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	19.1	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	161	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197956

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+400 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.674	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	12.8	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	148	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197957
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 30+400 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
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6010B ICP Metals - Solid/Liquid

Lead	7.98	1	0.25	mg/Kg	07/13/00 MD
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197958
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 30+400 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
110 STLC (16 ICP Metals)					
Lead, STLC	2.94	1	0.05	mg/L	07/24/00 SD
110B ICP Metals - Solid/Liquid					
Lead	65.3	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197959
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 30+600 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.630	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	7.47	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	268	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197960

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+600 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.372	1	0.005	mg/L	07/24/00 MD
010 STLC (16 ICP Metals)					
Lead, STLC	8.36	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	396	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197961
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 30+600 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>6010B ICP Metals - Solid/Liquid</u>					
Lead	24.2	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197962

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+600 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010 STLC (16 ICP Metals)</u>					
Lead, STLC	3.09	1	0.05	mg/L	07/24/00 SD
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	90.8	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197963
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 30+800 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	16.9	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197964

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+800 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010 STLC (16 ICP Metals)					
Lead, STLC	3.81	1	0.05	mg/L	07/24/00 SD
010B ICP Metals - Solid/Liquid					
Lead	96.5	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197965

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+800 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	25.8	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197966

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 30+800 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.127	1	0.005	mg/L	07/24/00 MD
010 STLC (16 ICP Metals)					
Lead, STLC	6.13	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	50.7	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197967
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 34A+00 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.477	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	40.1	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	756	10	2.5	µg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197968
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 34A+00 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.307	1	0.005	mg/L	07/24/00 MD
010 STLC (16 ICP Metals)					
Lead, STLC	25.0	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	491	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197969

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 34A+00 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	21.6	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197970

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 34A+00 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1010B ICP Metals - Solid/Liquid					
Lead	5.71	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197971
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 34A+200 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
---------	--------	----	-----	-------	--------------

1311/6010 TCLP (ICP Metals)

Lead TCLP	0.379	1	0.005	mg/L	07/24/00 MD
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6010 STLC (16 ICP Metals)

Lead, STLC	23.5	1	0.05	mg/L	07/24/00 SD
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6010B ICP Metals - Solid/Liquid

Lead	536	10	2.5	mg/Kg	07/13/00 MD
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197972

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 34A+200 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010 STLC (16 ICP Metals)					
Lead, STLC	1.70	1	0.05	mg/L	07/24/00 SD

010B ICP Metals - Solid/Liquid					
Lead	60.9	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197973

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 34A+200 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	8.59	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197974

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 34A+200 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	*	1	0.25	mg/Kg	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197975

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 34A+400 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	*	1	0.25	mg/Kg	
9045 pH					
pH	*	1		NA	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit. DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 197976

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 34A+400 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	*	1	0.25	mg/Kg	
045 pH					
pH	*	1		NA	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197977
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 34A+400 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	*	1	0.25	mg/Kg	
9045 pH					
pH	*	1		NA	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197978

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 34A+400 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	*	1	0.25	mg/Kg	
045 pH					
pH	*	1		NA	

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197979

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+00 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	29.8	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197980

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+00 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	3.84	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197981
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+00 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	4.66	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 197982
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+00 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	4.46	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197983

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+100 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	4.33	10	0.05	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	86.7	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	2,040	100	25.0	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197984

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+100 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.548	1	0.005	mg/L	07/24/00 MD
010 STLC (16 ICP Metals)					
Lead, STLC	17.8	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	123	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197985

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+100 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.105	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	12.4	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	176	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197986

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+100 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010 STLC (16 ICP Metals)					
Lead, STLC	2.50	1	0.05	mg/L	07/24/00 SD
010B ICP Metals - Solid/Liquid					
Lead	262	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197987
 Matrix: SOLID
 Date Sampled: 07/12/2000
 Time Sampled:
 Sampled By:

Client: Alisto Engineering Group
 Client Sample ID: 39+200 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	1.08	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	24.7	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	421	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197988

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+200 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	5.71	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197989

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+200 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	6.73	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197990
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+200 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	20.3	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197991
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+300 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	2.01	10	0.05	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	51.8	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	1,030	10	2.5	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197992
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+300 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	8.80	10	2.5	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197993

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+300 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	10.0	10	2.5	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197994

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+300 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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010 STLC (16 ICP Metals)

Lead, STLC	2.52	1	0.05	mg/L	07/24/00 PH
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010B ICP Metals - Solid/Liquid

Lead	140	10	2.5	mg/Kg	07/13/00 PH
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197995

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+400 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	10.4	10	0.05	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	197	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	2,700	100	25.0	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197996
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+400 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.142	1	0.005	mg/L	07/24/00 MD
010 STLC (16 ICP Metals)					
Lead, STLC	6.59	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	383	10	2.5	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197997
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+400 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	4.17	10	0.05	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	64.4	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	849	10	2.5	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197998
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+400 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	48.2	1	0.25	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197999

Matrix: SOLID

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Client: Alisto Engineering Group

Client Sample ID: 39+500 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.520	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	16.9	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	211	10	2.5	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198000
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+500 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
010 STLC (16 ICP Metals)					
Lead, STLC	0.05	1	0.05	mg/L	07/24/00 PH
010B ICP Metals - Solid/Liquid					
Lead	63.6	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198001

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+500 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	17.4	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198002

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+500 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	6.64	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198003

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+600 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.662	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	21.7	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	412	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198004

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+600 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.091	1	0.005	mg/L	07/24/00 MD
.010 STLC (16 ICP Metals)					
Lead, STLC	5.62	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	52.9	10	2.5	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198005

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+600 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>6010B ICP Metals - Solid/Liquid</u>					
Lead	6.77	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198006

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+600 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
110B ICP Metals - Solid/Liquid					
Lead	5.71	1	0.25	mg/Kg	07/13/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198007
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+700 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	1.06	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	24.7	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	613	10	2.5	mg/Kg	07/15/00 PH
9045 pH					
pH	7.31	1	NA		07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198008

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+700 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.606	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	18.4	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	236	10	2.5	mg/Kg	07/15/00 PH
045 pH					
pH	7.54	1		NA	07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198009
 Matrix: SOLID
 Date Sampled: 07/12/2000
 Time Sampled:
 Sampled By:

Client: Alisto Engineering Group
 Client Sample ID: 39+700 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.216	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	8.43	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	351	10	2.5	mg/Kg	07/15/00 PH
9045 pH					
pH	7.62	1		NA	07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198010
Matrix: SOLID
Date Sampled: 07/12/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 39+700 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
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010B ICP Metals - Solid/Liquid

Lead	8.95	1	0.25	mg/Kg	07/15/00 PH
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>045 pH

pH	7.73	1		NA	07/17/00 GP
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198011

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+800 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	3.15	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	51.4	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198012

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+800 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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311/6010 TCLP (ICP Metals)

Lead TCLP	0.383	1	0.005	mg/L	07/24/00 MD
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6010 STLC (16 ICP Metals)

Lead, STLC	11.8	1	0.05	mg/L	07/24/00 PH
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6010B ICP Metals - Solid/Liquid

Lead	239	10	2.5	mg/Kg	07/15/00 PH
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198013

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+800 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>6010B ICP Metals - Solid/Liquid</u>					
Lead	28.3	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198014

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+800 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.150	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	9.36	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	148	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198015

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+900 @ 0.15

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	3.56	10	0.05	mg/L	07/14/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	39.4	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	643	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198016

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+900 @ 0.30

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.690	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	29.3	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	831	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198017

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+900 @ 0.60

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.220	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	15.8	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	231	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198018

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 39+900 @ 0.90

Date Sampled: 07/12/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.325	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	11.9	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	291	1	0.25	mg/Kg	07/14/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198019

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+00 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	1.68	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	110	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	2,520	100	25.0	mg/Kg	07/14/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198020
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+00 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.625	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	27.3	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	672	10	2.5	mg/Kg	07/14/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198021

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+00 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>6010B ICP Metals - Solid/Liquid</u>					
Lead	26.4	10	2.5	mg/Kg	07/14/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198022

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+00 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	5.89	1	0.25	mg/Kg	07/14/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198023

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+200 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	4.02	10	0.05	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	84.0	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	1,530	100	25.0	mg/Kg	07/14/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198024
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+200 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	4.37	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	57.5	10	2.5	mg/Kg	07/14/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198025
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+200 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.846	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	16.1	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	186	10	2.5	mg/Kg	07/14/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198026

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+200 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	7.41	1	0.25	mg/Kg	07/14/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198027

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+400 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	15.2	10	0.05	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	91.6	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	2,800	100	25.0	mg/Kg	07/14/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198028

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+400 @ 0.30

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.312	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	9.45	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	144	10	2.5	mg/Kg	07/14/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198029
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+400 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>6010B ICP Metals - Solid/Liquid</u>					
Lead	34.2	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198030

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+400 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	21.7	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198031

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+600 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	3.41	10	0.05	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	60.0	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	800	10	2.5	mg/Kg	07/15/00 PH
9045 pH					
pH	7.44	1		NA	07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198032
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+600 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	9.11	1	0.25	mg/Kg	07/15/00 PH
045 pH					
pH	7.84	1		NA	07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198035

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+600 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	18.6	1	0.25	mg/Kg	07/15/00 PH
9045 pH					
pH	7.85	1		NA	07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198036
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+600 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	28.4	1	0.25	mg/Kg	07/15/00 PH
<u>045 pH</u>					
pH	7.94	1		NA	07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198037

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+800 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.346	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	8.89	1	0.05	mg/L	07/24/00 S
6010B ICP Metals - Solid/Liquid					
Lead	110	10	2.5	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198038

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+800 @ 0.30

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.054	1	0.005	mg/L	07/24/00 MD
010 STLC (16 ICP Metals)					
Lead, STLC	5.42	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	63.7	10	2.5	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198039

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+800 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	3.10	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	97.4	10	2.5	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198040

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+800 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	25.2	10	2.5	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198041

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+1000 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.800	1	0.005	mg/L	07/24/00 MD
6010 STLC (16 ICP Metals)					
Lead, STLC	27.6	1	0.05	mg/L	07/24/00 SD
6010B ICP Metals - Solid/Liquid					
Lead	1,190	10	2.5	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198042
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+1000 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.685	1	0.005	mg/L	07/24/00 MD
010 STLC (16 ICP Metals)					
Lead, STLC	39.5	1	0.05	mg/L	07/24/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	781	10	2.5	mg/Kg	07/13/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198043
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+1000 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
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6010 STLC (16 ICP Metals)

Lead, STLC	1.16	1	0.05	mg/L	07/24/00 PH
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6010B ICP Metals - Solid/Liquid

Lead	62.6	10	2.5	mg/Kg	07/13/00 PH
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198044

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+1000 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

010B ICP Metals - Solid/Liquid

Lead	10.9	1	0.25	mg/Kg	07/13/00	PH
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 56157 - 197981
 Matrix: SOLID
 Prep. Date: 07/13/00
 Analysis Date: 07/13/00
 Lab ID#'s in Batch: LR 56157

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	6010	5.89		19.70	27.50	27.50	109.7	109.7	0.0
Lead	6010	5.71		18.60	25.10	25.10	104.2	104.2	0.0
Lead	6010	4.66		18.90	24.40	24.50	104.4	105.0	0.4
Lead	6010	123.00		19.70	149.00	147.00	NC	NC	1.4

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

QC Code # : H071300S01234 Prep. Meth 3050
 LCS Source(s) : QC21-LOT#QC2184/4;QC7-LOT7A84/1 Wt./Vol : 1ml/100ml

Lab Control Sample (LCS)

TEST	Method	Result	TRUE	% Rec	L.Limit	H.Limit	Method Blank	
							PB	ND
Lead	6010	181.9	200	91.0	80%	120%	5	U
Lead	6010	179.2	200	89.6	80%	120%	5	U
Lead	6010	181.9	200	91.0	80%	120%	5	U
Lead	6010	197.5	200	98.8	80%	120%	5	U

Notes : RESULT = Sample Result; TRUE = True Value; % Rec = 100*Result/True

L.Limit H. Limit = Low High Control Limits

PB = Preparation Blank; ND = "U" for Non-Detected

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

Sample: LR 56157 - 197972

Matrix: STLC

Rep. Date: 07/24/00

Analysis Date: 07/24/00

Lab ID#'s in Batch: LR 56157, 55221

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

EST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	1.7		2	3.65	3.65	97.5	97.5	0.0
Lead	6010	11.9		2	13.50	13.60	NC	NC	0.7
Lead	6010	3.2		2.0	5.60	5.50	122.0	117.0	1.8

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

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 56157 - 197962

Matrix: TCLP

Prep. Date: 07/23/00

Analysis Date: 07/23/00

Lab ID#'s in Batch: LR 56157

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	6010	0.052		0.2	0.235	0.235	91.5	91.5	0.0
Lead	6010	0.027		0.2	0.215	0.215	94.0	94.0	0.0
Lead	6010	0.625		0.2	0.829	0.828	102.0	101.5	0.1

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

QC Code #: H072300TCLP12

Prep. Meth 3050

LCS Source(s): QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Wt./Vol: 0.5ml/25ml

Lab Control Sample (LCS)

TEST	Method	Result	TRUE	% Rec	L.Limit	H.Limit	Method Blank	
							PB	ND
Lead	6010	1.885	2	94.3	80 %	120 %	0.005	U
Lead	6010	1.890	2	94.5	80 %	120 %	0.005	U
Lead	6010	1.965	2	98.3	80 %	120 %	0.005	U

Notes: RESULT = Sample Result; TRUE = True Value; % Rec = 100*Result/True

L.Limit H. Limit = Low High Control Limits

PB = Preparation Blank; ND = "U" for Non-Detected

56107

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project No.: 10-515-01 Project Title: Caltrans District 7; Task Order 07-535A1 * 3C Location: Route 405; Victory Boulevard to Sherman Way, L.A., California Sampler's Name: Chris Reinheimer/Phil Cherry (print) Sampler's Signature:	Project Information: Turn Around Time: RUSH <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> Standard (10-14 days) <input type="checkbox"/>	Consultant: Alisto Engineering Address: 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Consultant: Alisto Engineering Address: Same	Report To: Laboratory: Associated Laboratories Address: 806 North Batavia Orange, California 92868 Contact: Danielle Roberts Phone: (714) 771-6900 Fax: (714) 538-1209 Date Results Required: Date Report Required:						
Sample ID. Date # Containers Matrix		ANALYSIS							
30-100 @ 0.15	7/12/00	1	SOIL	Lead (EPA 6010) ICAP	Lead (WET) TLC	Lead (WET) D.L. STLC	Soil pH (EPA 9045)	Container / Preservative	COMMENTS
30-100 @ 0.30			SOIL	X					
30-100 @ 0.60			SOIL	X					
30-100 @ 0.90			SOIL	X					
30-170 @ 0.15			SOIL	X					
30-170 @ 0.30			SOIL	X					
30-170 @ 0.60			SOIL	X					
30-170 @ 0.90			SOIL	X					
30-190 @ 0.15			SOIL	X					
30-190 @ 0.30			SOIL	X					
30-190 @ 0.60			SOIL	X					
30-190 @ 0.90			SOIL	X					
Relinquished By:		Date: 7/12/00	Time: 1:38	Received By:	Date: 7-12-00	Time: 10:45	SPECIAL INSTRUCTIONS:		
Relinquished By:		Date: 7-12-00	Time: 4:42	Received By:	Date: 7-12-00	Time:			
Relinquished By:		Date:	Time:	Received By:	Date:	Time:			

56157

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project Information: Project No: 10-515-01 Project Title: Caltrans District 7; Task Order 07-535A1 ~ 3C Location: Route 405; Victory Boulevard to Sherman Way, L.A., California Sampler's Name: Chris Reinheimer/Phil Cherry Sampler's Signature: <i>Phil Cherry</i>		Report To: Consultant: Alisto Engineering Address: 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Consultant: Alisto Engineering Address: Same		Samples Submitted To: Laboratory: Associated Laboratories Address: 806 North Batavia Orange, California 92868 Contact: Danielle Roberts Phone: (714) 771-6900 Fax: (714) 538-1209 Date Results Required: Date Report Required:					
TURN AROUND TIME RUSH <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> Standard (10-14 days) <input type="checkbox"/>		ANALYSIS							
Sample ID.	Date	# Containers	Matrix	Lead (EPA 6010) ICAP	Lead (WET) TLC	Lead (WET) D.L. STLC	Soil pH (EPA 9045)	Container / Preservative	COMMENTS
34A + 200 @ 0.15	7/12/00	1	SOIL	X					
34A + 200 @ 0.30			SOIL	X					
34A + 200 @ 0.60			SOIL	X					
34A + 200 @ 0.90			SOIL	X					
34A + 400 @ 0.15			SOIL	X					
34A + 400 @ 0.30			SOIL	X					
34A + 400 @ 0.60			SOIL	X					
34A + 400 @ 0.90			SOIL	X					
39 + 00 @ 0.15			SOIL	X					
39 + 00 @ 0.30			SOIL	X					
39 + 00 @ 0.60			SOIL	X					
39 + 00 @ 0.90			SOIL	X					
Relinquished By: <i>[Signature]</i>	Date: 7/12/00	Time: 6:38	Received By: <i>Alonso Jones</i>	Date: 7/22/00	Time: 1:45	SPECIAL INSTRUCTIONS:			
Relinquished By: <i>Alonso Jones</i>	Date: 7-20-00	Time: 4:42	Received By: <i>Alberto Lopez</i>	Date: 7-17-00	Time:				
Relinquished By:	Date:	Time:	Received By:	Date:	Time:				

76151

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project Information: Project No: 10-515-01 Project Title: Calltrans District 7; Task Order 07-535A1 - 30 Location: Route 405; Victory Boulevard to Sherman Way, L.A., California Sampler's Name: Chris Reinheimer/Phil Cherry (print) Sampler's Signature:		Report To: Consultant: Alisto Engineering Address: 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Consultant: Alisto Engineering Address: Same		Samples Submitted To: Laboratory: Associated Laboratories Address: 806 North Batavia Orange, California 92868 Contact: Daniela Roberts Phone: (714) 771-6900 Fax: (714) 538-1209 Date Results Required: Date Report Required:	
TURN AROUND TIME RUSH <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> Standard (10-14 days) <input type="checkbox"/>		ANALYSIS			
Sample ID.	Date	# Containers	Matrix	Lead (EPA 6010) ICAP	Lead (WET) TLCL
39+100 E0.15	7/12/00	1	SOIL	X	Soil pH (EPA 9045)
39+100 E0.30			SOIL	X	Lead (WET) D.L. STLC
39+100 E0.60			SOIL	X	Lead (WET) TLCL
39+100 E0.90			SOIL	X	Lead (EPA 6010) ICAP
39+200 E0.15			SOIL	X	Lead (WET) TLCL
39+200 E0.30			SOIL	X	Lead (WET) D.L. STLC
39+200 E0.60			SOIL	X	Lead (WET) TLCL
39+200 E0.90			SOIL	X	Lead (EPA 6010) ICAP
39+300 E0.15			SOIL	X	Lead (WET) TLCL
39+300 E0.30			SOIL	X	Lead (WET) D.L. STLC
39+300 E0.60			SOIL	X	Lead (WET) TLCL
39+300 E0.90			SOIL	X	Lead (EPA 6010) ICAP
Relinquished By:	Date: 7/12/00	Time: 1:30	Received By:	Date: 7-12-00	Time: 1:45
Relinquished By:	Date: 7-12-00	Time: 4:42	Received By:	Date: 7-12-00	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
			SPECIAL INSTRUCTIONS:		

COMMENTS

Container /
Preservative

526157

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project Information: Project No: 10-515-01 Project Title: Caltrans District 7; Task Order 07-535A1 - 3C Location: Route 405; Victory Boulevard to Sherman Way, L.A., California Sampler's Name: Chris Reinheimer/Phil Cherry (print) Sampler's Signature:	Report To: Consultant: Alisto Engineering Address: 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Consultant: Alisto Engineering Address: Same	Samples Submitted To: Laboratory: Associated Laboratories Address: 806 North Batavia Orange, California 92868 Contact: Daniella Roberts Phone: (714) 771-6900 Fax: (714) 538-1209 Date Results Required: Date Report Required:									
TURN AROUND TIME RUSH <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> Standard (10-14 days) <input type="checkbox"/>	ANALYSIS										
Sample ID. Date # Containers Matrix	Lead (EPA 6010) ICAP	Lead (WET) TLC	Lead (WET) D.L. STLC	Soil pH (EPA 9045)	COMMENTS						
391400 0.15	7/12/00	1	SOIL	X							
391400 0.30		1	SOIL	X							
391400 0.60		1	SOIL	X							
391400 0.90		1	SOIL	X							
391500 0.15		1	SOIL	X							
391500 0.30		1	SOIL	X							
391500 0.60		1	SOIL	X							
391500 0.90		1	SOIL	X							
391600 0.15		1	SOIL	X							
391600 0.30		1	SOIL	X							
391600 0.60		1	SOIL	X							
391600 0.90		1	SOIL	X							
Relinquished By:	Date: 7/12/00	Time: 1:38	Received By:	Date: 7-12-00	Time: 1:45	SPECIAL INSTRUCTIONS:					
Relinquished By:	Date: 7/12/00	Time: 4:42	Received By:	Date: 7-12-00	Time: 7:12:00						
Relinquished By:	Date:	Time:	Received By:	Date:	Time:						

the 1990s, the number of people in the world who are under 15 years of age has increased from 1.1 billion to 1.3 billion. The number of people aged 15 years and over has increased from 3.5 billion to 4.5 billion. The number of people aged 65 years and over has increased from 0.3 billion to 0.5 billion.

There are a number of reasons for the increase in the number of people in the world. One of the main reasons is the increase in the number of people who are surviving to old age. This is due to a number of factors, including improved medical care, better nutrition, and a decline in the number of people who are dying from infectious diseases.

Another reason for the increase in the number of people in the world is the increase in the number of people who are having children. This is due to a number of factors, including a decline in the number of people who are dying from infectious diseases, a decline in the number of people who are having abortions, and a decline in the number of people who are using contraception.

The increase in the number of people in the world has a number of implications. One of the main implications is the increase in the number of people who are dependent on others. This is due to the increase in the number of people who are aged 65 years and over, and the increase in the number of people who are disabled.

Another implication of the increase in the number of people in the world is the increase in the number of people who are living in poverty. This is due to the increase in the number of people who are living in developing countries, and the increase in the number of people who are living in slums.

The increase in the number of people in the world is a challenge for the world. It is a challenge because it is increasing the number of people who are dependent on others, and it is increasing the number of people who are living in poverty. It is a challenge because it is increasing the number of people who are living in developing countries, and it is increasing the number of people who are living in slums.

There are a number of ways in which the world can meet the challenge of the increase in the number of people. One of the main ways is to improve the quality of life for people in developing countries. This can be done by providing better medical care, better nutrition, and better education.

Another way in which the world can meet the challenge of the increase in the number of people is to reduce the number of people who are having children. This can be done by providing better contraception, and by providing better education for women.

The increase in the number of people in the world is a challenge for the world. It is a challenge because it is increasing the number of people who are dependent on others, and it is increasing the number of people who are living in poverty. It is a challenge because it is increasing the number of people who are living in developing countries, and it is increasing the number of people who are living in slums.

There are a number of ways in which the world can meet the challenge of the increase in the number of people. One of the main ways is to improve the quality of life for people in developing countries. This can be done by providing better medical care, better nutrition, and better education.

Another way in which the world can meet the challenge of the increase in the number of people is to reduce the number of people who are having children. This can be done by providing better contraception, and by providing better education for women.

The increase in the number of people in the world is a challenge for the world. It is a challenge because it is increasing the number of people who are dependent on others, and it is increasing the number of people who are living in poverty. It is a challenge because it is increasing the number of people who are living in developing countries, and it is increasing the number of people who are living in slums.



ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Alisto Engineering Group (8946)
ATTN: Chris Reinheimer
3732 Mt. Diablo Boulevard
Suite270
Lafayette, CA 94549

LAB REQUEST 55994

REPORTED 07/20/2000

RECEIVED 07/11/2000

PROJECT #10-514-01
CalTrans District 7
Task Order 07-1X1201

Route 405 and Route 5

SUBMITTER Client

COMMENTS

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.

<u>Order No.</u>	<u>Client Sample Identification</u>
197260	81+30 @ 0.6
197261	81+30 @ 1.35
197262	81+30 @ 2.15
197263	81+40A @ 0
197264	81+40A @ .45
197265	81+40A @ .6
197266	81+40A @ 1.35
197267	81+40A @ 2.15
197268	81+40B @ 0
197269	81+40B @ .45

Route 5

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.

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

CLIENT Alisto Engineering Group (8946)
ATTN: Chris Reinheimer
3732 Mt. Diablo Boulevard
Suite 270
Lafayette, CA 94549

LAB REQUEST 55994

REPORTED 07/20/2000

RECEIVED 07/11/2000

PROJECT #10-514-01
CalTrans District 7
Task Order 07-1X1201

SUBMITTER Client

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<u>Order No.</u>	<u>Client Sample Identification</u>	
197270	81+40B @ .6	40
197271	81+40B @ 1.35	40
197272	81+00 @ 0	40
197273	81+00 @ 0.45	
197274	81+00 @ .6	
197275	81+00 @ 1.35	
197276	81+00 @ 2.15	
197277	81+20 @ 0	
197278	81+20 @ .45	
197279	81+20 @ .6	
197280	81+20 @ 1.35	
197281	81+20 @ 2.15	
197282	81+30 @ 0	
197283	81+30 @ .45	
197284	38+00 @ .15	④
197285	38+00 @ .3	✓
197286	38+00 @ .6	
197287	38+00 @ .9	

Route 5 (bracketed next to 197270-197283)
Route 4105 (bracketed next to 197284-197287)

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,



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(8946)

LAB REQUEST 55994

REPORTED 07/20/2000

RECEIVED 07/11/2000

PROJECT #10-514-01
CalTrans District 7
Task Order 07-1X1201

SUBMITTER Client

COMMENTS

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Order No.	Client Sample Identification
197288	38+200 @ .15
197289	38+200 @ .3 ✓
197290	38+200 @ .6 ✓
197291	38+200 @ .9
197292	38+400 @ .15
197293	38+400 @ .3 ✓
197294	38+400 @ .6 ✓
197295	38+400 @ .9
197296	38+600 @ .15
197297	38+600 @ .3 ✓
197298	38+600 @ .6 ✓
197299	38+600 @ .9
197300	38+800 @ .15
197301	38+800 @ .3 ✓
197302	38+800 @ .6 ✓
197303	38+800 @ .9 ✓
197304	38+1000 @ .15 ✓
197305	38+1000 @ .3

Route 405 (handwritten bracket on left side of table)

18 (circled handwritten number in top right of table)

*32
18
20* (handwritten numbers on far right margin)

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,



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3732 Mt. Diablo Boulevard
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Lafayette, CA 94549

LAB REQUEST 55994

REPORTED 07/20/2000

RECEIVED 07/11/2000

PROJECT #10-514-01
CalTrans District 7
Task Order 07-1X1201

SUBMITTER Client

COMMENTS

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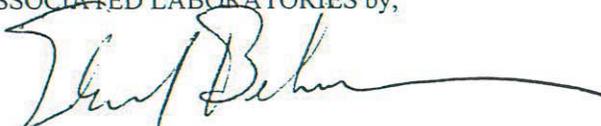
<u>Order No.</u>	<u>Client Sample Identification</u>
197306	38+1000 @ .6 ✓
197307	38+1000 @ .9 ✓
197308	38+1200 @ .15 ✓
197309	38+1200 @ .3 ✓
197310	38+1200 @ .6 ✓
197311	38+1200 @ .9 ✓
197312	38+1400 @ .15 ✓
197313	38+1400 @ .3 ✓
197314	38+1400 @ .6 ✓
197315	38+1400 @ .9 ✓
197316	38+1600 @ .15 ✓
197317	38+1600 @ .3 ✓
197318	38+1600 @ .6 ✓
197319	38+1600 @ .9 ✓
197320	38+1800 @ .15 ✓
197321	38+1800 @ .3 ✓
197322	38+1800 @ .6 ✓
197323	38+1800 @ .9 ✓

Route 405

(18)

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,


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Vice President

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Chemical
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Environmental

CLIENT Alisto Engineering Group (8946)
ATTN: Chris Reinheimer
3732 Mt. Diablo Boulevard
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Lafayette, CA 94549

LAB REQUEST 55994

REPORTED 07/20/2000

RECEIVED 07/11/2000

PROJECT #10-514-01
CalTrans District 7
Task Order 07-1X1201

SUBMITTER Client

COMMENTS

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.
197328
197329
197330
197331
197332
197333
197334
197335
197336
197337
197338
197339
197340
197341
197342

Route 405
Route 5

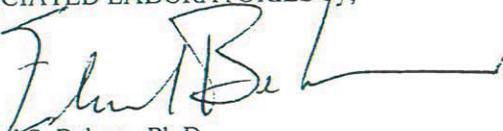
Client Sample Identification

38+2200 @ .15
38+2200 @ .3 ✓
38+2200 @ .6
38+2200 @ .9
81+40B @ 2.15
81+50 @ 0
81+50 @ .45
81+50 @ .6
81+50 @ 1.35
81+50 @ 2.15
81+60 @ 0
81+60 @ .45
81+60 @ .6
81+60 @ 1.35
81+60 @ 2.15

④

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

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TESTING & CONSULTING
Chemical
Microbiological
Environmental

Order #: 197260

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+30 @ 0.6

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.577	1	0.005	mg/L	07/25/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	21.3	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	444	10	2.5	mg/Kg	07/12/00 MT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197261
Matrix: SOLID
Date Sampled: 07/10/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 81+30 @ 1.35

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	32.2	10	2.5	mg/Kg	07/12/00 MT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197262
Matrix: SOLID
Date Sampled: 07/10/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 81+30 @ 2.15

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	2.68	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	71.8	10	2.5	mg/Kg	07/12/00 MT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197263
Matrix: SOLID
Date Sampled: 07/10/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 81+40A @ 0

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	43.1	10	2.5	mg/Kg	07/12/00 MT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197264

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+40A @ .45

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	0.55	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	85.1	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197265
Matrix: SOLID
Date Sampled: 07/10/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 81+40A @ .6

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.439	1	0.005	mg/L	07/25/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	16.0	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	346	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197266

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+40A @ 1.35

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	23.5	10	2.5	mg/Kg	07/12/00 MT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197267
Matrix: SOLID
Date Sampled: 07/10/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 81+40A @ 2.15

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	42.1	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197268

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+40B @ 0

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	2.31	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	142	10	2.5	mg/Kg	07/12/00 MT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197269

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+40B @ .45

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6011/6010 TCLP (ICP Metals)					
Lead TCLP	2.73	10	0.05	mg/L	07/25/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	22.6	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	1,060	100	25.0	mg/Kg	07/12/00 MT
6045 pH					
pH	6.91	1		NA	07/13/00 AL

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197270
Matrix: SOLID
Date Sampled: 07/10/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 81+40B @ .6

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	1.41	10	0.05	mg/L	07/25/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	26.7	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	546	10	2.5	mg/Kg	07/12/00 MT
9045 pH					
pH	6.61	1		NA	07/13/00 AL

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197271
Matrix: SOLID
Date Sampled: 07/10/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 81+40B @ 1.35

Analyte	Result	DF	DLR	Units	Date/Analyst
010 STLC (16 ICP Metals)					
Lead, STLC	1.92	1	0.05	mg/L	07/19/00 MT
010B ICP Metals - Solid/Liquid					
Lead	103	10	2.5	mg/Kg	07/12/00 MT
9045 pH					
pH	5.77	1	NA		07/13/00 AL

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197272
Matrix: SOLID
Date Sampled: 07/10/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 81+00 @ 0

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	2.31	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	105	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197273
Matrix: SOLID
Date Sampled: 07/10/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 81+00 @ 0.45

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.375	1	0.005	mg/L	07/25/00 PH
010 STLC (16 ICP Metals)					
Lead, STLC	9.55	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	124	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197274

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+00 @ .6

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

6010B ICP Metals - Solid/Liquid

Lead	45.5	10	2.5	mg/Kg	07/12/00	PH
------	------	----	-----	-------	----------	----

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197275
Matrix: SOLID
Date Sampled: 07/10/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 81+00 @ 1.35

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	17.5	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197276
Matrix: SOLID
Date Sampled: 07/10/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 81+00 @ 2.15

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	28.9	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197277

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+20 @ 0

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010 STLC (16 ICP Metals)					
Lead, STLC	1.98	1	0.05	mg/L	07/19/00 MT
010B ICP Metals - Solid/Liquid					
Lead	141	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197278

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+20 @ .45

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	1.28	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	99.7	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197279

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+20 @ .6

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010 STLC (16 ICP Metals)					
Lead, STLC	0.764	1	0.05	mg/L	07/18/00 PH
010B ICP Metals - Solid/Liquid					
Lead	76.6	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197280

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+20 @ 1.35

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	14.3	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197281

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+20 @ 2.15

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	15.7	10	2.5	mg/Kg	07/12/00 MT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197282

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+30 @ 0

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	1.73	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	136	10	2.5	mg/Kg	07/12/00 MT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 197283

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+30 @ .45

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.539	1	0.005	mg/L	07/25/00 PH
010 STLC (16 ICP Metals)					
Lead, STLC	26.1	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	641	10	2.5	mg/Kg	07/12/00 MT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197332

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+40B @ 2.15

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	4.80	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	118	10	2.5	mg/Kg	07/12/00 PH
9045 pH					
pH	6.78	1	NA		07/13/00 AL

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197333

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+50 @ 0

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.019	1	0.005	mg/L	07/25/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	8.06	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	437	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197334

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+50 @ .45

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	4.53	10	0.05	mg/L	07/25/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	94.9	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	2,060	100	25.0	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197335

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+50 @ .6

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	2.81	10	0.05	mg/L	07/25/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	60.2	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	2,770	100	25.0	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197336

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+50 @ 1.35

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.081	1	0.005	mg/L	07/25/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	11.1	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	225	10	2.5	mg/Kg	07/12/00 MT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197337

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+50 @ 2.15

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.172	1	0.005	mg/L	07/25/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	6.72	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	271	10	2.5	mg/Kg	07/12/00 MT

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197338

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+60 @ 0

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	3.52	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	170	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197339

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+60 @ .45

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.085	1	0.005	mg/L	07/25/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	10.9	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	412	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197340

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+60 @ .6

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.047	1	0.005	mg/L	07/25/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	10.8	1	0.05	mg/L	07/19/00 MT
6010B ICP Metals - Solid/Liquid					
Lead	177	10	2.5	mg/Kg	07/12/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197341

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+60 @ 1.35

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	16.2	10	2.5	mg/Kg	07/12/00 MD

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 197342

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 81+60 @ 2.15

Date Sampled: 07/10/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

6010B ICP Metals - Solid/Liquid

Lead

33.7

10

2.5

mg/Kg

07/12/00

PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

ASSOCIATED LABORATORIES
QA REPORT FORM (MS/MSD)

QC Sample: LR 55994 - 197272

Matrix: SOLID

Prep. Date: 07/12/00

Analysis Date: 07/12/00

Lab ID#'s in Batch: LR 55994

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	6010	105.00		19.1	138.0	138.0	NC	NC	0.0
Lead	6010	8.07		19.3	27.0	27.1	98.1	98.6	0.4
Lead	6010	274.00		19.7	270.0	270.0	NC	NC	0.0
Lead	6010	226.00		19.6	244.0	244.0	NC	NC	0.0

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

QC Code #: H071200S4567

Prep. Meth 3050

LCS Source(s): QC21-LOT#QC2184/4;QC7-LOT7A84/1

Wt./Vol: 1ml/100ml

Lab Control Sample (LCS)

TEST	Method	Result	TRUE	% Rec	L.Limit	H.Limit	Method Blank	
							PB	ND
Lead	6010	193	200	96.5	80%	120%	0.25	U
Lead	6010	193	200	96.5	80%	120%	0.25	U
Lead	6010	178	200	89.0	80%	120%	0.25	U
Lead	6010	177	200	88.5	80%	120%	0.25	U

Notes : RESULT = Sample Result; TRUE = True Value; % Rec = 100*Result/True

L.Limit H. Limit = Low High Control Limits

PB = Preparation Blank; ND = "U" for Non-Detected

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 55994 - 197316
Matrix: STLC
Prep. Date: 07/17/00
Analysis Date: 07/18/00
Lab ID#'s in Batch: LR 55994, 55505, 55635, 55892, 56354

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	6010	52.8		1.6	52.3	52.3	NC	NC	0.0
Lead	6010	0.764		1.6	2.33	2.45	97.9	105.4	5.0
Lead	6010	16.0		1.6	17.4	17.5	NC	NC	0.6

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

55794

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project Information: Project No: 10-515-01 Project Title: Caltrans District 7; Task Order 07-535A1 Location: Route 405; Victory Boulevard to Sherman Way, L.A., California Sampler's Name: Chris Reinheimer/Phil Cherry (print) Sampler's Signature:		Report To: Consultant: Alisto Engineering Address: 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Consultant: Alisto Engineering Address: Same		Samples Submitted To: Laboratory: Associated Laboratories Address: 806 North Batavia Orange, California 92868 Contact: Danielle Roberts Phone: (714) 771-6900 Fax: (714) 538-1209 Date Results Required: Date Report Required:	
TURN AROUND TIME 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> Standard (10-14 days) <input type="checkbox"/>		ANALYSIS			
RUSH					
Sample ID.	Date	# Containers	Matrix	Lead (EPA 6010) ICAP	Lead (WET) TLC
38+100 E 0.15	7/11/00	1	SOIL	X	X
38+100 E 0.30	7/11/00	1	SOIL	X	X
38+100 E 0.60	7/11/00	1	SOIL	X	X
38+100 E 0.90	7/11/00	1	SOIL	X	X
38+200 E 0.15	7/11/00	1	SOIL	X	X
38+200 E 0.30	7/11/00	1	SOIL	X	X
38+200 E 0.60	7/11/00	1	SOIL	X	X
38+200 E 0.90	7/11/00	1	SOIL	X	X
38+400 E 0.15	7/11/00	1	SOIL	X	X
38+400 E 0.30	7/11/00	1	SOIL	X	X
38+400 E 0.60	7/11/00	1	SOIL	X	X
38+400 E 0.90	7/11/00	1	SOIL	X	X
Relinquished By:		Date: 7/11/00	Time: 12:50 PM	Received By:	
Relinquished By:		Date: 7-11-00	Time: 4:15 PM	Received By:	
Relinquished By:		Date:	Time:	Received By:	
				Date: 7-11-00	Time: 1 PM
				Date: 7-11-00	Time: 7-11-00
				Date:	Time:
				SPECIAL INSTRUCTIONS:	

COMMENTS

Container / Preservative

55994

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project Information: Project No: 10-515-01 Project Title: Caltrans District 7; Task Order 07-535A1 Location: Route 405; Victory Boulevard to Sherman Way, L.A., California Sampler's Name: Chris Reinheimer/Phil Cherry Sampler's Signature: 	Report To: Consultant: Alisto Engineering Address: 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Consultant: Alisto Engineering Address: Same	Samples Submitted To: Laboratory: Associated Laboratories Address: 808 North Batavia Orange, California 92868 Contact: Danielle Roberts Phone: (714) 771-6900 Fax: (714) 538-1209 Date Results Required: Date Report Required:																																																																																																																																			
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Sample ID.</th> <th style="width: 10%;">Date</th> <th style="width: 10%;"># Containers</th> <th style="width: 10%;">Matrix</th> <th style="width: 10%;">Lead (EPA 6010) ICAP</th> <th style="width: 10%;">Lead (WET) TLC</th> <th style="width: 10%;">Lead (WET) D.I. STLC</th> <th style="width: 10%;">Soil pH (EPA 9045)</th> <th style="width: 10%;">Container / Preservative</th> <th style="width: 10%;">COMMENTS</th> </tr> </thead> <tbody> <tr><td>38+600E0.15</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>38+600E0.30</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>38+600E0.60</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>38+600E0.90</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>38+800E0.15</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>38+800E0.30</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>38+800E0.60</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>38+800E0.90</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>38+1000E0.15</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>38+1000E0.30</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>38+1000E0.60</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>38+1000E0.90</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Sample ID.	Date	# Containers	Matrix	Lead (EPA 6010) ICAP	Lead (WET) TLC	Lead (WET) D.I. STLC	Soil pH (EPA 9045)	Container / Preservative	COMMENTS	38+600E0.15	7/11/00	1	SOIL	X						38+600E0.30	7/11/00	1	SOIL	X						38+600E0.60	7/11/00	1	SOIL	X						38+600E0.90	7/11/00	1	SOIL	X						38+800E0.15	7/11/00	1	SOIL	X						38+800E0.30	7/11/00	1	SOIL	X						38+800E0.60	7/11/00	1	SOIL	X						38+800E0.90	7/11/00	1	SOIL	X						38+1000E0.15	7/11/00	1	SOIL	X						38+1000E0.30	7/11/00	1	SOIL	X						38+1000E0.60	7/11/00	1	SOIL	X						38+1000E0.90	7/11/00	1	SOIL	X								
Sample ID.	Date	# Containers	Matrix	Lead (EPA 6010) ICAP	Lead (WET) TLC	Lead (WET) D.I. STLC	Soil pH (EPA 9045)	Container / Preservative	COMMENTS																																																																																																																												
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55794

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project Information: 10-515-01 Caltrans District 7; Task Order: 07-535A1 Route 405; Victory Boulevard to Sherman Way, L.A., California Sampler's Name: Chris Reinheimer/Phil Cherry (print) Sampler's Signature:		Report To: Alisto Engineering 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Alisto Engineering Address: Same		Samples Submitted To: Associated Laboratories 806 North Batavia Orange, California 92868 Contact: Danielle Roberts Phone: (714) 771-6900 Fax: (714) 538-1209 Date Results Required: Date Report Required:																																																																																																											
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RUSH																																																																																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Sample ID.</th> <th style="width: 15%;">Date</th> <th style="width: 15%;"># Containers</th> <th style="width: 15%;">Matrix</th> <th style="width: 15%;">Lead (EPA 6010) ICAP</th> <th style="width: 15%;">Lead (WET) TLC</th> <th style="width: 15%;">Lead (WET) D.L. STLC</th> <th style="width: 15%;">Soil pH (EPA 9045)</th> </tr> </thead> <tbody> <tr><td>38+1200 E.O.15</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>38+1200 E.O.30</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>38+1200 E.O.60</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>38+1200 E.O.90</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>38+1400 E.O.15</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>38+1400 E.O.30</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>38+1400 E.O.60</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>38+1400 E.O.90</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>38+1600 E.O.15</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>38+1600 E.O.30</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>38+1600 E.O.60</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td></tr> <tr><td>38+1600 E.O.90</td><td>7/11/00</td><td>1</td><td>SOIL</td><td>X</td><td></td><td></td><td></td></tr> </tbody> </table>	Sample ID.	Date	# Containers	Matrix	Lead (EPA 6010) ICAP	Lead (WET) TLC	Lead (WET) D.L. STLC	Soil pH (EPA 9045)	38+1200 E.O.15	7/11/00	1	SOIL	X				38+1200 E.O.30	7/11/00	1	SOIL	X				38+1200 E.O.60	7/11/00	1	SOIL	X				38+1200 E.O.90	7/11/00	1	SOIL	X				38+1400 E.O.15	7/11/00	1	SOIL	X				38+1400 E.O.30	7/11/00	1	SOIL	X				38+1400 E.O.60	7/11/00	1	SOIL	X				38+1400 E.O.90	7/11/00	1	SOIL	X				38+1600 E.O.15	7/11/00	1	SOIL	X				38+1600 E.O.30	7/11/00	1	SOIL	X				38+1600 E.O.60	7/11/00	1	SOIL	X				38+1600 E.O.90	7/11/00	1	SOIL	X										
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the 1990s, the number of people in the world who are under 15 years of age is expected to increase from 1.1 billion to 1.5 billion.

There are a number of reasons why the world's population is growing so rapidly. One of the main reasons is that the number of children born to each woman has increased. This is due to a number of factors, including the fact that women are now having children at a younger age, and that there are more children surviving to adulthood.

Another reason why the world's population is growing so rapidly is that the number of people who are surviving to old age has increased. This is due to a number of factors, including the fact that people are now living longer, and that there are more people surviving to old age.

There are a number of other reasons why the world's population is growing so rapidly. One of the main reasons is that the number of people who are migrating to other parts of the world has increased. This is due to a number of factors, including the fact that there are more people who are seeking better opportunities elsewhere.

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ASSOCIATED LABORATORIES

806 North Batavia - Orange, California 92868 - 714/771-6900

FAX 714/538-1209

CLIENT Alisto Engineering Group (8946)
ATTN: Chris Reinheimer
3732 Mt. Diablo Boulevard
Suite270
Lafayette, CA 94549

LAB REQUEST 56163

REPORTED 07/28/2000

RECEIVED 07/12/2000

PROJECT Caltrans District 7, Task Order 07-535A1-JC

Date 405

SUBMITTER Client

COMMENTS

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.

<u>Order No.</u>	<u>Client Sample Identification</u>
198051	46+1200 @ 0.15
198052	46+1200 @ 0.30 ✓
198053	46+1200 @ 0.60
198054	46+1200 @ 0.90
198055	46+1400 @ 0.15
198056	46+1400 @ 0.30 ✓
198057	46+1400 @ 0.60
198058	46+1400 @ 0.90
198059	46+1600 @ 0.15
198060	46+1600 @ 0.30 ✓
198061	46+1600 @ 0.60
198062	46+1600 @ 0.90

12

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

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<u>Order No.</u>	<u>Client Sample Identification</u>
198063	46+1800 @ 0.15
198064	46+1800 @ 0.30 ✓
198065	46+1800 @ 0.60
198066	46+1800 @ 0.90
198067	46+2000 @ 0.15
198068	46+2000 @ 0.30 ✓
198069	46+2000 @ 0.60
198070	46+2000 @ 0.90
198071	45+00 @ 0.15
198072	45+00 @ 0.30 ✓
198073	45+00 @ 0.60 ✓
198074	45+00 @ 0.90
198075	45+100 @ 0.15 ✓
198076	45+100 @ 0.30 ✓
198077	45+100 @ 0.60
198078	45+100 @ 0.90
198079	45+200 @ 0.15
198080	45+200 @ 0.30 ✓
198081	45+200 @ 0.60
198082	45+200 @ 0.90

20
12
32

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<u>Order No.</u>	<u>Client Sample Identification</u>	
198083	45+300 @ 0.15	
198084	45+300 @ 0.30	✓
198085	45+300 @ 0.60	
198086	45+300 @ 0.90	
198087	45+400 @ 0.15	
198088	45+400 @ 0.30	✓
198089	45+400 @ 0.60	
198090	45+400 @ 0.90	
198091	45+500 @ 0.15	✓
198092	45+500 @ 0.30	
198093	45+500 @ 0.60	
198094	45+500 @ 0.90	
198095	45+600 @ 0.15	✓
198096	45+600 @ 0.30	✓
198097	45+600 @ 0.60	
198098	45+600 @ 0.90	
198099	45+700 @ 0.15	
198100	45+700 @ 0.30	✓
198101	45+700 @ 0.60	
198102	45+700 @ 0.90	

Handwritten notes: 26, 32, 52 (circled)

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ASSOCIATED LABORATORIES by,



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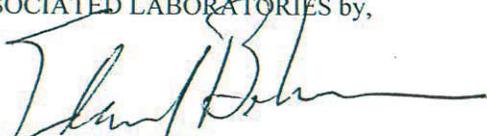
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<u>Order No.</u>	<u>Client Sample Identification</u>
198103	45+800 @ 0.15
198104	45+800 @ 0.30 ✓
198105	45+800 @ 0.60
198106	45+800 @ 0.90
198107	45+900 @ 0.15
198108	45+900 @ 0.30 ✓
198109	45+900 @ 0.60 ✓
198110	45+900 @ 0.90
198111	45+1000 @ 0.15 ✓
198112	45+1000 @ 0.30 ✓
198113	45+1000 @ 0.60
198114	45+1000 @ 0.90
198115	45+1100 @ 0.15 ✓
198116	45+1100 @ 0.30 ✓
198117	45+1100 @ 0.60
198118	45+1100 @ 0.90
198119	45+1200 @ 0.15 ✓
198120	45+1200 @ 0.30
198121	45+1200 @ 0.60

19
52
71

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Order No.

Client Sample Identification

198122	45+1200 @ 0.90
198123	45+1300 @ 0.15
198124	45+1300 @ 0.30 ✓
198125	45+1300 @ 0.60
198126	45+1300 @ 0.90
198127	45+1400 @ 0.15
198128	45+1400 @ 0.30 ✓
198129	45+1400 @ 0.60
198130	45+1400 @ 0.90
198131	45+1500 @ 0.15
198132	45+1500 @ 0.30 ✓
198133	45+1500 @ 0.60 ✓
198134	45+1500 @ 0.90
198135	45+1600 @ 0.15 ✓
198136	45+1600 @ 0.30 ✓
198137	45+1600 @ 0.60
198138	45+1600 @ 0.90
198139	45+1700 @ 0.15 ✓
198140	45+1700 @ 0.30
198141	45+1700 @ 0.60

20
71
91

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<u>Order No.</u>	<u>Client Sample Identification</u>
198142	45+1700 @ 0.90
198143	45+1800 @ 0.15
198144	45+1800 @ 0.30
198145	45+1800 @ 0.60
198146	45+1800 @ 0.90

⑤
51
⑤

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Order #: 198051

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+1200 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	37.6	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198052
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+1200 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	4.65	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198053
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+1200 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	15.0	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198054
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+1200 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	4.45	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198055

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+1400 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010 STLC (16 ICP Metals)					
Lead, STLC	2.41	1	0.05	mg/L	07/31/00 SD
010B ICP Metals - Solid/Liquid					
Lead	57.8	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198056
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+1400 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
---------	--------	----	-----	-------	--------------

6010B ICP Metals - Solid/Liquid

Lead	45.2	10	2.5	mg/Kg	07/15/00 PH
------	------	----	-----	-------	-------------

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198057

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+1400 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

010B ICP Metals - Solid/Liquid

Lead

18.6

1

0.25

mg/Kg

07/15/00

PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198058

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+1400 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>6010B ICP Metals - Solid/Liquid</u>					
Lead	5.97	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198059

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+1600 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010 STLC (16 ICP Metals)					
Lead, STLC	2.98	1	0.05	mg/L	07/26/00 PH
010B ICP Metals - Solid/Liquid					
Lead	83.9	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198060
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+1600 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	7.07	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198061

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+1600 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	8.74	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198062
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+1600 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	7.34	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198063

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+1800 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>010B ICP Metals - Solid/Liquid</u>					
Lead	23.2	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198064

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+1800 @ 0.30

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	1.83	1	0.05	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	63.7	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198065

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+1800 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	18.1	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes. ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198066
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+1800 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
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6010B ICP Metals - Solid/Liquid

Lead	5.50	1	0.25	mg/Kg	07/15/00 PH
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198067
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 46+2000 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
10B ICP Metals - Solid/Liquid					
Lead	20.3	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198068

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+2000 @ 0.30

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>6010B ICP Metals - Solid/Liquid</u>					
Lead	6.84	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198069

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+2000 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>10B ICP Metals - Solid/Liquid</u>					
Lead	4.33	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198070

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 46+2000 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

6010B ICP Metals - Solid/Liquid

Lead

6.74

1

0.25

mg/Kg

07/15/00

PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198071
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+00 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>311/6010 TCLP (ICP Metals)</u>					
Lead <u>TCLP</u>	1.36	1	0.05	mg/L	07/27/00 PH
<u>6010 STLC (16 ICP Metals)</u>					
Lead, STLC	27.2	1	0.05	mg/L	07/26/00 PH
<u>6010B ICP Metals - Solid/Liquid</u>					
Lead	607	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198072
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+00 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
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1311/6010 TCLP (ICP Metals)

Lead TCLP	0.451	1	0.005	mg/L	07/27/00 PH
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6010 STLC (16 ICP Metals)

Lead, STLC	11.2	1	0.5	mg/L	07/26/00 PH
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6010B ICP Metals - Solid/Liquid

Lead	116	10	2.5	mg/Kg	07/15/00 PH
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198073

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+00 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.526	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	10.0	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	108	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198074
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+00 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	8.44	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198075

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+100 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.468	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	13.4	10	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	293	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198076
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+100 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	1.31	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	18.2	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	339	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198077
 Matrix: SOLID
 Date Sampled: 07/11/2000
 Time Sampled:
 Sampled By:

Client: Alisto Engineering Group
 Client Sample ID: 45+100 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.468	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	14.4	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	90.6	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198078

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+100 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>6010B ICP Metals - Solid/Liquid</u>					
Lead	29.7	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198079

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+200 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	2.90	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	29.8	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	659	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit. DF = Dilution Factor



Order #: 198080

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+200 @ 0.30

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

6010B ICP Metals - Solid/Liquid

Lead

46.6

1

0.25

mg/Kg

07/15/00

PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198081

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+200 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

010B ICP Metals - Solid/Liquid

Lead

10.1

1

0.25

mg/Kg

07/15/00

PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198082

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+200 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	7.85	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198083

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+300 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	1.70	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	13.3	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	402	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198084
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+300 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	20.7	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198085

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+300 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

110B ICP Metals - Solid/Liquid

Lead

17.1

10

2.5

mg/Kg

07/15/00

PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198086
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+300 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	15.7	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198087

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+400 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	2.91	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	32.0	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	514	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198088

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+400 @ 0.30

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.511	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	11.0	10	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	287	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198089

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+400 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.476	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	7.21	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	156	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198090

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+400 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	35.6	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198091

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+500 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B TCLP (ICP Metals)					
Lead TCLP	5.83	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	35.5	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	862	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198092
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+500 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	2.29	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	36.3	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	703	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198093

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+500 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
611/6010 TCLP (ICP Metals)					
Lead TCLP	1.28	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	26.7	10	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	403	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198094

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+500 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	2.22	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	25.2	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	363	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198095
 Matrix: SOLID
 Date Sampled: 07/11/2000
 Time Sampled:
 Sampled By:

Client: Alisto Engineering Group
 Client Sample ID: 45+600 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	3.74	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	39.7	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	612	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198096

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+600 @ 0.30

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.420	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	11.6	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	206	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198097

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+600 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	1.56	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	18.5	10	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	231	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198098
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+600 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	32.7	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198099

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+700 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	1.03	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	32.4	10	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	826	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198100
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+700 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	1.61	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	50.5	10	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	903	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198101

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+700 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.386	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	17.9	10	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	153	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198102
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+700 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.591	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	14.6	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	143	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198103

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+800 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	2.28	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	18.7	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	364	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198104
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+800 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.281	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	6.54	1	0.05	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	67.8	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198105
 Matrix: SOLID
 Date Sampled: 07/11/2000
 Time Sampled:
 Sampled By:

Client: Alisto Engineering Group
 Client Sample ID: 45+800 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
010 STLC (16 ICP Metals)					
Lead, STLC	3.85	1	0.05	mg/L	07/26/00 PH
010B ICP Metals - Solid/Liquid					
Lead	90.6	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198106

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+800 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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6010 STLC (16 ICP Metals)

Lead, STLC	4.21	1	0.05	mg/L	07/26/00 PH
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6010B ICP Metals - Solid/Liquid

Lead	88.7	10	2.5	mg/Kg	07/15/00 PH
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198107

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+900 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.757	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	12.3	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	171	10	2.5	mg/Kg	07/15/00 PH
045 pH					
pH	7.59	1		NA	07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198108

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+900 @ 0.30

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	47.3	10	2.5	mg/Kg	07/15/00 PH
9045 pH					
pH	8.10	1		NA	07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198109

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+900 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
110B ICP Metals - Solid/Liquid					
Lead	12.5	10	2.5	mg/Kg	07/15/00 PH
9045 pH					
pH	8.11	1		NA	07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198110
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+900 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	33.0	10	2.5	mg/Kg	07/15/00 PH
9045 pH					
pH	8.09	1		NA	07/17/00 GP

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198111

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1000 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	2.29	5	0.025	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	13.7	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	349	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198112

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1000 @ 0.30

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.662	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	6.49	10	0.5	mg/L	07/26/00 PH
6010E ICP Metals - Solid/Liquid					
Lead	135	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198113

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1000 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
<u>110B ICP Metals - Solid/Liquid</u>					
Lead	34.1	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198114

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1000 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	1.48	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	12.7	10	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	141	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198115
 Matrix: SOLID
 Date Sampled: 07/11/2000
 Time Sampled:
 Sampled By:

Client: Alisto Engineering Group
 Client Sample ID: 45+1100 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	5.72	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	35.6	1	0.5	mg/L	07/16/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	1,640	100	25.0	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198116
 Matrix: SOLID
 Date Sampled: 07/11/2000
 Time Sampled:
 Sampled By:

Client: Alisto Engineering Group
 Client Sample ID: 45+1100 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	2.22	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	25.7	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	575	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198117

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1100 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010B ICP Metals - Solid/Liquid					
Lead	9.63	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198118

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1100 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.446	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	5.80	1	0.05	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	166	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198119
 Matrix: SOLID
 Date Sampled: 07/11/2000
 Time Sampled:
 Sampled By:

Client: Alisto Engineering Group
 Client Sample ID: 45+1200 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	9.13	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	39.7	10	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	961	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198120

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1200 @ 0.30

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.783	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	8.21	1	0.05	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	91.7	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198121
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+1200 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
10B ICP Metals - Solid/Liquid					
Lead	8.42	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198122
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+1200 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	5.92	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198123

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1300 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	1.80	10	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	20.9	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	67.2	1	0.25	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198124
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+1300 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.701	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	11.9	1	0.05	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	206	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198125
 Matrix: SOLID
 Date Sampled: 07/11/2000
 Time Sampled:
 Sampled By:

Client: Alisto Engineering Group
 Client Sample ID: 45+1300 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	1.26	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	22.4	10	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	317	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198126

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1300 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

6010 STLC (16 ICP Metals)

Lead, STLC

2.45

1

0.5

mg/L

07/26/00

PH

6010B ICP Metals - Solid/Liquid

Lead

572

10

2.5

mg/Kg

07/15/00

PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198127

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1400 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.261	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	6.03	1	0.05	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	235	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198128

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1400 @ 0.30

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

6010 STLC (16 ICP Metals)

Lead, STLC	2.28	1	0.05	mg/L	07/26/00	PH
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6010B ICP Metals - Solid/Liquid

Lead	54.6	10	2.5	mg/Kg	07/15/00	PH
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198129

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1400 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
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110B ICP Metals - Solid/Liquid

Lead	43.7	1	0.25	mg/Kg	07/15/00 PH
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198130

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1400 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	18.6	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198131

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1500 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	5.37	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	42.4	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	618	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198132

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1500 @ 0.30

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010B ICP Metals - Solid/Liquid					
Lead	26.9	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor

ASSOCIATED LABORATORIES Analytical Results Report



Order #: 198133

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1500 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
010 STLC (16 ICP Metals)					
Lead, STLC	4.18	1	0.05	mg/L	07/26/00 PH
010B ICP Metals - Solid/Liquid					
Lead	93.4	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198134
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+1500 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	1.30	1	0.05	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	87.7	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198135
 Matrix: SOLID
 Date Sampled: 07/11/2000
 Time Sampled:
 Sampled By:

Client: Alisto Engineering Group
 Client Sample ID: 45+1600 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
11/6010 TCLP (ICP Metals)					
Lead TCLP	2.69	5	0.025	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	34.9	10	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	884	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198136
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+1600 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
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6010 STLC (16 ICP Metals)

Lead, STLC	4.28	1	0.05	mg/L	07/26/00 PH
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6010B ICP Metals - Solid/Liquid

Lead	59.4	1	0.25	mg/Kg	07/15/00 PH
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DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198137
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+1600 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.214	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	8.89	1	0.05	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	239	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198138
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+1600 @ 0.90

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	1.66	1	0.05	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	187	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198139

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1700 @ 0.15

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
511/6010 TCLP (ICP Metals)					
Lead TCLP	2.01	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	40.6	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	679	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198140
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+1700 @ 0.30

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	0.191	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	5.44	1	0.05	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	272	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198141

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1700 @ 0.60

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
11/6010 TCLP (ICP Metals)					
Lead TCLP	0.257	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	9.90	1	0.05	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	89.9	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198142

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1700 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
6010 STLC (16 ICP Metals)					
Lead, STLC	0.747	1	0.05	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	108	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



ASSOCIATED LABORATORIES Analytical Results Report

Order #: 198143
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+1800 @ 0.15

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	13.3	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	155	50	2.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	3,080	100	25.0	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198144

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1800 @ 0.30

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte	Result	DF	DLR	Units	Date/Analyst
1311/6010 TCLP (ICP Metals)					
Lead TCLP	1.91	1	0.05	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	21.8	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	455	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198145
Matrix: SOLID
Date Sampled: 07/11/2000
Time Sampled:
Sampled By:

Client: Alisto Engineering Group
Client Sample ID: 45+1800 @ 0.60

Analyte	Result	DF	DLR	Units	Date/Analyst
311/6010 TCLP (ICP Metals)					
Lead TCLP	0.254	1	0.005	mg/L	07/27/00 PH
6010 STLC (16 ICP Metals)					
Lead, STLC	9.96	1	0.5	mg/L	07/26/00 PH
6010B ICP Metals - Solid/Liquid					
Lead	308	10	2.5	mg/Kg	07/15/00 PH

DLR = Detection limit for reporting purposes, ND = Not Detected below indicated detection limit, DF = Dilution Factor



Order #: 198146

Client: Alisto Engineering Group

Matrix: SOLID

Client Sample ID: 45+1800 @ 0.90

Date Sampled: 07/11/2000

Time Sampled:

Sampled By:

Analyte

Result

DF

DLR

Units

Date/Analyst

6010B ICP Metals - Solid/Liquid

Analyte	Result	DF	DLR	Units	Date/Analyst
Lead	26.5	10	2.5	mg/Kg	07/15/00 PH

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: LR 56163 - 198105

Matrix: TCLP

Prep. Date: 07/27/00

Analysis Date: 07/27/00

Lab ID#'s in Batch: LR 56163

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	6010	0.242		0.2	0.430	0.445	94.0	101.5	3.4
Lead	6010	1.800		0.2	1.960	1.970	NC	NC	0.5
Lead	6010	2.220		0.2	2.380	2.420	NC	NC	1.7

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

QC Code #: H072700TCLP234

Prep. Meth: 3050

LCS Source(s): QC21-LOT#QC2/91/1;QC7-LOT7A92/1

Wt./Vol: 0.5ml/25ml

Lab Control Sample (LCS)

TEST	Method	Result	TRUE	% Rec	L.Limit	H.Limit	Method Blank	
							PB	ND
Lead	6010	1.930	2	96.5	80 %	120 %	0.05	U
Lead	6010	1.925	2	96.3	80 %	120 %	0.05	U
Lead	6010	1.747	2	87.4	80 %	120 %	0.05	U

Notes: RESULT = Sample Result; TRUE = True Value; % Rec = 100*Result/True

L.Limit H. Limit = Low - High Control Limits

PB = Preparation Blank; ND = "U" for Non-Detected

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 56163 - 198083
Matrix: STLC
Prep. Date: 07/26/00
Analysis Date: 07/26/00
Lab ID#'s in Batch: LR 56163

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	6010	8.21		2	10.10	10.10	NC	NC	0.0
Lead	6010	1.66		2	3.43	3.42	88.5	88.0	0.3
Lead	6010	13.30		2	15.20	15.20	NC	NC	0.0

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

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

Sample: LR 56343 - 198946

Matrix: STLC

ep. Date: 07/31/00

Analysis Date: 07/31/00

Lab ID#'s in Batch: LR 56343, 56538, 56163

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RESULT

REPORTING UNITS = mg/L

EST	Method	Sample Result	ND	Spike Added	Matrix Spike	Matrix Spike Dup	%Rec MS	%Rec MSD	RPD
Lead	6010	5.02		2	6.60	6.68	79.0	83.0	1.2

NC = Not Calculated

ND = "U" - Not Detected

RD = 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

ASSOCIATED LABORATORIES

QA REPORT FORM (MS/MSD)

QC Sample: LR 56163 - 198052

Matrix: SOLID

Prep. Date: 07/14/00

Analysis Date: 07/14/00

Lab ID#'s in Batch: LR 56163

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	6010	4.65		19.1	24.9	25.3	106.0	108.1	1.6
Lead	6010	45.20		19.3	66.1	66.2	108.3	108.8	0.2
Lead	6010	87.70		18.5	109.0	109.0	NC	NC	0.0
Lead	6010	108.00		19.1	116.0	116.0	NC	NC	0.0

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

QC Code #: H071400S05678

Prep. Meth 3050

LCS Source(s): QC21-LOT#QC2184/4;QC7-LOT7A84/1

Wt./Vol: 1ml/100ml

Lab Control Sample (LCS)

TEST	Method	Result	TRUE	% Rec	L.Limit	H.Limit	Method Blank	
							PB	ND
Lead	6010	190.3	200	95.2	80%	120%	5	U
Lead	6010	189.9	200	95.0	80%	120%	5	U
Lead	6010	185.9	200	93.0	80%	120%	5	U
Lead	6010	187.5	200	93.8	80%	120%	5	U

Notes: RESULT = Sample Result; TRUE = True Value; % Rec = 100*Result/True

L.Limit H. Limit = Low High Control Limits

PB = Preparation Blank; ND = "U" for Non-Detected

56163

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project Information: Project No: 10-515-01 Project Title: Caltrans District 7; Task Order 07-535A1-3C Location: Route 405; Victory Boulevard to Sherman Way, L.A., California. Sampler's Name: Chris Reinheimer/Phil Cherry (print) Sampler's Signature:	Report To: Consultant: Alisto Engineering Address: 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Consultant: Alisto Engineering Address: Same	Samples Submitted To: Laboratory: Associated Laboratories Address: 306 North Batavia Orange, California 92868 Contact: Danielle Roberts Phone: (714) 771-6900 Fax: (714) 538-1209 Date Results Required: Date Report Required:		
TURN AROUND TIME RUSH <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> Standard (10-14 days) <input type="checkbox"/>		ANALYSIS Lead (EPA 6010) ICAP <input type="checkbox"/> Lead (WET) TLC <input type="checkbox"/> Lead (WET) D.L. STLC <input type="checkbox"/> Soil pH (EPA 9045) <input type="checkbox"/>		
Sample ID. 46+1200 0.15 46+1200 0.30 46+1200 0.60 46+1200 0.90 46+1400 0.15 46+1400 0.30 46+1400 0.60 46+1400 0.90 46+1600 0.15 46+1600 0.30 46+1600 0.60 46+1600 0.90	Date 7/11/00 7/11/00 7/11/00 7/11/00 7/11/00 7/11/00 7/11/00 7/11/00 7/11/00 7/11/00 7/11/00 7/11/00	# Containers 1 1 1 1 1 1 1 1 1 1 1 1	Matrix SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL	COMMENTS Container / Preservative
Relinquished By: Date: 7/12/00 Time: 1:58		Received By: Date: 7/12/00 Time: 1:45		
Relinquished By: Date: 7/12/00 Time: 4:42		Received By: Date: Time:		
Relinquished By: Date: Time:		Received By: Date: Time:		

576163

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project Information: Project No: 10-515-01 Project Title: Callrans District 7; Task Order 07-585A1 - 32 Location: Route 405; Victory Boulevard to Sherman Way, L.A., California Sampler's Name: Chris Reinheimer/Phil Cherry (print) Sampler's Signature: <i>Phil Cherry</i>	Report To: Consultant: Alisto Engineering Address: 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Consultant: Alisto Engineering Address: Same	Samples Submitted To: Laboratory: Associated Laboratories Address: 806 North Batavia Orange, California 92868 Contact: Danielle Roberts Phone: (714) 771-6900 Fax: (714) 538-1209 Date Results Required: Date Report Required:																																																																																																																									
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">Sample ID.</th> <th style="width: 20%;">Date</th> <th style="width: 20%;"># Containers</th> <th style="width: 20%;">Matrix</th> <th style="width: 20%;"></th> </tr> </thead> <tbody> <tr><td>45+100 R.O.15</td><td>7/11/00</td><td>1</td><td>SOIL</td><td></td></tr> <tr><td>45+100 R.O.30</td><td></td><td></td><td>SOIL</td><td></td></tr> <tr><td>45+100 R.O.60</td><td></td><td></td><td>SOIL</td><td></td></tr> <tr><td>45+100 R.O.90</td><td></td><td></td><td>SOIL</td><td></td></tr> <tr><td>45+200 R.O.15</td><td></td><td></td><td>SOIL</td><td></td></tr> <tr><td>45+200 R.O.30</td><td></td><td></td><td>SOIL</td><td></td></tr> <tr><td>45+200 R.O.60</td><td></td><td></td><td>SOIL</td><td></td></tr> <tr><td>45+200 R.O.90</td><td></td><td></td><td>SOIL</td><td></td></tr> <tr><td>45+300 R.O.15</td><td></td><td></td><td>SOIL</td><td></td></tr> <tr><td>45+300 R.O.30</td><td></td><td></td><td>SOIL</td><td></td></tr> <tr><td>45+300 R.O.60</td><td></td><td></td><td>SOIL</td><td></td></tr> <tr><td>45+300 R.O.90</td><td></td><td></td><td>SOIL</td><td></td></tr> </tbody> </table>	Sample ID.	Date	# Containers	Matrix		45+100 R.O.15	7/11/00	1	SOIL		45+100 R.O.30			SOIL		45+100 R.O.60			SOIL		45+100 R.O.90			SOIL		45+200 R.O.15			SOIL		45+200 R.O.30			SOIL		45+200 R.O.60			SOIL		45+200 R.O.90			SOIL		45+300 R.O.15			SOIL		45+300 R.O.30			SOIL		45+300 R.O.60			SOIL		45+300 R.O.90			SOIL		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">ANALYSIS</th> </tr> <tr> <th style="width: 25%;">Lead (EPA 601) ICAP</th> <th style="width: 25%;">Lead (WET) TLIC</th> <th style="width: 25%;">Lead (WET) D.L. STLC</th> <th style="width: 25%;">Soil pH (EPA 9045)</th> </tr> </thead> <tbody> <tr><td style="text-align: center;">X</td><td></td><td></td><td></td></tr> </tbody> </table>	ANALYSIS				Lead (EPA 601) ICAP	Lead (WET) TLIC	Lead (WET) D.L. STLC	Soil pH (EPA 9045)	X				X				X				X				X				X				X				X				X				X				X				X				COMMENTS Container / Preservative
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Relinquished By: <i>Phil Cherry</i>		Date: 7/12/00 Time: 1:38 Received By: <i>Alberto Dgonce</i>																																																																																																																									
Relinquished By: <i>Alberto Dgonce</i>		Date: 7/12/00 Time: 9:42 Received By: <i>Alberto Dgonce</i>																																																																																																																									
Relinquished By:		Date: Time:																																																																																																																									
		SPECIAL INSTRUCTIONS:																																																																																																																									

56663

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project Information: Project No: 10-515-01 Project Title: Caltrans District 7; Task Order 07-595A1 - 3C Location: Route 405; Victory Boulevard to Sherman Way, L.A., California Sampler's Name: Chris Reinheimer/Phil Cherry (print) Sampler's Signature:		Report To: Consultant: Alisto Engineering Address: 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Consultant: Alisto Engineering Address: Same		Samples Submitted To: Laboratory: Associated Laboratories Address: 806 North Batavia Orange, California 92868 Contact: Danielle Roberts Phone: (714) 771-8900 Fax: (714) 538-1209 Date Results Required: Date Report Required:					
TURN AROUND TIME RUSH <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> Standard (10-14 days) <input type="checkbox"/>		ANALYSIS							
Sample ID.	Date	# Containers	Matrix	Lead (EPA 6010) ICAP	Lead (WET) TLC	Lead (WET) D.L. STLC	Soil pH (EPA 9045)	Container / Preservative	COMMENTS
451400	0.15 7/11/00	1	SOIL	X					
451400	0.30 7/11/00	1	SOIL	X					
451400	0.60 7/11/00	1	SOIL	X					
451400	0.90 7/11/00	1	SOIL	X					
451500	0.15 7/11/00	1	SOIL	X					
451500	0.30 7/11/00	1	SOIL	X					
451500	0.60 7/11/00	1	SOIL	X					
451500	0.90 7/11/00	1	SOIL	X					
451600	0.15 7/11/00	1	SOIL	X					
451600	0.30 7/11/00	1	SOIL	X					
451600	0.60 7/11/00	1	SOIL	X					
451600	0.90 7/11/00	1	SOIL	X					
Relinquished By:		Date: 7/12/00	Time: 1:28	Received By:	Date: 7-12-00	Time: 1:45	SPECIAL INSTRUCTIONS:		
Relinquished By:		Date: 7/12/00	Time: 4:40	Received By:	Date: 7-12	Time:			
Relinquished By:		Date:	Time:	Received By:	Date:	Time:			

56163

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project Information: Project No: 10-515-01 Project Title: Caltrans District 7; Task Order 07-535A1 ~ 3C Location: Route 405; Victory Boulevard to Sherman Way, L.A., California Sampler's Name: Chris Reinheimer/Phil Cherry (print) Sampler's Signature: <i>Phil Cherry</i>		Report To: Consultant: Alisto Engineering Address: 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Consultant: Alisto Engineering Address: Same		Samples Submitted To: Laboratory: Associated Laboratories Address: 806 North Batavia Orange, California 92868 Contact: Daniela Roberts Phone: (714) 771-6900 Fax: (714) 538-1209 Date Results Required: Date Report Required:					
TURN AROUND TIME RUSH <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> Stand-ard (10-14 days) <input type="checkbox"/>		ANALYSIS							
Sample ID.	Date	# Containers	Matrix	Lead (EPA 6010) ICAP	Lead (WET) TLCL	Lead (WET) D.L. STLC	Soil pH (EPA 9045)	Container / Preservative	COMMENTS
45-700 @ 0.15	7/11/00	1	SOIL	X					
45-1700 @ 0.30			SOIL	X					
45-1700 @ 0.60			SOIL	X					
45-700 @ 0.70			SOIL	X					
45-800 @ 0.15			SOIL	X					
45-800 @ 0.30			SOIL	X					
45-800 @ 0.60			SOIL	X					
45-800 @ 0.90			SOIL	X					
45-1900 @ 0.15			SOIL	X					
45-1900 @ 0.30			SOIL	X					
45-1900 @ 0.60			SOIL	X					
45-1900 @ 0.90			SOIL	X					
Relinquished By: <i>[Signature]</i>		Date: 7/12/00	Time: 1:30	Requested By: <i>[Signature]</i>	Date: 7/12/00	Time: 1:45	SPECIAL INSTRUCTIONS:		
Relinquished By: <i>[Signature]</i>		Date: 7/12/00	Time: 1:42	Received By: <i>[Signature]</i>	Date: 7/12	Time:			
Relinquished By:		Date:	Time:	Received By:	Date:	Time:			

56163

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project Information: Project No: 10-515-01 Project Title: Caltrans District 7; Task Order 07-535A1 - 3C Location: Route 405; Victory Boulevard to Sherman Way, L.A., California Sampler's Name: Chris Reinheimer/Phil Cherry (print) Sampler's Signature:		Report To: Consultant: Alisto Engineering Address: 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Consultant: Alisto Engineering Address: Same		Samples Submitted To: Laboratory: Associated Laboratories Address: 806 North Batavia Orange, California 92868 Contact: Danielle Roberts Phone: (714) 771-6900 Fax: (714) 538-1209 Date Results Required: Date Report Required:	
TURN AROUND TIME RUSH <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> Standard (10-14 days) <input type="checkbox"/>		ANALYSIS			
Sample ID.	Date	# Containers	Matrix	Lead (EPA 6010) ICAP	Lead (WET) TLC
45+1300 @ 0.15	7/11/00	1	SOIL	X	X
45+1300 @ 0.30	7/11/00	1	SOIL	X	X
45+1300 @ 0.60	7/11/00	1	SOIL	X	X
45+1300 @ 0.30	7/11/00	1	SOIL	X	X
45+1400 @ 0.15	7/11/00	1	SOIL	X	X
45+1400 @ 0.30	7/11/00	1	SOIL	X	X
45+1400 @ 0.60	7/11/00	1	SOIL	X	X
45+1400 @ 0.30	7/11/00	1	SOIL	X	X
45+1500 @ 0.15	7/11/00	1	SOIL	X	X
45+1500 @ 0.30	7/11/00	1	SOIL	X	X
45+1500 @ 0.60	7/11/00	1	SOIL	X	X
45+1500 @ 0.30	7/11/00	1	SOIL	X	X
Relinquished By:	Date: 7/12/00 Time: 1:38	Relinquished By:	Date: 7/12/00 Time: 1:45	SPECIAL INSTRUCTIONS:	
Relinquished By:	Date: 7/12/00 Time: 4:12	Relinquished By:	Date: 7/12 Time:	SPECIAL INSTRUCTIONS:	
Relinquished By:	Date: 7/12/00 Time:	Relinquished By:	Date: 7/12 Time:	SPECIAL INSTRUCTIONS:	

56163

ALISTO ENGINEERING GROUP CHAIN OF CUSTODY

Project Information: Project No: 10-515-01 Project Title: Caltrans District 7; Task Order 07-535A1 - 30 Location: Route 405; Victory Boulevard to Sherman Way, L.A., California Sampler's Name: Chris Reinheimer/Phil Cherry (print) Sampler's Signature:		Report To: Consultant: Alisto Engineering Address: 3732 Mt. Diablo Boulevard Lafayette, Calif. 94549 Contact: Chris Reinheimer Phone: (925) 962-6970 Fax: (925) 962-6971 Bill To: Consultant: Alisto Engineering Address: Same		Samples Submitted To: Laboratory: Associated Laboratories Address: 806 North Batavia Orange, California 92868 Contact: Danielle Roberts Phone: (714) 771-6900 Fax: (714) 538-1209 Date Results Required: Date Report Required:					
TURN AROUND TIME RUSH <input type="checkbox"/> 24 Hour <input type="checkbox"/> 48 Hour <input checked="" type="checkbox"/> 5 Day <input type="checkbox"/> Standard (10-14 days) <input type="checkbox"/>		ANALYSIS							
Sample ID.	Date	# Containers	Matrix	Lead (EPA 6010) (CAP)	Lead (WET) TLC	Lead (WET) D.L. STLC	Soil pH (EPA 9045)	Container / Preservative	COMMENTS
45+1600 E.O.15	7/11/00	1	SOIL	X					
45+1600 E.O.30	7/11/00	1	SOIL	X					
45+1600 E.O.60	7/11/00	1	SOIL	X					
45+1600 E.O.90	7/11/00	1	SOIL	X					
45+1700 E.O.15	7/11/00	1	SOIL	X					
45+1700 E.O.30	7/11/00	1	SOIL	X					
45+1700 E.O.60	7/11/00	1	SOIL	X					
45+1700 E.O.90	7/11/00	1	SOIL	X					
45+1800 E.O.15	7/11/00	1	SOIL	X					
45+1800 E.O.30	7/11/00	1	SOIL	X					
45+1800 E.O.60	7/11/00	1	SOIL	X					
45+1800 E.O.90	7/11/00	1	SOIL	X					45+1800 E.O.60
Relinquished By:		Date: 7/12/00	Time: 1:58	Received By:	Date: 7-12-00	Time: 1:45	SPECIAL INSTRUCTIONS:		
Relinquished By:		Date: 7-22-00	Time: 4:45	Received By:	Date: 7-12-00	Time:			
Relinquished By:		Date:	Time:	Received By:	Date:	Time:			

APPENDIX C

**CALTRANS CHART FOR REUSE OF SOIL CONTAINING
AERIALY DEPOSITED LEAD IN HIGHWAY CONSTRUCTION**

APPENDIX C

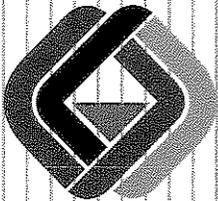
CALTRANS CHART FOR REUSE OF SOIL CONTAINING
AERIALY DEPOSITED LEAD IN HIGHWAY CONSTRUCTION

SOLUBLE LEAD (mg/l)	TOTAL LEAD (mg/kg)	TYPE	HANDLING
California Testing			
<5.0	0-350	X	Non-hazardous. Use notification for safety.
	350-1000	Z-1	Non-hazardous, but Class I (or special Class II) disposal site.
	>1000	Z-2	Hazardous. Class I disposal site, all other Title 22 CCR requirements apply.
>5.0	0-350	Y	Hazardous. Variance applies. Use material on the job.
		Z-2	Hazardous. Variance applies. Surplus material. Class I disposal site.
	>350	Z-2	Hazardous. Class I disposal site, all other Title 22 CCR requirements apply.
Federal Testing			
>5.0	N/A	Z-3	Class I disposal site, RCRA.

USE THIS

AERIALLY DEPOSITED LEAD INVESTIGATION REPORT

**LA ROUTE 405 (KP 64.5/74.4)
LOS ANGELES COUNTY, CALIFORNIA
CONTRACT NO. 43A0078
TO NO. 07-218301-QY
EA 218301**



GEOCON

CONSULTANTS, INC

**GEOTECHNICAL
ENVIRONMENTAL
MATERIALS**

PREPARED FOR

**CALIFORNIA DEPARTMENT
OF TRANSPORTATION
DISTRICT 7
LOS ANGELES, CALIFORNIA**

PREPARED BY

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GEOCON PROJECT NO. 09100-06-57

JANUARY 7, 2003



Project No. 09100-06-57
TO No. 07-218301-QY
EA 218301
January 7, 2003

OVERNIGHT DELIVERY

Ms. Martha Ayoub
California Department of Transportation
District 7, Office of Environmental Planning
120 South Spring Street, MS 16
Los Angeles, California 90012

Subject: AERIALY DEPOSITED LEAD INVESTIGATION REPORT
LA ROUTE 405 (KP 64.5/74.4)
LOS ANGELES COUNTY, CALIFORNIA
CONTRACT NO. 43A0078
TO NO. 07-218301-QY
EA 218301

Dear Ms. Ayoub:

In accordance with Caltrans Contract No. 43A0078 and Task Order No. 07-218301-QY dated October 15, 2002, Geocon Consultants, Inc. has performed an aerially deposited lead (ADL) investigation at the site consisting of the exposed soil up to 1.5 meters from the edge of the traveled way along Route 405 (KP 64.5/74.4) at twenty locations within the County of Los Angeles. The accompanying report summarizes the services performed, including the advancement of hand-auger borings, limited soil sampling, laboratory analyses, statistical analyses, and Geographical Information Systems (GIS) Surveying. Please call us if you have any questions.

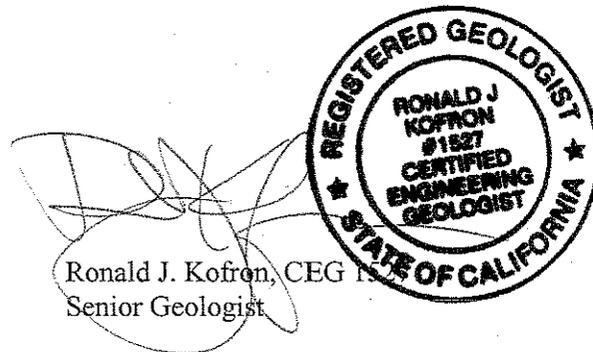
Sincerely,

GEOCON CONSULTANTS, INC.


Christopher S. King
Senior Staff Engineer

CSK:RJK:sc

(3) Addressee



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Senior Geologist

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I. EXECUTIVE SUMMARY

Geocon Consultants, Inc. (Geocon) has performed an aerially deposited lead (ADL) investigation at the site consisting of the exposed soil up to 1.5 meters (m) from the edge of the traveled way along Route 405 (KP 64.5/74.4) at twenty locations within the County of Los Angeles. The California Department of Transportation (Caltrans) proposes to excavate soil at the site as part of a landscaping remediation project.

The investigation was performed to evaluate the presence of lead resulting from the historical combustion of leaded fuels from freeway traffic. Data from the investigation was used to evaluate the potential re-use or disposal considerations for soil excavated at the site, and to inform Caltrans of potential health and safety issues concerning the presence of lead in soil for workers at the site during construction activities.

Soil samples collected from the site were subsequently analyzed for total lead, soluble lead using the Waste Extraction Test (WET) method using citric acid as the extractant, and soluble lead using a modified WET method using deionized water (WET-DI) as the extractant. In addition, selected soil samples were analyzed for soluble lead using the Toxicity Characteristic Leaching Procedure (TCLP) method, and soil pH.

Laboratory analytical results and statistical analysis using one-sided 90% upper confidence limits (UCLs) were compared to the guidelines of the Department of Toxic Substances Control (DTSC) Lead Variance issued to Caltrans and Assembly Bill 414 to develop recommendations for re-use of soil from each area. Offsite disposal conclusions were based upon comparison of the total lead 95% UCLs to the California Health and Safety Code (HSC) threshold of 350 milligrams per kilogram (mg/kg) and predicted WET-Citric results to the California Code of Regulations (CCR) Title 22 soluble lead threshold of 5 mg/l. These conclusions are presented below:

GROUPS 2, 3, 4, 6, 7, 9, 11, 12, 13, 14, 16, 19, and 20

Based upon the 90% arcsine transformed UCLs and average WET-DI concentrations, all soils up to 0.3 m beneath the surface would likely be suitable for re-use according to the DTSC Variance for Caltrans, dated September 22, 2000. Based upon the 95% arcsine transformed UCLs and predicted WET-Citric results, any portion of the upper 0.3 m of soil excavated from the site would likely be classified as a hazardous material with respect to total and/or soluble lead content.

If any portion of the upper 0.3 m of soil is to be re-used on-site, it should be covered by a minimum of 0.3 m non-hazardous soil or a pavement structure and placed at least 1.5 m above the maximum groundwater elevation in accordance with the DTSC Variance. Caltrans should notify the contractors performing the construction activities that hazardous concentrations of lead may be present in onsite soil and that appropriate health and safety measures should be taken to minimize the exposure to lead.

GROUPS 1, 10, 15, and 18

Based upon the 90% arcsine transformed UCLs and average WET-DI concentrations, all soils up to 0.3 m beneath the surface would likely be suitable for re-use according to the DTSC Variance. Based upon the 95% arcsine transformed UCLs and predicted WET-Citric results, any portion of the upper 0.3 m of soil excavated from the site would likely be classified as a hazardous material with respect to lead content.

If any portion of the upper 0.3 m of soil excavated is to be re-used on-site, it should be covered by a pavement structure and placed at least 1.5 m above the maximum groundwater elevation in accordance with the DTSC Variance. Caltrans should notify the contractors performing the construction activities that hazardous concentrations of lead may be present in onsite soil and that appropriate health and safety measures should be taken to minimize the exposure to lead.

GROUP 5

Based upon the 90% arcsine transformed UCLs and average WET-DI concentrations, the upper 0.15 m of soil excavated from the site would not likely be suitable for re-use according to the DTSC Variance. The underlying soil from a depth of 0.15 m to 0.3 m would likely be suitable for re-use according to the DTSC Variance. If the entire column to a depth of 0.3 m is handled as a single unit, it would not likely be suitable for re-use according to the DTSC Variance. Based upon the 95% arcsine transformed UCLs and predicted WET-Citric results, any portion of the upper 0.3 m of soil excavated from the site would likely be classified as a hazardous material with respect to total and soluble lead.

If the soil excavated from a depth of 0.15 m to 0.3 m is to be re-used on-site, it should be covered by a minimum of 0.3 m non-hazardous soil or a pavement structure and placed at least 1.5 m above the maximum groundwater elevation in accordance with the DTSC Variance. Caltrans should notify the contractors performing the construction activities that hazardous concentrations of lead may be present in onsite soil and that appropriate health and safety measures should be taken to minimize the exposure to lead.

GROUP 8

Based upon the 90% arcsine transformed UCLs and average WET-DI concentrations, all soils up to 0.3 m beneath the surface would likely be suitable for re-use according to the DTSC Variance. Based upon the 95% arcsine transformed UCLs and predicted WET-Citric results, the upper 0.15 m of soil excavated from the site would likely be classified as a hazardous material with respect to total and soluble lead. The underlying soil from a depth of 0.15 m to 0.3 m would likely be classified as a non-hazardous material with respect to lead content. If the entire soil column to a depth of 0.3 m is treated as a single unit, it would likely be classified as a hazardous material with respect to soluble lead content.

If any portion of the upper 0.3 m of soil excavated is to be re-used on-site, it should be covered by a minimum of 0.3 m non-hazardous soil or a pavement structure and placed at least 1.5 m above the maximum groundwater elevation in accordance with the DTSC Variance. Caltrans should notify the contractors performing the construction activities that hazardous concentrations of lead may be present in onsite soil and that appropriate health and safety measures should be taken to minimize the exposure to lead.

GROUP 17

Based upon the 90% arcsine transformed UCLs and average WET-DI concentrations, all soils up to 0.3 m beneath the surface would likely be suitable for re-use according to the DTSC Variance. Based upon the 95% arcsine transformed UCLs and predicted WET-Citric results, the upper 0.15 m of soil excavated from the site would likely be classified as a hazardous material with respect to soluble lead. The underlying soil from a depth of 0.15 m to 0.3 m would likely be classified as a non-hazardous material with respect to lead content. If the entire soil column to a depth of 0.3 m is treated as a single unit, it would likely be classified as a non-hazardous material with respect to total and soluble lead content.

If any portion of the upper 0.3 m of soil excavated is to be re-used on-site, it should be covered by a minimum of 0.3 m non-hazardous soil or a pavement structure and placed at least 1.5 m above the maximum groundwater elevation in accordance with the DTSC Variance. Caltrans should notify the contractors performing the construction activities that hazardous concentrations of lead may be present in onsite soil and that appropriate health and safety measures should be taken to minimize the exposure to lead.

AERIALLY DEPOSITED LEAD INVESTIGATION REPORT

1. INTRODUCTION

1.1 Project Description and Objectives

Geocon has performed an aerially deposited lead (ADL) investigation at the site consisting of the exposed soil up to 1.5 m from the edge of the traveled way along Route 405 (KP 64.5/74.4) in the County of Los Angeles. (Figure 1).

The objective of the ADL investigation was to evaluate soil at the site for the presence of lead resulting from the historical combustion of leaded fuels from freeway traffic. The information obtained from the limited soil sampling and laboratory testing was used to determine the method of re-use or disposal of soil excavated during the proposed construction activities at the site. The data was also used to inform Caltrans of potential health and safety issues for workers at the site during construction activities. For the purpose of this ADL investigation, all locations were treated as separate areas of investigation.

1.2 Scope of Work

Geocon performed the following tasks:

1.2.1 Pre-field Activities

- Attended a Task Order (TO) meeting on October 22, 2002, to discuss issues such as field methods, boring locations, health and safety measures, and the completion schedule.
- Prepared a Health and Safety Plan (HSP) dated October 25, 2002, for the proposed activities. The Health and Safety Plan included guidelines for the use of personal protective equipment for Geocon employees during the field activities. The HSP specifies the safety procedures for work to be performed at the site, chemical hazard information, site safety officers, and medical emergency locations. The HSP was prepared as required by Contract 43A0078 in general accordance with 29 CFR 1910.120 and CCR Title 8.
- Contacted Underground Service Alert (USA) to notify utility companies of the field activities.

1.2.2 Limited Soil Sampling

A 7.62-centimeter-diameter hand auger was used to collect 204 soil samples from 102 boring locations from the site between October 29 and 31, 2002 (refer to Section 4.2). Boring locations were provided by Caltrans as specified on Attachment D of TO No. 07-218301-QY, dated October 15, 2002, for the

evaluation of the subsurface condition at the site. Borings were advanced to a maximum depth of 0.3 m below the ground surface, and soil samples were collected at 0.15 m and 0.30 m. The approximate boring locations are shown on the Boring Location Map, Figure 2. The borings were subsequently backfilled with the soil cuttings generated.

1.2.3 Laboratory Analyses

Geocon submitted the soil and water samples under chain of custody procedures to Advanced Technology Laboratories (ATL), a California Department of Health Services (CDOHS)-certified analytical laboratory. All soil samples were analyzed for total lead following United States Environmental Protection Agency (EPA) Test Method 6010B. Soil samples exhibiting total lead concentrations greater than or equal to 50 milligrams per kilograms (mg/kg) and less than 1,000 mg/kg were analyzed for soluble lead following EPA Test Method 7420 using the WET-Citric method. Samples exhibiting WET-Citric concentrations greater than or equal to 5 milligrams per liter (mg/l) were analyzed for soluble lead following EPA Test Method 7420 using the WET-DI method. Twenty-five percent of the samples collected from each group were analyzed using the TCLP method. In addition, ten percent of the soil samples were analyzed for pH following EPA Test Method 9045.

Decontamination water samples were analyzed for total lead using EPA Test Method 6010B.

1.2.4 GIS Surveying

Each boring location was recorded using a Global Positioning System (GPS) receiver. Data was recorded using the Axis III™ receiver system, using State Plane 83 coordinates, with the IMAP™ software package. Boring location coordinates, in latitude and longitude, are provided in Appendix A.

1.2.5 Report Preparation

This report was prepared as outlined in Contract No. 43A0078 and in TO No. 07-218301-QY, summarizing the results of the aerially deposited lead investigation activities requested by Caltrans.

1.3 Previous Site Investigations

Geocon has not performed a previous investigation at the site. In addition, Caltrans has not notified Geocon of previous investigations performed at the site.

2. BACKGROUND

2.1 Aerially Deposited Lead in Soil

Testing by Caltrans throughout the State has shown that aerially deposited lead exists in soil along major freeway routes resulting from automobile exhaust containing lead from the combustion of leaded gasoline. Elevated lead concentrations are generally found within 9.1 m of the edge of pavement and within the top 0.15 m of soil. Elevated lead concentrations can also be present as deep as 0.60 to 0.90 m below the surface. The concentration and distribution of aerially deposited lead in soil is dependent on many variables, but in general, traffic volume and age of a highway are the 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 Total Threshold Limit Concentration (TTLC); or (2) the soluble metal content exceeds the Soluble Threshold Limit Concentration (STLC) based on a Waste Extraction Test (WET) analysis. A material is classified as “RCRA hazardous” when the soluble metal content exceeds the Federal Regulatory Level based on TCLP testing.

The above regulatory criteria are based on toxicity. Wastes may also be classified as hazardous based on other criteria including ignitability, toxicity, corrosivity, and reactivity. However, for the purposes of ADL investigations, toxicity and corrosivity (i.e., 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 approved disposal facility.

According to §25157.8 of the HSC, after January 1, 1999, no person shall dispose of waste that contains total lead in excess of 350 mg/kg to land other than a Class I hazardous waste disposal facility.

2.3 DTSC Variance

The DTSC issued a variance to selected Caltrans Districts on September 22, 2000, to provide guidance for the disposition of soil containing ADL within Caltrans projects. The California State Assembly passed Assembly Bill (AB) 414 dated October 14, 2001 which allows Caltrans to re-use lead impacted soil with their right-of-ways provided that total lead concentrations do not exceed 1,496 mg/kg. Review of the variance and AB 414 indicates the following conditions regarding Caltrans' re-use and management of ADL impacted soil as fill material for construction and maintenance operations.

2.3.1 Condition 1

Soil exhibiting soluble lead concentrations less than or equal to 0.5 mg/l (WET-DI) and total lead concentrations of 1,496 mg/kg or less may be used as fill provided that the soil containing ADL is placed a minimum of 1.5 m above the maximum water table elevation and covered with at least 0.3 m of non-hazardous soil. However, ADL impacted soil with pH less than 5.0 shall only be used as fill material under the paved portion of the freeway, as specified in Condition 3 below.

2.3.2 Condition 2

Soil exhibiting soluble lead concentrations greater than 0.5 mg/l (WET-DI) and total lead concentrations of 1,496 mg/kg or less may be used as fill provided that the soil containing ADL is placed a minimum of 1.5 m above the maximum water table elevation and protected from infiltration by a pavement structure maintained by Caltrans.

ADL impacted soil with a pH less than 5.0 shall only be used as fill material under the paved portion of the freeway.

2.3.3 Condition 3

Contaminated soil with a pH less than 5.0 may be used as fill material only under the paved portion of the roadway. Condition 3 prevails under either Condition 1 or 2.

2.4 Criteria For Disposal Of Soil Not Intended For Re-use Onsite

If the excavated soil is not intended to be re-used within the Caltrans right-of-way, then hazardous waste determination of the soil is based on total and soluble lead concentrations using the lead TTLC and STLC contained in Title 22 of the CCR Article 3, §66261.24. When the total lead concentration is greater than ten times the lead STLC, regulatory agencies typically initiate the requirement for WET

using citric acid. It is the result from the WET that is compared to the STLC value. The TTLC value for lead is 1,000 mg/kg and the STLC for lead using acid extract is 5.0 mg/l. However, as previously indicated, disposal of waste that contains total lead in excess of 350 mg/kg to land other than a Class I hazardous waste disposal facility (or other designated facility meeting all the criteria in HSC 25157.8(3)(b)) is prohibited.

3. INVESTIGATIVE METHODS

3.1 Field Methods

3.1.1 Soil Sampling

Soil sampling and handling methods used by Geocon to complete this TO are outlined in the following modified Geocon Standard Operating Procedures (SOPs) presented as Appendix B:

- Modified SOP No. 11 - Hand-Augering and Soil Sample Collection/Handling Procedures

3.1.2 Decontamination Water

All liquids resulting from cleaning of sampling equipment were disposed of on-site by measures specified on page 6 of the TO. Care was taken to prevent the liquids from entering storm drains.

3.2 Deviations from Work Plan

Geocon performed the scope of work generally described in the TO.

4. INVESTIGATIVE RESULTS AND FIELD OBSERVATIONS

4.1 Site Geology and Hydrology

The soil conditions encountered consisted generally of loose to medium dense, dry to moist, brown to dark-brown, fine to coarse grained silty sand with some cobbles. Groundwater was not encountered in the hand auger borings.

4.2 Analytical Laboratory Results

A summary of the results of the laboratory analyses for total lead, WET-Citric, WET-DI, TCLP, and pH is presented in Table I. Reproductions of the laboratory reports and chain-of-custody documentation are presented as Appendix C. All analyses were processed using laboratory five

business day turn around times. Soil sample analytical results for the groups are summarized as follows (see Section 1.2.3 for analytical methods used).

Group	Total Lead Samples (Range [mg/kg])	WET-CITRIC Samples (Range [mg/l])	WET-DI Samples (Range [mg/l])	pH Samples (Range)	TCLP Samples (Range [mg/l])
1	8 (200-1,000)	7 (17-120)	7 (ND-1.6)	4 (7.32-8.14)	2 (1.5-2.2)
2	8 (37-1,100)	5 (4-73)	4 (ND-0.33)	4 (7.73-8.61)	2 (1.7-5.8)
3	14 (12-530)	11 (4.1-34)	10 (ND-0.37)	4 (6.89-7.19)	4 (ND-1.5)
4	18 (18-490)	11 (0.74-38)	7 (ND-0.28)	4 (6.85-7.94)	5 (0.25-0.73)
5	8 (70-6,400)	5 (6.7-90)	5 (ND-0.83)	4 (6.97-8.1)	2 (4.2-6.7)
6	8 (62-390)	8 (0.91-59)	6 (ND-0.53)	4 (6.15-7.65)	2 (0.5-0.84)
7	8 (13-240)	4 (2.5-6.9)	2 (ND)	4 (6.88-8.34)	2 (0.3-0.37)
8	10 (13-500)	6 (2.7-28)	4 (ND-1.0)	4 (6.38-7.68)	3 (0.32-1.7)
9	8 (49-530)	7 (14-45)	6 (ND-0.62)	4 (7.08-8.97)	2 (2.0-2.8)
10	8 (56-1,200)	6 (3.5-130)	5 (0.23-2.6)	4 (7.42-8.16)	2 (1.6-3.4)
11	14 (20-1,500)	11 (2.2-43)	8 (ND-0.38)	4 (6.59-7.37)	5 (0.46-1.1)
12	12 (9-360)	7 (0.88-25)	2 (ND-0.27)	4 (6.17-7.82)	3 (ND-0.48)
13	16 (15-330)	10 (1.9-51)	7 (ND-0.52)	4 (6.14-7.08)	4 (0.24-0.69)
14	16 (6.4-1,000)	10 (2.7-30)	7 (ND-0.62)	4 (5.76-6.94)	4 (0.33-3.6)
15	8 (23-660)	6 (5.2-51)	6 (ND-1.10)	4 (6.36-8.28)	2 (0.8-0.64)
16	8 (39-360)	7 (5.2-29)	7 (ND-0.38)	4 (6.31-7.76)	2 (0.23-0.33)
17	8 (5.4-100)	5 (2.3-5.4)	2 (ND)	4 (7.05-8.22)	2 (ND-0.23)
18	8 (17-670)	4 (7.4-70)	4 (ND-2.30)	4 (7.71-8.29)	2 (0.5-5.6)
19	8 (14-130)	6 (2.5-7.6)	2 (ND)	2 (0.3-0.42)	4 (7.52-8.82)
20	8 (ND-110)	4 (1.7-7.1)	2 (ND)	4 (7.52-8.82)	4 (7.6-8.58)

Notes: ND for Total lead = 5 mg/kg
 ND for WET-CITRIC, WET-DI, and TCLP = 0.2 mg/l
 --- = samples not analyzed

4.3 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 successive rinses in tap and deionized water. Geocon considers the field investigation 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.

5. DATA EVALUATION

5.1 Lead Distribution Analysis

The results of the analytical testing indicates that 41 soil samples collected from the site are above the California disposal threshold of 350 mg/kg for total lead content and 104 samples were above the STLC maximum concentration of 5 mg/l. Nine samples exhibited total lead concentrations above the TTLC maximum threshold of 1,000 mg/kg. Three samples exhibited TCLP results above the threshold of 5 mg/l. The distributions of samples exceeding these regulatory criteria are summarized in the table below:

Group	Soil Samples Analyzed	Samples Exceeding 350 mg/kg Total Lead	Samples Exceeding 1,000 mg/kg Total Lead	Samples Exceeding 5 mg/l Soluble Lead (WET-Citric)	Samples Exceeding 5 mg/l Soluble Lead (TCLP)
1	8	6	0	7	0
2	8	3	1	4	1
3	14	3	0	10	0
4	18	3	0	7	0
5	8	4	3	4	1
6	8	1	0	6	0
7	8	0	0	2	0
8	10	1	0	4	0
9	8	5	0	7	0
10	8	4	1	5	0
11	14	3	1	8	0
12	12	1	0	1	0
13	16	0	0	7	0
14	16	2	0	7	0
15	8	3	0	6	0

Group	Soil Samples Analyzed	Samples Exceeding 350 mg/kg Total Lead	Samples Exceeding 1,000 mg/kg Total Lead	Samples Exceeding 5 mg/l Soluble Lead (WET-Citric)	Samples Exceeding 5 mg/l Soluble Lead (TCLP)
16	8	1	0	7	0
17	8	0	0	2	0
18	8	1	0	4	1
19	8	0	0	2	0
20	8	0	0	2	0

5.2 Statistical Evaluation Methods

The analytical laboratory results were evaluated statistically to examine the appropriate method of re-use or offsite disposal of the soils. Prior to performing the following calculations, analytical results reported as below the detection limit were assigned a value of one-half the detection limit. Statistical methods were applied to the lead data set collected adjacent to the site to evaluate: 1) if an acceptable correlation between total and soluble lead concentrations exists that would allow the prediction of soluble lead concentrations based on calculated UCLs; 2) the total lead data population distribution, and 3) the one-sided upper confidence limits (UCLs) on the true means of the total lead concentrations for different soil mixing scenarios.

5.3 Data Correlation

A test for data correlation is used to verify the integrity of the equation used to predict soluble lead concentrations. An acceptable correlation should have a correlation coefficient ("r") of 0.8 or greater between total and soluble lead (WET-citric) analytical results. All data sets exhibited correlation coefficients greater than 0.8 with the exception of Group 20. The data set from Group 20 contained only four samples, one of which was a statistical outlier and was removed from the regression calculation. The remaining three sample results produced a correlation coefficient of 0.72 which is below the required 0.80. However, based upon the limited number of samples, the prediction model was used despite the correlation coefficient being below the required value.

The correlation coefficients for each group are discussed in Section 6.0 of this report.

5.4 Regression Analysis

A linear regression analysis is necessary to create a soluble lead prediction model for use with the 90% and 95% UCLs. The model is created by plotting the total lead and soluble lead (WET-Citric) paired

data points on a scatter plot chart. A linear regression line is then added to the chart using the equation:

$$y = mx + b$$

where:

y = *WET Citric result, mg/l*
x = *total lead result, mg/kg*
b = *the y-intercept*

$$m = \text{Slope} = \frac{r \times s_t}{s_s}$$

where:

r = *correlation coefficient*
s_t = *standard deviation of the total lead results*
s_s = *standard deviation of the soluble lead results*

The linear equation corresponding to the regression line is then used to predict a soluble lead concentration for the statistical total lead UCLs. The integrity of the equation is directly related to the correlation coefficient described in Section 5.3

5.5 Population Distribution

A test for population distribution is necessary to apply the appropriate methods when examining the UCLs on the true total lead means. When evaluating the distribution of total lead concentrations, all total lead data from each area were treated as one data set. In accordance with *Chapter Nine, SW-846, 3rd Edition, U.S. Environmental Protection Agency, 1986, (Chapter Nine, SW-846)* distribution was evaluated by comparing the mean versus the variance of the total lead data sets. If the mean was greater than the variance, the data set was assumed to be normally distributed and transformation was not performed. If the mean was less than the variance, the data set was transformed using an arcsine conversion. If the mean was approximately equal to the variance the data set was transformed using a square-root conversion.

5.6 Calculating the Upper Confidence Limits for the True Mean

Statistical confidence limits are the classical tool for addressing uncertainties of a distribution mean. The UCLs of the true mean concentration are used as the mean concentrations because it is not possible to know the true mean. The UCLs therefore account for uncertainties due to limited sampling

data. As more data are available for a given site, uncertainty decreases and the UCLs move closer to the true mean.

A 90% UCL is desired if the soil is to be re-used on-site and a 95% UCL is desired if the soil is to be disposed of offsite or relinquished to a contractor as described in TO No. 07-218301-QY. The maximum 90% UCL allowed for re-use of on-site soil is 1,496 mg/kg and the maximum 95% UCL allowed for disposal is 350 mg/kg. The one-sided 90 and 95% UCLs of the true 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. The following statistical equation (from *Chapter Nine, SW-846*) was used to calculate the UCLs:

$$UCL = \bar{x} + t_p \frac{S}{\sqrt{n}}$$

Where:

- \bar{x} = sample mean
- t_p = student's t for a one-tailed confidence interval and a probability of p
- S = standard deviation
- n = number of samples

For the purpose of this investigation, the samples were assumed to be collected using systematic random sampling. *Chapter Nine of SW-846* indicates a statistical transformation should be used if the data set is not normally distributed, and statistical evaluations should be performed on the transformed scale. Based on calculation of the mean and variance of the data sets and visual interpretation of the data, the data sets should be transformed.

The mean was less than the variance for the non-transformed data indicating that the data set was not normally distributed and transformation was necessary. The raw data were transformed using the arcsine transformation. The arcsine transformation was accomplished by dividing each total lead result by the maximum concentration (this results in a data set of all numbers falling between 0 and 1), calculating the arcsine of the quotient. ($y_i = \arcsine(x_i/x_{max})$), performing the statistical calculations on the transformed data, and finally re-converting the result to real numbers ($z_i = x_{max} \sin y_i$).

In order to evaluate different soil excavation scenarios, different UCLs were calculated. Data from Groups 1 through 20 were each divided into the following two data sets:

- Total lead concentrations for soil samples collected from 0 to 0.15 m (Data Set A), and
- Total lead concentrations for soil samples collected from 0.15 to 0.30 m (Data Set B).

Using the data sets above, the following UCLs for the true means were calculated for Groups 1 through 20:

- UCL for the top 0.15 m of soil (Data Set A) and the UCL for the underlying soil (Data Sets B), and
- UCL for the entire 0.3 m soil column (Data Sets A and B).

For reference, tables summarizing the results of the 90% and 95% UCLs and predicted soluble lead concentrations presented below along with re-use and disposal conditions. Additional soil excavation and mixing scenarios can be found on the Block Diagram in Appendix D.

90% UCL Lead Analysis and Soil Management Summary

Group	Soil Interval (m)	Total Lead 90% UCL (mg/kg)	Within Variance?	Soluble Lead WET-DI (mg/l)	DTSC Variance Condition
1	0 – 0.15	975.0	Yes	0.67	Condition 2
2	0 – 0.15	1040.2	Yes	0.21	Condition 1
3	0 – 0.15	404.5	Yes	0.14	Condition 1
4	0 – 0.15	359.3	Yes	0.13	Condition 1
5	0 – 0.15	5617.6	No	0.36	N/A
6	0 – 0.15	357.2	Yes	0.31	Condition 1
7	0 – 0.15	215.3	Yes	0.10	Condition 1
8	0 – 0.15	388.0	Yes	0.39	Condition 1
9	0 – 0.15	437.2	Yes	0.39	Condition 1
10	0 – 0.15	1148.3	Yes	1.12	Condition 2
11	0 – 0.15	910.4	Yes	0.19	Condition 1
12	0 – 0.15	140.4	Yes	0.19	Condition 1
13	0 – 0.15	246.8	Yes	0.16	Condition 1
14	0 – 0.15	447.6	Yes	0.20	Condition 1
15	0 – 0.15	615.9	Yes	0.57	Condition 2
16	0 – 0.15	343.6	Yes	0.21	Condition 1
17	0 – 0.15	94.3	Yes	0.10	Condition 1
18	0 – 0.15	236.4	Yes	0.70	Condition 2
19	0 – 0.15	94.5	Yes	0.10	Condition 1
20	0 – 0.15	102.4	Yes	0.10	Condition 1
1	0 – 0.3	855.1	Yes	0.67	Condition 2
2	0 – 0.3	722.6	Yes	0.21	Condition 1
3	0 – 0.3	310.0	Yes	0.14	Condition 1
4	0 – 0.3	231.3	Yes	0.13	Condition 1
5	0 – 0.3	3,252.2	No	0.36	N/A
6	0 – 0.3	298.0	Yes	0.31	Condition 1

Group	Soil Interval (m)	Total Lead 90% UCL (mg/kg)	Within Variance?	Soluble Lead WET-DI (mg/l)	DTSC Variance Condition
7	0 - 0.3	143.5	Yes	0.10	Condition 1
8	0 - 0.3	224.2	Yes	0.39	Condition 1
9	0 - 0.3	438.4	Yes	0.39	Condition 1
10	0 - 0.3	915.37	Yes	1.12	Condition 2
11	0 - 0.3	515.5	Yes	0.19	Condition 1
12	0 - 0.3	161.2	Yes	0.19	Condition 1
13	0 - 0.3	176.0	Yes	0.16	Condition 1
14	0 - 0.3	386.0	Yes	0.20	Condition 1
15	0 - 0.3	434.0	Yes	0.57	Condition 2
16	0 - 0.3	272.1	Yes	0.21	Condition 1
17	0 - 0.3	77.7	Yes	0.10	Condition 1
18	0 - 0.3	369.6	Yes	0.70	Condition 2
19	0 - 0.3	97.4	Yes	0.10	Condition 1
20	0 - 0.3	78.9	Yes	0.10	Condition 1

95% UCL Lead Analysis and Soil Management Summary

Group	Soil Interval (m)	Total Lead 95% UCL (mg/kg)	Predicted Soluble Lead-95% UCL	Relinquish	Disposal
1	0 - 0.15	998.5	91.97	No	Class I
2	0 - 0.15	1096.7	101.05	No	Class I
3	0 - 0.15	437.0	40.03	No	Class I
4	0 - 0.15	383.8	35.11	No	Class I
5	0 - 0.15	6226.1	575.52	No	Class I
6	0 - 0.15	382.8	35.02	No	Class I
7	0 - 0.15	234.5	21.31	No	Class I
8	0 - 0.15	435.0	38.00	No	Class I
9	0 - 0.15	439.9	38.47	No	Class I
10	0 - 0.15	1199.1	110.82	No	Class I
11	0 - 0.15	1028.4	94.56	No	Class I
12	0 - 0.15	149.2	10.77	No	Class I
13	0 - 0.15	265.6	21.87	No	Class I
14	0 - 0.15	487.6	43.01	No	Class I
15	0 - 0.15	653.0	58.78	No	Class I
16	0 - 0.15	358.7	25.32	No	Class I
17	0 - 0.15	99.0	5.54	No	Class I
18	0 - 0.15	249.2	19.70	No	Class I
19	0 - 0.15	96.0	7.62	No	Class I
20	0 - 0.15	109.0	6.97	No	Class I
1	0 - 0.3	894.1	82.31	No	Class I
2	0 - 0.3	797.9	73.42	No	Class I
3	0 - 0.3	330.8	30.21	No	Class I
4	0 - 0.3	248.6	22.61	No	Class I

Group	Soil Interval (m)	Total Lead 95% UCL (mg/kg)	Predicted Soluble Lead-95% UCL	Relinquish	Disposal
5	0 – 0.3	3,737.6	345.34	No	Class I
6	0 – 0.3	316.9	28.93	No	Class I
7	0 – 0.3	159.0	14.32	No	Class I
8	0 – 0.3	253.3	20.69	No	Class I
9	0 – 0.3	459.9	40.37	No	Class I
10	0 – 0.3	983.7	90.29	No	Class I
11	0 – 0.3	578.6	51.69	No	Class I
12	0 – 0.3	178.0	13.51	No	Class I
13	0 – 0.3	188.4	14.51	No	Class I
14	0 – 0.3	423.7	36.93	No	Class I
15	0 – 0.3	476.3	41.94	No	Class I
16	0 – 0.3	289.9	20.02	No	Class I
17	0 – 0.3	82.8	4.58	Yes	N/A
18	0 – 0.3	417.6	39.50	No	Class I
19	0 – 0.3	103.8	8.50	No	Class I
20	0 – 0.3	85.2	5.84	No	Class I

6. CONCLUSIONS

As with the laboratory analytical results, the data was categorized and evaluated based upon twenty unique investigation areas. Regression analysis charts of total lead vs. soluble lead, and UCLs with corresponding soil excavation scenarios shown in block diagrams are presented as a portion of Appendix D. The correlation factor “r” was calculated to be above the minimum requirement of 0.8 for each of the groups. For reference, the regression analysis chart (see Appendix D) for each group contains the equation for the regression line and the “r” value. Separate conclusions regarding Caltrans right-of-way re-use and offsite disposal were then developed for each area. Re-use conclusions were based upon comparison of the referenced 90% transformed UCLs and average WET-DI analytical results for each area to the DTSC Variance and AB 414. Conclusions for surplus material and material relinquished to the contractor was based upon comparison of the total lead 95% transformed UCLs to the HSC disposal limit of 350 mg/kg and predicted WET-Citric results to the CCR Title 22 soluble lead threshold of 5 mg/l. Although three samples out of fifty four exhibited TCLP results above 5 mg/l, it is unlikely that the soils at the groups would be classified as a RCRA waste; however, additional testing would be required to fully characterize the soil. A summary of the statistical evaluation results and conclusions for each of the twenty areas is provided in the following sections.

6.1 GROUPS 2, 3, 4, 6, 7, 9, 11, 12, 13, 14, 16, 19, and 20

Based upon the 90% arcsine transformed UCLs and average WET-DI concentrations, all soils up to 0.3 m beneath the surface would likely be suitable for re-use according to the DTSC Variance for

Caltrans, dated September 22, 2000. Based upon the 95% arcsine transformed UCLs and predicted WET-Citric results, any portion of the upper 0.3 m of soil excavated from the site would likely be classified as a hazardous material with respect to total and/or soluble lead content.

6.2 GROUPS 1, 10, 15, and 18

Based upon the 90% arcsine transformed UCLs and average WET-DI concentrations, all soils up to 0.3 m beneath the surface would likely be suitable for re-use according to the DTSC Variance. Based upon the 95% arcsine transformed UCLs and predicted WET-Citric results, any portion of the upper 0.3 m of soil excavated from the site would likely be classified as a hazardous material with respect to lead content.

6.3 GROUP 5

Based upon the 90% arcsine transformed UCLs and average WET-DI concentrations, the upper 0.15 m of soil excavated from the site would not likely be suitable for re-use according to the DTSC Variance. The underlying soil from a depth of 0.15 m to 0.3 m would likely be suitable for re-use according to the DTSC Variance. If the entire column to a depth of 0.3 m is handled as a single unit, it would not likely be suitable for re-use according to the DTSC Variance. Based upon the 95% arcsine transformed UCLs and predicted WET-Citric results, any portion of the upper 0.3 m of soil excavated from the site would likely be classified as a hazardous material with respect to total and soluble lead.

6.4 GROUP 8

Based upon the 90% arcsine transformed UCLs and average WET-DI concentrations, all soils up to 0.3 m beneath the surface would likely be suitable for re-use according to the DTSC Variance. Based upon the 95% arcsine transformed UCLs and predicted WET-Citric results, the upper 0.15 m of soil excavated from the site would likely be classified as a hazardous material with respect to total and soluble lead. The underlying soil from a depth of 0.15 m to 0.3 m would likely be classified as a non-hazardous material with respect to lead content. If the entire soil column to a depth of 0.3 m is treated as a single unit, it would likely be classified as a hazardous material with respect to total and soluble lead content.

6.5 GROUP 17

Based upon the 90% arcsine transformed UCLs and average WET-DI concentrations, all soils up to 0.3 m beneath the surface would likely be suitable for re-use according to the DTSC Variance. Based upon the 95% arcsine transformed UCLs and predicted WET-Citric results, the upper 0.15 m of soil

excavated from the site would likely be classified as a hazardous material with respect to soluble lead. The underlying soil from a depth of 0.15 m to 0.3 m would likely be classified as a non-hazardous material with respect to lead content. If the entire soil column to a depth of 0.3 m is treated as a single unit, it would likely be classified as a non-hazardous material with respect to total and soluble lead content.

7. RECOMMENDATIONS

7.1 GROUPS 2, 3, 4, 6, 7, 9, 11, 12, 13, 14, 16, 19, and 20

If any portion of the upper 0.3 m of soil is to be re-used on-site, it should be covered by a minimum of 0.3 m non-hazardous soil or a pavement structure and placed at least 1.5 m above the maximum groundwater elevation in accordance with the DTSC Variance. Caltrans should notify the contractors performing the construction activities that hazardous concentrations of lead may be present in onsite soil and that appropriate health and safety measures should be taken to minimize the exposure to lead.

7.2 GROUPS 1, 10, 15, and 18

If any portion of the upper 0.3 m of soil excavated is to be re-used on-site, it should be covered by a pavement structure and placed at least 1.5 m above the maximum groundwater elevation in accordance with the DTSC Variance. Caltrans should notify the contractors performing the construction activities that hazardous concentrations of lead may be present in onsite soil and that appropriate health and safety measures should be taken to minimize the exposure to lead.

7.3 GROUP 5

If the soil excavated from a depth of 0.15 m to 0.3 m is to be re-used on-site, it should be covered by a minimum of 0.3 m non-hazardous soil or a pavement structure and placed at least 1.5 m above the maximum groundwater elevation in accordance with the DTSC Variance. Caltrans should notify the contractors performing the construction activities that hazardous concentrations of lead may be present in onsite soil and that appropriate health and safety measures should be taken to minimize the exposure to lead.

7.4 GROUP 8

If any portion of the upper 0.3 m of soil excavated is to be re-used on-site, it should be covered by a minimum of 0.3 m non-hazardous soil or a pavement structure and placed at least 1.5 m above the maximum groundwater elevation in accordance with the DTSC Variance. Caltrans should notify the

contractors performing the construction activities that hazardous concentrations of lead may be present in onsite soil and that appropriate health and safety measures should be taken to minimize the exposure to lead.

7.5 GROUP 17

If any portion of the upper 0.3 m of soil excavated is to be re-used on-site, it should be covered by a minimum of 0.3 m non-hazardous soil or a pavement structure and placed at least 1.5 m above the maximum groundwater elevation in accordance with the DTSC Variance. Caltrans should notify the contractors performing the construction activities that hazardous concentrations of lead may be present in onsite soil and that appropriate health and safety measures should be taken to minimize the exposure to lead.

8. REPORT LIMITATIONS

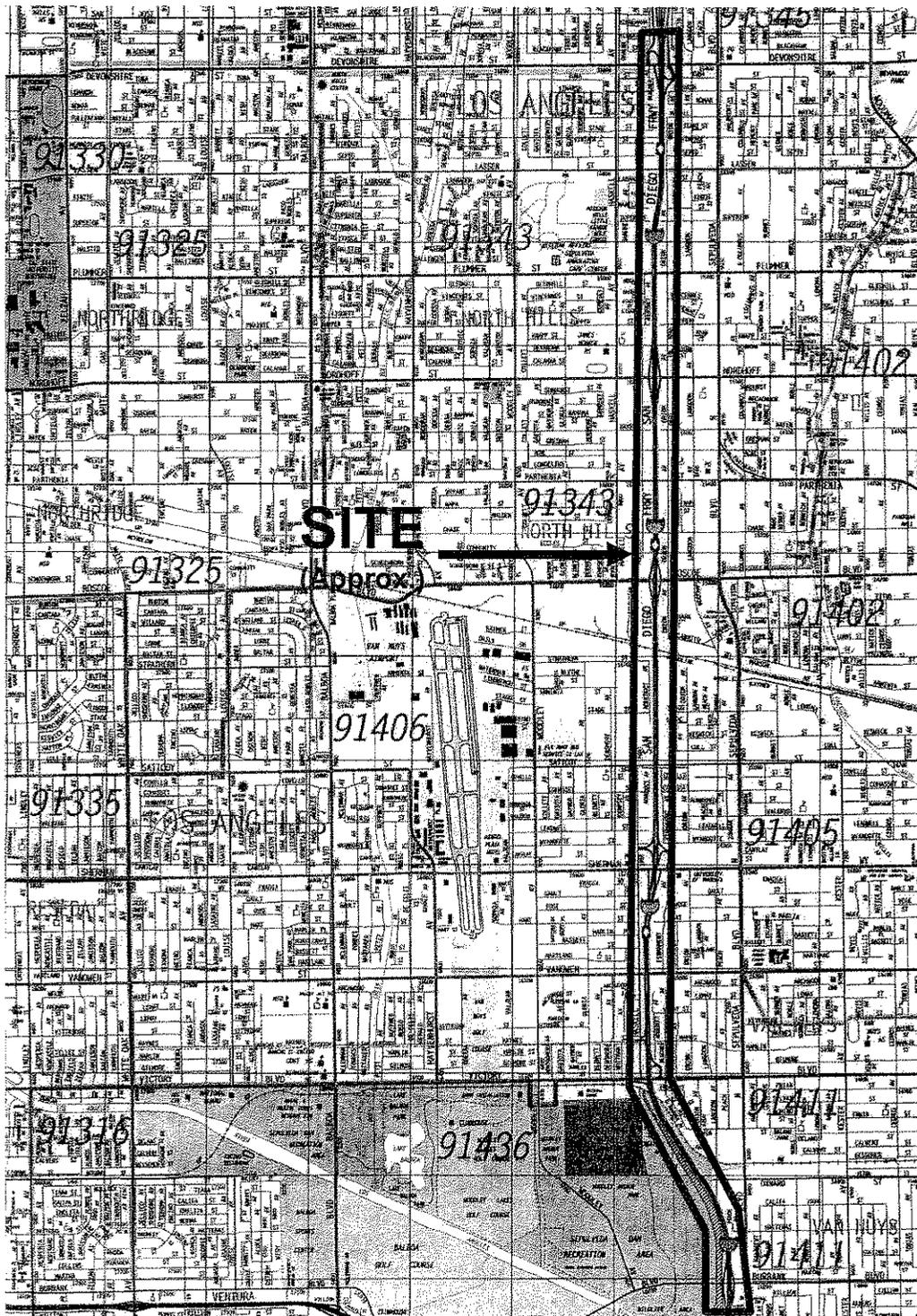
This report has been prepared exclusively for Caltrans. The information obtained is only relevant as of the date of the latest site visit. The information contained herein is only valid as of the date of the report, and will require an update to reflect additional information obtained.

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 disposition and handling of the soil are governed by the California regulations cited above. Characterization of the soil in the study areas for Federal waste criteria was beyond the scope of work in this TO.

Only a limited number of samples were analyzed using the TCLP method used to classify Federal waste. It is possible, that soil disturbed, excavated and stockpiled could exceed Federal standards for hazardous waste and may require handling as a RCRA waste.

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.



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LOS ANGELES AND VENTURA COUNTY, CALIFORNIA

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No Scale

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ENVIRONMENTAL ■ GEOTECHNICAL ■ MATERIALS
6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
PHONE 858 558-6100 - FAX 858 558-8437

MJB:sc

VICINITY MAP

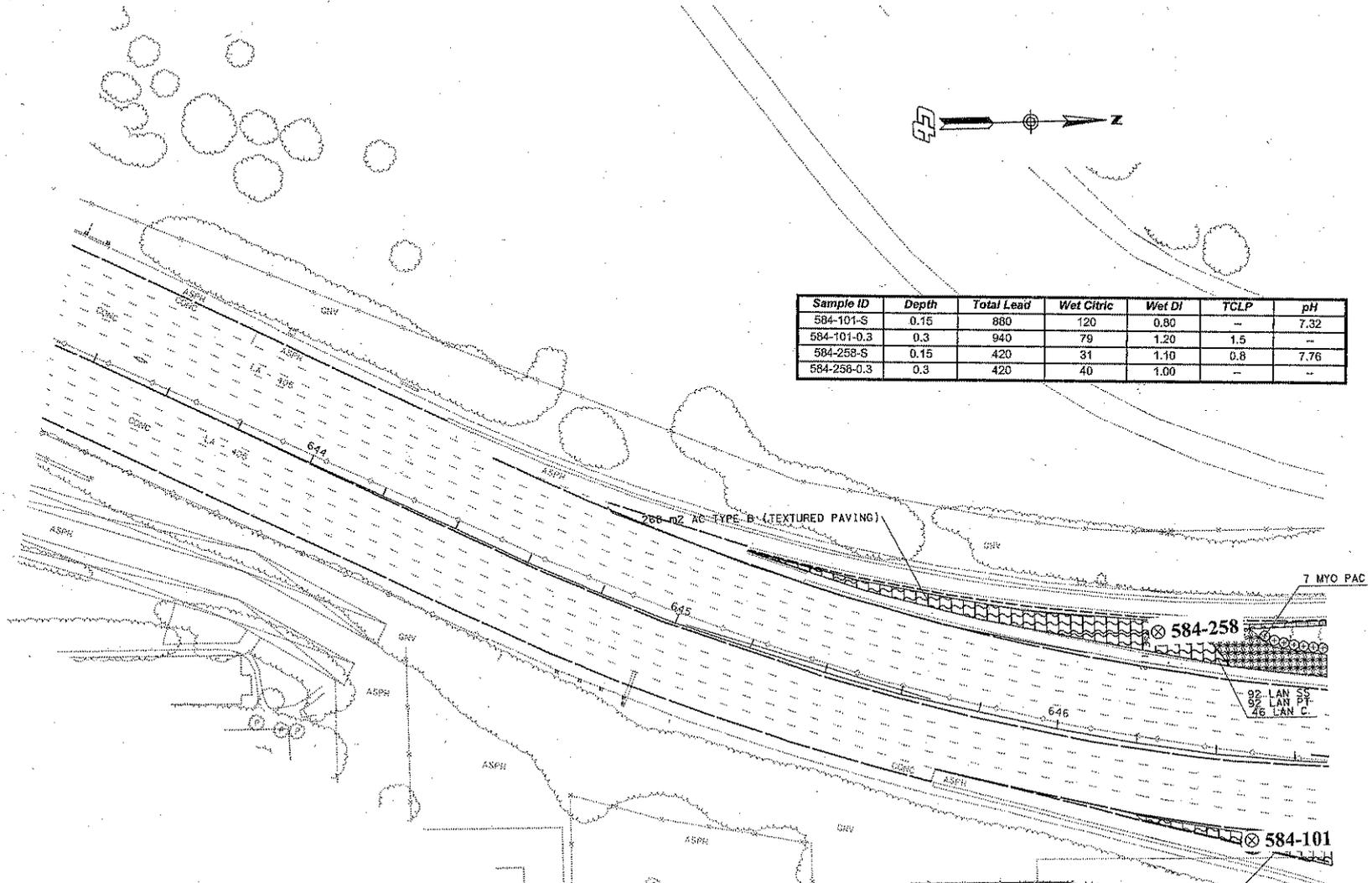
LA ROUTE 405 (KP 64.5/74.4)
LOS ANGELES COUNTY, CALIFORNIA

DATE: 01-07-2003 PROJECT NO. 09100-06-57 FIG. 1

NOTE: EXISTING TREES (AS SHOWN ON PLAN) TO BE PROTECTED AND MAINTAINED.



Sample ID	Depth	Total Lead	Wet Citric	Wet Di	TCLP	pH
584-101-S	0.15	880	120	0.80	--	7.32
584-101-0.3	0.3	940	79	1.20	1.5	--
584-258-S	0.15	420	31	1.10	0.8	7.76
584-258-0.3	0.3	420	40	1.00	--	--



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 PROJECT LANDSCAPE ARCHITECT
 GARY KATO
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BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

GEOCON CONSULTANTS INCORPORATED 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE: 858. 558-6100 - FAX 858. 558-8437	LOS ANGELES COUNTY, CALIFORNIA PROJECT NO. 09100-06-57 FIGURE 2, PLATE 1 DATE: 01-07-2003
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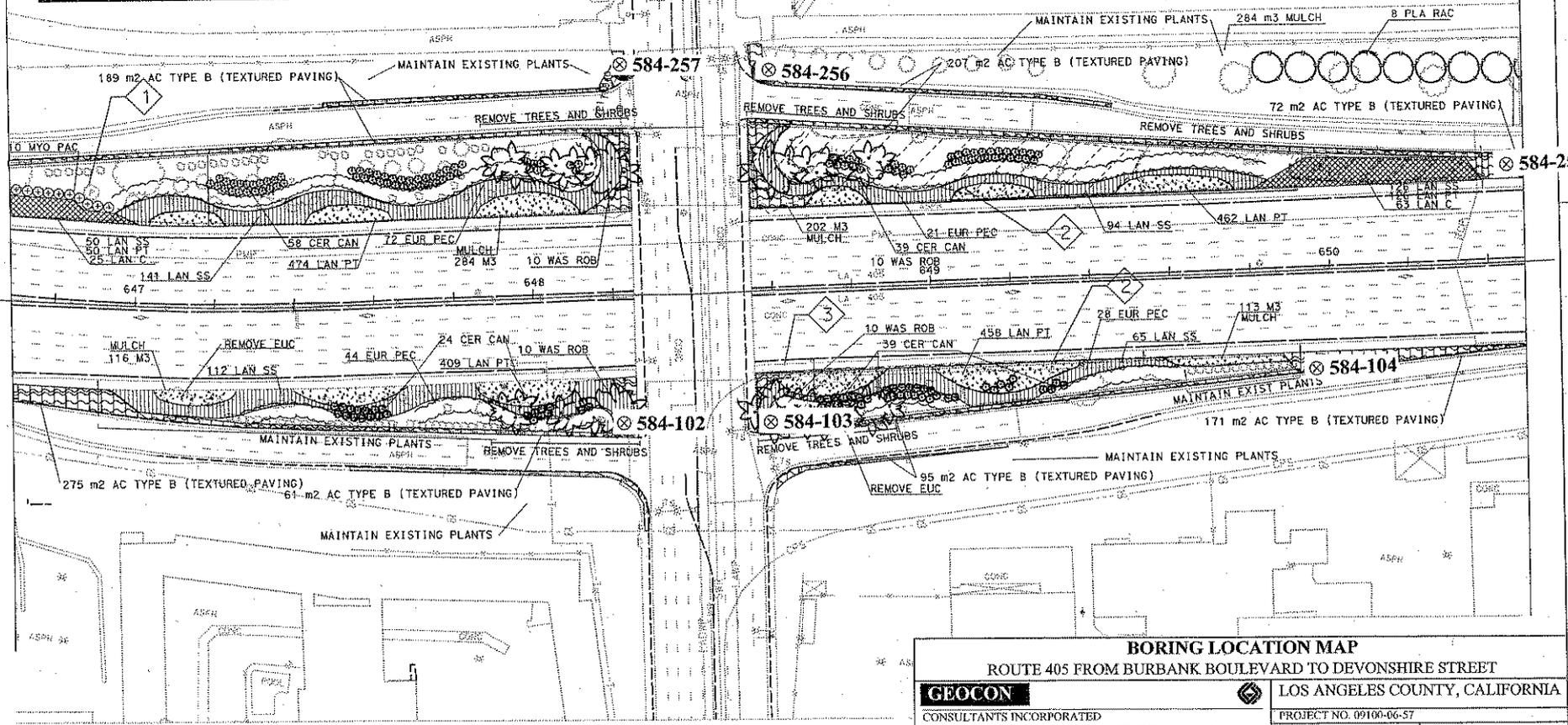
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NOTE: EXISTING TREES (AS SHOWN ON PLAN) TO BE PROTECTED AND MAINTAINED.

Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-102-S	0.15	480	36	0.26	--	7.79
584-102-0.3	0.3	200	17	ND	--	--
584-103-S	0.15	640	81	1.60	--	8.14
584-103-0.3	0.3	270	26	0.47	--	--
584-104-S	0.15	1,000	--	--	2.2	8.06
584-104-0.3	0.3	690	65	0.29	--	--
584-255-S	0.15	210	11	0.41	--	7.74
584-255-0.3	0.3	65	5.2	0.28	--	--
584-256-S	0.15	660	51	0.50	0.84	8.38
584-256-0.3	0.3	23	--	--	--	--
584-257-S	0.15	130	27	ND	--	8.28
584-257-0.3	0.3	28	--	--	--	--



BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

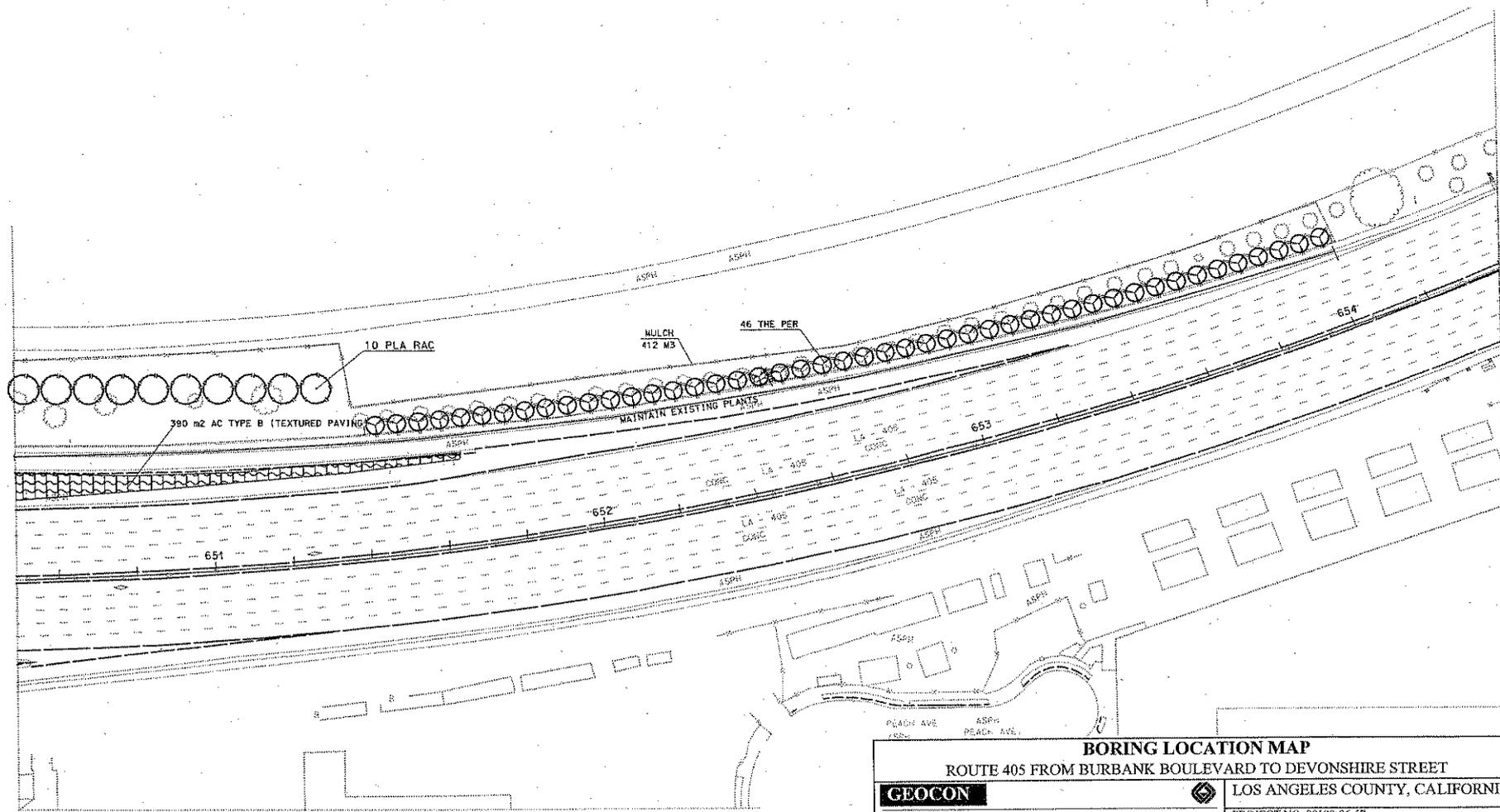
GEOCON CONSULTANTS INCORPORATED 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE 858.558-6100 - FAX 858.558-8437	LOS ANGELES COUNTY, CALIFORNIA
	PROJECT NO. 09160-06-57
	FIGURE 2, PLATE 2 DATE: 01-07-2003

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 PROJECT LANDSCAPE ARCHITECT
 GARY KATO
 LANDSCAPE ARCHITECTURE
 REVISIONS: []
 CHECKED BY: []
 DESIGNED BY: []
 CALCULATED BY: []
 DATE: []
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2003
 DATE PLOTTED: 03-03-03
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Gibbons LANDSCAPE ARCHITECTURE
 PROJECT LANDSCAPE ARCHITECT GARY KATO
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NOTE: EXISTING TREES (AS SHOWN ON PLAN) TO BE PROTECTED AND MAINTAINED.



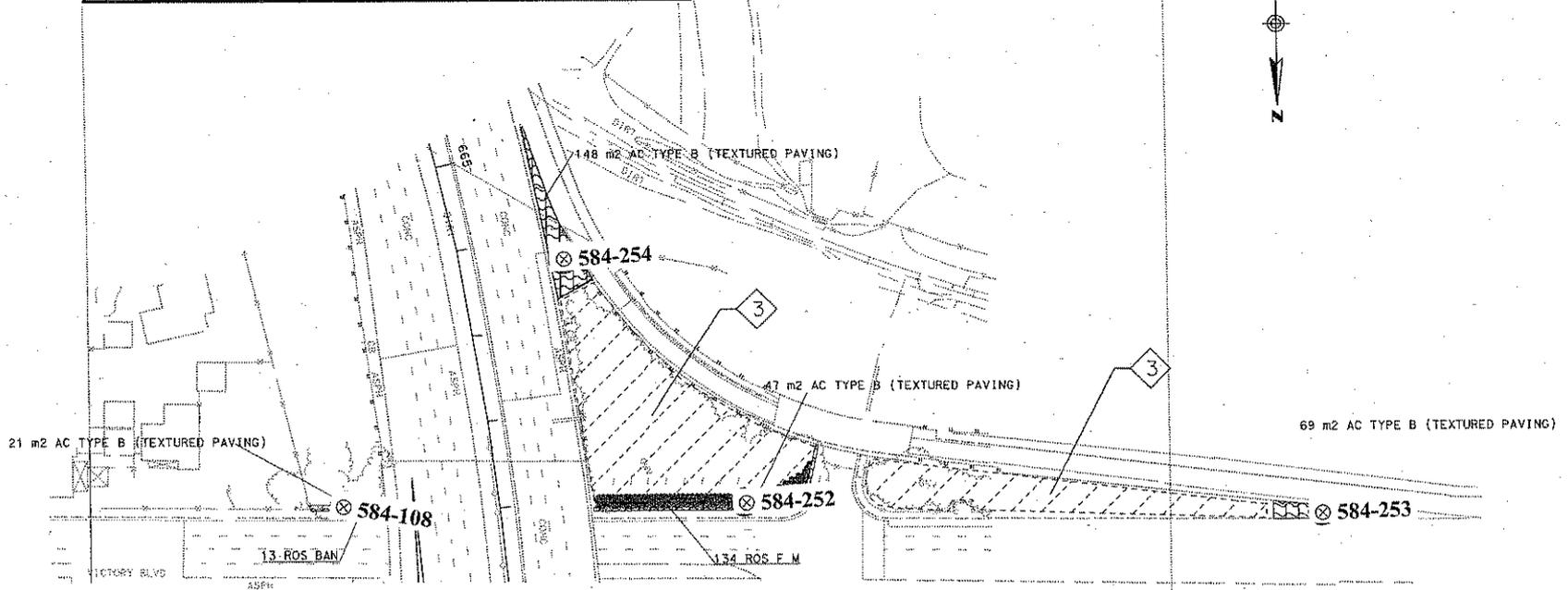
BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

GEOCON CONSULTANTS INCORPORATED 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE 858.558-6100 - FAX 858.558-8437	LOS ANGELES COUNTY, CALIFORNIA
	PROJECT NO. 09100-06-57
	FIGURE 2, PLATE 3
DATE: 01-07-2003	

LAST REVISION DATE PLOTTED 03/19/AUG-2002
 00-00-00 TIME PLOTTED 03/15/46

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Gibbons LANDSCAPE ARCHITECTURE
 PROJECT: LANDSCAPE ARCHITECTURE
 GARY KATO
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 DESIGNED BY: KS
 CALCULATED/DATE: REVISED BY: DATE: REVISED BY: DATE:

Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-108-S	0.15	150	12	0.33	--	8.43
584-108-0.3	0.3	37	--	--	--	--
584-252-S	0.15	320	30	ND	--	--
584-252-0.3	0.3	65	2.7	--	--	--
584-253-S	0.15	260	16	ND	--	--
584-253-0.3	0.3	38	--	--	--	--
584-254-S	0.15	680	57	0.62	--	--
584-254-0.3	0.3	1000	--	--	3.6	--



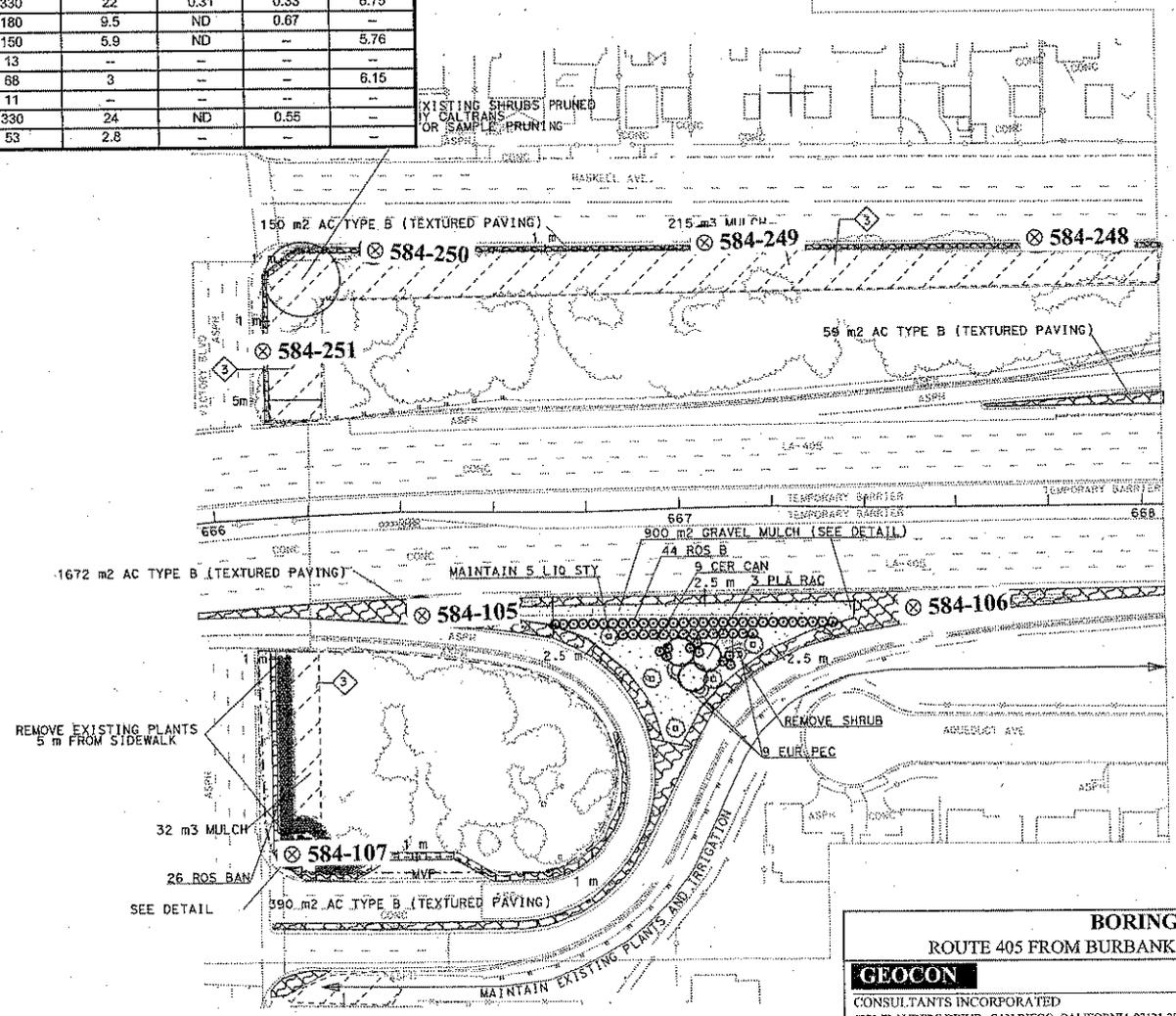
BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

GEOCON	LOS ANGELES COUNTY, CALIFORNIA
CONSULTANTS INCORPORATED 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE 858.558-6100 - FAX 858.558-8437	PROJECT NO. 09100-06-57 FIGURE 2, PLATE 4 DATE: 01-07-2003

DATE PLOTTED => 03-26-2002
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 PROJECT LANDSCAPE ARCHITECT GARY KATO
 CHECKED BY GK
 DESIGNED BY KS
 REVISIONS: DATE REVISIONS BY DATE REVISIONS BY

Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-105-S	0.15	70	4	--	--	8.56
584-105-0.3	0.3	46	--	--	--	--
584-106-S	0.15	1,100	--	--	5.8	8.61
584-106-0.3	0.3	110	5.2	ND	--	--
584-107-S	0.15	840	60	0.29	1.7	7.73
584-107-0.3	0.3	690	73	ND	--	--
584-248-S	0.15	330	22	0.31	0.33	6.75
584-248-0.3	0.3	180	9.5	ND	0.67	--
584-249-S	0.15	150	5.9	ND	--	5.76
584-249-0.3	0.3	13	--	--	--	--
584-250-S	0.15	68	3	--	--	6.15
584-250-0.3	0.3	11	--	--	--	--
584-251-S	0.15	330	24	ND	0.55	--
584-251-0.3	0.3	53	2.8	--	--	--



BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

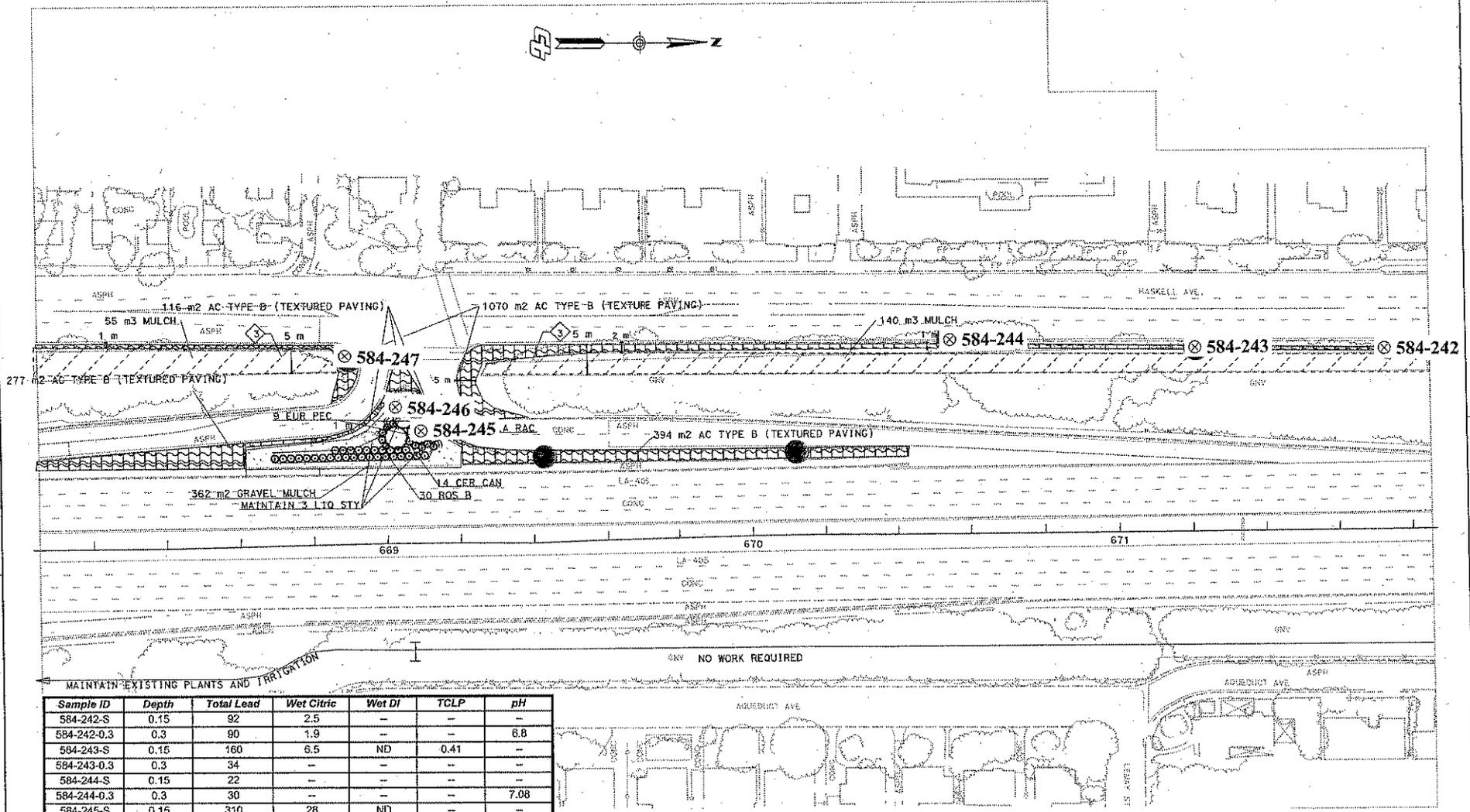
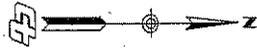
GEOCON CONSULTANTS INCORPORATED 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE 858.558-6100 - FAX 858.558-8437	LOS ANGELES COUNTY, CALIFORNIA
	PROJECT NO. 09100-06-57
	FIGURE 2, PLATE 5
	DATE: 01-07-2003

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

0 20 40 60 80
 USERNAME => KSE111ers
 DGN FILE => 9216301.dwg

CU 07341 EA 216301

DATE PLOTTED 23-05-2003
 TIME PLOTTED 2:11:11
 00-00-00



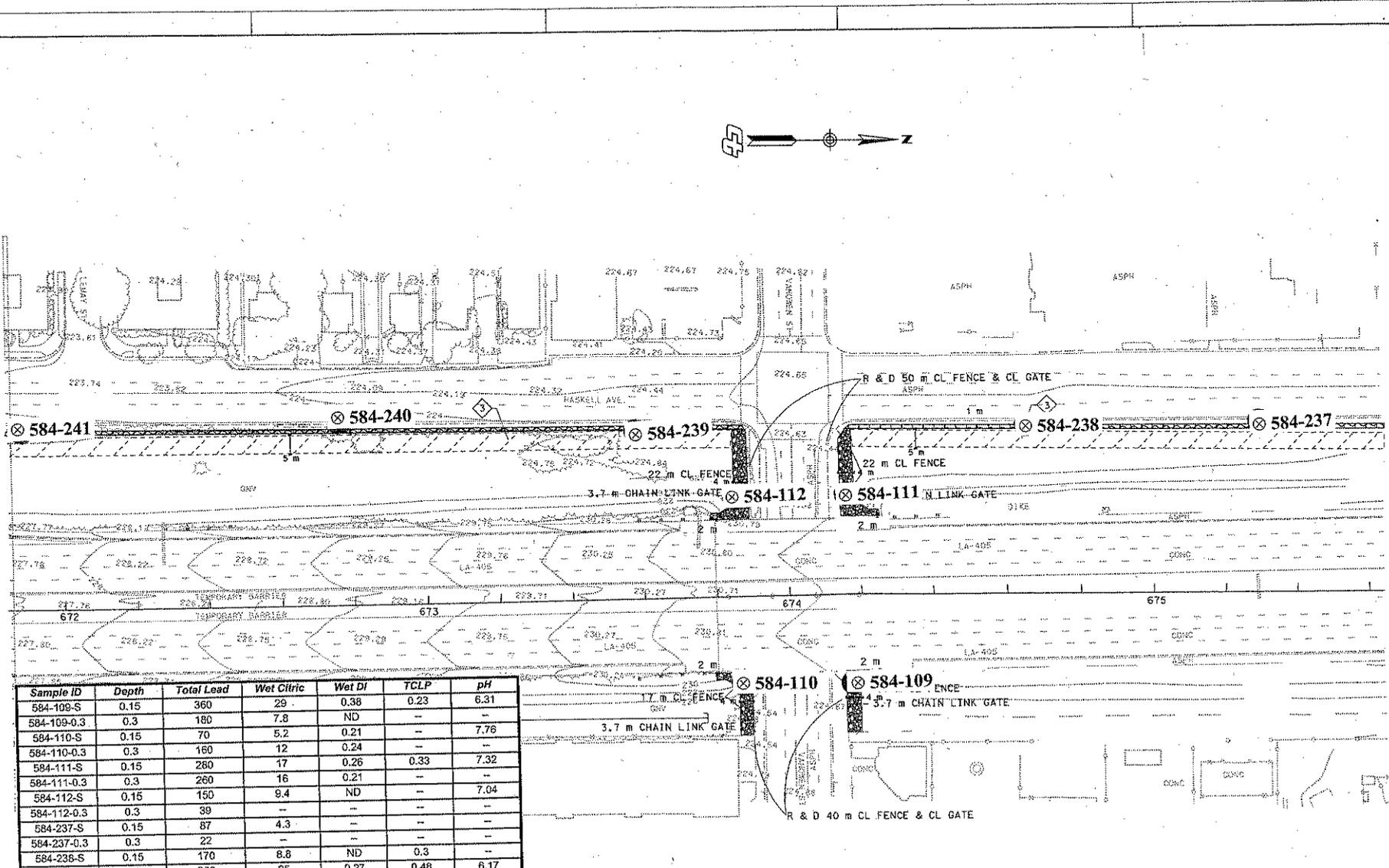
Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-242-S	0.15	92	2.5	--	--	--
584-242-0.3	0.3	90	1.9	--	--	6.8
584-243-S	0.15	160	6.5	ND	0.41	--
584-243-0.3	0.3	34	--	--	--	--
584-244-S	0.15	22	--	--	--	--
584-244-0.3	0.3	30	--	--	--	7.08
584-245-S	0.15	310	28	ND	--	--
584-245-0.3	0.3	240	12	ND	--	--
584-246-S	0.15	330	51	0.52	0.69	--
584-246-0.3	0.3	19	--	--	--	--
584-247-S	0.15	32	--	--	--	6.94
584-247-0.3	0.3	6.4	--	--	--	--

BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

GEOCON
 CONSULTANTS INCORPORATED
 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
 PHONE 858.558-6100 - FAX 858.558-8437

LOS ANGELES COUNTY, CALIFORNIA
 PROJECT NO. 09100-06-57
 FIGURE 2, PLATE 6
 DATE: 01-07-2003

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 PROJECT: LANDSCAPE ARCHITECT
 DESIGNED BY: GARY KATO
 CHECKED BY: GK
 CALCULATED BY: KS
 DATE: REVISED BY: DATE REVISED:



Sample ID	Depth	Total Lead	Wet Citric	Wet Di	TCLP	pH
584-109-S	0.15	360	29	0.38	0.23	6.31
584-109-0.3	0.3	180	7.8	ND	--	--
584-110-S	0.15	70	5.2	0.21	--	7.76
584-110-0.3	0.3	160	12	0.24	--	--
584-111-S	0.15	260	17	0.26	0.33	7.32
584-111-0.3	0.3	260	16	0.21	--	--
584-112-S	0.15	150	9.4	ND	--	7.04
584-112-0.3	0.3	39	--	--	--	--
584-237-S	0.15	87	4.3	--	--	--
584-237-0.3	0.3	22	--	--	--	--
584-238-S	0.15	170	8.8	ND	0.3	--
584-238-0.3	0.3	360	25	0.27	0.48	6.17
584-239-S	0.15	140	12	ND	0.24	6.14
584-239-0.3	0.3	100	8.3	ND	--	--
584-240-S	0.15	41	--	--	--	--
584-240-0.3	0.3	15	--	--	--	--
584-241-S	0.15	130	9.3	ND	0.41	6.69
584-241-0.3	0.3	110	3.7	--	--	--

BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

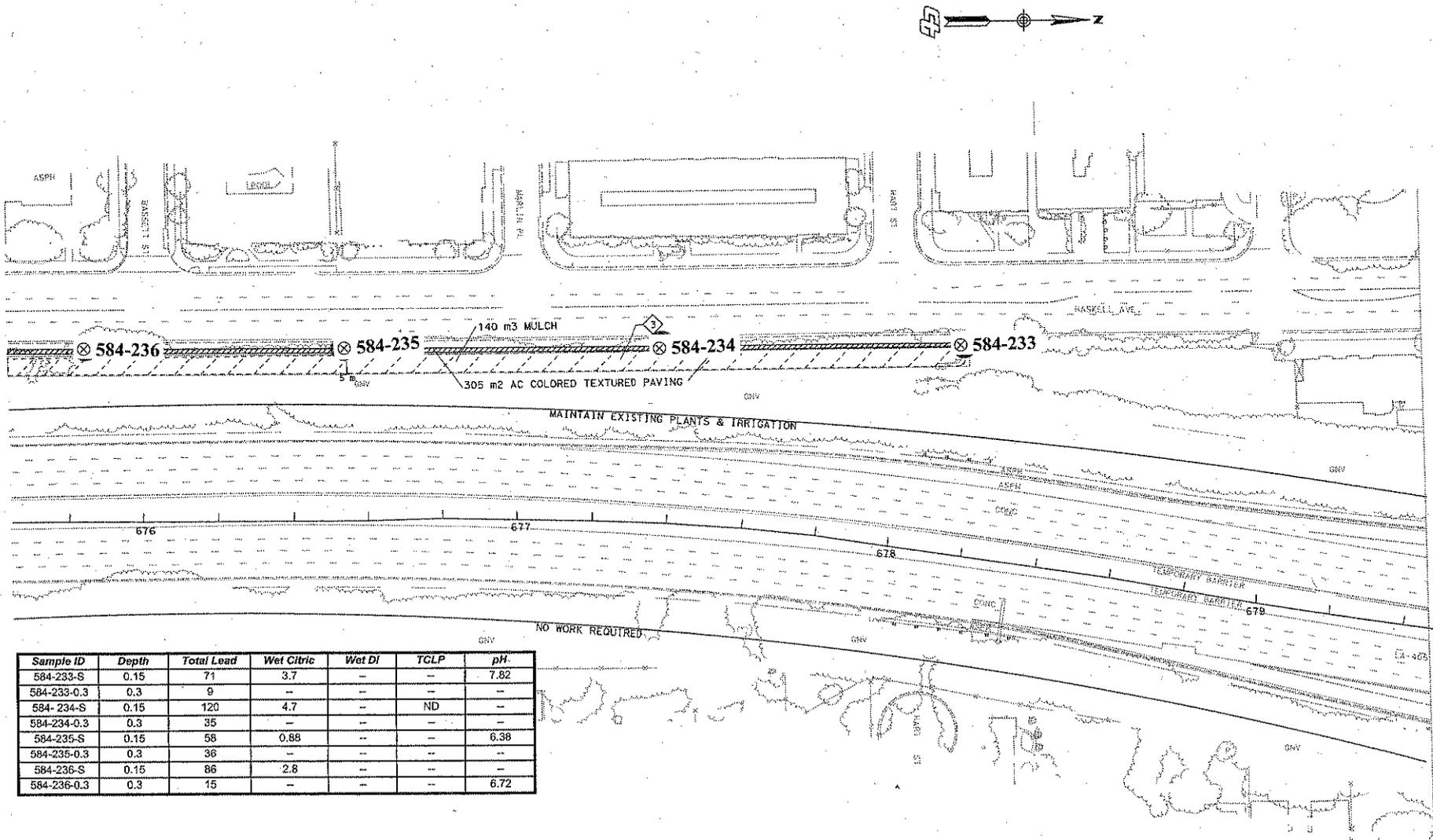
GEOCON
 CONSULTANTS INCORPORATED
 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
 PHONE 858.558-6100 - FAX 858.558-8437

LOS ANGELES COUNTY, CALIFORNIA
 PROJECT NO. 09100-06-57
 FIGURE 2, PLATE 7
 DATE: 01-07-2003

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80
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 DCH FILE => 7219707.dwg

FILE PLOTTED => 5:04:57 PM
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 PROJECT LANDSCAPE ARCHITECT GARY KATO
 CALCULATED BY KS
 DESIGNED BY CK
 CHECKED BY CK
 DATE REVISED BY
 DATE REVISED BY



Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-233-S	0.15	71	3.7	--	--	7.82
584-233-0.3	0.3	9	--	--	--	--
584-234-S	0.15	120	4.7	--	ND	--
584-234-0.3	0.3	35	--	--	--	--
584-235-S	0.15	58	0.88	--	--	6.38
584-235-0.3	0.3	36	--	--	--	--
584-236-S	0.15	86	2.8	--	--	--
584-236-0.3	0.3	15	--	--	--	6.72

BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET
 LOS ANGELES COUNTY, CALIFORNIA

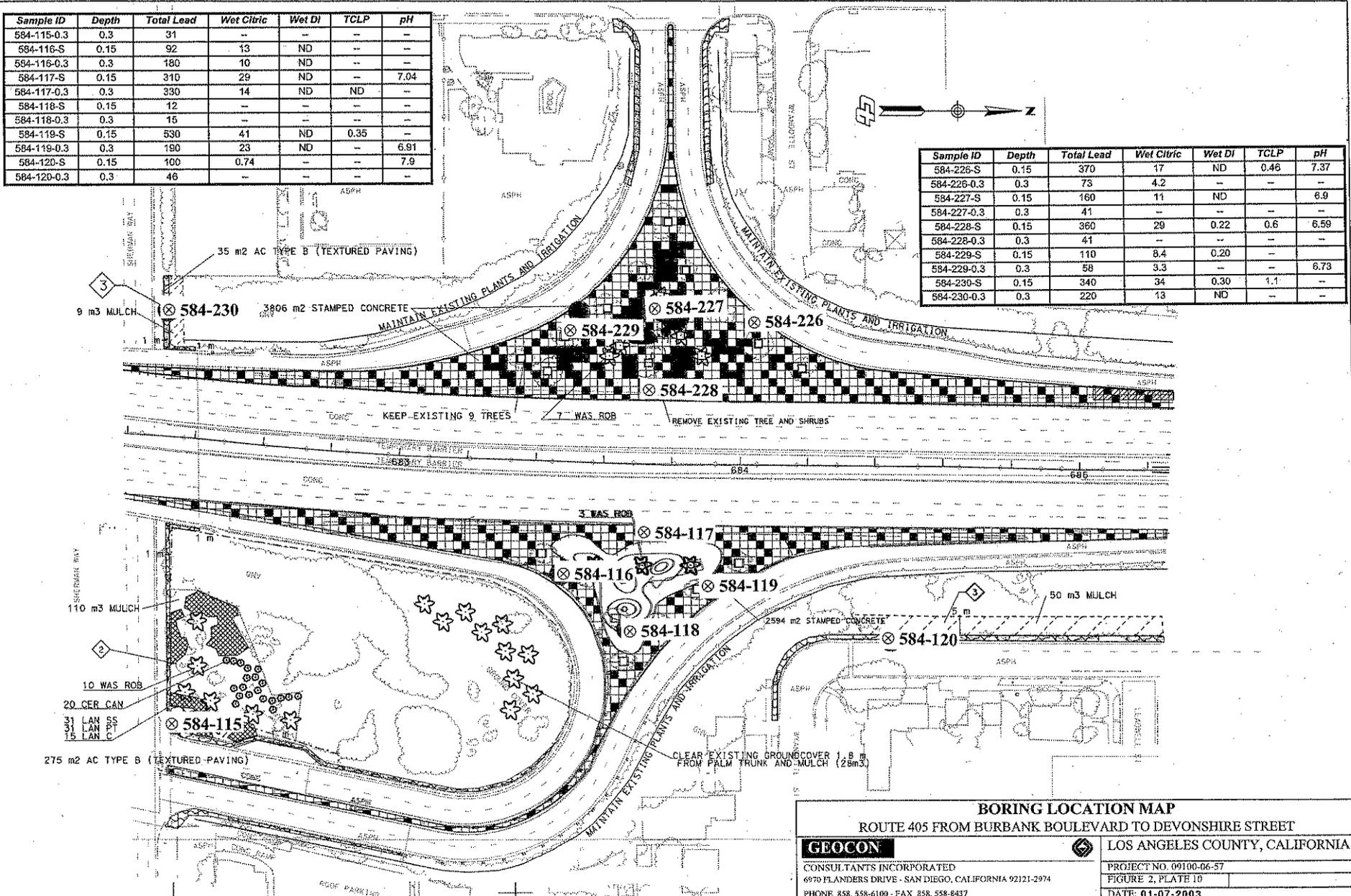
GEOCON
 CONSULTANTS INCORPORATED
 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
 PHONE 858-558-6100 - FAX 858-558-8437

PROJECT NO. 09100-06-37
 FIGURE 2, PLATE 8
 DATE: 01-07-2003

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Gibbons LANDSCAPE ARCHITECTURE
 PROJECT: LANDSCAPE ARCHITECT
 GARY KATO
 CALCULATED/ KS DATE REVISED BY
 DESIGNED BY CK DATE REVISED BY

Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-115-0.3	0.3	31	--	--	--	--
584-116-S	0.15	92	13	ND	--	--
584-116-0.3	0.3	180	10	ND	--	--
584-117-S	0.15	310	29	ND	--	7.04
584-117-0.3	0.3	330	14	ND	ND	--
584-118-S	0.15	12	--	--	--	--
584-118-0.3	0.3	15	--	--	--	--
584-119-S	0.15	530	41	ND	0.35	--
584-119-0.3	0.3	190	23	ND	--	6.91
584-120-S	0.15	100	0.74	--	--	7.9
584-120-0.3	0.3	46	--	--	--	--

Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-226-S	0.15	370	17	ND	0.46	7.37
584-226-0.3	0.3	73	4.2	--	--	--
584-227-S	0.15	160	11	ND	--	6.9
584-227-0.3	0.3	41	--	--	--	--
584-228-S	0.15	360	29	0.22	0.6	6.59
584-228-0.3	0.3	41	--	--	--	--
584-229-S	0.15	110	8.4	0.20	--	--
584-229-0.3	0.3	58	3.3	--	--	6.73
584-230-S	0.15	340	34	0.30	1.1	--
584-230-0.3	0.3	220	13	ND	--	--



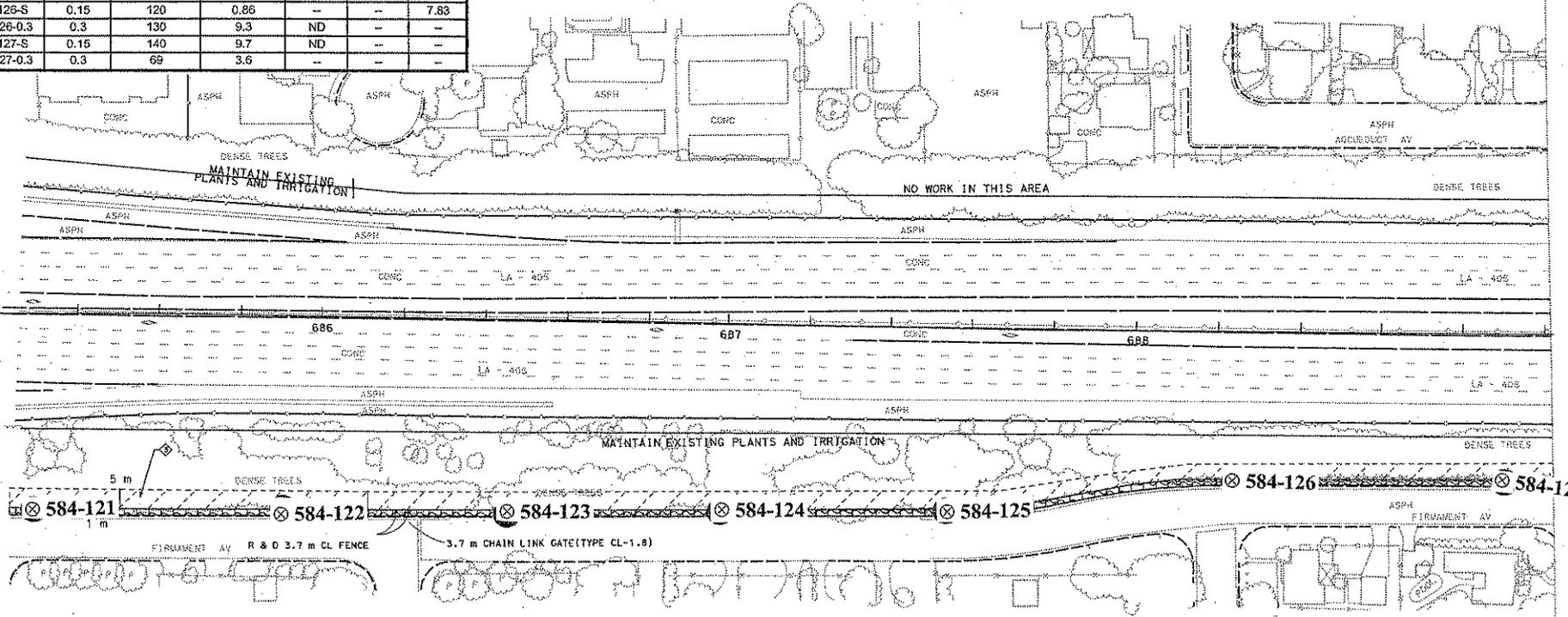
BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

GEOCON	LOS ANGELES COUNTY, CALIFORNIA
CONSULTANTS INCORPORATED 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE 858.558-6109 - FAX 858.558-8437	PROJECT NO. 09100-06-57 FIGURE 2, PLATE 10 DATE: 01-07-2003

DATE PLOTTED = 05-SEP-2002
 DATE PLOTTED = 7-07-02

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Gilbane LANDSCAPE ARCHITECTURE
 PROJECT LANDSCAPE ARCHITECT GARY KATO
 CALCULATED/ DESIGNED BY GK
 CHECKED BY GK
 REVISIONS BY DATE DATE
 REVISED BY DATE
 REVISED BY DATE

Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-121-S	0.15	420	38	ND	0.55	--
584-121-0.3	0.3	160	1.2	--	--	--
584-122-S	0.15	490	29	ND	0.73	--
584-122-0.3	0.3	47	--	--	--	--
584-123-S	0.15	22	--	--	--	6.85
584-123-0.3	0.3	33	--	--	--	--
584-124-S	0.15	400	24	ND	0.28	--
584-124-0.3	0.3	18	--	--	--	--
584-125-S	0.15	190	19	ND	0.38	--
584-125-0.3	0.3	24	--	--	--	--
584-126-S	0.15	120	0.86	--	--	7.83
584-126-0.3	0.3	130	9.3	ND	--	--
584-127-S	0.15	140	9.7	ND	--	--
584-127-0.3	0.3	69	3.6	--	--	--



BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET
 LOS ANGELES COUNTY, CALIFORNIA

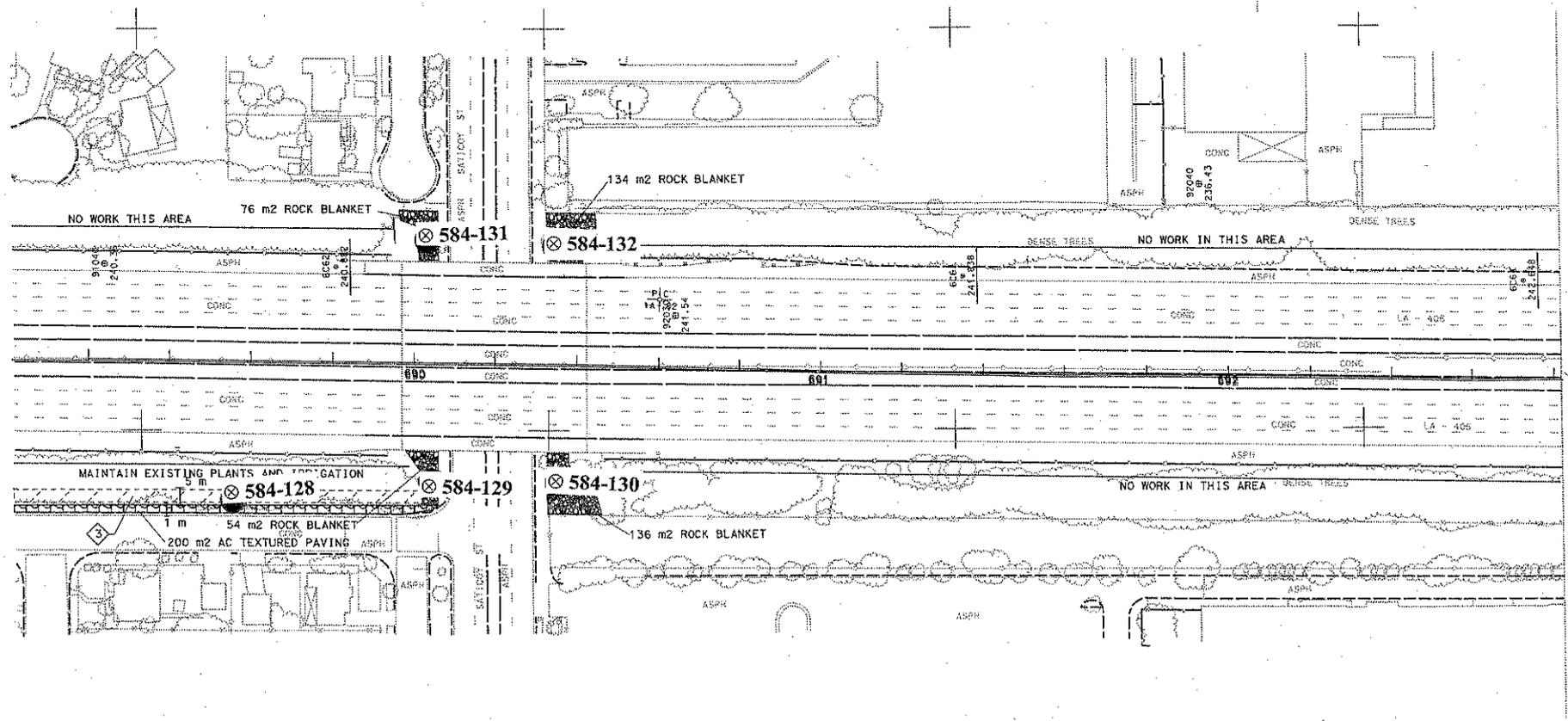
GEOCON
 CONSULTANTS INCORPORATED
 6976 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
 PHONE 858.558-6100 - FAX 858.558-8437

PROJECT NO. 09100-06-57
FIGURE 2, PLATE 11
DATE: 01-07-2003

CALC. BY: [blank] DATE PLOTTED: 03-04-SEP-2003
 00-00-001 TIME PLOTTED: 03:11:01

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Gary Kato LANDSCAPE ARCHITECTURE
 PROJECT: LANDSCAPE ARCHITECT
 GARY KATO
 CALCULATED/ KS
 DESIGNED BY
 CHECKED BY GK
 DATE REVISIONS BY
 DATE REVISIONS

Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-128-S	0.15	270	19	0.28	0.25	--
584-128-0.3	0.3	22	--	--	--	7.94
584-129-S	0.15	32	--	--	--	7.05
584-129-0.3	0.3	5.4	--	--	--	--
584-130-S	0.15	64	3.4	--	--	7.73
584-130-0.3	0.3	90	5.2	ND	ND	--
584-131-S	0.15	52	2.3	--	--	8.22
584-131-0.3	0.3	18	--	--	--	--
584-132-S	0.15	100	5.4	ND	0.23	7.71
584-132-0.3	0.3	58	3.7	--	--	--



BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

GEOCON CONSULTANTS INCORPORATED 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE 858.558-6100 - FAX 858.558-8437		LOS ANGELES COUNTY, CALIFORNIA
	PROJECT NO. 09100-06-57	FIGURE 2, PLATE 12
	DATE: 01-07-2003	
	CU 07341	EA 218301

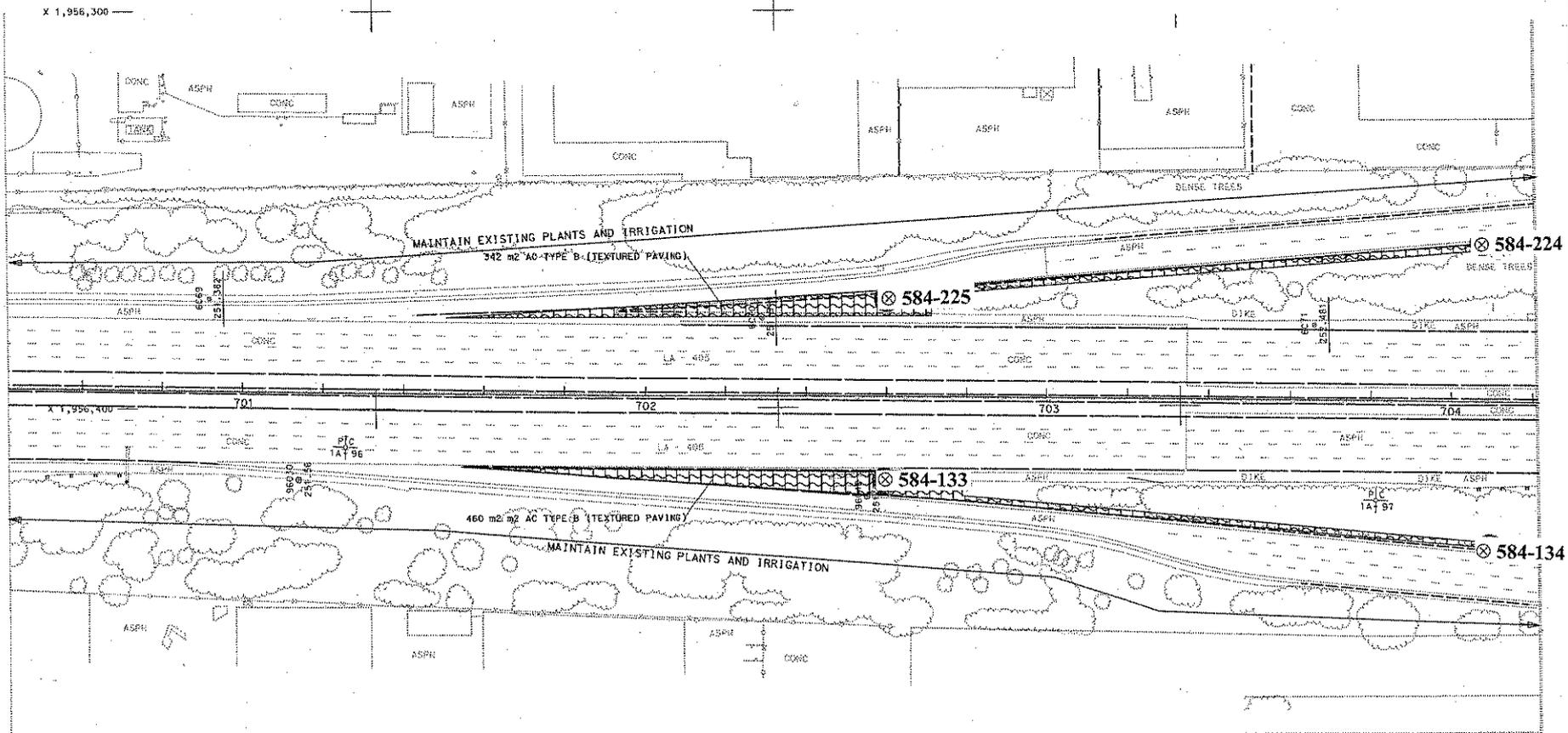
FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS

USER NAME => ksel1er6
 PGN FILE => 7214301112.dgn

DATE PLOTTED => 04-SEP-2002
 FILE SAVED => 111125

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Gilbert LANDSCAPE ARCHITECTURE
 PROJECT: LANDSCAPE ARCHITECT
 GARY KATO
 CALCULATED/DESIGNED BY: KS
 CHECKED BY: GK
 DATE REVISED BY: _____
 DATE REVISED: _____

Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-133-S	0.15	1300	--	--	--	8.1
584-133-0.3	0.3	1400	--	--	6.7	--
584-134-S	0.15	85	21	ND	--	8.97
584-134-0.3	0.3	70	6.7	ND	--	--
584-224-S	0.15	56	3.5	--	--	7.48
584-224-0.3	0.3	1,000	--	--	1.6	--
584-225-S	0.15	990	130	2.00	--	--
584-225-0.3	0.3	740	62	2.60	--	7.42



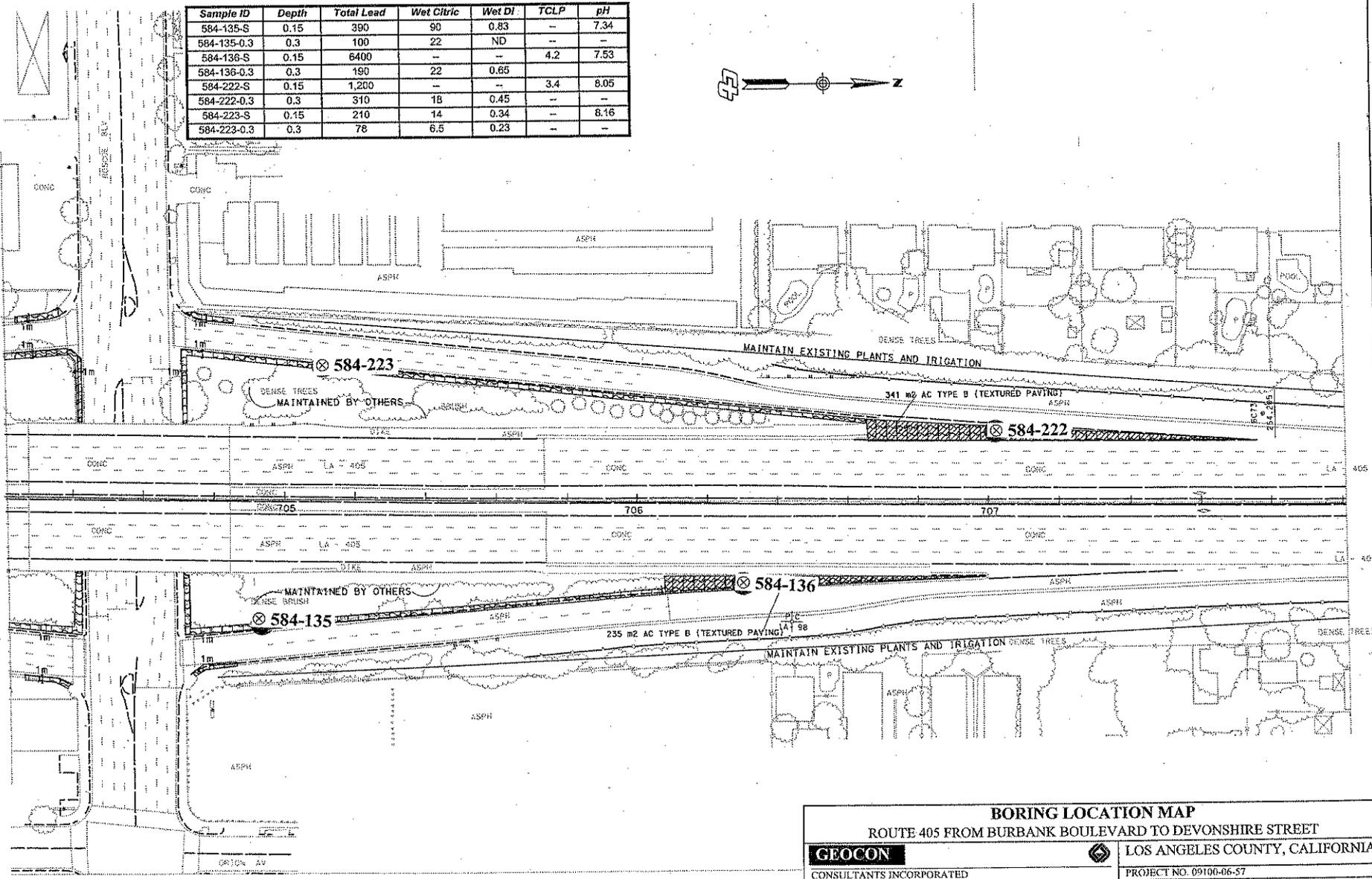
BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

GEOCON CONSULTANTS INCORPORATED
 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
 PHONE 858.558-6100 - FAX 858.558-8437

LOS ANGELES COUNTY, CALIFORNIA
 PROJECT NO. 09100-06-57
 FIGURE 2, PLATE 14
 DATE: 01-07-2003

DATE PLOTTED = 04-SEP-2002
 00-00-00 TIME PLOTTED = 1:15:59

Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-135-S	0.15	390	90	0.83	--	7.34
584-135-0.3	0.3	100	22	ND	--	--
584-136-S	0.15	6400	--	--	4.2	7.53
584-136-0.3	0.3	190	22	0.65	--	--
584-222-S	0.15	1,200	--	--	3.4	8.05
584-222-0.3	0.3	310	18	0.45	--	--
584-223-S	0.15	210	14	0.34	--	8.16
584-223-0.3	0.3	78	6.5	0.23	--	--



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
 PROJECT LANDSCAPE ARCHITECT
 GARY KATO
 LANDSCAPE ARCHITECTURE
 REVISIONS: DATE, REVISED BY, CALCULATED/KS, DESIGNED BY, CHECKED BY, GK, DATE REVISED

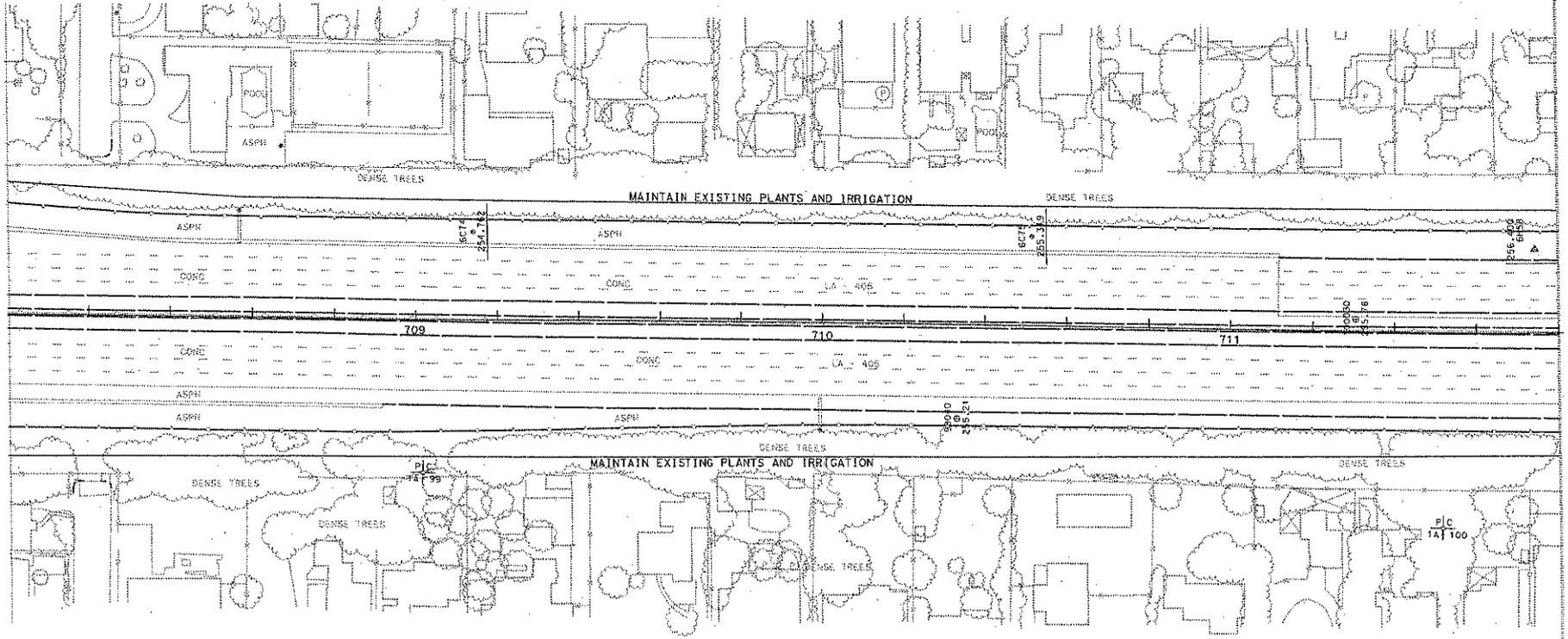
BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

GEOCON	LOS ANGELES COUNTY, CALIFORNIA
CONSULTANTS INCORPORATED 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE 858.558-6100 - FAX 858.558-8437	PROJECT NO. 09100-06-57 FIGURE 2, PLATE 15 DATE: 01-07-2003

FOR REDUCED PLANS ORIGINAL 0 20 40 60 80
 SCALE 1" = 40' METERS
 USERNAME: K581188

DATE PLOTTED: 01-05-2003 09:58:00
 TIME PLOTTED: 03:01:58

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Et Gilberts LANDSCAPE ARCHITECTURE
 PROJECT LANDSCAPE ARCHITECT
 GARY KATO
 CALCULATED BY KS
 DESIGNED BY OK
 CHECKED BY OK
 DATE REVISED BY
 DATE REVISED



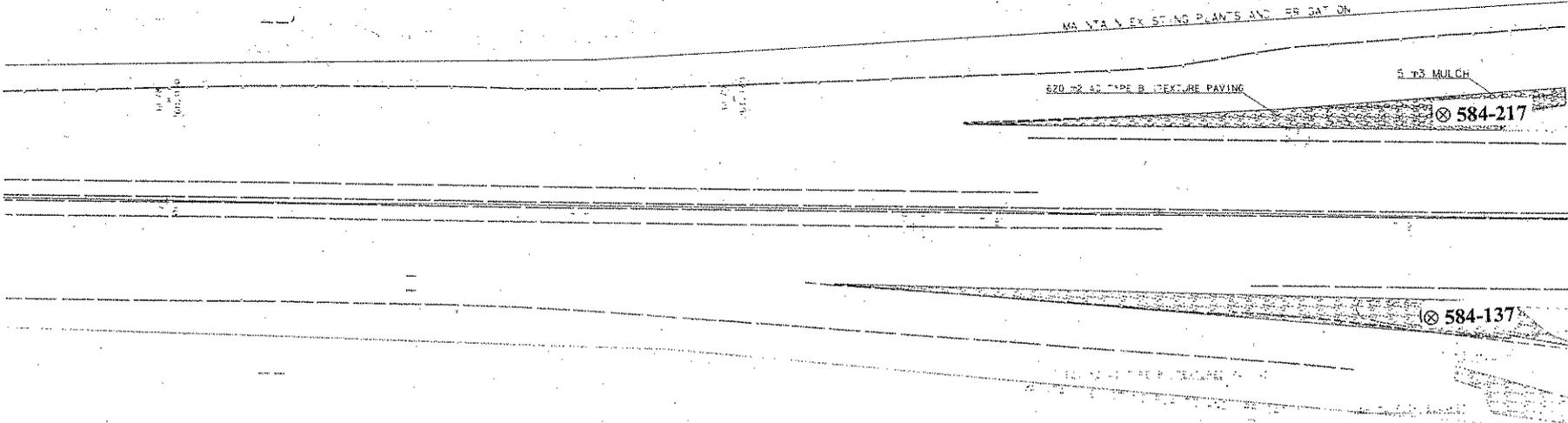
BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

GEOCON CONSULTANTS INCORPORATED 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE 858.558-6100 - FAX 858.558-8437		LOS ANGELES COUNTY, CALIFORNIA PROJECT NO 09100-06-57 FIGURE 2, PLATE 16 DATE: 01-07-2003
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DATE PLOTTED 22-07-03
 TIME PLOTTED 2:07:58
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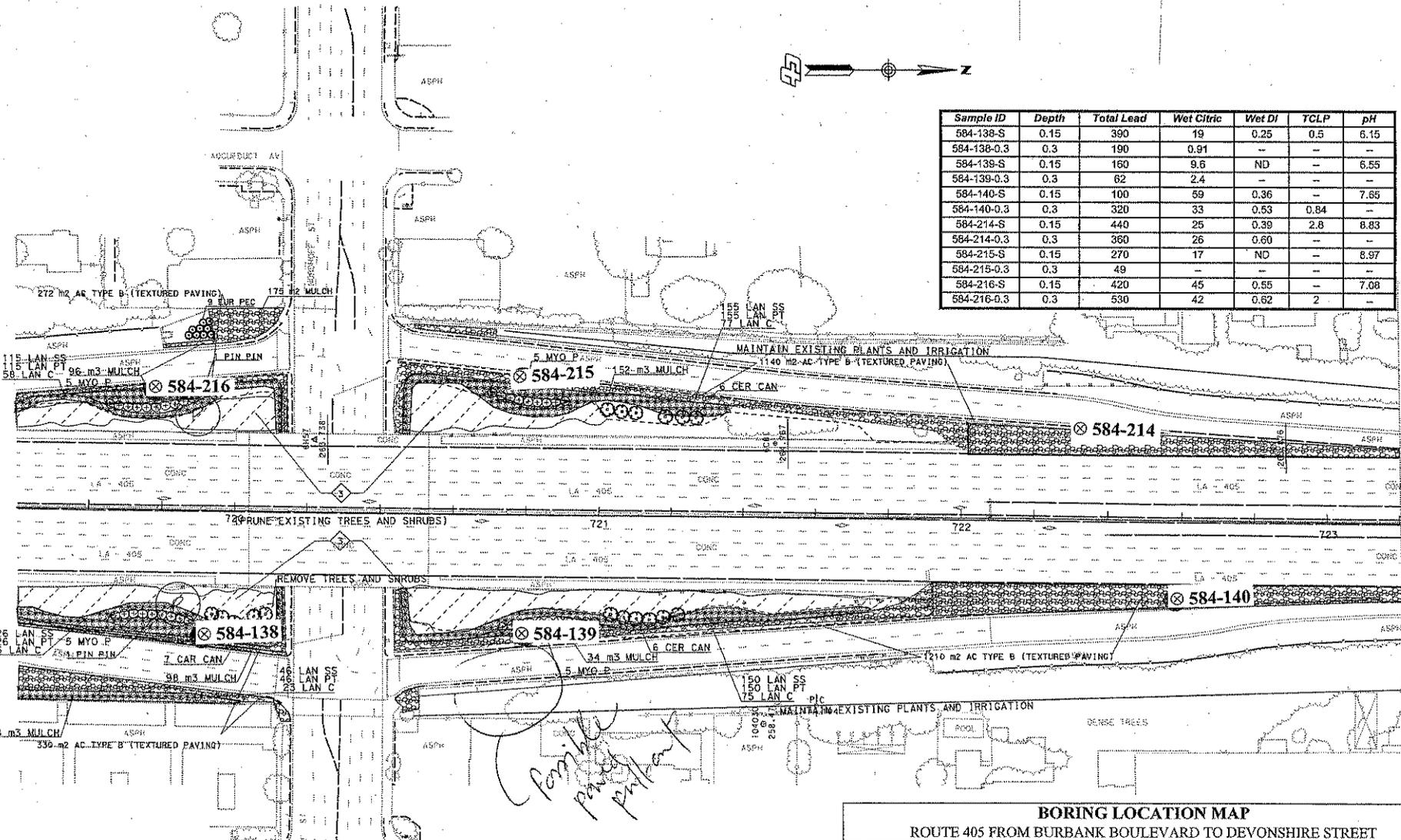


Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-137-S	0.15	140	57	0.25	--	7.4
584-137-0.3	0.3	290	13	0.37	--	--
584-217-S	0.15	390	29	0.26	--	7.64
584-217-0.3	0.3	170	14	0.22	--	--



BORING LOCATION MAP	
ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET	
GEOCON	LOS ANGELES COUNTY, CALIFORNIA
CONSULTANTS INCORPORATED 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE 858.558-6100 - FAX 858.558-8437	PROJECT NO. 09100-06-57 FIGURE 2, PLATE 18 DATE: 01-07-2003

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
 PROJECT LANDSCAPE ARCHITECT GARY KATO
 CALCULATED BY KS
 DESIGNED BY GK
 CHECKED BY GK
 REVISOR BY DATE
 DATE REVISED



Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-138-S	0.15	390	19	0.25	0.5	6.15
584-138-0.3	0.3	190	0.91	--	--	--
584-139-S	0.15	160	9.6	ND	--	6.55
584-139-0.3	0.3	62	2.4	--	--	--
584-140-S	0.15	100	59	0.36	--	7.65
584-140-0.3	0.3	320	33	0.53	0.84	--
584-214-S	0.15	440	25	0.39	2.8	8.83
584-214-0.3	0.3	360	26	0.60	--	--
584-215-S	0.15	270	17	ND	--	8.97
584-215-0.3	0.3	49	--	--	--	--
584-216-S	0.15	420	45	0.55	--	7.08
584-216-0.3	0.3	530	42	0.62	2	--

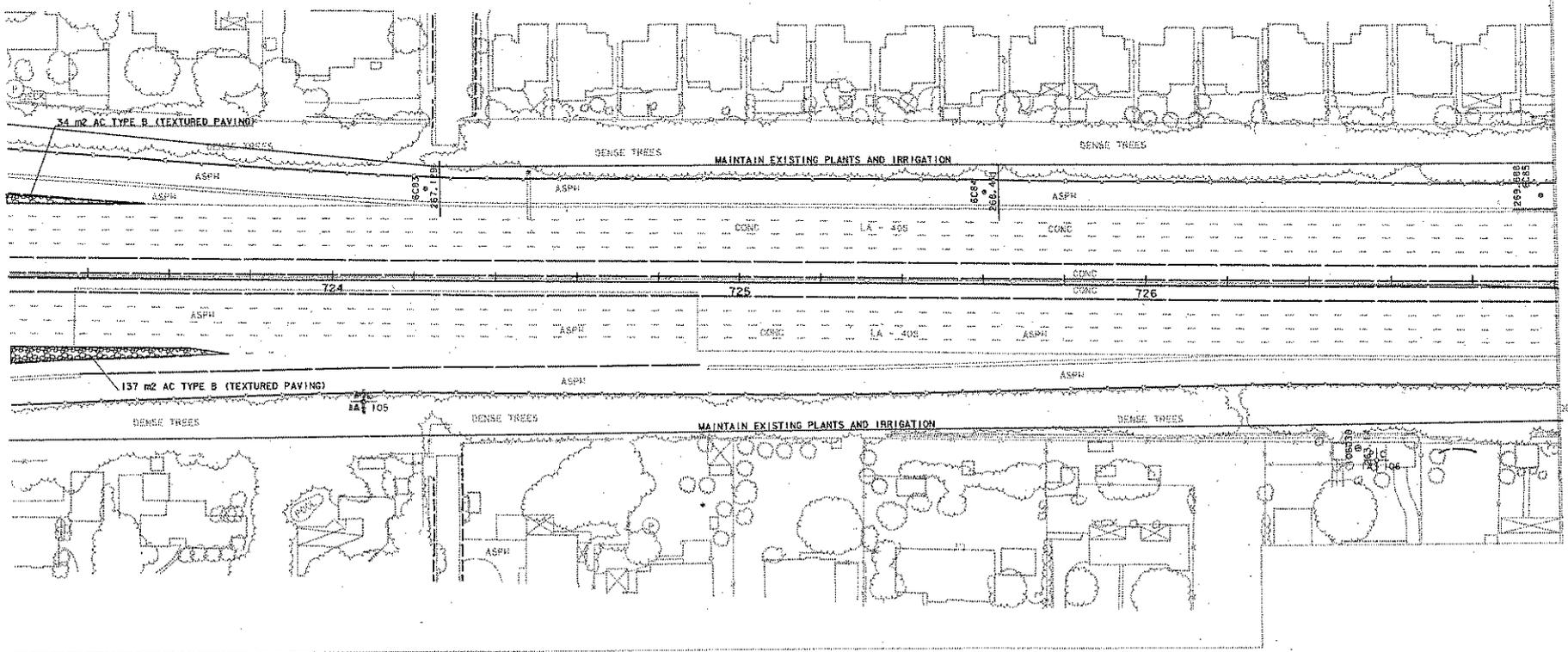
BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

GEOCON CONSULTANTS INCORPORATED
 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
 PHONE 858.558-6100 - FAX 858.558-8427

LOS ANGELES COUNTY, CALIFORNIA
 PROJECT NO. 09100-06-57
 FIGURE 2, PLATE 19
 DATE: 01-07-2003

DATE PLOTTED: 06-SEP-2003
 TIME PLOTTED: 5:08:31
 00-00-001

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Stantec LANDSCAPE ARCHITECTURE
 PROJECT: LANDSCAPE ARCHITECT
 GARY KATO
 CHECKED BY: OK
 CALCULATED BY: KS
 DESIGNED BY: OK
 DATE REVISED BY: []
 DATE REVISED: []

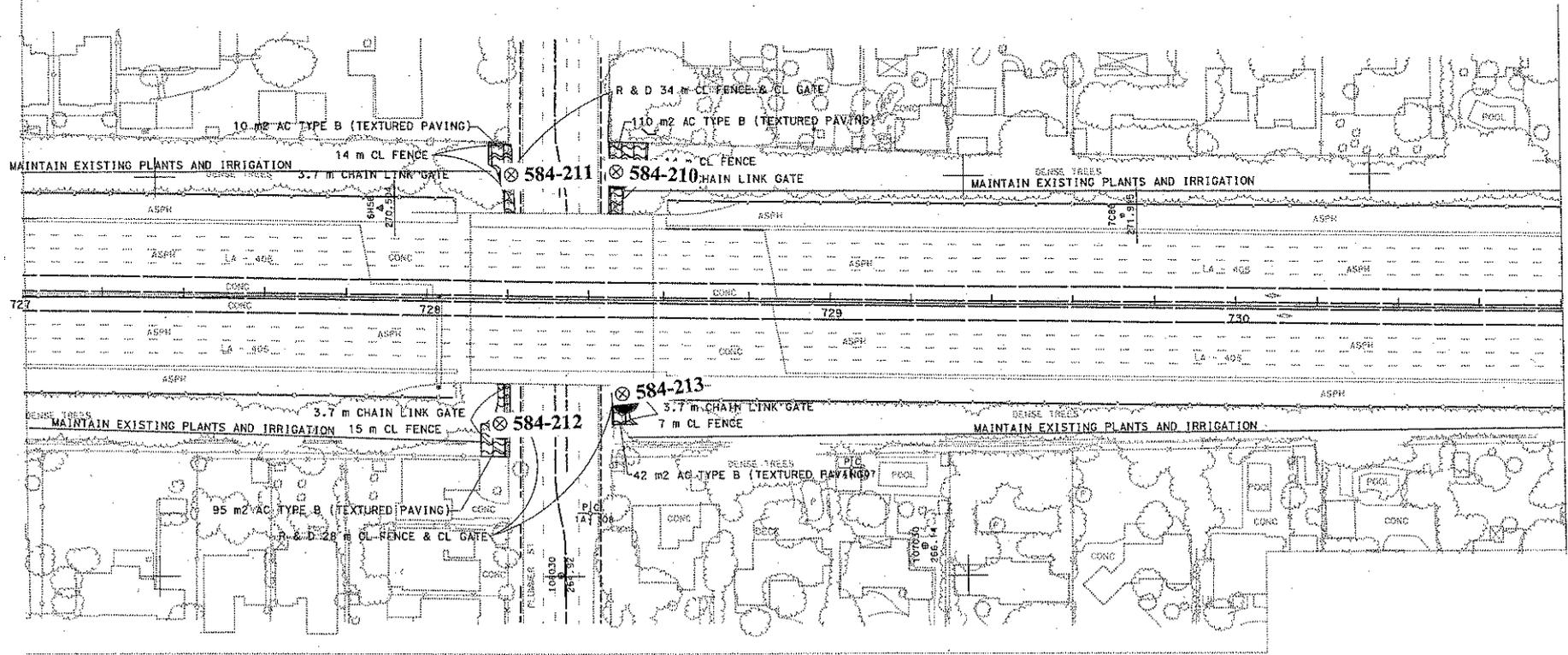


BORING LOCATION MAP	
ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET	
GEOCON	LOS ANGELES COUNTY, CALIFORNIA
CONSULTANTS INCORPORATED 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE 858.558-6100 - FAX 858.558-8437	PROJECT NO. 09100-06-57 FIGURE 2, PLATE 20 DATE 01-07-2003
FOR REDUCED PLANS ORIGINAL SCALE 15 IN MILLIMETERS	CU 07341 EA 218301

DATE PLOTTED: 06-SEP-2002
 TIME: 10:30:36

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
E&E **Gilbert** LANDSCAPE ARCHITECTURE
 PROJECT LANDSCAPE ARCHITECT GARY KATO
 CALCULATED BY KS DATE REVISED BY CK DATE REVISED BY
 DESIGNED BY CK
 CHECKED BY CK
 269,688
 6088

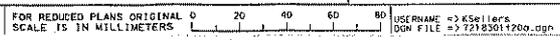
Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-210-S	0.15	88	6.9	ND	--	7.83
584-210-0.3	0.3	130	3.8	--	0.42	--
584-211-S	0.15	54	2.5	--	--	8.27
584-211-0.3	0.3	14	--	--	--	--
584-212-S	0.15	96	7.6	ND	0.3	7.52
584-212-0.3	0.3	59	4.1	--	--	--
585-213-S	0.15	74	4.7	--	--	8.82
584-213-0.3	0.3	23	--	--	--	--



BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

GEOCON	LOS ANGELES COUNTY, CALIFORNIA
CONSULTANTS INCORPORATED 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE 858-558-6100 - FAX 858-558-8457	PROJECT NO. 09100-06-57 FIGURE 2, PLATE 21 DATE: 01-07-2003

THIS PLAN ACCURATE

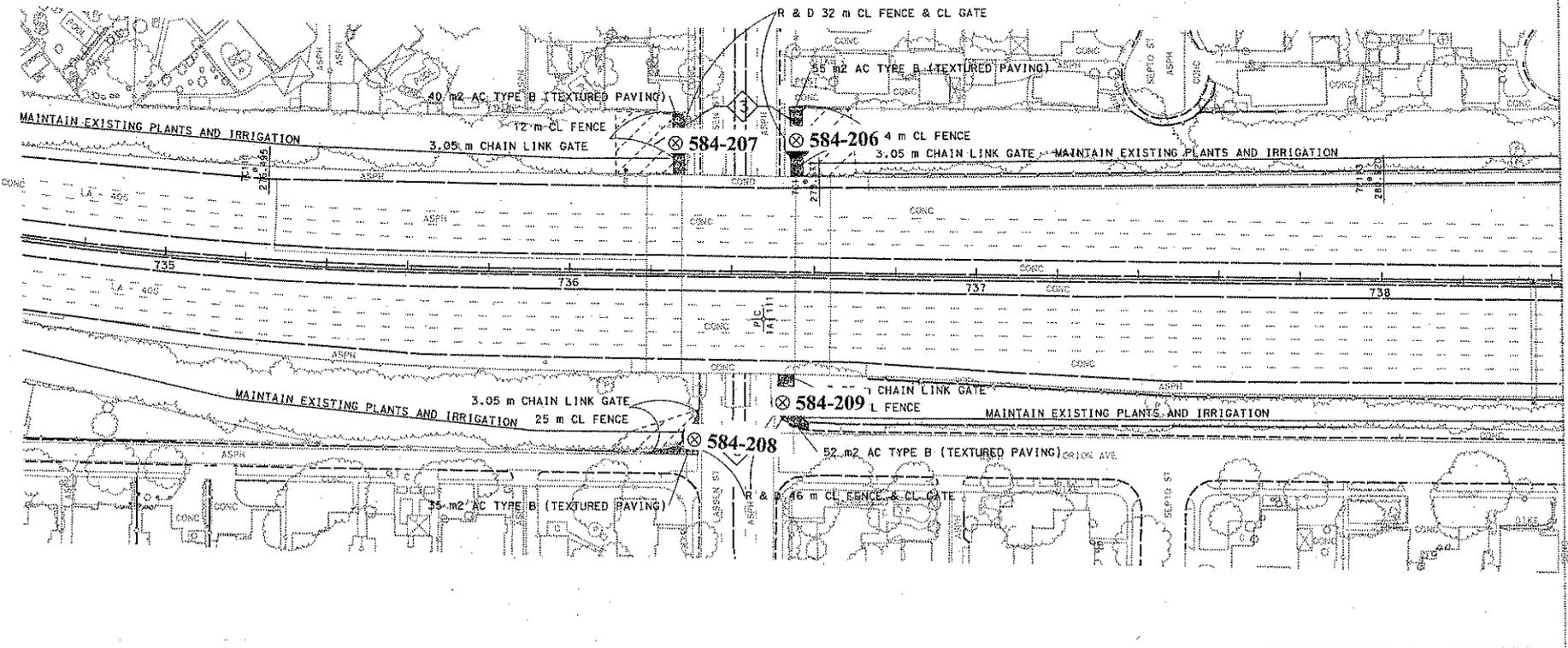


CU 07341 EA 218501

DATE PLOTTED => 05-SEP-2002 TIME PLOTTED => 08:42 00-00-00

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Gilbane LANDSCAPE ARCHITECTURE
 PROJECT LANDSCAPE ARCHITECT
 GARY KATO
 CALCULATED/DESIGNED BY
 CHECKED BY
 DATE
 KS
 GK
 REVISED BY
 DATE
 REVISED BY
 DATE

Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-206-S	0.15	ND	--	--	--	8.47
584-206-0.3	0.3	8.7	--	--	--	--
584-207-S	0.15	31	--	--	--	8.58
584-207-0.3	0.3	22	--	--	--	--
584-208-S	0.15	110	7.1	ND	0.3	8.2
584-208-0.3	0.3	77	1.7	0.25	--	--
584-209-S	0.15	70	6.1	ND	--	7.6
584-209-0.3	0.3	73	4.2	--	--	--



BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET

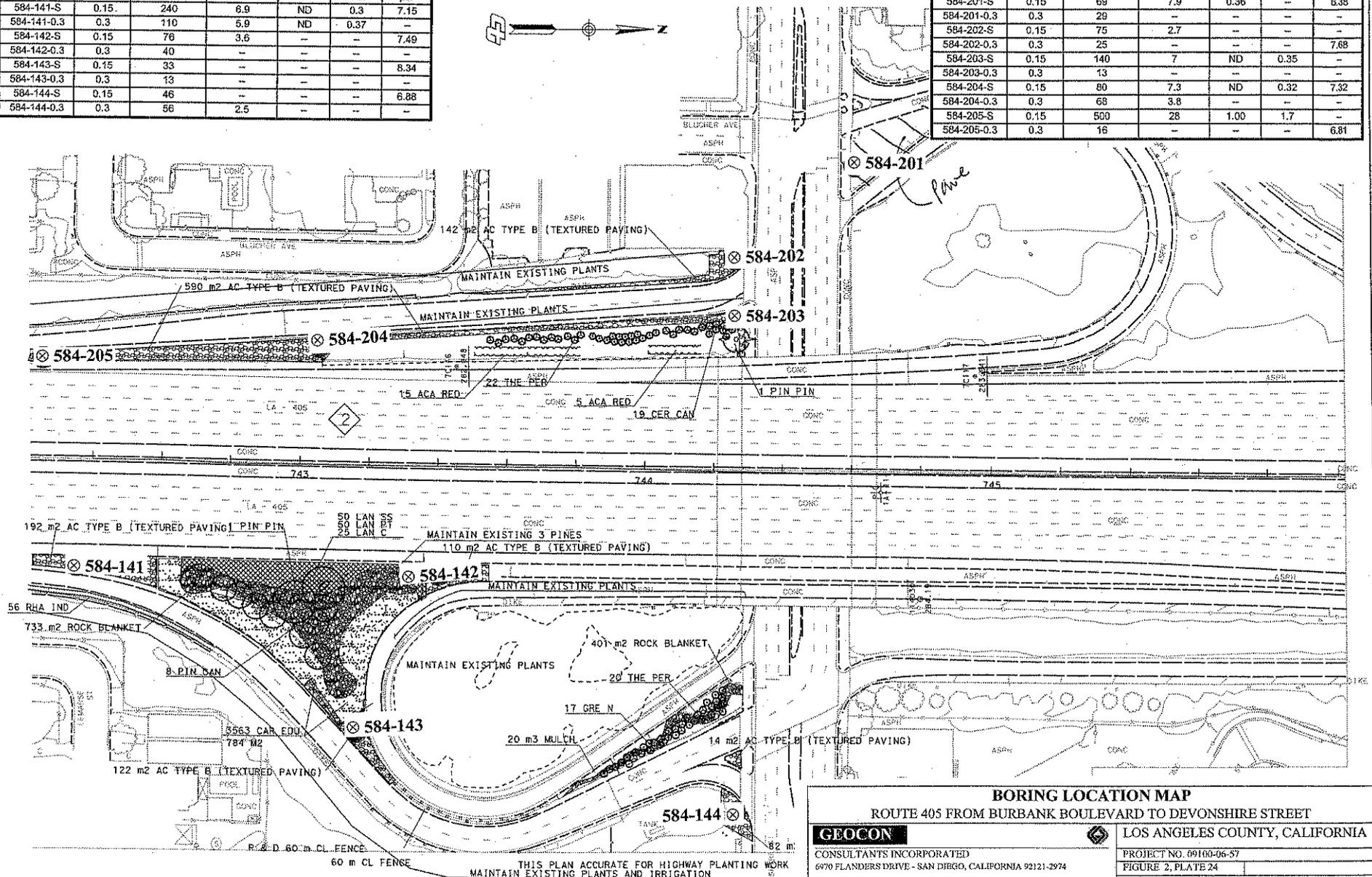
GEOCON CONSULTANTS INCORPORATED 6970 PLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974 PHONE 858-558-6100 - FAX 858-558-8437	LOS ANGELES COUNTY, CALIFORNIA	
	PROJECT NO. 09106-06-57	
	FIGURE 2, PLATE 22	
	DATE: 01-07-2003	
FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS	20 40 60 80 USERNAME => KSeilerS DDM FILE => 0218301220b.dgn	CU 07341 EA 218301

DATE PLOTTED => 08-SEP-2002
 TIME PLOTTED => 2:09:44

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Gilbane LANDSCAPE ARCHITECTURE
 PROJECT LANDSCAPE ARCHITECT
 GARY KATO
 CALCULATED/ KS
 DESIGNED BY GK
 CHECKED BY
 DATE REVISED BY
 DATE REVISED

Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-141-S	0.15	240	6.9	ND	0.3	7.15
584-141-0.3	0.3	110	5.9	ND	0.37	--
584-142-S	0.15	76	3.6	--	--	7.49
584-142-0.3	0.3	40	--	--	--	--
584-143-S	0.15	33	--	--	--	8.34
584-143-0.3	0.3	13	--	--	--	--
584-144-S	0.15	46	--	-- <td --	6.88	
584-144-0.3	0.3	56	2.5	--	--	--

Sample ID	Depth	Total Lead	Wet Citric	Wet DI	TCLP	pH
584-201-S	0.15	69	7.9	0.36	--	6.38
584-201-0.3	0.3	29	--	--	--	--
584-202-S	0.15	75	2.7	--	--	--
584-202-0.3	0.3	25	--	--	--	7.68
584-203-S	0.15	140	7	ND	0.35	--
584-203-0.3	0.3	13	--	--	--	--
584-204-S	0.15	80	7.3	ND	0.32	7.32
584-204-0.3	0.3	68	3.8	--	--	--
584-205-S	0.15	500	28	1.00	1.7	--
584-205-0.3	0.3	16	--	--	--	6.81



BORING LOCATION MAP
 ROUTE 405 FROM BURBANK BOULEVARD TO DEVONSHIRE STREET
GEOCON
 CONSULTANTS INCORPORATED
 6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
 PHONE 858.558-6100 - FAX 858.558-8437

LOS ANGELES COUNTY, CALIFORNIA
 PROJECT NO. 09100-06-57
 FIGURE 2, PLATE 24
 DATE 01-07-2003

TABLE I
SUMMARY OF ANALYTICAL LABORATORY RESULTS- SOIL SAMPLES

Sample ID	Depth (m)	Total Lead EPA Test Method 6010 (mg/kg)	Soluble Lead-Wet Citric EPA Test Method 7420 (mg/l)	Soluble Lead WET- DI EPA Test Method 7420 (mg/l)	Soluble Lead TCLP EPA Method 7420 (mg/l)TCLP	Soil pH EPA Test Method 9045
Group 1						
584-101-S	0.15	880	120	0.80	---	7.32
584-101-0.3	0.3	940	79	1.20	1.5	---
584-102-S	0.15	480	36	0.26	---	7.79
584-102-0.3	0.3	200	17	ND	---	---
584-103-S	0.15	640	61	1.60	---	8.14
584-103-0.3	0.3	270	26	0.47	---	---
584-104-S	0.15	1,000	---	---	2.2	8.06
584-104-0.3	0.3	690	65	0.29	---	---
Group 2						
584-105-S	0.15	70	4	---	---	8.55
584-105-0.3	0.3	46	---	---	---	---
584-106-S	0.15	1,100	---	---	5.8	8.61
584-106-0.3	0.3	110	5.2	ND	---	---
584-107-S	0.15	840	60	0.29	1.7	7.73
584-107-0.3	0.3	690	73	ND	---	---
584-108-S	0.15	150	12	0.33	---	8.43
584-108-0.3	0.3	37	---	---	---	---
Group 3						
584-113-S	0.15	200	8.2	ND	---	7.19
584-113-0.3	0.3	410	33	0.25	1.5	---
584-114-S	0.15	430	34	0.37	0.32	---
584-114-0.3	0.3	63	4.1	---	---	---
584-115-S	0.15	170	9.1	ND	---	6.89
584-115-0.3	0.3	31	---	---	---	---
584-116-S	0.15	92	13	ND	---	---
584-116-0.3	0.3	180	10	ND	---	---
584-117-S	0.15	310	29	ND	---	7.04
584-117-0.3	0.3	330	14	ND	ND	---
584-118-S	0.15	12	---	---	---	---
584-118-0.3	0.3	15	---	---	---	---
584-119-S	0.15	530	41	ND	0.35	---
584-119-0.3	0.3	190	23	ND	---	6.91
Group 4						
584-120-S	0.15	100	0.74	---	---	7.9
584-120-0.3	0.3	46	---	---	---	---
584-121-S	0.15	420	38	ND	0.55	---
584-121-0.3	0.3	160	1.2	---	---	---
584-122-S	0.15	490	29	ND	0.73	---

TABLE I (continued)
SUMMARY OF ANALYTICAL LABORATORY RESULTS- SOIL SAMPLES

Sample ID	Depth (m)	Total Lead EPA Test Method 6010 (mg/kg)	Soluble Lead-Wet Citric EPA Test Method 7420 (mg/l)	Soluble Lead WET- DI EPA Test Method 7420 (mg/l)	Soluble Lead TCLP EPA Method 7420 (mg/l)TCLP	Soil pH EPA Test Method 9045
584-122-0.3	0.3	47	---	---	---	---
584-123-S	0.15	22	---	---	---	6.85
584-123-0.3	0.3	33	---	---	---	---
584-124-S	0.15	400	24	ND	0.28	---
584-124-0.3	0.3	18	---	---	---	---
584-125-S	0.15	190	19	ND	0.38	---
584-125-0.3	0.3	24	---	---	---	---
584-126-S	0.15	120	0.86	---	---	7.83
584-126-0.3	0.3	130	9.3	ND	---	---
584-127-S	0.15	140	9.7	ND	---	---
584-127-0.3	0.3	69	3.6	---	---	---
584-128-S	0.15	270	19	0.28	0.25	---
584-128-0.3	0.3	22	---	---	---	7.94
Group 5						
584-133-S	0.15	1300	---	---	---	8.1
584-133-0.3	0.3	1400	---	---	6.7	---
584-134-S	0.15	85	21	ND	---	6.97
584-134-0.3	0.3	70	6.7	ND	---	---
584-135-S	0.15	390	90	0.83	---	7.34
584-135-0.3	0.3	100	22	ND	---	---
584-136-S	0.15	6400	---	---	4.2	7.53
584-136-0.3	0.3	190	22	0.65	---	---
Group 6						
584-137-S	0.15	140	57	0.25	---	7.4
584-137 -0.3	0.3	290	13	0.37	---	---
584-138-S	0.15	390	19	0.25	0.5	6.15
584-138-0.3	0.3	190	0.91	---	---	---
584-139-S	0.15	160	9.6	ND	---	6.55
584-139-0.3	0.3	62	2.4	---	---	---
584-140-S	0.15	100	59	0.36	---	7.65
584-140-0.3	0.3	320	33	0.53	0.84	---
Group 7						
584-141-S	0.15	240	6.9	ND	0.3	7.15
584-141-0.3	0.3	110	5.9	ND	0.37	---
584-142-S	0.15	76	3.6	---	---	7.49
584-142-0.3	0.3	40	---	---	---	---
584-143-S	0.15	33	---	---	---	8.34
584-143-0.3	0.3	13	---	---	---	---
584-144-S	0.15	46	---	---	---	6.88

TABLE I (continued)
SUMMARY OF ANALYTICAL LABORATORY RESULTS- SOIL SAMPLES

Sample ID	Depth (m)	Total Lead EPA Test Method 6010 (mg/kg)	Soluble Lead-Wet Citric EPA Test Method 7420 (mg/l)	Soluble Lead WET- DI EPA Test Method 7420 (mg/l)	Soluble Lead TCLP EPA Method 7420 (mg/l)TCLP	Soil pH EPA Test Method 9045
584-144-0.3	0.3	56	2.5	---	---	---
Group 8						
584-201-S	0.15	69	7.9	0.36	---	6.38
584-201-0.3	0.3	29	---	---	---	---
584-202-S	0.15	75	2.7	---	---	---
584-202-0.3	0.3	25	---	---	---	7.68
584-203-S	0.15	140	7	ND	0.35	---
584-203-0.3	0.3	13	---	---	---	---
584-204-S	0.15	80	7.3	ND	0.32	7.32
584-204-0.3	0.3	68	3.8	---	---	---
584-205-S	0.15	500	28	1.00	1.7	---
584-205-0.3	0.3	16	---	---	---	6.81
Group 9						
584-214-S	0.15	440	25	0.39	2.8	8.83
584-214-0.3	0.3	360	26	0.60	---	---
584-215-S	0.15	270	17	ND	---	8.97
584-215-0.3	0.3	49	---	---	---	---
584-216-S	0.15	420	45	0.55	---	7.08
584-216-0.3	0.3	530	42	0.62	2	---
584-217-S	0.15	390	29	0.26	---	7.64
584-217-0.3	0.3	170	14	0.22	---	---
Group 10						
584-222-S	0.15	1,200	---	---	3.4	8.05
584-222-0.3	0.3	310	18	0.45	---	---
584-223-S	0.15	210	14	0.34	---	8.16
584-223-0.3	0.3	78	6.5	0.23	---	---
584-224-S	0.15	56	3.5	---	---	7.48
584-224-0.3	0.3	1,000	---	---	1.6	---
584-225-S	0.15	990	130	2.00	---	---
584-225-0.3	0.3	740	62	2.60	---	7.42
Group 11						
584-226-S	0.15	370	17	ND	0.46	7.37
584-226-0.3	0.3	73	4.2	---	---	---
584-227-S	0.15	160	11	ND	---	6.9
584-227-0.3	0.3	41	---	---	---	---
584-228-S	0.15	360	29	0.22	0.6	6.59
584-228-0.3	0.3	41	---	---	---	---
584-229-S	0.15	110	8.4	0.20	---	---
584-229-0.3	0.3	58	3.3	---	---	6.73

TABLE I (continued)
SUMMARY OF ANALYTICAL LABORATORY RESULTS- SOIL SAMPLES

Sample ID	Depth (m)	Total Lead EPA Test Method 6010 (mg/kg)	Soluble Lead-Wet Citric EPA Test Method 7420 (mg/l)	Soluble Lead WET- DI EPA Test Method 7420 (mg/l)	Soluble Lead TCLP EPA Method 7420 (mg/l)TCLP	Soil pH EPA Test Method 9045
584-230-S	0.15	340	34	0.30	1.1	---
584-230-0.3	0.3	220	13	ND	---	---
584-231-S	0.15	41	43	0.38	0.66	---
584-231-0.3	0.3	20	2.2	---	---	---
584-232-S	0.15	1500	---	---	0.92	---
584-232-0.3	0.3	120	12	ND	---	---
Group 12						
584-233-S	0.15	71	3.7	---	---	7.82
584-233-0.3	0.3	9	---	---	---	---
584-234-S	0.15	120	4.7	---	ND	---
584-234-0.3	0.3	35	---	---	---	---
584-235-S	0.15	58	0.88	---	---	6.38
584-235-0.3	0.3	36	---	---	---	---
584-236-S	0.15	86	2.8	---	---	---
584-236-0.3	0.3	15	---	---	---	6.72
584-237-S	0.15	87	4.3	---	---	---
584-237-0.3	0.3	22	---	---	---	---
584-238-S	0.15	170	8.8	ND	0.3	---
584-238-0.3	0.3	360	25	0.27	0.48	6.17
Group 13						
584-239-S	0.15	140	12	ND	0.24	6.14
584-239-0.3	0.3	100	8.3	ND	---	---
584-240-S	0.15	41	---	---	---	---
584-240-0.3	0.3	15	---	---	---	---
584-241-S	0.15	130	9.3	ND	0.41	6.69
584-241-0.3	0.3	110	3.7	---	---	---
584-242-S	0.15	92	2.5	---	---	---
584-242-0.3	0.3	90	1.9	---	---	6.8
584-243-S	0.15	160	6.5	ND	0.41	---
584-243-0.3	0.3	34	---	---	---	---
584-244-S	0.15	22	---	---	---	---
584-244-0.3	0.3	30	---	---	---	7.08
584-245-S	0.15	310	28	ND	---	---
584-245-0.3	0.3	240	12	ND	---	---
584-246-S	0.15	330	51	0.52	0.69	---
584-246-0.3	0.3	19	---	---	---	---
Group 14						
584-247-S	0.15	32	---	---	---	6.94
584-247-0.3	0.3	6.4	---	---	---	---

TABLE I (continued)
SUMMARY OF ANALYTICAL LABORATORY RESULTS- SOIL SAMPLES

Sample ID	Depth (m)	Total Lead EPA Test Method 6010 (mg/kg)	Soluble Lead-Wet Citric EPA Test Method 7420 (mg/l)	Soluble Lead WET- DI EPA Test Method 7420 (mg/l)	Soluble Lead TCLP EPA Method 7420 (mg/l)TCLP	Soil pH EPA Test Method 9045
584-248-S	0.15	330	22	0.31	0.33	6.75
584-248-0.3	0.3	180	9.5	ND	0.67	---
584-249-S	0.15	150	5.9	ND	---	5.76
584-249-0.3	0.3	13	---	---	---	---
584-250-S	0.15	68	3	---	---	6.15
584-250-0.3	0.3	11	---	---	---	---
584-251-S	0.15	330	24	ND	0.55	---
584-251-0.3	0.3	53	2.8	---	---	---
584-252-S	0.15	320	30	ND	---	---
584-252-0.3	0.3	65	2.7	---	---	---
584-253-S	0.15	260	16	ND	---	---
584-253-0.3	0.3	38	---	---	---	---
584-254-S	0.15	680	57	0.62	---	---
584-254-0.3	0.3	1000	---	---	3.6	---
Group 15						
584-255-S	0.15	210	11	0.41	---	7.74
584-255-0.3	0.3	65	5.2	0.28	---	---
584-256-S	0.15	660	51	0.50	0.64	6.36
584-256-0.3	0.3	23	---	---	---	---
584-257-S	0.15	130	27	ND	---	8.28
584-257-0.3	0.3	28	---	---	---	---
584-258-S	0.15	420	31	1.10	0.8	7.76
584-258-0.3	0.3	420	40	1.00	---	---
Group16						
584-109-S	0.15	360	29	0.38	0.23	6.31
584-109-0.3	0.3	180	7.8	ND	---	---
584-110-S	0.15	70	5.2	0.21	---	7.76
584-110-0.3	0.3	160	12	0.24	---	---
584-111-S	0.15	280	17	0.26	0.33	7.32
584-111-0.3	0.3	260	16	0.21	---	---
584-112-S	0.15	150	9.4	ND	---	7.04
584-112-0.3	0.3	39	---	---	---	---
Group 17						
584-129-S	0.15	32	---	---	---	7.05
584-129-0.3	0.3	5.4	---	---	---	---
584-130-S	0.15	64	3.4	---	---	7.73
584-130-0.3	0.3	90	5.2	ND	ND	---
584-131-S	0.15	52	2.3	---	---	8.22
584-131-0.3	0.3	18	---	---	---	---

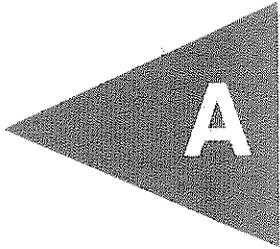
TABLE I (continued)
SUMMARY OF ANALYTICAL LABORATORY RESULTS- SOIL SAMPLES

Sample ID	Depth (m)	Total Lead EPA Test Method 6010 (mg/kg)	Soluble Lead-Wet Citric EPA Test Method 7420 (mg/l)	Soluble Lead WET- DI EPA Test Method 7420 (mg/l)	Soluble Lead TCLP EPA Method 7420 (mg/l)TCLP	Soil pH EPA Test Method 9045
584-132-S	0.15	100	5.4	ND	0.23	7.71
584-132-0.3	0.3	58	3.7	---	---	---
Group 18						
584-218-S	0.15	250	15	ND	0.5	7.82
584-218-0.3	0.3	130	7.4	ND	---	---
584-219-S	0.15	190	15	0.29	---	7.93
584-219-0.3	0.3	670	70	2.30	5.6	---
584-220-S	0.15	17	---	---	---	8.29
584-220-0.3	0.3	24	---	---	---	---
584-221-S	0.15	41	---	---	---	7.71
584-221-0.3	0.3	20	---	---	---	---
Group 19						
584-210-S	0.15	88	6.9	ND	---	7.83
584-210-0.3	0.3	130	3.8	---	0.42	---
584-211-S	0.15	54	2.5	---	---	8.27
584-211-0.3	0.3	14	---	---	---	---
584-212-S	0.15	96	7.6	ND	0.3	7.52
584-212-0.3	0.3	59	4.1	---	---	---
585-213-S	0.15	74	4.7	---	---	8.82
584-213-0.3	0.3	23	---	---	---	---
Group 20						
584-206-S	0.15	ND	---	---	---	8.47
584-206-0.3	0.3	8.7	---	---	---	---
584-207-S	0.15	31	---	---	---	8.58
584-207-0.3	0.3	22	---	---	---	---
584-208-S	0.15	110	7.1	ND	0.3	8.2
584-208-0.3	0.3	77	1.7	---	0.25	---
584-209-S	0.15	70	6.1	ND	---	7.6
584-209-0.3	0.3	73	4.2	---	---	---

Notes:

- mg/kg = milligrams per kilogram
- mg/l = milligrams per liter
-
-
- EPA = United States Environmental Protection Agency
- ND = not detected above laboratory detection limits (5 mg/kg Total lead and 0.2 mg/l Soluble lead)

APPENDIX



A

UniqueID	BoreholeID	BoreholeLatitude	BoreholeLongitude
584	584-101	34.1709535	-118.4673998
584	584-102	34.1718563	-118.4673039
584	584-103	34.172356	-118.4673176
584	584-104	34.1732272	-118.4674445
584	584-105	34.187334	-118.4739271
584	584-106	34.1879405	-118.4739462
584	584-107	34.186792	-118.4737582
584	584-108	34.1867434	-118.47373
584	584-109	34.1939869	-118.4739777
584	584-110	34.1938157	-118.4739755
584	584-111	34.1940305	-118.4746667
584	584-112	34.1938129	-118.4747947
584	584-113	34.1995931	-118.4735401
584	584-114	34.201008	-118.4730638
584	584-115	34.2014122	-118.4725423
584	584-116	34.2026319	-118.4729112
584	584-117	34.2024467	-118.4729408
584	584-118	34.2026355	-118.4730648
584	584-119	34.2028667	-118.4731109
584	584-120	34.202979	-118.472736
584	584-121	34.2040844	-118.4729291
584	584-122	34.2047256	-118.4729758
584	584-123	34.2053922	-118.4729662
584	584-124	34.2062369	-118.472972
584	584-125	34.2067199	-118.4729955
584	584-126	34.2078582	-118.4729018
584	584-127	34.2080798	-118.4729066
584	584-128	34.2083051	-118.4729486
584	584-129	34.2083145	-118.4730225
584	584-130	34.2085778	-118.4729653
584	584-131	34.2085281	-118.4737208
584	584-132	34.2083071	-118.4736456
584	584-133	34.2197953	-118.4729524
584	584-134	34.2212289	-118.4728158
584	584-135	34.2219454	-118.4727764
584	584-136	34.2225279	-118.4729008
584	584-137	34.2344506	-118.4727818
584	584-138	34.2353701	-118.4726754
584	584-139	34.2359016	-118.4726211
584	584-140	34.2369707	-118.4727595
584	584-141	34.2557039	-118.4718854
584	584-142	34.2563897	-118.4719312
584	584-143	34.2560774	-118.4715456
584	584-144	34.2569803	-118.4712296
584	584-201	34.2575728	-118.4732471
584	584-202	34.257168	-118.4728784

UniqueID	BoreholeID	BoreholeLatitude	BoreholeLongitude
584	584-203	34.2571969	-118.4727678
584	584-204	34.2566095	-118.472708
584	584-205	34.2562357	-118.4726737
584	584-206	34.2502238	-118.4727353
584	584-207	34.2499708	-118.4727003
584	584-208	34.2499551	-118.4719008
584	584-209	34.25024	-118.4719328
584	584-210	34.242929	-118.4733996
584	584-211	34.2427224	-118.4734451
584	584-212	34.2427173	-118.4726351
584	584-213	34.2429446	-118.4726426
584	584-214	34.2371761	-118.4733061
584	584-215	34.2365296	-118.4733542
584	584-216	34.2351809	-118.4734309
584	584-217	34.2344085	-118.4733354
584	584-218	34.2283975	-118.4734792
584	584-219	34.2282147	-118.4734985
584	584-220	34.2282253	-118.4727274
584	584-221	34.2284016	-118.4727428
584	584-222	34.2230729	-118.4735483
584	584-223	34.2225156	-118.4735531
584	584-224	34.221051	-118.4736158
584	584-225	34.2200565	-118.4735472
584	584-226	34.2028733	-118.4737415
584	584-227	34.2026547	-118.4738422
584	584-228	34.2026652	-118.4737241
584	584-229	34.2025554	-118.4738801
584	584-230	34.2012972	-118.4739735
584	584-231	34.2008876	-118.4739438
584	584-232	34.2003087	-118.4740053
584	584-233	34.1975974	-118.4748692
584	584-234	34.1970024	-118.4748267
584	584-235	34.1961724	-118.4748331
584	584-236	34.195595	-118.474822
584	584-237	34.195232	-118.4748302
584	584-238	34.1946319	-118.4748343
584	584-239	34.1934605	-118.4748337
584	584-240	34.1927863	-118.4748262
584	584-241	34.1920188	-118.47483
584	584-242	34.1918393	-118.4748314
584	584-243	34.1915377	-118.4748138
584	584-244	34.1912417	-118.4749348
584	584-245	34.1894798	-118.4745097
584	584-246	34.1893495	-118.4745478
584	584-247	34.1892373	-118.4746489
584	584-248	34.1882276	-118.4747899

UniqueID	BoreholeID	BoreholeLatitude	BoreholeLongitude
584	584-249	34.1878342	-118.4748601
584	584-250	34.1873707	-118.4748011
584	584-251	34.1868376	-118.4746122
584	584-252	34.1865374	-118.4745754
584	584-253	34.1864519	-118.4757395
584	584-254	34.1850887	-118.4739328
584	584-255	34.1750964	-118.4680108
584	584-256	34.1724721	-118.4682468
584	584-257	34.1717473	-118.4681779
584	584-258	34.1706188	-118.4681113

BoreholeDepth	ParcelNumber
0.3	
0.3	
0.3	
0.3	
0.3	
0.3	
0.3	
0.3	
0.3	
0.3	
0.3	

BoreholeID	SampleID	SampleDate	SampleDepth
584-101	584-101-0.3	10/29/2002	0.3
584-101	584-101-S	10/29/2002	0.15
584-102	584-102-0.3	10/29/2002	0.3
584-102	584-102-S	10/29/2002	0.15
584-103	584-103-0.3	10/29/2002	0.3
584-103	584-103-S	10/29/2002	0.15
584-104	584-104-0.3	10/29/2002	0.3
584-104	584-104-S	10/29/2002	0.15
584-105	584-105-0.3	10/29/2002	0.3
584-105	584-105-S	10/29/2002	0.15
584-106	584-106-0.3	10/29/2002	0.3
584-106	584-106-S	10/29/2002	0.15
584-107	584-107-0.3	10/29/2002	0.3
584-107	584-107-S	10/29/2002	0.15
584-108	584-108-0.3	10/29/2002	0.3
584-108	584-108-S	10/29/2002	0.15
584-109	584-109-0.3	10/29/2002	0.3
584-109	584-109-S	10/29/2002	0.15
584-110	584-110-0.3	10/29/2002	0.3
584-110	584-110-S	10/29/2002	0.15
584-111	584-111-0.3	10/29/2002	0.3
584-111	584-111-S	10/29/2002	0.15
584-112	584-112-0.3	10/29/2002	0.3
584-112	584-112-S	10/29/2002	0.15
584-113	584-113-0.3	10/29/2002	0.3
584-113	584-113-S	10/29/2002	0.15
584-114	584-114-0.3	10/29/2002	0.3
584-114	584-114-S	10/29/2002	0.15
584-115	584-115-0.3	10/29/2002	0.3
584-115	584-115-S	10/29/2002	0.15
584-116	584-116-0.3	10/29/2002	0.3
584-116	584-116-S	10/29/2002	0.15
584-117	584-117-0.3	10/29/2002	0.3
584-117	584-117-S	10/29/2002	0.15
584-118	584-118-0.3	10/29/2002	0.3
584-118	584-118-S	10/29/2002	0.15
584-119	584-119-0.3	10/29/2002	0.3
584-119	584-119-S	10/29/2002	0.15
584-120	584-120-0.3	10/29/2002	0.3
584-120	584-120-S	10/29/2002	0.15
584-121	584-121-0.3	10/29/2002	0.3
584-121	584-121-S	10/29/2002	0.15
584-122	584-122-0.3	10/29/2002	0.3
584-122	584-122-S	10/29/2002	0.15
584-123	584-123-0.3	10/29/2002	0.3
584-123	584-123-S	10/29/2002	0.15

BoreholeID	SampleID	SampleDate	SampleDepth
584-124	584-124-0.3	10/29/2002	0.3
584-124	584-124-S	10/29/2002	0.15
584-125	584-125-0.3	10/29/2002	0.3
584-125	584-125-S	10/29/2002	0.15
584-126	584-126-0.3	10/29/2002	0.3
584-126	584-126-S	10/29/2002	0.15
584-127	584-127-0.3	10/29/2002	0.3
584-127	584-127-S	10/29/2002	0.15
584-128	584-128-0.3	10/29/2002	0.3
584-128	584-128-S	10/29/2002	0.15
584-129	584-129-0.3	10/29/2002	0.3
584-129	584-129-S	10/29/2002	0.15
584-130	584-130-0.3	10/29/2002	0.3
584-130	584-130-S	10/29/2002	0.15
584-131	584-131-0.3	10/29/2002	0.3
584-131	584-131-S	10/29/2002	0.15
584-132	584-132-0.3	10/29/2002	0.3
584-132	584-132-S	10/29/2002	0.15
584-133	584-133-0.3	10/29/2002	0.3
584-133	584-133-S	10/29/2002	0.15
584-134	584-134-0.3	10/29/2002	0.3
584-134	584-134-S	10/29/2002	0.15
584-135	584-135-0.3	10/29/2002	0.3
584-135	584-135-S	10/29/2002	0.15
584-136	584-136-0.3	10/29/2002	0.3
584-136	584-136-S	10/29/2002	0.15
584-137	584-137-0.3	10/29/2002	0.3
584-137	584-137-S	10/29/2002	0.15
584-138	584-138-0.3	10/29/2002	0.3
584-138	584-138-S	10/29/2002	0.15
584-139	584-139-0.3	10/29/2002	0.3
584-139	584-139-S	10/29/2002	0.15
584-140	584-140-0.3	10/29/2002	0.3
584-140	584-140-S	10/29/2002	0.15
584-141	584-141-0.3	10/29/2002	0.3
584-141	584-141-S	10/29/2002	0.15
584-142	584-142-0.3	10/29/2002	0.3
584-142	584-142-S	10/29/2002	0.15
584-143	584-143-0.3	10/29/2002	0.3
584-143	584-143-S	10/29/2002	0.15
584-144	584-144-0.3	10/29/2002	0.3
584-144	584-144-S	10/29/2002	0.15
584-201	584-201-0.3	10/29/2002	0.3
584-201	584-201-S	10/29/2002	0.15
584-202	584-202-0.3	10/29/2002	0.3
584-202	584-202-S	10/29/2002	0.15

BoreholeID	SampleID	SampleDate	SampleDepth
584-203	584-203-0.3	10/29/2002	0.3
584-203	584-203-S	10/29/2002	0.15
584-204	584-204-0.3	10/29/2002	0.3
584-204	584-204-S	10/29/2002	0.15
584-205	584-205-0.3	10/29/2002	0.3
584-205	584-205-S	10/29/2002	0.15
584-206	584-206-0.3	10/29/2002	0.3
584-206	584-206-S	10/29/2002	0.15
584-207	584-207-0.3	10/29/2002	0.3
584-207	584-207-S	10/29/2002	0.15
584-208	584-208-0.3	10/29/2002	0.3
584-208	584-208-S	10/29/2002	0.15
584-209	584-209-0.3	10/29/2002	0.3
584-209	584-209-S	10/29/2002	0.15
584-210	584-210-0.3	10/29/2002	0.3
584-210	584-210-S	10/29/2002	0.15
584-211	584-211-0.3	10/29/2002	0.3
584-211	584-211-S	10/29/2002	0.15
584-212	584-212-0.3	10/29/2002	0.3
584-212	584-212-S	10/29/2002	0.15
584-213	584-213-0.3	10/29/2002	0.3
584-213	584-213-S	10/29/2002	0.15
584-214	584-214-0.3	10/29/2002	0.3
584-214	584-214-S	10/29/2002	0.15
584-215	584-215-0.3	10/29/2002	0.3
584-215	584-215-S	10/29/2002	0.15
584-216	584-216-0.3	10/29/2002	0.3
584-216	584-216-S	10/29/2002	0.15
584-217	584-217-0.3	10/29/2002	0.3
584-217	584-217-S	10/29/2002	0.15
584-218	584-218-0.3	10/29/2002	0.3
584-218	584-218-S	10/29/2002	0.15
584-219	584-219-0.3	10/29/2002	0.3
584-219	584-219-S	10/29/2002	0.15
584-220	584-220-0.3	10/29/2002	0.3
584-220	584-220-S	10/29/2002	0.15
584-221	584-221-0.3	10/29/2002	0.3
584-221	584-221-S	10/29/2002	0.15
584-222	584-222-0.3	10/29/2002	0.3
584-222	584-222-S	10/29/2002	0.15
584-223	584-223-0.3	10/29/2002	0.3
584-223	584-223-S	10/29/2002	0.15
584-224	584-224-0.3	10/29/2002	0.3
584-224	584-224-S	10/29/2002	0.15
584-225	584-225-0.3	10/29/2002	0.3
584-225	584-225-S	10/29/2002	0.15

BoreholeID	SampleID	SampleDate	SampleDepth
584-226	584-226-0.3	10/29/2002	0.3
584-226	584-226-S	10/29/2002	0.15
584-227	584-227-0.3	10/29/2002	0.3
584-227	584-227-S	10/29/2002	0.15
584-228	584-228-0.3	10/29/2002	0.3
584-228	584-228-S	10/29/2002	0.15
584-229	584-229-0.3	10/29/2002	0.3
584-229	584-229-S	10/29/2002	0.15
584-230	584-230-0.3	10/29/2002	0.3
584-230	584-230-S	10/29/2002	0.15
584-231	584-231-0.3	10/29/2002	0.3
584-231	584-231-S	10/29/2002	0.15
584-232	584-232-0.3	10/29/2002	0.3
584-232	584-232-S	10/29/2002	0.15
584-233	584-233-0.3	10/29/2002	0.3
584-233	584-233-S	10/29/2002	0.15
584-234	584-234-0.3	10/29/2002	0.3
584-234	584-234-S	10/29/2002	0.15
584-235	584-235-0.3	10/29/2002	0.3
584-235	584-235-S	10/29/2002	0.15
584-236	584-236-0.3	10/29/2002	0.3
584-236	584-236-S	10/29/2002	0.15
584-237	584-237-0.3	10/29/2002	0.3
584-237	584-237-S	10/29/2002	0.15
584-238	584-238-0.3	10/29/2002	0.3
584-238	584-238-S	10/29/2002	0.15
584-239	584-239-0.3	10/29/2002	0.3
584-239	584-239-S	10/29/2002	0.15
584-240	584-240-0.3	10/29/2002	0.3
584-240	584-240-S	10/29/2002	0.15
584-241	584-241-0.3	10/29/2002	0.3
584-241	584-241-S	10/29/2002	0.15
584-242	584-242-0.3	10/29/2002	0.3
584-242	584-242-S	10/29/2002	0.15
584-243	584-243-0.3	10/29/2002	0.3
584-243	584-243-S	10/29/2002	0.15
584-244	584-244-0.3	10/29/2002	0.3
584-244	584-244-S	10/29/2002	0.15
584-245	584-245-0.3	10/29/2002	0.3
584-245	584-245-S	10/29/2002	0.15
584-246	584-246-0.3	10/29/2002	0.3
584-246	584-246-S	10/29/2002	0.15
584-247	584-247-0.3	10/29/2002	0.3
584-247	584-247-S	10/29/2002	0.15
584-248	584-248-0.3	10/29/2002	0.3
584-248	584-248-S	10/29/2002	0.15

BoreholeID	SampleID	SampleDate	SampleDepth
584-249	584-249-0.3	10/29/2002	0.3
584-249	584-249-S	10/29/2002	0.15
584-250	584-250-0.3	10/29/2002	0.3
584-250	584-250-S	10/29/2002	0.15
584-251	584-251-0.3	10/29/2002	0.3
584-251	584-251-S	10/29/2002	0.15
584-252	584-252-0.3	10/29/2002	0.3
584-252	584-252-S	10/29/2002	0.15
584-253	584-253-0.3	10/29/2002	0.3
584-253	584-253-S	10/29/2002	0.15
584-254	584-254-0.3	10/29/2002	0.3
584-254	584-254-S	10/29/2002	0.15
584-255	584-255-0.3	10/29/2002	0.3
584-255	584-255-S	10/29/2002	0.15
584-256	584-256-0.3	10/29/2002	0.3
584-256	584-256-S	10/29/2002	0.15
584-257	584-257-0.3	10/29/2002	0.3
584-257	584-257-S	10/29/2002	0.15
584-258	584-258-0.3	10/29/2002	0.3
584-258	584-258-S	10/29/2002	0.15

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdlPql	MdlPqlValue
584-101-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	940	mg/kg	pql	5
584-101-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	79	mg/l	pql	0.2
584-101-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	1.20	mg/l	pql	0.2
584-101-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	1.5	mg/l	pql	0.2
584-101-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	880	mg/kg	pql	5
584-101-S	Advanced Tec	11/8/02	Soil	STLC	Lead	120	mg/l	pql	0.2
584-101-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.80	mg/l	pql	0.2
584-101-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.32	pH	pql	0.1
584-102-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	200	mg/kg	pql	5
584-102-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	17	mg/l	pql	0.2
584-102-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-102-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	480	mg/kg	pql	5
584-102-S	Advanced Tec	11/8/02	Soil	STLC	Lead	36	mg/l	pql	0.2
584-102-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.26	mg/l	pql	0.2
584-102-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.79	pH	pql	0.1
584-103-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	270	mg/kg	pql	5
584-103-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	26	mg/l	pql	0.2
584-103-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.47	mg/l	pql	0.2
584-103-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	640	mg/kg	pql	5
584-103-S	Advanced Tec	11/8/02	Soil	STLC	Lead	61	mg/l	pql	0.2
584-103-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	1.60	mg/l	pql	0.2
584-103-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.14	pH	pql	0.1
584-104-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	690	mg/kg	pql	5
584-104-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	65	mg/l	pql	0.2
584-104-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.29	mg/l	pql	0.2
584-104-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	1,000	mg/kg	pql	5
584-104-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	2.2	mg/l	pql	0.2
584-104-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.06	pH	pql	0.1
584-105-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	46	mg/kg	pql	5
584-105-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	70	mg/kg	pql	5
584-105-S	Advanced Tec	11/8/02	Soil	STLC	Lead	4	mg/l	pql	0.2
584-105-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.55	pH	pql	0.1
584-106-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	110	mg/kg	pql	5

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdIPql	MdIPqlValue
584-106-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	5.2	mg/l	pql	0.2
584-106-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-106-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	1,100	mg/kg	pql	5
584-106-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	5.8	mg/l	pql	0.2
584-106-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.61	pH	pql	0.1
584-107-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	690	mg/kg	pql	5
584-107-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	73	mg/l	pql	0.2
584-107-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-107-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	840	mg/kg	pql	5
584-107-S	Advanced Tec	11/8/02	Soil	STLC	Lead	60	mg/l	pql	0.2
584-107-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.29	mg/l	pql	0.2
584-107-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	1.7	mg/l	pql	0.2
584-107-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.73	pH	pql	0.1
584-108-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	37	mg/kg	pql	5
584-108-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	150	mg/kg	pql	5
584-108-S	Advanced Tec	11/8/02	Soil	STLC	Lead	12	mg/l	pql	0.2
584-108-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.33	mg/l	pql	0.2
584-108-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.43	pH	pql	0.1
584-109-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	180	mg/kg	pql	5
584-109-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	7.8	mg/l	pql	0.2
584-109-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-109-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	360	mg/kg	pql	5
584-109-S	Advanced Tec	11/8/02	Soil	STLC	Lead	29	mg/l	pql	0.2
584-109-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.38	mg/l	pql	0.2
584-109-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.23	mg/l	pql	0.2
584-109-S	Advanced Tec	10/31/02	Soil	pH	Lead	6.31	pH	pql	0.1
584-110-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	160	mg/kg	pql	5
584-110-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	12	mg/l	pql	0.2
584-110-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.24	mg/l	pql	0.2
584-110-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	70	mg/kg	pql	5
584-110-S	Advanced Tec	11/8/02	Soil	STLC	Lead	5.2	mg/l	pql	0.2
584-110-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.21	mg/l	pql	0.2
584-110-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.76	pH	pql	0.1

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdIPql	MdIPqlValue
584-111-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	260	mg/kg	pql	5
584-111-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	16	mg/l	pql	0.2
584-111-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.21	mg/l	pql	0.2
584-111-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	280	mg/kg	pql	5
584-111-S	Advanced Tec	11/8/02	Soil	STLC	Lead	17	mg/l	pql	0.2
584-111-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.26	mg/l	pql	0.2
584-111-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.33	mg/l	pql	0.2
584-111-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.32	pH	pql	0.1
584-112-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	39	mg/kg	pql	5
584-112-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	150	mg/kg	pql	5
584-112-S	Advanced Tec	11/8/02	Soil	STLC	Lead	9.4	mg/l	pql	0.2
584-112-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-112-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.04	pH	pql	0.1
584-113-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	410	mg/kg	pql	5
584-113-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	33	mg/l	pql	0.2
584-113-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.25	mg/l	pql	0.2
584-113-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	1.5	mg/l	pql	0.2
584-113-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	200	mg/kg	pql	5
584-113-S	Advanced Tec	11/8/02	Soil	STLC	Lead	8.2	mg/l	pql	0.2
584-113-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-113-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.19	pH	pql	0.1
584-114-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	63	mg/kg	pql	5
584-114-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	4.1	mg/l	pql	0.2
584-114-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	430	mg/kg	pql	5
584-114-S	Advanced Tec	11/8/02	Soil	STLC	Lead	34	mg/l	pql	0.2
584-114-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.37	mg/l	pql	0.2
584-114-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.32	mg/l	pql	0.2
584-115-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	31	mg/kg	pql	5
584-115-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	170	mg/kg	pql	5
584-115-S	Advanced Tec	11/8/02	Soil	STLC	Lead	9.1	mg/l	pql	0.2
584-115-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-115-S	Advanced Tec	11/1/02	Soil	pH	Lead	6.89	pH	pql	0.1
584-116-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	180	mg/kg	pql	5

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdIPqI	MdIPqIValue
584-116-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	10	mg/l	pqI	0.2
584-116-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pqI	0.2
584-116-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	92	mg/kg	pqI	5
584-116-S	Advanced Tec	11/8/02	Soil	STLC	Lead	13	mg/l	pqI	0.2
584-116-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pqI	0.2
584-117-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	330	mg/kg	pqI	5
584-117-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	14	mg/l	pqI	0.2
584-117-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pqI	0.2
584-117-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	ND	mg/l	pqI	0.2
584-117-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	310	mg/kg	pqI	5
584-117-S	Advanced Tec	11/8/02	Soil	STLC	Lead	29	mg/l	pqI	0.2
584-117-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pqI	0.2
584-117-S	Advanced Tec	11/1/02	Soil	pH	Lead	7.04	pH	pqI	0.1
584-118-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	15	mg/kg	pqI	5
584-118-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	12	mg/kg	pqI	5
584-119-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	190	mg/kg	pqI	5
584-119-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	23	mg/l	pqI	0.2
584-119-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pqI	0.2
584-119-0.3	Advanced Tec	11/1/02	Soil	pH	Lead	6.91	pH	pqI	0.1
584-119-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	530	mg/kg	pqI	5
584-119-S	Advanced Tec	11/8/02	Soil	STLC	Lead	41	mg/l	pqI	0.2
584-119-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pqI	0.2
584-119-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.35	mg/l	pqI	0.2
584-120-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	46	mg/kg	pqI	5
584-120-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	100	mg/kg	pqI	5
584-120-S	Advanced Tec	11/8/02	Soil	STLC	Lead	0.74	mg/l	pqI	0.2
584-120-S	Advanced Tec	11/1/02	Soil	pH	Lead	7.9	pH	pqI	0.1
584-121-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	160	mg/kg	pqI	5
584-121-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	1.2	mg/l	pqI	0.2
584-121-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	420	mg/kg	pqI	5
584-121-S	Advanced Tec	11/8/02	Soil	STLC	Lead	38	mg/l	pqI	0.2
584-121-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pqI	0.2
584-121-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.55	mg/l	pqI	0.2

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdIPqI	MdIPqIValue
584-122-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	47	mg/kg	pql	5
584-122-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	490	mg/kg	pql	5
584-122-S	Advanced Tec	11/8/02	Soil	STLC	Lead	29	mg/l	pql	0.2
584-122-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-122-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.73	mg/l	pql	0.2
584-123-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	33	mg/kg	pql	5
584-123-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	22	mg/kg	pql	5
584-123-S	Advanced Tec	11/1/02	Soil	pH	Lead	6.85	pH	pql	0.1
584-124-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	18	mg/kg	pql	5
584-124-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	400	mg/kg	pql	5
584-124-S	Advanced Tec	11/8/02	Soil	STLC	Lead	24	mg/l	pql	0.2
584-124-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-124-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.28	mg/l	pql	0.2
584-125-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	24	mg/kg	pql	5
584-125-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	190	mg/kg	pql	5
584-125-S	Advanced Tec	11/8/02	Soil	STLC	Lead	19	mg/l	pql	0.2
584-125-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-125-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.38	mg/l	pql	0.2
584-126-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	130	mg/kg	pql	5
584-126-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	9.3	mg/l	pql	0.2
584-126-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-126-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	120	mg/kg	pql	5
584-126-S	Advanced Tec	11/8/02	Soil	STLC	Lead	0.86	mg/l	pql	0.2
584-126-S	Advanced Tec	11/1/02	Soil	pH	Lead	7.83	pH	pql	0.1
584-127-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	69	mg/kg	pql	5
584-127-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	3.6	mg/l	pql	0.2
584-127-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	140	mg/kg	pql	5
584-127-S	Advanced Tec	11/8/02	Soil	STLC	Lead	9.7	mg/l	pql	0.2
584-127-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-128-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	22	mg/kg	pql	5
584-128-0.3	Advanced Tec	11/1/02	Soil	pH	Lead	7.94	pH	pql	0.1
584-128-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	270	mg/kg	pql	5
584-128-S	Advanced Tec	11/8/02	Soil	STLC	Lead	19	mg/l	pql	0.2

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdIPql	MdIPqlValue
584-128-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.28	mg/l	pql	0.2
584-128-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.25	mg/l	pql	0.2
584-129-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	5.4	mg/kg	pql	5
584-129-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	32	mg/kg	pql	5
584-129-S	Advanced Tec	11/1/02	Soil	pH	Lead	7.05	pH	pql	0.1
584-130-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	90	mg/kg	pql	5
584-130-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	5.2	mg/l	pql	0.2
584-130-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-130-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	ND	mg/l	pql	0.2
584-130-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	64	mg/kg	pql	5
584-130-S	Advanced Tec	11/8/02	Soil	STLC	Lead	3.4	mg/l	pql	0.2
584-130-S	Advanced Tec	11/1/02	Soil	pH	Lead	7.73	pH	pql	0.1
584-131-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	18	mg/kg	pql	5
584-131-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	52	mg/kg	pql	5
584-131-S	Advanced Tec	11/8/02	Soil	STLC	Lead	2.3	mg/l	pql	0.2
584-131-S	Advanced Tec	11/1/02	Soil	pH	Lead	8.22	pH	pql	0.1
584-132-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	58	mg/kg	pql	5
584-132-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	3.7	mg/l	pql	0.2
584-132-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	100	mg/kg	pql	5
584-132-S	Advanced Tec	11/8/02	Soil	STLC	Lead	5.4	mg/l	pql	0.2
584-132-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-132-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.23	mg/l	pql	0.2
584-132-S	Advanced Tec	11/1/02	Soil	pH	Lead	7.71	pH	pql	0.1
584-133-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	1400	mg/kg	pql	5
584-133-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	6.7	mg/l	pql	0.2
584-133-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	1300	mg/kg	pql	5
584-133-S	Advanced Tec	11/4/02	Soil	pH	Lead	8.10	pH	pql	0.1
584-134-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	70	mg/kg	pql	5
584-134-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	6.7	mg/l	pql	0.2
584-134-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-134-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	85	mg/kg	pql	5
584-134-S	Advanced Tec	11/8/02	Soil	STLC	Lead	21	mg/l	pql	0.2
584-134-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdIPql	MdIPqlValue
584-134-S	Advanced Tec	11/4/02	Soil	pH	Lead	6.97	pH	pql	0.1
584-135-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	100	mg/kg	pql	5
584-135-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	22	mg/l	pql	0.2
584-135-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-135-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	390	mg/kg	pql	5
584-135-S	Advanced Tec	11/8/02	Soil	STLC	Lead	90	mg/l	pql	0.2
584-135-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.83	mg/l	pql	0.2
584-135-S	Advanced Tec	11/4/02	Soil	pH	Lead	7.34	pH	pql	0.1
584-136-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	190	mg/kg	pql	5
584-136-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	22	mg/l	pql	0.2
584-136-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.65	mg/l	pql	0.2
584-136-S	Advanced Tec	11/5/02	Soil	TTLC	Lead	6400	mg/kg	pql	5
584-136-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	4.2	mg/l	pql	0.2
584-136-S	Advanced Tec	11/4/02	Soil	pH	Lead	7.53	pH	pql	0.1
584-137-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	290	mg/kg	pql	5
584-137-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	13	mg/l	pql	0.2
584-137-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.37	mg/l	pql	0.2
584-137-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	140	mg/kg	pql	5
584-137-S	Advanced Tec	11/8/02	Soil	STLC	Lead	57	mg/l	pql	0.2
584-137-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.25	mg/l	pql	0.2
584-137-S	Advanced Tec	11/4/02	Soil	pH	Lead	7.4	pH	pql	0.1
584-138-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	190	mg/kg	pql	5
584-138-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	0.91	mg/l	pql	0.2
584-138-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	390	mg/kg	pql	5
584-138-S	Advanced Tec	11/8/02	Soil	STLC	Lead	19	mg/l	pql	0.2
584-138-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.25	mg/l	pql	0.2
584-138-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.5	mg/l	pql	0.2
584-138-S	Advanced Tec	11/4/02	Soil	pH	Lead	6.15	pH	pql	0.1
584-139-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	62	mg/kg	pql	5
584-139-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	2.4	mg/l	pql	0.2
584-139-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	160	mg/kg	pql	5
584-139-S	Advanced Tec	11/8/02	Soil	STLC	Lead	9.6	mg/l	pql	0.2
584-139-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdiPql	MdiPqlValue
584-139-S	Advanced Tec	11/4/02	Soil	pH	Lead	6.55	pH	pql	0.1
584-140-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	320	mg/kg	pql	5
584-140-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	33	mg/l	pql	0.2
584-140-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.53	mg/l	pql	0.2
584-140-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.84	mg/l	pql	0.2
584-140-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	100	mg/kg	pql	5
584-140-S	Advanced Tec	11/8/02	Soil	STLC	Lead	59	mg/l	pql	0.2
584-140-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.36	mg/l	pql	0.2
584-140-S	Advanced Tec	11/4/02	Soil	pH	Lead	7.65	pH	pql	0.1
584-141-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	110	mg/kg	pql	5
584-141-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	5.9	mg/l	pql	0.2
584-141-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-141-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.37	mg/l	pql	0.2
584-141-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	240	mg/kg	pql	5
584-141-S	Advanced Tec	11/8/02	Soil	STLC	Lead	6.9	mg/l	pql	0.2
584-141-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-141-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.3	mg/l	pql	0.2
584-141-S	Advanced Tec	11/4/02	Soil	pH	Lead	7.15	pH	pql	0.1
584-142-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	40	mg/kg	pql	5
584-142-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	76	mg/kg	pql	5
584-142-S	Advanced Tec	11/8/02	Soil	STLC	Lead	3.6	mg/l	pql	0.2
584-142-S	Advanced Tec	11/4/02	Soil	pH	Lead	7.49	pH	pql	0.1
584-143-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	13	mg/kg	pql	5
584-143-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	33	mg/kg	pql	5
584-143-S	Advanced Tec	11/4/02	Soil	pH	Lead	8.34	pH	pql	0.1
584-144-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	56	mg/kg	pql	5
584-144-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	2.5	mg/l	pql	0.2
584-144-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	46	mg/kg	pql	5
584-144-S	Advanced Tec	11/4/02	Soil	pH	Lead	6.88	pH	pql	0.1
584-201-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	29	mg/kg	pql	5
584-201-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	69	mg/kg	pql	5
584-201-S	Advanced Tec	11/8/02	Soil	STLC	Lead	7.9	mg/l	pql	0.2
584-201-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.36	mg/l	pql	0.2

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdIPql	MdIPqIValue
584-201-S	Advanced Tec	10/31/02	Soil	pH	Lead	6.38	pH	pql	0.1
584-202-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	25	mg/kg	pql	5
584-202-0.3	Advanced Tec	10/31/02	Soil	pH	Lead	7.68	pH	pql	0.1
584-202-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	75	mg/kg	pql	5
584-202-S	Advanced Tec	11/8/02	Soil	STLC	Lead	2.7	mg/l	pql	0.2
584-203-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	13	mg/kg	pql	5
584-203-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	140	mg/kg	pql	5
584-203-S	Advanced Tec	11/8/02	Soil	STLC	Lead	7	mg/l	pql	0.2
584-203-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-203-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.35	mg/l	pql	0.2
584-204-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	68	mg/kg	pql	5
584-204-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	3.8	mg/l	pql	0.2
584-204-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	80	mg/kg	pql	5
584-204-S	Advanced Tec	11/8/02	Soil	STLC	Lead	7.3	mg/l	pql	0.2
584-204-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-204-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.32	mg/l	pql	0.2
584-204-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.32	pH	pql	0.1
584-205-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	16	mg/kg	pql	5
584-205-0.3	Advanced Tec	10/31/02	Soil	pH	Lead	6.81	pH	pql	0.1
584-205-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	500	mg/kg	pql	5
584-205-S	Advanced Tec	11/8/02	Soil	STLC	Lead	28	mg/l	pql	0.2
584-205-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	1.00	mg/l	pql	0.2
584-205-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	1.7	mg/l	pql	0.2
584-206-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	8.7	mg/kg	pql	5
584-206-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	ND	mg/kg	pql	5
584-206-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.47	pH	pql	0.1
584-207-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	22	mg/kg	pql	5
584-207-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	31	mg/kg	pql	5
584-207-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.58	pH	pql	0.1
584-208-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	77	mg/kg	pql	5
584-208-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	1.7	mg/l	pql	0.2
584-208-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.25	mg/l	pql	0.2
584-208-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	110	mg/kg	pql	5

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdIPqI	MdIPqIValue
584-208-S	Advanced Tec	11/8/02	Soil	STLC	Lead	7.1	mg/l	pqI	0.2
584-208-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pqI	0.2
584-208-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.3	mg/l	pqI	0.2
584-208-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.2	pH	pqI	0.1
584-209-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	73	mg/kg	pqI	5
584-209-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	4.2	mg/l	pqI	0.2
584-209-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	70	mg/kg	pqI	5
584-209-S	Advanced Tec	11/8/02	Soil	STLC	Lead	6.1	mg/l	pqI	0.2
584-209-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pqI	0.2
584-209-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.6	pH	pqI	0.1
584-210-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	130	mg/kg	pqI	5
584-210-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	3.8	mg/l	pqI	0.2
584-210-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.42	mg/l	pqI	0.2
584-210-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	88	mg/kg	pqI	5
584-210-S	Advanced Tec	11/8/02	Soil	STLC	Lead	6.9	mg/l	pqI	0.2
584-210-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pqI	0.2
584-210-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.83	pH	pqI	0.1
584-211-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	14	mg/kg	pqI	5
584-211-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	54	mg/kg	pqI	5
584-211-S	Advanced Tec	11/8/02	Soil	STLC	Lead	2.5	mg/l	pqI	0.2
584-211-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.27	pH	pqI	0.1
584-212-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	59	mg/kg	pqI	5
584-212-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	4.1	mg/l	pqI	0.2
584-212-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	96	mg/kg	pqI	5
584-212-S	Advanced Tec	11/8/02	Soil	STLC	Lead	7.6	mg/l	pqI	0.2
584-212-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pqI	0.2
584-212-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.3	mg/l	pqI	0.2
584-212-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.52	pH	pqI	0.1
584-213-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	23	mg/kg	pqI	5
584-213-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	74	mg/kg	pqI	5
584-213-S	Advanced Tec	11/8/02	Soil	STLC	Lead	4.7	mg/l	pqI	0.2
584-213-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.82	pH	pqI	0.1
584-214-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	360	mg/kg	pqI	5

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdlPql	MdlPqlValue
584-214-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	26	mg/l	pql	0.2
584-214-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.60	mg/l	pql	0.2
584-214-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	440	mg/kg	pql	5
584-214-S	Advanced Tec	11/8/02	Soil	STLC	Lead	25	mg/l	pql	0.2
584-214-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.39	mg/l	pql	0.2
584-214-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	2.8	mg/l	pql	0.2
584-214-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.83	pH	pql	0.1
584-215-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	49	mg/kg	pql	5
584-215-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	270	mg/kg	pql	5
584-215-S	Advanced Tec	11/8/02	Soil	STLC	Lead	17	mg/l	pql	0.2
584-215-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-215-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.97	pH	pql	0.1
584-216-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	530	mg/kg	pql	5
584-216-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	42	mg/l	pql	0.2
584-216-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.62	mg/l	pql	0.2
584-216-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	2	mg/l	pql	0.2
584-216-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	420	mg/kg	pql	5
584-216-S	Advanced Tec	11/8/02	Soil	STLC	Lead	45	mg/l	pql	0.2
584-216-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.55	mg/l	pql	0.2
584-216-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.08	pH	pql	0.1
584-217-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.22	mg/l	pql	0.2
584-217-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	170	mg/kg	pql	5
584-217-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	14	mg/l	pql	0.2
584-217-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	390	mg/kg	pql	5
584-217-S	Advanced Tec	11/8/02	Soil	STLC	Lead	29	mg/l	pql	0.2
584-217-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.26	mg/l	pql	0.2
584-217-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.64	pH	pql	0.1
584-218-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	130	mg/kg	pql	5
584-218-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	7.4	mg/l	pql	0.2
584-218-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-218-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	250	mg/kg	pql	5
584-218-S	Advanced Tec	11/8/02	Soil	STLC	Lead	15	mg/l	pql	0.2
584-218-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdIPqI	MdIPqIValue
584-218-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.5	mg/l	pql	0.2
584-218-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.82	pH	pql	0.1
584-219-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	670	mg/kg	pql	5
584-219-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	70	mg/l	pql	0.2
584-219-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	2.30	mg/l	pql	0.2
584-219-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	5.6	mg/l	pql	0.2
584-219-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	190	mg/kg	pql	5
584-219-S	Advanced Tec	11/8/02	Soil	STLC	Lead	15	mg/l	pql	0.2
584-219-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.29	mg/l	pql	0.2
584-219-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.93	pH	pql	0.1
584-220-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	24	mg/kg	pql	5
584-220-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	17	mg/kg	pql	5
584-220-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.29	pH	pql	0.1
584-221-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	20	mg/kg	pql	5
584-221-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	41	mg/kg	pql	5
584-221-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.71	pH	pql	0.1
584-222-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	310	mg/kg	pql	5
584-222-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	18	mg/l	pql	0.2
584-222-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.45	mg/l	pql	0.2
584-222-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	1,200	mg/kg	pql	5
584-222-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	3.4	mg/l	pql	0.2
584-222-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.05	pH	pql	0.1
584-223-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	78	mg/kg	pql	5
584-223-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	6.5	mg/l	pql	0.2
584-223-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.23	mg/l	pql	0.2
584-223-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	210	mg/kg	pql	5
584-223-S	Advanced Tec	11/8/02	Soil	STLC	Lead	14	mg/l	pql	0.2
584-223-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.34	mg/l	pql	0.2
584-223-S	Advanced Tec	10/31/02	Soil	pH	Lead	8.16	pH	pql	0.1
584-224-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	1,000	mg/kg	pql	5
584-224-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	1.6	mg/l	pql	0.2
584-224-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	56	mg/kg	pql	5
584-224-S	Advanced Tec	11/8/02	Soil	STLC	Lead	3.5	mg/l	pql	0.2

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdIPql	MdIPqlValue
584-224-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.48	pH	pql	0.1
584-225-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	740	mg/kg	pql	5
584-225-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	62	mg/l	pql	0.2
584-225-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	2.60	mg/l	pql	0.2
584-225-0.3	Advanced Tec	10/31/02	Soil	pH	Lead	7.42	pH	pql	0.1
584-225-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	990	mg/kg	pql	5
584-225-S	Advanced Tec	11/8/02	Soil	STLC	Lead	130	mg/l	pql	0.2
584-225-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	2.00	mg/l	pql	0.2
584-226-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	73	mg/kg	pql	5
584-226-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	4.2	mg/l	pql	0.2
584-226-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	370	mg/kg	pql	5
584-226-S	Advanced Tec	11/8/02	Soil	STLC	Lead	17	mg/l	pql	0.2
584-226-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-226-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.46	mg/l	pql	0.2
584-226-S	Advanced Tec	10/31/02	Soil	pH	Lead	7.37	pH	pql	0.1
584-227-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	41	mg/kg	pql	5
584-227-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	160	mg/kg	pql	5
584-227-S	Advanced Tec	11/8/02	Soil	STLC	Lead	11	mg/l	pql	0.2
584-227-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-227-S	Advanced Tec	10/31/02	Soil	pH	Lead	6.9	pH	pql	0.1
584-228-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	41	mg/kg	pql	5
584-228-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	360	mg/kg	pql	5
584-228-S	Advanced Tec	11/8/02	Soil	STLC	Lead	29	mg/l	pql	0.2
584-228-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.22	mg/l	pql	0.2
584-228-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.6	mg/l	pql	0.2
584-228-S	Advanced Tec	10/31/02	Soil	pH	Lead	6.59	pH	pql	0.1
584-229-0.3	Advanced Tec	11/2/02	Soil	TTLC	Lead	58	mg/kg	pql	5
584-229-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	3.3	mg/l	pql	0.2
584-229-0.3	Advanced Tec	10/31/02	Soil	pH	Lead	6.73	pH	pql	0.1
584-229-S	Advanced Tec	11/2/02	Soil	TTLC	Lead	110	mg/kg	pql	5
584-229-S	Advanced Tec	11/8/02	Soil	STLC	Lead	8.4	mg/l	pql	0.2
584-229-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.20	mg/l	pql	0.2
584-230-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	220	mg/kg	pql	5

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdIPql	MdIPqlValue
584-230-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	13	mg/l	pql	0.2
584-230-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-230-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	340	mg/kg	pql	5
584-230-S	Advanced Tec	11/8/02	Soil	STLC	Lead	34	mg/l	pql	0.2
584-230-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.30	mg/l	pql	0.2
584-230-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	1.1	mg/l	pql	0.2
584-231-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	20	mg/kg	pql	5
584-231-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	2.2	mg/l	pql	0.2
584-231-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	41	mg/kg	pql	5
584-231-S	Advanced Tec	11/8/02	Soil	STLC	Lead	43	mg/l	pql	0.2
584-231-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.38	mg/l	pql	0.2
584-231-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.66	mg/l	pql	0.2
584-232-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	120	mg/kg	pql	5
584-232-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	12	mg/l	pql	0.2
584-232-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-232-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	1500	mg/kg	pql	5
584-232-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.92	mg/l	pql	0.2
584-233-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	9	mg/kg	pql	5
584-233-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	71	mg/kg	pql	5
584-233-S	Advanced Tec	11/8/02	Soil	STLC	Lead	3.7	mg/l	pql	0.2
584-233-S	Advanced Tec	11/4/02	Soil	pH	Lead	7.82	pH	pql	0.1
584-234-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	35	mg/kg	pql	5
584-234-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	120	mg/kg	pql	5
584-234-S	Advanced Tec	11/8/02	Soil	STLC	Lead	4.7	mg/l	pql	0.2
584-234-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	ND	mg/l	pql	0.2
584-235-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	36	mg/kg	pql	5
584-235-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	58	mg/kg	pql	5
584-235-S	Advanced Tec	11/8/02	Soil	STLC	Lead	0.88	mg/l	pql	0.2
584-235-S	Advanced Tec	11/4/02	Soil	pH	Lead	6.38	pH	pql	0.1
584-236-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	15	mg/kg	pql	5
584-236-0.3	Advanced Tec	11/4/02	Soil	pH	Lead	6.72	pH	pql	0.1
584-236-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	86	mg/kg	pql	5
584-236-S	Advanced Tec	11/8/02	Soil	STLC	Lead	2.8	mg/l	pql	0.2

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdlPql	MdlPqlValue
584-237-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	22	mg/kg	pql	5
584-237-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	87	mg/kg	pql	5
584-237-S	Advanced Tec	11/8/02	Soil	STLC	Lead	4.3	mg/l	pql	0.2
584-238-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	360	mg/kg	pql	5
584-238-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	25	mg/l	pql	0.2
584-238-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.27	mg/l	pql	0.2
584-238-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.48	mg/l	pql	0.2
584-238-0.3	Advanced Tec	11/4/02	Soil	pH	Lead	6.17	pH	pql	0.1
584-238-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	170	mg/kg	pql	5
584-238-S	Advanced Tec	11/8/02	Soil	STLC	Lead	8.8	mg/l	pql	0.2
584-238-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-238-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.3	mg/l	pql	0.2
584-239-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	100	mg/kg	pql	5
584-239-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	8.3	mg/l	pql	0.2
584-239-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-239-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	140	mg/kg	pql	5
584-239-S	Advanced Tec	11/8/02	Soil	STLC	Lead	12	mg/l	pql	0.2
584-239-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-239-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.24	mg/l	pql	0.2
584-239-S	Advanced Tec	11/4/02	Soil	pH	Lead	6.14	pH	pql	0.1
584-240-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	15	mg/kg	pql	5
584-240-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	41	mg/kg	pql	5
584-241-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	110	mg/kg	pql	5
584-241-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	3.7	mg/l	pql	0.2
584-241-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	130	mg/kg	pql	5
584-241-S	Advanced Tec	11/8/02	Soil	STLC	Lead	9.3	mg/l	pql	0.2
584-241-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-241-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.41	mg/l	pql	0.2
584-241-S	Advanced Tec	11/4/02	Soil	pH	Lead	6.69	pH	pql	0.1
584-242-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	90	mg/kg	pql	5
584-242-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	1.9	mg/l	pql	0.2
584-242-0.3	Advanced Tec	11/4/02	Soil	pH	Lead	3.80	pH	pql	0.1
584-242-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	92	mg/kg	pql	5

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdlPql	MdlPqlValue
584-242-S	Advanced Tec	11/8/02	Soil	STLC	Lead	2.5	mg/l	pql	0.2
584-243-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	34	mg/kg	pql	5
584-243-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	160	mg/kg	pql	5
584-243-S	Advanced Tec	11/8/02	Soil	STLC	Lead	6.5	mg/l	pql	0.2
584-243-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-243-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.41	mg/l	pql	0.2
584-244-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	30	mg/kg	pql	5
584-244-0.3	Advanced Tec	11/4/02	Soil	pH	Lead	7.08	pH	pql	0.1
584-244-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	22	mg/kg	pql	5
584-245-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	240	mg/kg	pql	5
584-245-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	12	mg/l	pql	0.2
584-245-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-245-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	310	mg/kg	pql	5
584-245-S	Advanced Tec	11/8/02	Soil	STLC	Lead	28	mg/l	pql	0.2
584-245-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-246-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	19	mg/kg	pql	5
584-246-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	330	mg/kg	pql	5
584-246-S	Advanced Tec	11/8/02	Soil	STLC	Lead	51	mg/l	pql	0.2
584-246-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.52	mg/l	pql	0.2
584-246-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.69	mg/l	pql	0.2
584-247-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	6.4	mg/kg	pql	5
584-247-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	32	mg/kg	pql	5
584-247-S	Advanced Tec	11/4/02	Soil	pH	Lead	6.94	pH	pql	0.1
584-248-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	180	mg/kg	pql	5
584-248-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	9.5	mg/l	pql	0.2
584-248-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-248-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.67	mg/l	pql	0.2
584-248-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	330	mg/kg	pql	5
584-248-S	Advanced Tec	11/8/02	Soil	STLC	Lead	22	mg/l	pql	0.2
584-248-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.31	mg/l	pql	0.2
584-248-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.33	mg/l	pql	0.2
584-248-S	Advanced Tec	11/4/02	Soil	pH	Lead	6.75	pH	pql	0.1
584-249-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	13	mg/kg	pql	5

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdIPqI	MdIPqIValue
584-249-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	150	mg/kg	pql	5
584-249-S	Advanced Tec	11/8/02	Soil	STLC	Lead	5.9	mg/l	pql	0.2
584-249-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-249-S	Advanced Tec	11/4/02	Soil	pH	Lead	5.76	pH	pql	0.1
584-250-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	11	mg/kg	pql	5
584-250-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	68	mg/kg	pql	5
584-250-S	Advanced Tec	11/8/02	Soil	STLC	Lead	3	mg/l	pql	0.2
584-250-S	Advanced Tec	11/4/02	Soil	pH	Lead	6.15	pH	pql	0.1
584-251-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	53	mg/kg	pql	5
584-251-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	2.8	mg/l	pql	0.2
584-251-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	330	mg/kg	pql	5
584-251-S	Advanced Tec	11/8/02	Soil	STLC	Lead	24	mg/l	pql	0.2
584-251-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-251-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.55	mg/l	pql	0.2
584-252-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	65	mg/kg	pql	5
584-252-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	2.7	mg/l	pql	0.2
584-252-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	320	mg/kg	pql	5
584-252-S	Advanced Tec	11/8/02	Soil	STLC	Lead	30	mg/l	pql	0.2
584-252-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-253-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	38	mg/kg	pql	5
584-253-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	260	mg/kg	pql	5
584-253-S	Advanced Tec	11/8/02	Soil	STLC	Lead	16	mg/l	pql	0.2
584-253-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-254-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	1000	mg/kg	pql	5
584-254-0.3	Advanced Tec	11/7/02	Soil	TCLP	Lead	3.6	mg/l	pql	0.2
584-254-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	680	mg/kg	pql	5
584-254-S	Advanced Tec	11/8/02	Soil	STLC	Lead	57	mg/l	pql	0.2
584-254-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.62	mg/l	pql	0.2
584-255-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	65	mg/kg	pql	5
584-255-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	5.2	mg/l	pql	0.2
584-255-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.28	mg/l	pql	0.2
584-255-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	210	mg/kg	pql	5
584-255-S	Advanced Tec	11/8/02	Soil	STLC	Lead	11	mg/l	pql	0.2

SampleID	LabName	AnalysisDate	Matrix	AnalysisType	Analyte	Value	ResultUnits	MdIPqI	MdIPqIValue
584-255-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.41	mg/l	pql	0.2
584-255-S	Advanced Tec	11/4/02	Soil	pH	Lead	7.74	pH	pql	0.1
584-256-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	23	mg/kg	pql	5
584-256-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	660	mg/kg	pql	5
584-256-S	Advanced Tec	11/8/02	Soil	STLC	Lead	51	mg/l	pql	0.2
584-256-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	0.50	mg/l	pql	0.2
584-256-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.64	mg/l	pql	0.2
584-256-S	Advanced Tec	11/4/02	Soil	pH	Lead	6.36	pH	pql	0.1
584-257-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	28	mg/kg	pql	5
584-257-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	130	mg/kg	pql	5
584-257-S	Advanced Tec	11/8/02	Soil	STLC	Lead	27	mg/l	pql	0.2
584-257-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	ND	mg/l	pql	0.2
584-257-S	Advanced Tec	11/4/02	Soil	pH	Lead	8.28	pH	pql	0.1
584-258-0.3	Advanced Tec	11/4/02	Soil	TTLC	Lead	420	mg/kg	pql	5
584-258-0.3	Advanced Tec	11/8/02	Soil	STLC	Lead	40	mg/l	pql	0.2
584-258-0.3	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	1.00	mg/l	pql	0.2
584-258-S	Advanced Tec	11/4/02	Soil	TTLC	Lead	420	mg/kg	pql	5
584-258-S	Advanced Tec	11/8/02	Soil	STLC	Lead	31	mg/l	pql	0.2
584-258-S	Advanced Tec	11/15/02	Soil	STLC-DI	Lead	1.10	mg/l	pql	0.2
584-258-S	Advanced Tec	11/7/02	Soil	TCLP	Lead	0.8	mg/l	pql	0.2
584-258-S	Advanced Tec	11/4/02	Soil	pH	Lead	7.76	pH	pql	0.1

APPENDIX

B

APPENDIX B

GEOCON CONSULTANTS, INC. MODIFIED STANDARD OPERATING PROCEDURE (SOP) NO. 11 HAND-AUGERING AND SOIL SAMPLE COLLECTION/HANDLING

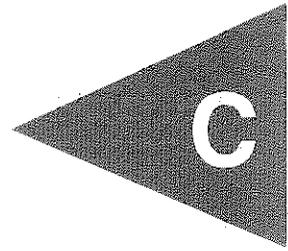
Purpose

The purpose of this SOP is to outline procedures and methods to be used to advance hand-augers and collect soil samples for chemical analyses.

Hand-Augering and Soil Sample Collection/Handling Procedures

1. Initiate boring using a hand-held 7.62 centimeter diameter stainless steel auger.
2. Advance boring to initial sample depth of approximately 0 to 0.15 m below the ground surface.
3. Transfer the soil sample from the hand auger into a plastic bag to homogenize the sample, transfer the sample from the plastic bag to a glass jar supplied by the laboratory. Label glass jar with the boring number, EA number, and sample depth.
4. Record the sample identification, time and date of sample collection, sample matrix type, turn-around time, and container type on the laboratory chain of custody.
5. Each prepared sample jar will be placed into a cooler for transport to Advanced Technology Laboratories.
6. Repeat the procedure and collect soil samples at subsequent depths as specified in the TO, if possible.
7. Backfill the borings to surface grade with soil cuttings generated.
8. Clean and rinse sampling equipment prior to the collection of each soil sample by washing the equipment with a non-phosphate detergent solution followed by subsequent tap water and deionized water rinses.
9. Transport all samples to Advanced Technology Laboratories under chain of custody control.

APPENDIX



November 05, 2002

Chris King
Geocon Environmental
6970 Flanders Drive
San Diego, CA 92121
TEL: (858) 558-6100
FAX: (858) 558-8437

RE: Route 405-EA218301, 09100-06-57

Attention: Chris King

ELAP No.: 1838

NELAP No.: 02107CA

Workorder No.: 059561

Enclosed are the results for sample(s) received on October 29, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

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

This cover letter is an integral part of this analytical report.



**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-001A	584-201-S	69	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-002A	584-201-0.3	29	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-003A	584-202-S	75	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-004A	584-202-0.3	25	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-005A	584-203-S	140	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-006A	584-203-0.3	13	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-007A	584-204-S	80	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-008A	584-204-0.3	68	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-009A	584-205-S	500	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-010A	584-205-0.3	16	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-011A	584-226-S	370	mg/Kg	11136	5	1	10/29/2002	11/2/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 DO - Surrogate Diluted Out Results are wet unless otherwise specified



**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-012A	584-226-0.3	73	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-013A	584-227-S	160	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-014A	584-227-0.3	41	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-015A	584-228-S	360	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-016A	584-228-0.3	41	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-017A	584-229-S	110	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-018A	584-229-0.3	58	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-019A	584-221-S	41	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-020A	584-221-0.3	20	mg/Kg	11136	5	1	10/29/2002	11/2/2002
059561-021A	584-222-S	1200	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-022A	584-222-0.3	310	mg/Kg	11137	5	1	10/29/2002	11/2/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 DO - Surrogate Diluted Out Results are wet unless otherwise specified



Advanced Technology Laboratories

Date: 11/5/2002

**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Environmental	Lab Order:	059561
Project:	Route 405-EA218301, 09100-06-57	Date Received:	10/29/2002 6:10:
Project No:		Matrix:	Soil
PO No:		Analyst:	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-023A	584-223-S	210	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-024A	584-223-0.3	78	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-025A	584-224-S	56	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-026A	584-224-0.3	1000	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-027A	584-225-S	990	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-028A	584-225-0.3	740	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-029A	584-216-S	420	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-030A	584-216-0.3	530	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-031A	584-217-S	390	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-032A	584-217-0.3	170	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-033A	584-218-S	250	mg/Kg	11137	5	1	10/29/2002	11/2/2002

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike/Surrogate outside of limits due to matrix interfere
	J - Analyte detected below quantitation limits	H - Sample exceeded analytical holding time
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	DO - Surrogate Diluted Out	Results are wet unless otherwise specified



**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-034A	584-218-0.3	130	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-035A	584-219-S	190	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-036A	584-219-0.3	670	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-037A	584-220-S	17	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-038A	584-220-0.3	24	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-039A	584-211-S	54	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-040A	584-211-0.3	14	mg/Kg	11137	5	1	10/29/2002	11/2/2002
059561-041A	584-212-S	96	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-042A	584-212-0.3	59	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-043A	584-213-S	74	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-044A	584-213-0.3	23	mg/Kg	11138	5	1	10/29/2002	11/2/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 DO - Surrogate Diluted Out Results are wet unless otherwise specified



**LEAD BY ICP
EPA 6010B**

CLIENT:	Geocon Environmental	Lab Order:	059561
Project:	Route 405-EA218301, 09100-06-57	Date Received:	10/29/2002 6:10:
Project No:		Matrix:	Soil
PO No:		Analyst:	RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-045A	584-214-S	440	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-046A	584-214-0.3	360	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-047A	584-215-S	270	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-048A	584-215-0.3	49	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-049A	584-206-S	ND	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-050A	584-206-0.3	8.7	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-051A	584-207-S	31	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-052A	584-207-0.3	22	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-053A	584-208-S	110	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-054A	584-208-0.3	77	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-055A	584-209-S	70	mg/Kg	11138	5	1	10/29/2002	11/2/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 DO - Surrogate Diluted Out Results are wet unless otherwise specified



**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-056A	584-209-0.3	73	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-057A	584-210-S	88	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-058A	584-210-0.3	130	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-065A	584-101-S	880	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-066A	584-101-0.3	940	mg/Kg	11138	5	1	10/29/2002	11/2/2002
059561-067A	584-102-S	480	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-068A	584-102-0.3	200	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-069A	584-103-S	640	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-070A	584-103-0.3	270	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-071A	584-104-S	1000	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-072A	584-104-0.3	690	mg/Kg	11139	5	1	10/29/2002	11/2/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 DO - Surrogate Diluted Out Results are wet unless otherwise specified



Advanced Technology Laboratories

Date: 11/5/2002

LEAD BY ICP EPA 6010B

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-073A	584-105-S	70	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-074A	584-105-0.3	46	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-075A	584-106-S	1100	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-076A	584-106-0.3	110	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-077A	584-107-S	840	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-078A	584-107-0.3	690	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-079A	584-108-S	150	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-080A	584-108-0.3	37	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-081A	584-113-S	200	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-082A	584-113-0.3	410	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-083A	584-114-S	430	mg/Kg	11139	5	1	10/29/2002	11/2/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-084A	584-114-0.3	63	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-085A	584-109-S	360	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-086A	584-109-0.3	180	mg/Kg	11139	5	1	10/29/2002	11/2/2002
059561-087A	584-110-S	70	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-088A	584-110-0.3	160	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-089A	584-111-S	280	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-090A	584-111-0.3	260	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-091A	584-112-S	150	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-092A	584-112-0.3	39	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-093A	584-115-S	170	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-094A	584-115-0.3	31	mg/Kg	11140	5	1	10/29/2002	11/2/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
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**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-095A	584-116-S	92	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-096A	584-116-0.3	180	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-097A	584-117-S	310	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-098A	584-117-0.3	330	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-099A	584-118-S	12	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-100A	584-118-0.3	15	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-101A	584-119-S	530	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-102A	584-119-0.3	190	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-103A	584-120-S	100	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-104A	584-120-0.3	46	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-105A	584-121-S	420	mg/Kg	11140	5	1	10/29/2002	11/2/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
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Advanced Technology Laboratories

Date: 11/5/2002

**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-106A	584-121-0.3	160	mg/Kg	11140	5	1	10/29/2002	11/2/2002
059561-107A	584-122-S	490	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-108A	584-122-0.3	47	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-109A	584-123-S	22	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-110A	584-123-0.3	33	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-111A	584-124-S	400	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-112A	584-124-0.3	18	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-113A	584-125-S	190	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-114A	584-125-0.3	24	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-115A	584-126-S	120	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-116A	584-126-0.3	130	mg/Kg	11142	5	1	10/29/2002	11/4/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 DO - Surrogate Diluted Out Results are wet unless otherwise specified



Advanced Technology Laboratories

Date: 11/5/2002

**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-117A	584-127-S	140	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-118A	584-127-0.3	69	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-119A	584-128-S	270	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-120A	584-128-0.3	22	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-121A	584-129-S	32	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-122A	584-129-0.3	5.4	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-123A	584-130-S	64	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-124A	584-130-0.3	90	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-125A	584-131-S	52	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-126A	584-131-0.3	18	mg/Kg	11142	5	1	10/29/2002	11/4/2002
059561-127A	584-132-S	100	mg/Kg	11143	5	1	10/29/2002	11/4/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 DO - Surrogate Diluted Out Results are wet unless otherwise specified



**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-128A	584-132-0.3	58	mg/Kg	11143	5	1	10/29/2002	11/4/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 DO - Surrogate Diluted Out Results are wet unless otherwise specified



Advanced Technology Laboratories

Date: 11/5/2002

**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Water
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-059A	C201	ND	mg/L	11153	0.005	1	10/29/2002	11/4/2002
059561-060A	C202	ND	mg/L	11153	0.005	1	10/29/2002	11/4/2002
059561-061A	C203	ND	mg/L	11153	0.005	1	10/29/2002	11/4/2002
059561-062A	C204	ND	mg/L	11153	0.005	1	10/29/2002	11/4/2002
059561-063A	C205	ND	mg/L	11153	0.005	1	10/29/2002	11/4/2002
059561-064A	C206	ND	mg/L	11153	0.005	1	10/29/2002	11/4/2002
059561-129A	EBN-1	ND	mg/L	11153	0.005	1	10/29/2002	11/4/2002
059561-130A	EBN-2	ND	mg/L	11153	0.005	1	10/29/2002	11/4/2002
059561-131A	EBN-3	ND	mg/L	11153	0.005	1	10/29/2002	11/4/2002
059561-132A	EBN-4	ND	mg/L	11153	0.005	1	10/29/2002	11/4/2002
059561-133A	EBN-5	ND	mg/L	11154	0.005	1	10/29/2002	11/4/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 DO - Surrogate Diluted Out Results are wet unless otherwise specified



**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Water
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-134A	EBN-6	ND	mg/L	11154	0.005	1	10/29/2002	11/4/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 DO - Surrogate Diluted Out Results are wet unless otherwise specified



pH
EPA 9045C

CLIENT: Geocon Environmental
 Project: Route 405-EA218301, 09100-06-57
 Project No:
 PO No:

Lab Order: 059561
 Date Received: 10/29/2002 6:10:
 Matrix: Soil
 Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-001A	584-201-S	6.38	pH Units	R22254	0.1	1	10/29/2002	10/31/2002
059561-004A	584-202-0.3	7.68	pH Units	R22254	0.1	1	10/29/2002	10/31/2002
059561-007A	584-204-S	7.32	pH Units	R22254	0.1	1	10/29/2002	10/31/2002
059561-010A	584-205-0.3	6.81	pH Units	R22254	0.1	1	10/29/2002	10/31/2002
059561-011A	584-226-S	7.37	pH Units	R22254	0.1	1	10/29/2002	10/31/2002
059561-013A	584-227-S	6.90	pH Units	R22254	0.1	1	10/29/2002	10/31/2002
059561-015A	584-228-S	6.59	pH Units	R22254	0.1	1	10/29/2002	10/31/2002
059561-018A	584-229-0.3	6.73	pH Units	R22254	0.1	1	10/29/2002	10/31/2002
059561-019A	584-221-S	7.71	pH Units	R22254	0.1	1	10/29/2002	10/31/2002
059561-021A	584-222-S	8.05	pH Units	R22254	0.1	1	10/29/2002	10/31/2002
059561-023A	584-223-S	8.16	pH Units	R22283	0.1	1	10/29/2002	10/31/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 DO - Surrogate Diluted Out Results are wet unless otherwise specified



Advanced Technology Laboratories

Date: 11/5/2002

**pH
EPA 9045C**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-025A	584-224-S	7.48	pH Units	R22283	0.1	1	10/29/2002	10/31/2002
059561-028A	584-225-0.3	7.42	pH Units	R22283	0.1	1	10/29/2002	10/31/2002
059561-029A	584-216-S	7.08	pH Units	R22283	0.1	1	10/29/2002	10/31/2002
059561-031A	584-217-S	7.64	pH Units	R22283	0.1	1	10/29/2002	10/31/2002
059561-033A	584-218-S	7.82	pH Units	R22283	0.1	1	10/29/2002	10/31/2002
059561-035A	584-219-S	7.93	pH Units	R22283	0.1	1	10/29/2002	10/31/2002
059561-037A	584-220-S	8.29	pH Units	R22283	0.1	1	10/29/2002	10/31/2002
059561-039A	584-211-S	8.27	pH Units	R22283	0.1	1	10/29/2002	10/31/2002
059561-041A	584-212-S	7.52	pH Units	R22283	0.1	1	10/29/2002	10/31/2002
059561-043A	584-213-S	8.82	pH Units	R22285	0.1	1	10/29/2002	10/31/2002
059561-045A	584-214-S	8.83	pH Units	R22285	0.1	1	10/29/2002	10/31/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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 DO - Surrogate Diluted Out Results are wet unless otherwise specified



Advanced Technology Laboratories

Date: 11/5/2002

pH EPA 9045C

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-047A	584-215-S	8.97	pH Units	R22285	0.1	1	10/29/2002	10/31/2002
059561-049A	584-206-S	8.47	pH Units	R22285	0.1	1	10/29/2002	10/31/2002
059561-051A	584-207-S	8.58	pH Units	R22285	0.1	1	10/29/2002	10/31/2002
059561-053A	584-208-S	8.20	pH Units	R22285	0.1	1	10/29/2002	10/31/2002
059561-055A	584-209-S	7.60	pH Units	R22285	0.1	1	10/29/2002	10/31/2002
059561-057A	584-210-S	7.83	pH Units	R22285	0.1	1	10/29/2002	10/31/2002
059561-065A	584-101-S	7.32	pH Units	R22285	0.1	1	10/29/2002	10/31/2002
059561-067A	584-102-S	7.79	pH Units	R22285	0.1	1	10/29/2002	10/31/2002
059561-069A	584-103-S	8.14	pH Units	R22287	0.1	1	10/29/2002	10/31/2002
059561-071A	584-104-S	8.06	pH Units	R22287	0.1	1	10/29/2002	10/31/2002
059561-073A	584-105-S	8.55	pH Units	R22287	0.1	1	10/29/2002	10/31/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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Advanced Technology Laboratories

Date: 11/5/2002

**pH
EPA 9045C**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-075A	584-106-S	8.61	pH Units	R22287	0.1	1	10/29/2002	10/31/2002
059561-077A	584-107-S	7.73	pH Units	R22287	0.1	1	10/29/2002	10/31/2002
059561-079A	584-108-S	8.43	pH Units	R22287	0.1	1	10/29/2002	10/31/2002
059561-081A	584-113-S	7.19	pH Units	R22287	0.1	1	10/29/2002	10/31/2002
059561-085A	584-109-S	6.31	pH Units	R22287	0.1	1	10/29/2002	10/31/2002
059561-087A	584-110-S	7.76	pH Units	R22287	0.1	1	10/29/2002	10/31/2002
059561-089A	584-111-S	7.32	pH Units	R22287	0.1	1	10/29/2002	10/31/2002
059561-091A	584-112-S	7.04	pH Units	R22287	0.1	1	10/29/2002	10/31/2002
059561-093A	584-115-S	6.89	pH Units	R22288	0.1	1	10/29/2002	11/1/2002
059561-097A	584-117-S	7.04	pH Units	R22288	0.1	1	10/29/2002	11/1/2002
059561-102A	584-119-0.3	6.91	pH Units	R22288	0.1	1	10/29/2002	11/1/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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Advanced Technology Laboratories

Date: 11/5/2002

pH EPA 9045C

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-103A	584-120-S	7.90	pH Units	R22288	0.1	1	10/29/2002	11/1/2002
059561-109A	584-123-S	6.85	pH Units	R22288	0.1	1	10/29/2002	11/1/2002
059561-115A	584-126-S	7.83	pH Units	R22288	0.1	1	10/29/2002	11/1/2002
059561-120A	584-128-0.3	7.94	pH Units	R22288	0.1	1	10/29/2002	11/1/2002
059561-121A	584-129-S	7.05	pH Units	R22288	0.1	1	10/29/2002	11/1/2002
059561-123A	584-130-S	7.73	pH Units	R22288	0.1	1	10/29/2002	11/1/2002
059561-125A	584-131-S	8.22	pH Units	R22288	0.1	1	10/29/2002	11/1/2002
059561-127A	584-132-S	7.71	pH Units	R22274	0.1	1	10/29/2002	11/1/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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**LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-001A	584-201-S	7.9	mg/L	11201	0.2	1	10/29/2002	11/8/2002
059561-003A	584-202-S	2.7	mg/L	11201	0.2	1	10/29/2002	11/8/2002
059561-005A	584-203-S	7.0	mg/L	11201	0.2	1	10/29/2002	11/8/2002
059561-007A	584-204-S	7.3	mg/L	11201	0.2	1	10/29/2002	11/8/2002
059561-008A	584-204-0.3	3.8	mg/L	11201	0.2	1	10/29/2002	11/8/2002
059561-009A	584-205-S	28	mg/L	11201	0.8	4	10/29/2002	11/8/2002
059561-011A	584-226-S	17	mg/L	11201	0.4	2	10/29/2002	11/8/2002
059561-012A	584-226-0.3	4.2	mg/L	11201	0.2	1	10/29/2002	11/8/2002
059561-013A	584-227-S	11	mg/L	11201	0.4	2	10/29/2002	11/8/2002
059561-015A	584-228-S	29	mg/L	11201	0.8	4	10/29/2002	11/8/2002
059561-017A	584-229-S	8.4	mg/L	11201	0.2	1	10/29/2002	11/8/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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**LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-018A	584-229-0.3	3.3	mg/L	11201	0.2	1	10/29/2002	11/8/2002
059561-022A	584-222-0.3	18	mg/L	11201	0.4	2	10/29/2002	11/8/2002
059561-023A	584-223-S	14	mg/L	11201	0.4	2	10/29/2002	11/8/2002
059561-024A	584-223-0.3	6.5	mg/L	11201	0.2	1	10/29/2002	11/8/2002
059561-025A	584-224-S	3.5	mg/L	11201	0.2	1	10/29/2002	11/8/2002
059561-027A	584-225-S	130	mg/L	11201	4	20	10/29/2002	11/8/2002
059561-028A	584-225-0.3	62	mg/L	11201	2	10	10/29/2002	11/8/2002
059561-029A	584-216-S	45	mg/L	11201	2	10	10/29/2002	11/8/2002
059561-030A	584-216-0.3	42	mg/L	11201	2	10	10/29/2002	11/8/2002
059561-031A	584-217-S	23	mg/L	11202	0.8	4	10/29/2002	11/8/2002
059561-032A	584-217-0.3	14	mg/L	11202	0.4	2	10/29/2002	11/8/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-033A	584-218-S	15	mg/L	11202	0.4	2	10/29/2002	11/8/2002
059561-034A	584-218-0.3	7.4	mg/L	11202	0.2	1	10/29/2002	11/8/2002
059561-035A	584-219-S	15	mg/L	11202	0.4	2	10/29/2002	11/8/2002
059561-036A	584-219-0.3	70	mg/L	11202	2	10	10/29/2002	11/8/2002
059561-039A	584-211-S	2.5	mg/L	11202	0.2	1	10/29/2002	11/8/2002
059561-041A	584-212-S	7.6	mg/L	11202	0.2	1	10/29/2002	11/8/2002
059561-042A	584-212-0.3	4.1	mg/L	11202	0.2	1	10/29/2002	11/8/2002
059561-043A	584-213-S	4.7	mg/L	11202	0.2	1	10/29/2002	11/8/2002
059561-045A	584-214-S	25	mg/L	11202	0.8	4	10/29/2002	11/8/2002
059561-046A	584-214-0.3	26	mg/L	11202	0.8	4	10/29/2002	11/8/2002
059561-047A	584-215-S	17	mg/L	11202	0.4	2	10/29/2002	11/8/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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**LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-053A	584-208-S	7.1	mg/L	11202	0.2	1	10/29/2002	11/8/2002
059561-054A	584-208-0.3	1.7	mg/L	11202	0.2	1	10/29/2002	11/8/2002
059561-055A	584-209-S	6.1	mg/L	11202	0.2	1	10/29/2002	11/8/2002
059561-056A	584-209-0.3	4.2	mg/L	11202	0.2	1	10/29/2002	11/8/2002
059561-057A	584-210-S	6.9	mg/L	11202	0.2	1	10/29/2002	11/8/2002
059561-058A	584-210-0.3	3.8	mg/L	11202	0.2	1	10/29/2002	11/8/2002
059561-065A	584-101-S	120	mg/L	11202	4	20	10/29/2002	11/8/2002
059561-066A	584-101-0.3	79	mg/L	11203	2	10	10/29/2002	11/8/2002
059561-067A	584-102-S	36	mg/L	11203	0.8	4	10/29/2002	11/8/2002
059561-068A	584-102-0.3	17	mg/L	11203	0.4	2	10/29/2002	11/8/2002
059561-069A	584-103-S	61	mg/L	11203	2	10	10/29/2002	11/8/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
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LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-070A	584-103-0.3	26	mg/L	11203	0.8	4	10/29/2002	11/8/2002
059561-072A	584-104-0.3	65	mg/L	11203	2	10	10/29/2002	11/8/2002
059561-073A	584-105-S	4.0	mg/L	11203	0.2	1	10/29/2002	11/8/2002
059561-076A	584-106-0.3	5.2	mg/L	11203	0.2	1	10/29/2002	11/8/2002
059561-077A	584-107-S	60	mg/L	11203	2	10	10/29/2002	11/8/2002
059561-078A	584-107-0.3	73	mg/L	11203	2	10	10/29/2002	11/8/2002
059561-079A	584-108-S	12	mg/L	11203	0.4	2	10/29/2002	11/8/2002
059561-081A	584-113-S	8.2	mg/L	11203	0.2	1	10/29/2002	11/8/2002
059561-082A	584-113-0.3	33	mg/L	11203	0.8	4	10/29/2002	11/8/2002
059561-083A	584-114-S	34	mg/L	11203	0.8	4	10/29/2002	11/8/2002
059561-084A	584-114-0.3	4.1	mg/L	11203	0.2	1	10/29/2002	11/8/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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**LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-085A	584-109-S	29	mg/L	11203	0.8	4	10/29/2002	11/8/2002
059561-086A	584-109-0.3	7.8	mg/L	11203	0.2	1	10/29/2002	11/8/2002
059561-087A	584-110-S	5.2	mg/L	11203	0.2	1	10/29/2002	11/8/2002
059561-088A	584-110-0.3	12	mg/L	11203	0.4	2	10/29/2002	11/8/2002
059561-089A	584-111-S	17	mg/L	11203	0.4	2	10/29/2002	11/8/2002
059561-090A	584-111-0.3	16	mg/L	11204	0.4	2	10/29/2002	11/8/2002
059561-091A	584-112-S	9.4	mg/L	11204	0.2	1	10/29/2002	11/8/2002
059561-093A	584-115-S	9.1	mg/L	11204	0.2	1	10/29/2002	11/8/2002
059561-095A	584-116-S	13	mg/L	11204	0.4	2	10/29/2002	11/8/2002
059561-096A	584-116-0.3	10	mg/L	11204	0.2	1	10/29/2002	11/8/2002
059561-097A	584-117-S	29	mg/L	11204	0.8	4	10/29/2002	11/8/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
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**LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-098A	584-117-0.3	14	mg/L	11204	0.4	2	10/29/2002	11/8/2002
059561-101A	584-119-S	41	mg/L	11204	2	10	10/29/2002	11/8/2002
059561-102A	584-119-0.3	23	mg/L	11204	0.8	4	10/29/2002	11/8/2002
059561-103A	584-120-S	0.74	mg/L	11204	0.2	1	10/29/2002	11/8/2002
059561-105A	584-121-S	38	mg/L	11204	2	10	10/29/2002	11/8/2002
059561-106A	584-121-0.3	1.2	mg/L	11204	0.2	1	10/29/2002	11/8/2002
059561-107A	584-122-S	29	mg/L	11204	0.8	4	10/29/2002	11/8/2002
059561-111A	584-124-S	24	mg/L	11204	0.8	4	10/29/2002	11/8/2002
059561-113A	584-125-S	19	mg/L	11204	0.4	2	10/29/2002	11/8/2002
059561-115A	584-126-S	0.86	mg/L	11204	0.2	1	10/29/2002	11/8/2002
059561-116A	584-126-0.3	9.3	mg/L	11204	0.2	1	10/29/2002	11/8/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
 J - Analyte detected below quantitation limits H - Sample exceeded analytical holding time
 B - Analyte detected in the associated Method Blank E - Value above quantitation range
 DO - Surrogate Diluted Out Results are wet unless otherwise specified



**LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-117A	584-127-S	9.7	mg/L	11204	0.2	1	10/29/2002	11/8/2002
059561-118A	584-127-0.3	3.6	mg/L	11204	0.2	1	10/29/2002	11/8/2002
059561-119A	584-128-S	19	mg/L	11204	0.4	2	10/29/2002	11/8/2002
059561-123A	584-130-S	3.4	mg/L	11205	0.2	1	10/29/2002	11/8/2002
059561-124A	584-130-0.3	5.2	mg/L	11205	0.2	1	10/29/2002	11/8/2002
059561-125A	584-131-S	2.3	mg/L	11205	0.2	1	10/29/2002	11/8/2002
059561-127A	584-132-S	5.4	mg/L	11205	0.2	1	10/29/2002	11/8/2002
059561-128A	584-132-0.3	3.7	mg/L	11205	0.2	1	10/29/2002	11/8/2002

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DO - Surrogate Diluted Out
 S - Spike/Surrogate outside of limits due to matrix interfere
 H - Sample exceeded analytical holding time
 E - Value above quantitation range
 Results are wet unless otherwise specified



LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-005A	584-203-S	0.35	mg/L	11223	0.2	1	10/29/2002	11/7/2002
059561-007A	584-204-S	0.32	mg/L	11223	0.2	1	10/29/2002	11/7/2002
059561-009A	584-205-S	1.7	mg/L	11223	0.2	1	10/29/2002	11/7/2002
059561-011A	584-226-S	0.46	mg/L	11223	0.2	1	10/29/2002	11/7/2002
059561-015A	584-228-S	0.60	mg/L	11223	0.2	1	10/29/2002	11/7/2002
059561-021A	584-222-S	3.4	mg/L	11223	0.2	1	10/29/2002	11/7/2002
059561-026A	584-224-0.3	1.6	mg/L	11223	0.2	1	10/29/2002	11/7/2002
059561-030A	584-216-0.3	2.0	mg/L	11223	0.2	1	10/29/2002	11/7/2002
059561-033A	584-218-S	0.50	mg/L	11223	0.2	1	10/29/2002	11/7/2002
059561-036A	584-219-0.3	5.6	mg/L	11223	0.2	1	10/29/2002	11/7/2002
059561-041A	584-212-S	0.30	mg/L	11224	0.2	1	10/29/2002	11/7/2002

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**LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-045A	584-214-S	2.8	mg/L	11224	0.2	1	10/29/2002	11/7/2002
059561-053A	584-208-S	0.30	mg/L	11224	0.2	1	10/29/2002	11/7/2002
059561-054A	584-208-0.3	0.25	mg/L	11224	0.2	1	10/29/2002	11/7/2002
059561-058A	584-210-0.3	0.42	mg/L	11224	0.2	1	10/29/2002	11/7/2002
059561-066A	584-101-0.3	1.5	mg/L	11224	0.2	1	10/29/2002	11/7/2002
059561-071A	584-104-S	2.2	mg/L	11224	0.2	1	10/29/2002	11/7/2002
059561-075A	584-106-S	5.8	mg/L	11224	0.2	1	10/29/2002	11/7/2002
059561-077A	584-107-S	1.7	mg/L	11224	0.2	1	10/29/2002	11/7/2002
059561-082A	584-113-0.3	1.5	mg/L	11224	0.2	1	10/29/2002	11/7/2002
059561-083A	584-114-S	0.32	mg/L	11225	0.2	1	10/29/2002	11/7/2002
059561-085A	584-109-S	0.23	mg/L	11225	0.2	1	10/29/2002	11/7/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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EPA 1311/ 7420**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-089A	584-111-S	0.33	mg/L	11225	0.2	1	10/29/2002	11/7/2002
059561-098A	584-117-0.3	ND	mg/L	11225	0.2	1	10/29/2002	11/7/2002
059561-101A	584-119-S	0.35	mg/L	11225	0.2	1	10/29/2002	11/7/2002
059561-105A	584-121-S	0.55	mg/L	11225	0.2	1	10/29/2002	11/7/2002
059561-107A	584-122-S	0.73	mg/L	11225	0.2	1	10/29/2002	11/7/2002
059561-111A	584-124-S	0.28	mg/L	11225	0.2	1	10/29/2002	11/7/2002
059561-113A	584-125-S	0.38	mg/L	11225	0.2	1	10/29/2002	11/7/2002
059561-119A	584-128-S	0.25	mg/L	11225	0.2	1	10/29/2002	11/7/2002
059561-124A	584-130-0.3	ND	mg/L	11226	0.2	1	10/29/2002	11/7/2002
059561-127A	584-132-S	0.23	mg/L	11226	0.2	1	10/29/2002	11/7/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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**LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-001A	584-201-S	0.36	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-005A	584-203-S	ND	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-007A	584-204-S	ND	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-009A	584-205-S	1.0	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-011A	584-226-S	ND	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-013A	584-227-S	ND	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-015A	584-228-S	0.22	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-017A	584-229-S	0.20	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-022A	584-222-0.3	0.45	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-023A	584-223-S	0.34	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-024A	584-223-0.3	0.23	mg/L	11308	0.2	1	10/29/2002	11/15/2002

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WET DI/ EPA 7420**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-027A	584-225-S	2.0	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-028A	584-225-0.3	2.6	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-029A	584-216-S	0.55	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-030A	584-216-0.3	0.62	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-031A	584-217-S	0.26	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-032A	584-217-0.3	0.22	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-033A	584-218-S	ND	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-034A	584-218-0.3	ND	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-035A	584-219-S	0.29	mg/L	11308	0.2	1	10/29/2002	11/15/2002
059561-036A	584-219-0.3	2.3	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-041A	584-212-S	ND	mg/L	11309	0.2	1	10/29/2002	11/15/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-045A	584-214-S	0.39	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-046A	584-214-0.3	0.60	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-047A	584-215-S	ND	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-053A	584-208-S	ND	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-055A	584-209-S	ND	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-057A	584-210-S	ND	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-065A	584-101-S	0.80	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-066A	584-101-0.3	1.2	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-067A	584-102-S	0.26	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-068A	584-102-0.3	ND	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-069A	584-103-S	1.6	mg/L	11309	0.2	1	10/29/2002	11/15/2002

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**LEAD BY ATOMIC ABSORPTION
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CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
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Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-070A	584-103-0.3	0.47	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-072A	584-104-0.3	0.29	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-076A	584-106-0.3	ND	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-077A	584-107-S	0.29	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-078A	584-107-0.3	ND	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-079A	584-108-S	0.33	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-081A	584-113-S	ND	mg/L	11309	0.2	1	10/29/2002	11/15/2002
059561-082A	584-113-0.3	0.25	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-083A	584-114-S	0.37	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-085A	584-109-S	0.38	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-086A	584-109-0.3	ND	mg/L	11310	0.2	1	10/29/2002	11/15/2002

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WET DI/ EPA 7420

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-087A	584-110-S	0.21	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-088A	584-110-0.3	0.24	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-089A	584-111-S	0.26	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-090A	584-111-0.3	0.21	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-091A	584-112-S	ND	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-093A	584-115-S	ND	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-095A	584-116-S	ND	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-096A	584-116-0.3	ND	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-097A	584-117-S	ND	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-098A	584-117-0.3	ND	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-101A	584-119-S	ND	mg/L	11310	0.2	1	10/29/2002	11/15/2002

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**LEAD BY ATOMIC ABSORPTION
WET DI/ EPA 7420**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059561
Date Received: 10/29/2002 6:10:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059561-102A	584-119-0.3	ND	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-105A	584-121-S	ND	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-107A	584-122-S	ND	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-111A	584-124-S	ND	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-113A	584-125-S	ND	mg/L	11310	0.2	1	10/29/2002	11/15/2002
059561-116A	584-126-0.3	ND	mg/L	11311	0.2	1	10/29/2002	11/15/2002
059561-117A	584-127-S	ND	mg/L	11311	0.2	1	10/29/2002	11/15/2002
059561-119A	584-128-S	0.28	mg/L	11311	0.2	1	10/29/2002	11/15/2002
059561-124A	584-130-0.3	ND	mg/L	11311	0.2	1	10/29/2002	11/15/2002
059561-127A	584-132-S	ND	mg/L	11311	0.2	1	10/29/2002	11/15/2002

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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID MB-11136A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102A						
Client ID: ZZZZZ	Batch ID: 11136	TestNo: EPA 6010B (EPA 3050M)		Analysis Date: 11/2/2002	SeqNo: 341785						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Sample ID MB-11136B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102A						
Client ID: ZZZZZ	Batch ID: 11136	TestNo: EPA 6010B (EPA 3050M)		Analysis Date: 11/2/2002	SeqNo: 341786						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Sample ID MB-11137A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102B						
Client ID: ZZZZZ	Batch ID: 11137	TestNo: EPA 6010B (EPA 3050M)		Analysis Date: 11/2/2002	SeqNo: 341813						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Sample ID MB-11137B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102B						
Client ID: ZZZZZ	Batch ID: 11137	TestNo: EPA 6010B (EPA 3050M)		Analysis Date: 11/2/2002	SeqNo: 341814						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	0.755	5.0									J
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Sample ID MB-11138A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102C						
Client ID: ZZZZZ	Batch ID: 11138	TestNo: EPA 6010B (EPA 3050M)		Analysis Date: 11/2/2002	SeqNo: 341842						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	5.0									
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values

Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90807
 Tel: 562 989-4045
 Fax: 562 989-4040



CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID MB-11138B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102C
Client ID: ZZZZZ	Batch ID: 11138	TestNo: EPA 6010B (EPA 3050M)		Analysis Date: 11/2/2002	SeqNo: 341844
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	ND	5.0			

Sample ID MB-11139A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102D
Client ID: ZZZZZ	Batch ID: 11139	TestNo: EPA 6010B (EPA 3050M)		Analysis Date: 11/2/2002	SeqNo: 341876
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	0.58	5.0			J

Sample ID MB-11139B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102D
Client ID: ZZZZZ	Batch ID: 11139	TestNo: EPA 6010B (EPA 3050M)		Analysis Date: 11/2/2002	SeqNo: 341877
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	ND	5.0			

Sample ID MB-11140A	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102E
Client ID: ZZZZZ	Batch ID: 11140	TestNo: EPA 6010B (EPA 3050M)		Analysis Date: 11/2/2002	SeqNo: 341904
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	0.472	5.0			J

Sample ID MB-11140B	SampType: MBLK	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102E
Client ID: ZZZZZ	Batch ID: 11140	TestNo: EPA 6010B (EPA 3050M)		Analysis Date: 11/2/2002	SeqNo: 341905
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual
Lead	ND	5.0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits **Calculations are based on raw values**

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040



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Fax: 562 989-4040

CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	MB-11142A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021104A			
Client ID:	ZZZZZ	Batch ID:	11142	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/4/2002	SeqNo:	341945			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		5.0										

Sample ID	MB-11142B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021104A			
Client ID:	ZZZZZ	Batch ID:	11142	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/4/2002	SeqNo:	341946			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		5.0										

Sample ID	MB-11143A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021104B			
Client ID:	ZZZZZ	Batch ID:	11143	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/4/2002	SeqNo:	342026			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		5.0										

Sample ID	LCS-11136	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102A			
Client ID:	ZZZZZ	Batch ID:	11136	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/2/2002	SeqNo:	341784			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		225.5		5.0	250	0		90.2	80	120	0	0		

Sample ID	LCS-11137	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102B			
Client ID:	ZZZZZ	Batch ID:	11137	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/2/2002	SeqNo:	341812			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		229.1		5.0	250	0		91.6	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	LCS-11138	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102C			
Client ID:	ZZZZZ	Batch ID:	11138	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/2/2002	SeqNo:	341841			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		217.4		5.0	250	0		87	80	120	0		0	

Sample ID	LCS-11139	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102D			
Client ID:	ZZZZZ	Batch ID:	11139	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/2/2002	SeqNo:	341875			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		215.9		5.0	250	0		86.3	80	120	0		0	

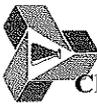
Sample ID	LCS-11140	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102E			
Client ID:	ZZZZZ	Batch ID:	11140	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/2/2002	SeqNo:	341903			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		221.9		5.0	250	0		88.8	80	120	0		0	

Sample ID	LCS-11142	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021104A			
Client ID:	ZZZZZ	Batch ID:	11142	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/4/2002	SeqNo:	341944			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		222.2		5.0	250	0		88.9	80	120	0		0	

Sample ID	LCS-11143	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021104B			
Client ID:	ZZZZZ	Batch ID:	11143	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/4/2002	SeqNo:	342025			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		221.4		5.0	250	0		88.6	80	120	0		0	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values

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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	059561-010AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102A
Client ID:	584-205-0.3	Batch ID:	11136	TestNo:	EPA 6010B (EPA 3050M)	Analysis Date:	11/2/2002	SeqNo:	341770		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	158.1	5.0	250	15.79	56.9	47	128	0	0		

Sample ID	059561-020AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102A
Client ID:	584-221-0.3	Batch ID:	11136	TestNo:	EPA 6010B (EPA 3050M)	Analysis Date:	11/2/2002	SeqNo:	341782		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	149.1	5.0	250	19.56	51.8	47	128	0	0		

Sample ID	059561-030AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102B
Client ID:	584-216-0.3	Batch ID:	11137	TestNo:	EPA 6010B (EPA 3050M)	Analysis Date:	11/2/2002	SeqNo:	341798		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	610.2	5.0	250	532.3	31.2	47	128	0	0		S

Sample ID	059561-040AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102B
Client ID:	584-211-0.3	Batch ID:	11137	TestNo:	EPA 6010B (EPA 3050M)	Analysis Date:	11/2/2002	SeqNo:	341810		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	142.1	5.0	250	13.98	51.2	47	128	0	0		

Sample ID	059561-050AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102C
Client ID:	584-206-0.3	Batch ID:	11138	TestNo:	EPA 6010B (EPA 3050M)	Analysis Date:	11/2/2002	SeqNo:	341826		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	141	5.0	250	8.664	53	47	128	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	059561-066AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102C
Client ID:	584-101-0.3	Batch ID:	11138	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/2/2002	SeqNo:	341838
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	985	5.0	250	936.6	19.4	47	128	0	0		S

Sample ID	059561-076AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102D
Client ID:	584-106-0.3	Batch ID:	11139	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/2/2002	SeqNo:	341861
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	183.3	5.0	250	111.7	28.6	47	128	0	0		S

Sample ID	059561-086AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102D
Client ID:	584-109-0.3	Batch ID:	11139	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/2/2002	SeqNo:	341873
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	286.1	5.0	250	178.7	43	47	128	0	0		S

Sample ID	059561-096AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102E
Client ID:	584-116-0.3	Batch ID:	11140	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/2/2002	SeqNo:	341889
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	265	5.0	250	176	35.6	47	128	0	0		S

Sample ID	059561-106AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102E
Client ID:	584-121-0.3	Batch ID:	11140	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/2/2002	SeqNo:	341901
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	332	5.0	250	162.8	67.7	47	128	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values

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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	059561-116AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021104A					
Client ID:	584-126-0.3	Batch ID: 11142	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/4/2002	SeqNo: 341930						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	305.5	5.0	250	125.8	71.9	47	128	0	0		

Sample ID	059561-126AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021104A					
Client ID:	584-131-0.3	Batch ID: 11142	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/4/2002	SeqNo: 341942						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	166.1	5.0	250	17.98	59.2	47	128	0	0		

Sample ID	059561-128AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021104B					
Client ID:	584-132-0.3	Batch ID: 11143	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/4/2002	SeqNo: 342023						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	211.1	5.0	250	58.31	61.1	47	128	0	0		

Sample ID	059561-010ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102A					
Client ID:	584-205-0.3	Batch ID: 11136	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/2/2002	SeqNo: 341769						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	10.22	5.0	0	0	0	0	0	15.79	42.9	30	R

Sample ID	059561-020ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102A					
Client ID:	584-221-0.3	Batch ID: 11136	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/2/2002	SeqNo: 341781						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	21.94	5.0	0	0	0	0	0	19.56	11.4	30	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	059561-030ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102B					
Client ID:	584-216-0.3	Batch ID: 11137	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 11/2/2002	SeqNo: 341797					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	411.9	5.0	0	0	0	0	0	532.3	25.5	30	

Sample ID	059561-040ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102B					
Client ID:	584-211-0.3	Batch ID: 11137	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 11/2/2002	SeqNo: 341809					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	23.08	5.0	0	0	0	0	0	13.98	49.1	30	R

Sample ID	059561-050ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102C					
Client ID:	584-206-0.3	Batch ID: 11138	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 11/2/2002	SeqNo: 341825					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.618	5.0	0	0	0	0	0	8.664	10.4	30	

Sample ID	059561-066ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102C					
Client ID:	584-101-0.3	Batch ID: 11138	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 11/2/2002	SeqNo: 341837					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1014	5.0	0	0	0	0	0	936.6	7.93	30	

Sample ID	059561-076ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/30/2002	Run ID: ICP5_021102D					
Client ID:	584-106-0.3	Batch ID: 11139	TestNo: EPA 6010B	(EPA 3050M)	Analysis Date: 11/2/2002	SeqNo: 341860					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	73.05	5.0	0	0	0	0	0	111.7	41.8	30	R

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	059561-086ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102D		
Client ID:	584-109-0.3	Batch ID:	11139	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/2/2002	SeqNo:	341872		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		120.4		5.0	0	0	0	0	0	178.7	39.0	30	R

Sample ID	059561-096ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102E		
Client ID:	584-116-0.3	Batch ID:	11140	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/2/2002	SeqNo:	341888		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		106.8		5.0	0	0	0	0	0	176	49.0	30	R

Sample ID	059561-106ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021102E		
Client ID:	584-121-0.3	Batch ID:	11140	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/2/2002	SeqNo:	341900		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		204.4		5.0	0	0	0	0	0	162.8	22.7	30	

Sample ID	059561-116ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021104A		
Client ID:	584-126-0.3	Batch ID:	11142	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/4/2002	SeqNo:	341929		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		136		5.0	0	0	0	0	0	125.8	7.80	30	

Sample ID	059561-126ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021104A		
Client ID:	584-131-0.3	Batch ID:	11142	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/4/2002	SeqNo:	341941		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		18.11		5.0	0	0	0	0	0	17.98	0.719	30	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	059561-128ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/30/2002	Run ID:	ICP5_021104B		
Client ID:	584-132-0.3	Batch ID:	11143	TestNo:	EPA 6010B (EPA 3050M)	Analysis Date:	11/4/2002	SeqNo:	342022				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		60.9		5.0	0	0	0	0	0	58.31	4.34	30	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits **Calculations are based on raw values**



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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPB

Sample ID	MB-11153	SampType:	MBLK	TestCode:	6010_WPB	Units:	mg/L	Prep Date:	10/30/2002	Run ID:	ICP5_021104C
Client ID:	ZZZZZ	Batch ID:	11153	TestNo:	EPA 6010B (EPA 3010A)	Analysis Date:	11/4/2002	SeqNo:	342041		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	0.0050									
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Sample ID	MB-11154	SampType:	MBLK	TestCode:	6010_WPB	Units:	mg/L	Prep Date:	10/30/2002	Run ID:	ICP5_021104D
Client ID:	ZZZZZ	Batch ID:	11154	TestNo:	EPA 6010B (EPA 3010A)	Analysis Date:	11/4/2002	SeqNo:	342056		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	ND	0.0050									
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Sample ID	LCS-11153	SampType:	LCS	TestCode:	6010_WPB	Units:	mg/L	Prep Date:	10/30/2002	Run ID:	ICP5_021104C
Client ID:	ZZZZZ	Batch ID:	11153	TestNo:	EPA 6010B (EPA 3010A)	Analysis Date:	11/4/2002	SeqNo:	342040		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	0.9908	0.0050	1	0	99.1	80	120	0	0		
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Sample ID	LCS-11154	SampType:	LCS	TestCode:	6010_WPB	Units:	mg/L	Prep Date:	10/30/2002	Run ID:	ICP5_021104D
Client ID:	ZZZZZ	Batch ID:	11154	TestNo:	EPA 6010B (EPA 3010A)	Analysis Date:	11/4/2002	SeqNo:	342055		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	0.9732	0.0050	1	0	97.3	80	120	0	0		
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Sample ID	059561-132AMS	SampType:	MS	TestCode:	6010_WPB	Units:	mg/L	Prep Date:	10/30/2002	Run ID:	ICP5_021104C
Client ID:	EBN-4	Batch ID:	11153	TestNo:	EPA 6010B (EPA 3010A)	Analysis Date:	11/4/2002	SeqNo:	342038		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead	2.507	0.0050	2.5	0	100	66	118	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPB

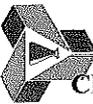
Sample ID 059570-014AMS	SampType: MS	TestCode: 6010_WPB	Units: mg/L	Prep Date: 10/30/2002	Run ID: ICP5_021104D						
Client ID: ZZZZZ	Batch ID: 11154	TestNo: EPA 6010B (EPA 3010A)		Analysis Date: 11/4/2002	SeqNo: 342053						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	2.643	0.0050	2.5	0	106	66	118	0	0		

Sample ID 059561-132ADUP	SampType: DUP	TestCode: 6010_WPB	Units: mg/L	Prep Date: 10/30/2002	Run ID: ICP5_021104C						
Client ID: EBN-4	Batch ID: 11153	TestNo: EPA 6010B (EPA 3010A)		Analysis Date: 11/4/2002	SeqNo: 342037						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050	0	0	0	0	0	0	0	30	

Sample ID 059570-014ADUP	SampType: DUP	TestCode: 6010_WPB	Units: mg/L	Prep Date: 10/30/2002	Run ID: ICP5_021104D						
Client ID: ZZZZZ	Batch ID: 11154	TestNo: EPA 6010B (EPA 3010A)		Analysis Date: 11/4/2002	SeqNo: 342052						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.0050	0	0	0	0	0	0	0	30	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values

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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID	059561-021ADUP	SampType:	DUP	TestCode:	9045_S	Units:	pH Units	Prep Date:	10/31/2002	Run ID:	WETCHEM_021031B
Client ID:	584-222-S	Batch ID:	R22254	TestNo:	EPA 9045C	Analysis Date:	10/31/2002	SeqNo:	341295		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	8.04	0.10	0	0	0	0	0	8.05	0.124	20	

Sample ID	059608-001ADUP	SampType:	DUP	TestCode:	9045_S	Units:	pH Units	Prep Date:	11/1/2002	Run ID:	WETCHEM_021101B
Client ID:	ZZZZZ	Batch ID:	R22274	TestNo:	EPA 9045C	Analysis Date:	11/1/2002	SeqNo:	341585		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	4.32	0.10	0	0	0	0	0	4.82	10.9	20	

Sample ID	059561-041ADUP	SampType:	DUP	TestCode:	9045_S	Units:	pH Units	Prep Date:	10/31/2002	Run ID:	WETCHEM_021031C
Client ID:	584-212-S	Batch ID:	R22283	TestNo:	EPA 9045C	Analysis Date:	10/31/2002	SeqNo:	341632		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.7	0.10	0	0	0	0	0	7.52	2.37	20	

Sample ID	059561-067ADUP	SampType:	DUP	TestCode:	9045_S	Units:	pH Units	Prep Date:	10/31/2002	Run ID:	WETCHEM_021031D
Client ID:	584-102-S	Batch ID:	R22285	TestNo:	EPA 9045C	Analysis Date:	10/31/2002	SeqNo:	341651		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	7.86	0.10	0	0	0	0	0	7.79	0.895	20	

Sample ID	059561-091ADUP	SampType:	DUP	TestCode:	9045_S	Units:	pH Units	Prep Date:	10/31/2002	Run ID:	WETCHEM_021031E
Client ID:	584-112-S	Batch ID:	R22287	TestNo:	EPA 9045C	Analysis Date:	10/31/2002	SeqNo:	341682		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH	6.91	0.10	0	0	0	0	0	7.04	1.86	20	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID	059561-125ADUP	SampType:	DUP	TestCode:	9045_S	Units:	pH Units	Prep Date:	11/1/2002	Run ID:	WETCHEM_021101C		
Client ID:	584-131-S	Batch ID:	R22288	TestNo:	EPA 9045C	Analysis Date:	11/1/2002	SeqNo:	341695				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
pH		8.14		0.10	0	0	0	0	0	8.22	0.978	20	

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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits **Calculations are based on raw values**



CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, Prep Date, Analysis Date, Run ID, SeqNo. Row 1: MB-11201, ZZZZZ, Lead, MBLK, 11201, 7420_ST, WET/ EPA 74 (WET), mg/L, 11/8/2002, 11/8/2002, AA2_021108A, 344083.

Table with 12 columns: Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: Lead, 0.06898, 0.20, J

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, Prep Date, Analysis Date, Run ID, SeqNo. Row 1: MB-11201A, ZZZZZ, Lead, MBLK, 11201, 7420_ST, WET/ EPA 74 (WET), mg/L, 11/5/2002, 11/8/2002, AA2_021108A, 344084.

Table with 12 columns: Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: Lead, ND, 0.20

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, Prep Date, Analysis Date, Run ID, SeqNo. Row 1: MB-11201B, ZZZZZ, Lead, MBLK, 11201, 7420_ST, WET/ EPA 74 (WET), mg/L, 11/5/2002, 11/8/2002, AA2_021108A, 344103.

Table with 12 columns: Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: Lead, ND, 0.20

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, Prep Date, Analysis Date, Run ID, SeqNo. Row 1: MB-11202, ZZZZZ, Lead, MBLK, 11202, 7420_ST, WET/ EPA 74 (WET), mg/L, 11/8/2002, 11/8/2002, AA2_021108B, 344118.

Table with 12 columns: Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: Lead, ND, 0.20

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, Prep Date, Analysis Date, Run ID, SeqNo. Row 1: MB-11202A, ZZZZZ, Lead, MBLK, 11202, 7420_ST, WET/ EPA 74 (WET), mg/L, 11/5/2002, 11/8/2002, AA2_021108B, 344119.

Table with 12 columns: Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: Lead, ND, 0.20

Qualifiers: ND - Not Detected at the Reporting Limit, S - Spike Recovery outside accepted recovery limits, DO- Surrogate dilute out, J - Analyte detected below quantitation limits, B - Analyte detected in the associated Method Blank, H - Sample exceeded holding time, R - RPD outside accepted recovery limits, Calculations are based on raw values

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Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID	MB-11202B	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108B		
Client ID:	ZZZZZ	Batch ID:	11202	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344134				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		0.08583		0.20									J

Sample ID	MB-11203	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108C		
Client ID:	ZZZZZ	Batch ID:	11203	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344154				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		0.05652		0.20									J

Sample ID	MB-11203A	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108C		
Client ID:	ZZZZZ	Batch ID:	11203	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344155				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.20									

Sample ID	MB-11203B	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108C		
Client ID:	ZZZZZ	Batch ID:	11203	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344168				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		0.04689		0.20									J

Sample ID	MB-11204	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108D		
Client ID:	ZZZZZ	Batch ID:	11204	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344184				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.20									

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits **Calculations are based on raw values**



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CLIENT: Geocon Environmental
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Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID	MB-11204A	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108D
Client ID:	ZZZZZ	Batch ID:	11204	TestNo:	WET/ EPA 74 (WET)			Analysis Date:	11/8/2002	SeqNo:	344185
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.07785	0.20									J

Sample ID	MB-11204B	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108D
Client ID:	ZZZZZ	Batch ID:	11204	TestNo:	WET/ EPA 74 (WET)			Analysis Date:	11/8/2002	SeqNo:	344198
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID	MB-11205	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108E
Client ID:	ZZZZZ	Batch ID:	11205	TestNo:	WET/ EPA 74 (WET)			Analysis Date:	11/8/2002	SeqNo:	344213
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID	MB-11205A	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108E
Client ID:	ZZZZZ	Batch ID:	11205	TestNo:	WET/ EPA 74 (WET)			Analysis Date:	11/8/2002	SeqNo:	344214
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID	MB-11205B	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108E
Client ID:	ZZZZZ	Batch ID:	11205	TestNo:	WET/ EPA 74 (WET)			Analysis Date:	11/8/2002	SeqNo:	344227
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID	LCS-11201	SampType:	LCS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108A		
Client ID:	ZZZZZ	Batch ID:	11201	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344117				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.166		0.20	5	0	103	80	120	0	0		

Sample ID	LCS-11202	SampType:	LCS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108B		
Client ID:	ZZZZZ	Batch ID:	11202	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344153				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.221		0.20	5	0	104	80	120	0	0		

Sample ID	LCS-11203	SampType:	LCS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108C		
Client ID:	ZZZZZ	Batch ID:	11203	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344182				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.096		0.20	5	0	102	80	120	0	0		

Sample ID	LCS-11204	SampType:	LCS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108D		
Client ID:	ZZZZZ	Batch ID:	11204	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344212				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.042		0.20	5	0	101	80	120	0	0		

Sample ID	LCS-11205	SampType:	LCS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108E		
Client ID:	ZZZZZ	Batch ID:	11205	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344241				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.069		0.20	5	0	101	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID	059561-015AMS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108A												
Client ID:	584-228-S	Batch ID:	11201	TestNo:	WET/ EPA 74 (WET)			Analysis Date:	11/8/2002	SeqNo:	344102												
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

Lead	81.96	2.0	50	28.5	107	80	120	0	0													
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Sample ID	059561-030AMS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108A												
Client ID:	584-216-0.3	Batch ID:	11201	TestNo:	WET/ EPA 74 (WET)			Analysis Date:	11/8/2002	SeqNo:	344115												
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

Lead	88.02	2.0	50	42.36	91.3	80	120	0	0													
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Sample ID	059561-043AMS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108B												
Client ID:	584-213-S	Batch ID:	11202	TestNo:	WET/ EPA 74 (WET)			Analysis Date:	11/8/2002	SeqNo:	344132												
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

Lead	15.62	0.40	10	4.747	109	80	120	0	0													
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Sample ID	059561-065AMS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108B												
Client ID:	584-101-S	Batch ID:	11202	TestNo:	WET/ EPA 74 (WET)			Analysis Date:	11/8/2002	SeqNo:	344151												
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

Lead	314.5	8.0	200	118.6	98	80	120	0	0													
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Sample ID	059561-078AMS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108C												
Client ID:	584-107-0.3	Batch ID:	11203	TestNo:	WET/ EPA 74 (WET)			Analysis Date:	11/8/2002	SeqNo:	344167												
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

Lead	164.2	4.0	100	73.29	90.9	80	120	0	0													
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID	059561-089AMS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/8/2002	Run ID: AA2_021108C					
Client ID:	584-111-S	Batch ID: 11203	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344180						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	35.67	0.80	20	16.77	94.5	80	120	0		0	

Sample ID	059561-103AMS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/8/2002	Run ID: AA2_021108D					
Client ID:	584-120-S	Batch ID: 11204	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344197						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.867	0.20	5	0.742	103	80	120	0		0	

Sample ID	059561-119AMS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/8/2002	Run ID: AA2_021108D					
Client ID:	584-128-S	Batch ID: 11204	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344210						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	38.82	0.80	20	19.28	97.7	80	120	0		0	

Sample ID	059569-008AMS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/8/2002	Run ID: AA2_021108E					
Client ID:	ZZZZZ	Batch ID: 11205	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344226						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	72.83	2.0	50	21.84	102	80	120	0		0	

Sample ID	059569-025AMS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/8/2002	Run ID: AA2_021108E					
Client ID:	ZZZZZ	Batch ID: 11205	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344239						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	83.7	2.0	50	33.51	100	80	120	0		0	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID	059561-015ADUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/5/2002	Run ID: AA2_021108A					
Client ID:	584-228-S	Batch ID: 11201	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344101						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	28.58	0.80	0	0	0	0	0	28.5	0.269	30	

Sample ID	059561-030ADUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/5/2002	Run ID: AA2_021108A					
Client ID:	584-216-0.3	Batch ID: 11201	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344114						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	42.16	2.0	0	0	0	0	0	42.36	0.473	30	

Sample ID	059561-043ADUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/5/2002	Run ID: AA2_021108B					
Client ID:	584-213-S	Batch ID: 11202	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344130						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.713	0.20	0	0	0	0	0	4.747	0.731	30	

Sample ID	059561-065ADUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/5/2002	Run ID: AA2_021108B					
Client ID:	584-101-S	Batch ID: 11202	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344150						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	118.8	4.0	0	0	0	0	0	0	0	0	

Sample ID	059561-078ADUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/5/2002	Run ID: AA2_021108C					
Client ID:	584-107-0.3	Batch ID: 11203	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344166						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	63.32	2.0	0	0	0	0	0	73.29	14.6	30	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID	059561-089ADUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/5/2002	Run ID: AA2_021108C					
Client ID:	584-111-S	Batch ID: 11203	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344179						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	16.71	0.40	0	0	0	0	0	16.77	0.328	30	

Sample ID	059561-103ADUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/5/2002	Run ID: AA2_021108D					
Client ID:	584-120-S	Batch ID: 11204	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344196						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.6562	0.20	0	0	0	0	0	0.742	12.3	30	

Sample ID	059561-119ADUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/5/2002	Run ID: AA2_021108D					
Client ID:	584-128-S	Batch ID: 11204	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344209						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	19.42	0.40	0	0	0	0	0	19.28	0.705	30	

Sample ID	059569-008ADUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/5/2002	Run ID: AA2_021108E					
Client ID:	ZZZZZ	Batch ID: 11205	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344225						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	21.56	0.80	0	0	0	0	0	21.84	1.32	30	

Sample ID	059569-025ADUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 11/5/2002	Run ID: AA2_021108E					
Client ID:	ZZZZZ	Batch ID: 11205	TestNo: WET/ EPA 74 (WET)	Analysis Date: 11/8/2002	SeqNo: 344238						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	34.24	0.80	0	0	0	0	0	33.51	2.14	30	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, SPK value, SPK Ref Val, Prep Date, Analysis Date, Run ID, SeqNo, PQL, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: MB-11223, ZZZZZ, Lead, MBLK, 11223, 7420_TC, EPA 1311/ 74 (EPA 3010A), mg/L, 0.07702, 0.20, 11/6/2002, 11/7/2002, AA2_021107A, 343298, 0.20, J.

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, SPK value, SPK Ref Val, Prep Date, Analysis Date, Run ID, SeqNo, PQL, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: MB-11209-TCLP, ZZZZZ, Lead, MBLK, 11223, 7420_TC, EPA 1311/ 74 (EPA 3010A), mg/L, 0.06213, 0.20, 11/6/2002, 11/7/2002, AA2_021107A, 343299, 0.20, J.

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, SPK value, SPK Ref Val, Prep Date, Analysis Date, Run ID, SeqNo, PQL, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: MB-11224, ZZZZZ, Lead, MBLK, 11224, 7420_TC, EPA 1311/ 74 (EPA 3010A), mg/L, ND, 0.20, 11/6/2002, 11/7/2002, AA2_021107B, 343314, 0.20, J.

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, SPK value, SPK Ref Val, Prep Date, Analysis Date, Run ID, SeqNo, PQL, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: MB-11210-TCLP, ZZZZZ, Lead, MBLK, 11224, 7420_TC, EPA 1311/ 74 (EPA 3010A), mg/L, ND, 0.20, 11/6/2002, 11/7/2002, AA2_021107B, 343315, 0.20, J.

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, SPK value, SPK Ref Val, Prep Date, Analysis Date, Run ID, SeqNo, PQL, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: MB-11225, ZZZZZ, Lead, MBLK, 11225, 7420_TC, EPA 1311/ 74 (EPA 3010A), mg/L, ND, 0.20, 11/6/2002, 11/7/2002, AA2_021107C, 343333, 0.20, J.

Qualifiers: ND - Not Detected at the Reporting Limit, J - Analyte detected below quantitation limits, R - RPD outside accepted recovery limits, S - Spike Recovery outside accepted recovery limits, B - Analyte detected in the associated Method Blank, Calculations are based on raw values, DO- Surrogate dilute out, H - Sample exceeded holding time

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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID	MB-11211-TCLP	SampType:	MBLK	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107C												
Client ID:	ZZZZZ	Batch ID:	11225	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343334														
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

Lead ND 0.20

Sample ID	MB-11226	SampType:	MBLK	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107D												
Client ID:	ZZZZZ	Batch ID:	11226	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343351														
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

Lead ND 0.20

Sample ID	MB-11212-TCLP	SampType:	MBLK	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107D												
Client ID:	ZZZZZ	Batch ID:	11226	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343353														
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

Lead ND 0.20

Sample ID	LCS-11223	SampType:	LCS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107A												
Client ID:	ZZZZZ	Batch ID:	11223	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343313														
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

Lead 0.96 0.20 1 0 96 80 120 0 0

Sample ID	LCS-11224	SampType:	LCS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107B												
Client ID:	ZZZZZ	Batch ID:	11224	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343329														
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	

Lead 1.023 0.20 1 0 102 80 120 0 0

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID	LCS-11225	SampType:	LCS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107C	
Client ID:	ZZZZZ	Batch ID:	11225	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343348			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Lead	1.176	0.20	1	0	118	80	120	0	0			

Sample ID	LCS-11226	SampType:	LCS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107D	
Client ID:	ZZZZZ	Batch ID:	11226	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343376			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Lead	0.9805	0.20	1	0	98.1	80	120	0	0			

Sample ID	059561-036AMS	SampType:	MS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107A	
Client ID:	584-219-0.3	Batch ID:	11223	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343311			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Lead	6.659	0.20	2.5	5.641	40.7	80	120	0	0		S	

Sample ID	059561-082AMS	SampType:	MS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107B	
Client ID:	584-113-0.3	Batch ID:	11224	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343327			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Lead	4.32	0.20	2.5	1.54	111	80	120	0	0			

Sample ID	059561-119AMS	SampType:	MS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107C	
Client ID:	584-128-S	Batch ID:	11225	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343346			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Lead	3.038	0.20	2.5	0.2539	111	80	120	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID	059569-027AMS	SampType:	MS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107D
Client ID:	ZZZZZ	Batch ID:	11226	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343374		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.39	0.20	2.5	0.6581	109	80	120	0	0		

Sample ID	059561-036ADUP	SampType:	DUP	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107A
Client ID:	584-219-0.3	Batch ID:	11223	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343310		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.002	0.20	0	0	0	0	0	5.641	61.1	30	R

Sample ID	059561-082ADUP	SampType:	DUP	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107B
Client ID:	584-113-0.3	Batch ID:	11224	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343326		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.238	0.20	0	0	0	0	0	1.54	21.8	30	

Sample ID	059561-119ADUP	SampType:	DUP	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107C
Client ID:	584-128-S	Batch ID:	11225	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343345		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.2561	0.20	0	0	0	0	0	0.2539	0.865	30	

Sample ID	059569-027ADUP	SampType:	DUP	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107D
Client ID:	ZZZZZ	Batch ID:	11226	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343373		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.7234	0.20	0	0	0	0	0	0.6581	9.45	30	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Table with 12 columns: Sample ID, SampType, TestCode, Units, Prep Date, Run ID, Client ID, Batch ID, TestNo, Analysis Date, SeqNo, and a header row for Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual.

Table row for Sample ID MB-11308, Lead, ND, 0.20

Table with 12 columns: Sample ID, SampType, TestCode, Units, Prep Date, Run ID, Client ID, Batch ID, TestNo, Analysis Date, SeqNo, and a header row for Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual.

Table row for Sample ID MB-11308A, Lead, ND, 0.20

Table with 12 columns: Sample ID, SampType, TestCode, Units, Prep Date, Run ID, Client ID, Batch ID, TestNo, Analysis Date, SeqNo, and a header row for Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual.

Table row for Sample ID MB-11308B, Lead, 0.1144, 0.20, J

Table with 12 columns: Sample ID, SampType, TestCode, Units, Prep Date, Run ID, Client ID, Batch ID, TestNo, Analysis Date, SeqNo, and a header row for Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual.

Table row for Sample ID MB-11309, Lead, ND, 0.20

Table with 12 columns: Sample ID, SampType, TestCode, Units, Prep Date, Run ID, Client ID, Batch ID, TestNo, Analysis Date, SeqNo, and a header row for Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual.

Table row for Sample ID MB-11309A, Lead, ND, 0.20

Qualifiers: ND - Not Detected at the Reporting Limit, S - Spike Recovery outside accepted recovery limits, DO- Surrogate dilute out, J - Analyte detected below quantitation limits, B - Analyte detected in the associated Method Blank, H - Sample exceeded holding time, R - RPD outside accepted recovery limits, Calculations are based on raw values

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Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID	MB-11309B	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115F			
Client ID:	ZZZZZ	Batch ID:	11309	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347872					
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		ND		0.20										
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Sample ID	MB-11310	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115H			
Client ID:	ZZZZZ	Batch ID:	11310	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347896					
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		0.06468		0.20										J
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Sample ID	MB-11310A	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115H			
Client ID:	ZZZZZ	Batch ID:	11310	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347897					
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		0.08069		0.20										J
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Sample ID	MB-11310B	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115H			
Client ID:	ZZZZZ	Batch ID:	11310	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347910					
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		ND		0.20										
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Sample ID	MB-11311	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115I			
Client ID:	ZZZZZ	Batch ID:	11311	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347925					
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		ND		0.20										
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID	MB-11311A	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115I
Client ID:	ZZZZZ	Batch ID:	11311	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347926		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID	MB-11311B	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115I
Client ID:	ZZZZZ	Batch ID:	11311	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347939		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	ND	0.20									

Sample ID	LCS-11308	SampType:	LCS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115D
Client ID:	ZZZZZ	Batch ID:	11308	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347841		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.089	0.20	5	0	102	80	120	0	0		

Sample ID	LCS-11309	SampType:	LCS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115F
Client ID:	ZZZZZ	Batch ID:	11309	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347886		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.08	0.20	5	0	102	80	120	0	0		

Sample ID	LCS-11310	SampType:	LCS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115H
Client ID:	ZZZZZ	Batch ID:	11310	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347924		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.068	0.20	5	0	101	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID	LCS-11311	SampType:	LCS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115I	
Client ID:	ZZZZZ	Batch ID:	11311	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347953			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Lead	5.148	0.20	5	0	103	80	120	0	0			

Sample ID	059561-023AMS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115D	
Client ID:	584-223-S	Batch ID:	11308	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347826			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Lead	5.8	0.20	5	0.3386	109	80	120	0	0			

Sample ID	059561-035AMS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115D	
Client ID:	584-219-S	Batch ID:	11308	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347839			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Lead	5.811	0.20	5	0.2865	110	80	120	0	0			

Sample ID	059561-066AMS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115F	
Client ID:	584-101-0.3	Batch ID:	11309	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347871			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Lead	6.59	0.20	5	1.167	108	80	120	0	0			

Sample ID	059561-081AMS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115F	
Client ID:	584-113-S	Batch ID:	11309	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347884			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Lead	5.642	0.20	5	0.1443	110	80	120	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID	059561-093AMS	SampType: MS	TestCode: 7420_DI	Units: mg/L	Prep Date: 11/15/2002	Run ID: AA2_021115H					
Client ID:	584-115-S	Batch ID: 11310	TestNo: WET DI/ EPA (WET)	Analysis Date: 11/15/2002	SeqNo: 347909						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.242	0.20	5	0.1946	101	80	120	0	0		

Sample ID	059561-113AMS	SampType: MS	TestCode: 7420_DI	Units: mg/L	Prep Date: 11/15/2002	Run ID: AA2_021115H					
Client ID:	584-125-S	Batch ID: 11310	TestNo: WET DI/ EPA (WET)	Analysis Date: 11/15/2002	SeqNo: 347922						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.393	0.20	5	0.1751	104	80	120	0	0		

Sample ID	059569-008AMS	SampType: MS	TestCode: 7420_DI	Units: mg/L	Prep Date: 11/15/2002	Run ID: AA2_021115I					
Client ID:	ZZZZZ	Batch ID: 11311	TestNo: WET DI/ EPA (WET)	Analysis Date: 11/15/2002	SeqNo: 347938						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.863	0.20	5	0.6513	104	80	120	0	0		

Sample ID	059569-026AMS	SampType: MS	TestCode: 7420_DI	Units: mg/L	Prep Date: 11/15/2002	Run ID: AA2_021115I					
Client ID:	ZZZZZ	Batch ID: 11311	TestNo: WET DI/ EPA (WET)	Analysis Date: 11/15/2002	SeqNo: 347951						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.151	0.20	5	0.08245	101	80	120	0	0		

Sample ID	059561-023ADUP	SampType: DUP	TestCode: 7420_DI	Units: mg/L	Prep Date: 11/11/2002	Run ID: AA2_021115D					
Client ID:	584-223-S	Batch ID: 11308	TestNo: WET DI/ EPA (WET)	Analysis Date: 11/15/2002	SeqNo: 347825						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.347	0.20	0	0	0	0	0	0.3386	2.45	30	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID	059561-035ADUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115D
Client ID:	584-219-S	Batch ID:	11308	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347838		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.2675	0.20	0	0	0	0	0	0.2865	6.86	30	

Sample ID	059561-066ADUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115F
Client ID:	584-101-0.3	Batch ID:	11309	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347870		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	1.167	0.20	0	0	0	0	0	1.167	0.0596	30	

Sample ID	059561-081ADUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115F
Client ID:	584-113-S	Batch ID:	11309	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347883		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.1227	0.20	0	0	0	0	0	0.1443	0	30	J

Sample ID	059561-093ADUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115H
Client ID:	584-115-S	Batch ID:	11310	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347908		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.0932	0.20	0	0	0	0	0	0.1946	0	30	J

Sample ID	059561-113ADUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115H
Client ID:	584-125-S	Batch ID:	11310	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347921		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.149	0.20	0	0	0	0	0	0.1751	0	30	J

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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CLIENT: Geocon Environmental
Work Order: 059561
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

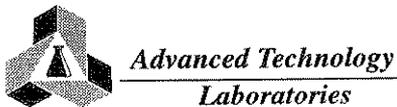
TestCode: 7420_DI

Sample ID	059569-008ADUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115I
Client ID:	ZZZZZ	Batch ID:	11311	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347937		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.6513	0.20	0	0	0	0	0	0.6513	0.00915	30	

Sample ID	059569-026ADUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115I
Client ID:	ZZZZZ	Batch ID:	11311	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347950		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08247	0.20	0	0	0	0	0	0.08245	0	30	J

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
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CHAIN OF CUSTODY RECORD



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FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Walk-in <input type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input checked="" type="checkbox"/>	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Logged By: <u>[Signature]</u>	Date: <u>10/29/02</u>	

Client: GEOCON ENVIRONMENTAL - SAN DIEGO	Address: 6970 Flanders Drive	TEL: (858) 558-6100
Attn: CHRIS KING	City: San Diego State: CA Zip Code: 92121	FAX: (858) 558-8437

Project Name: <u>Route 405 - EA 218301</u>	Project #: <u>09100-06-57</u>	Sampler: <u>MSB/GCA</u>	(Signature) <u>[Signature]</u>
Relinquished by: (Signature and Printed Name) <u>[Signature] Mary Barnes</u>	Date: <u>10/29/02</u> Time: <u>4pm</u>	Received by: (Signature and Printed Name) <u>[Signature]</u>	Date: <u>10/29/02</u> Time: <u>4pm</u>
Relinquished by: (Signature and Printed Name) <u>[Signature]</u>	Date: <u>10-29-02</u> Time: <u>6:10P</u>	Received by: (Signature and Printed Name) <u>[Signature]</u>	Date: <u>10/29/02</u> Time: <u>6:10pm</u>
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: <u>[Signature]</u> <u>10/29/2002</u>	Send Report To: Attn: _____ Co: <u>Client</u> Address: _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: <u>Client</u> Address: _____ City _____ State _____ Zip _____	Special Instructions/Comments: <u>Total lead > 50 mg/kg and < 1,000 mg/kg run WET-Citric</u> <u>WET-Citric > 5 mg/L run WET-DI. A minimum of 4 or 10% from each group (see Attached) run 50:1 pH</u> <u>25% from each group run TLP. Choose samples with highest total lead content.</u>
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Unless otherwise requested, all samples will be disposed 45 days after receipt.	Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other <input type="checkbox"/> Return To: _____ * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.	Circle or Add Analysis(es) Requested <u>8081 / 8082 (Pesticides/PCB-SC)</u> <u>8200 (Volatiles-GC/MS)</u> <u>625 / 8270 (DNA-GC/MS)</u> <u>Metal: Total (CAC-8010 / 7000)</u> <u>8015M TPH(G/STEX (COMBINATION))</u> <u>Total Lead - EPA 6010</u>	CIRCLE APPROPRIATE MATRIX SOLID (SOIL) SLUDGE OIL • SOLVENT • LIQUID WATER • WASTEWATER DRINKING WATER AIR WIPE • FILTER OTHER TAT # Type 5day 1 5TG	PRESERVATION RTNE <input type="checkbox"/> RWQCB <input type="checkbox"/> WIP <input type="checkbox"/> NAVY <input type="checkbox"/> CT <input checked="" type="checkbox"/> OTHER _____
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ITEM	LAB USE ONLY:		Sample Description				CIRCLE APPROPRIATE MATRIX										PRESERVATION	REMARKS							
	Batch #:	Lab No.	Sample I.D.	Date	Time	8081 / 8082 (Pesticides/PCB-SC)	8200 (Volatiles-GC/MS)	625 / 8270 (DNA-GC/MS)	Metal: Total (CAC-8010 / 7000)	8015M TPH(G/STEX (COMBINATION))	Total Lead - EPA 6010	SOLID (SOIL) SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER	DRINKING WATER	AIR			WIPE • FILTER	OTHER	TAT	#	Type		
		0596101-001	584-201-S	10/29	10:30						X														
			584-201-0.3		10:40																				
			584-202-S		10:45																				
			584-202-0.3		10:52																				
			584-203-S		10:49																				
			584-203-0.3		10:54																				
			584-204-S		10:58																				
			584-204-0.3		11:05																				
			584-205-S		10:57																				
			584-205-0.3		11:06																				

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= Overnight ≤ 24 hr	B= Emergency Next workday	C= Critical 2 Workdays	D= Urgent 3 Workdays	E= Routine 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD



**Advanced Technology
Laboratories**

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P.O.#: _____	Method of Transport Walk-in <input type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input checked="" type="checkbox"/>	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Logged By: <u>[Signature]</u>	Date: <u>10/29/02</u> Time: _____	

Client: GEOCON ENVIRONMENTAL - SAN DIEGO	Address: 6970 Flanders Drive	TEL: (858) 558-6100
Attn: <u>Chris King</u>	City: San Diego State: CA Zip Code: 92121	FAX: (858) 558-8437

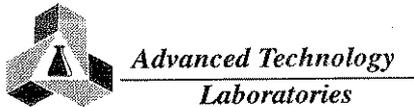
Project Name: <u>Rte 405-EA 218301</u>	Project #: <u>9100-06-57</u>	Sampler: <u>GCA/MTD</u> (Printed Name) <u>[Signature]</u> (Signature)
Relinquished by: <u>[Signature]</u> Date: <u>10/29</u> Time: <u>4pm</u>	Received by: <u>[Signature]</u> Date: <u>10/29</u> Time: <u>4pm</u>	
Relinquished by: <u>[Signature]</u> Date: <u>10/29</u> Time: <u>6:10pm</u>	Received by: <u>[Signature]</u> Date: _____ Time: _____	
Relinquished by: <u>[Signature]</u> Date: _____ Time: _____	Received by: <u>[Signature]</u> Date: _____ Time: _____	

I hereby authorize ATL to perform the work indicated below:	Send Report To: Attn: _____ Co: <u>Client</u> Address: _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: <u>Client</u> Address: _____ City _____ State _____ Zip _____	Special Instructions/Comments: <u>See Page 1</u>
Project Mgr /Submitter: <u>CSK</u> <u>10/29/02</u> Print Name _____ Date _____ Signature <u>[Signature]</u>			

Unless otherwise requested, all samples will be disposed 45 days after receipt.	Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other _____ <input type="checkbox"/> Return To: _____ * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.	Circle or Add Analysis(es) Requested 8081 / 8082 (Pesticides/PCB-SC) 8280 (Volatiles-GC/MS) 625 / 8270 (BWA-GC/MS) Metals Total (CAC-8010 / 7000) 8015M TPH/G/TEX (COMPAK/710N) 8015M TPH/D (Diesel-GC) <u>Total / add 600</u>	CIRCLE APPROPRIATE MATRIX SOLID (SOL) SLUDGE OIL • SOLVENT • LIQUID WATER • WASTEWATER DRINKING WATER AIR WIPE • FILTER OTHER TAT # Type	QA/QC RTNE <input type="checkbox"/> RWQCB <input type="checkbox"/> WIP <input type="checkbox"/> NAVY <input type="checkbox"/> CT <input checked="" type="checkbox"/> OTHER _____ PRESERVATION REMARKS
LAB USE ONLY: Batch #: _____ Lab No. _____	Sample Description Sample I.D. Date Time			
11 12 13 14 15 16 17 18	584-226-S 584-226-0.3 584-227-S 584-227-0.3 584-228-S 584-228-0.3 584-229-S 584-229-0.3	10/29 11 11 11 11 11 11 11	2:31 2:39 2:32 2:40 2:39 2:43 2:42 2:46	X 5 day 1 JIG

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays	Preservatives: H=Hcl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₈
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal		

CHAIN OF CUSTODY RECORD



Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90807
 (562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____
 Logged By: [Signature] Date: 10/29/02 Time: _____

Method of Transport
 Walk-in
 Courier
 UPS
 FED. EXP.
 ATL

Sample Condition Upon Receipt

1. CHILLED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	4. SEALED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
2. HEADSPACE (VOA)	Y <input type="checkbox"/> N <input checked="" type="checkbox"/> <u>WIP</u>	5. # OF SPLS MATCH COC	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
3. CONTAINER INTACT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	6. PRESERVED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>

Client: GEOCON ENVIRONMENTAL - SAN DIEGO **Address:** 6970 Flanders Drive **TEL:** (858) 558-6100
Attn: Chris King **City:** San Diego **State:** CA **Zip Code:** 92121 **FAX:** (858) 558-8437

Project Name: Rte 405 - EA 218301 **Project #:** 9100-06-57 **Sampler:** GCA/MJB (Printed Name) _____ (Signature)

Relinquished by: <u>[Signature]</u> <u>GCA</u>	Date: <u>10/29</u>	Time: <u>4pm</u>	Received by: <u>[Signature]</u>	Date: <u>10/29</u>	Time: <u>4pm</u>
Relinquished by: <u>[Signature]</u> <u>WJZ</u>	Date: <u>10/29</u>	Time: <u>6:10p</u>	Received by: <u>[Signature]</u>	Date: <u>10/29/02</u>	Time: <u>1310</u>
Relinquished by: _____	Date: _____	Time: _____	Received by: _____	Date: _____	Time: _____

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: CST 10/29/02
 Print Name _____ Date _____
 Signature [Signature]

Send Report To:
 Attn: _____
 Co: Client
 Address: _____
 City _____ State _____ Zip _____

Bill To:
 Attn: _____
 Co: Client
 Address: _____
 City _____ State _____ Zip _____

Special Instructions/Comments:
See Page 1

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
 Laboratory Standard
 Other _____
 Return To: _____

* \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested

8091 / 8092 (Pesticides/PCB-GC)	8200 (Volatile-GC/MS)	825 / 8270 (BNA-GC/MS)	Metals: Total (CAC-8010 / 7000)	8015M TP-HGT/TEX (COMBINATION)	8015M TP-UV (Diesel-GC)
---------------------------------	-----------------------	------------------------	---------------------------------	--------------------------------	-------------------------

Total lead 6010

CIRCLE APPROPRIATE MATRIX

SOLID • SOIL • SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER	AIR	WIPE • FILTER	OTHER
-----------------------	------------------------	--------------------	-----	---------------	-------

TAT # _____ Type _____ Container(s) _____

QA/QC
 RTNE
 RWQCB
 WIP
 NAVY
 CT
 OTHER _____

PRESERVATION

ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Lab No.	Sample I.D.	Date	Time	
		<u>29</u>	<u>584-216-S</u>	<u>10/29</u>	<u>12:53</u>	
		<u>30</u>	<u>584-216-0.3</u>		<u>1:00</u>	
		<u>31</u>	<u>584-217-S</u>		<u>12:55</u>	
		<u>32</u>	<u>584-217-0.3</u>		<u>1:01</u>	
		<u>33</u>	<u>584-218-S</u>		<u>1:13</u>	
		<u>34</u>	<u>584-218-0.3</u>		<u>1:20</u>	
		<u>35</u>	<u>584-219-S</u>		<u>1:15</u>	
		<u>36</u>	<u>584-219-0.3</u>		<u>1:22</u>	
		<u>37</u>	<u>584-220-S</u>		<u>1:25</u>	
		<u>38</u>	<u>584-220-0.3</u>		<u>1:33</u>	

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Preservatives: H=Hcl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₈

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

CHAIN OF CUSTODY RECORD



3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Walk-in <input type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input checked="" type="checkbox"/>	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Logged By: <u>[Signature]</u>	Date: <u>10/29/02</u> Time: _____	

Client: GEOCON ENVIRONMENTAL - SAN DIEGO	Address: 6970 Flanders Drive	TEL: (858) 558-6100
Attn: <u>Chris King</u>	City: San Diego State: CA Zip Code: 92121	FAX: (858) 558-8437

Project Name: <u>Rte 405-EA 218301</u>	Project #: <u>9100-06-57</u>	Sampler: <u>MOB/GCA</u>	(Printed Name)
Relinquished by: <u>[Signature]</u>	Date: <u>10/29</u> Time: <u>4pm</u>	Received by: <u>[Signature]</u>	Date: <u>10/29</u> Time: <u>4pm</u>
Relinquished by: <u>[Signature]</u>	Date: <u>10/29</u> Time: _____	Received by: <u>[Signature]</u>	Date: <u>10/29/02</u> Time: <u>1810</u>

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <u>CSK</u> <u>10/29/02</u> Print Name Date <u>[Signature]</u>	Send Report To: Attn: _____ Co: <u>Client</u> Address: _____ City State Zip	Bill To: Attn: _____ Co: <u>Client</u> Address: _____ City State Zip	Special Instructions/Comments: <u>See Page 1</u>
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Unless otherwise requested, all samples will be disposed 45 days after receipt. Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other _____ <input type="checkbox"/> Return To: _____ * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.	Circle or Add Analysis(es) Requested 8091 / 8092 (Pesticides/PGB-SC) 8280 (Nitrates-GCMs) 825 / 8270 (BNA-GCMS) Metals Total (CAC-8010 / 7090) 8015M TPH/BTEX (COMBINATION) 8015M TPH/D (Diesel-GC) <u>Total Lead Col</u>
--	--

I T E M	LAB USE ONLY:		Sample Description				CIRCLE APPROPRIATE MATRIX										PRESERVATION	REMARKS							
	Batch #:	Lab No.	Sample I.D.	Date	Time	8091 / 8092 (Pesticides/PGB-SC)	8280 (Nitrates-GCMs)	825 / 8270 (BNA-GCMS)	Metals Total (CAC-8010 / 7090)	8015M TPH/BTEX (COMBINATION)	8015M TPH/D (Diesel-GC)	SOLID (SOL) SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER	DRINKING WATER	AIR			WIPE • FILTER	OTHER	TAT	#	Type		
		- 49	584-206-S	10/29	11:25					X											5day	1	J	G	
		- 50	584-206-0.3		11:32																				
		- 81	584-207-S		11:25																				
		- 52	584-207-0.3		11:36																				
		- 53	584-208-S		11:40																				
		- 54	584-208-0.3		11:47																				
		- 55	584-209-S		11:42																				
		- 56	584-209-0.3		11:50																				
		- 57	584-210-S		11:55																				
		- 58	584-210-0.3		12:05																				

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= Overnight ≤ 24 hr	B= Emergency Next workday	C= Critical 2 Workdays	D= Urgent 3 Workdays	E= Routine 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD



**Advanced Technology
Laboratories**

3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Walk-in <input type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input checked="" type="checkbox"/>	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Logged By: <u>[Signature]</u>	Date: <u>10/29/02</u> Time: _____	

Client: GEOCON ENVIRONMENTAL - SAN DIEGO	Address: 6970 Flanders Drive	TEL: (858) 558-6100
Attn: <u>Chris King</u>	City: San Diego State: CA Zip Code: 92121	FAX: (858) 558-8437

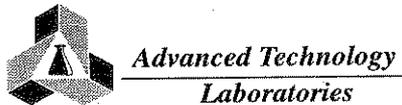
Project Name: <u>Rte 405 - EA 218301</u>	Project #: <u>09100-06-57</u>	Sampler: <u>GCA/MJB</u>	Date: _____ Time: _____
Relinquished by: <u>[Signature]</u>	Date: <u>10/29</u> Time: <u>4pm</u>	Received by: <u>[Signature]</u>	Date: _____ Time: <u>4pm</u>
Relinquished by: <u>[Signature]</u>	Date: <u>10/29</u> Time: <u>6:00p</u>	Received by: <u>[Signature]</u>	Date: <u>10/29/02</u> Time: <u>10/10</u>
Relinquished by: _____	Date: _____ Time: _____	Received by: _____	Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <u>CSK</u> <u>10/29/02</u> Print Name Date <u>[Signature]</u> Signature	Send Report To: Attn: _____ Co: <u>Client</u> Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: <u>Client</u> Address _____ City _____ State _____ Zip _____	Special Instructions/Comments:
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Unless otherwise requested, all samples will be disposed 45 days after receipt.	Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other <input type="checkbox"/> Return To: _____ * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.	Circle or Add Analysis(es) Requested 8091 / 8092 (Pesticides/PCB/SC) 8200 (Volatiles-GC/MS) 625 / 8270 (BVA-GC/MS) Metals Total (CAC-9010 / 7000) 8015M TPH/G/TEX (COMBINATION) 8015M TPHD (Diesel-GC) <u>Total lead 5010</u>	CIRCLE APPROPRIATE MATRIX SOLID • SOIL • SLUDGE OIL • SOLVENT • LIQUID WATER • WASTEWATER DRINKING WATER AIR WIPE • FILTER OTHER	Container(s) TAT # Type	QA/QC RTNE <input type="checkbox"/> RWQCB <input type="checkbox"/> WIP <input type="checkbox"/> NAVY <input type="checkbox"/> CT <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>
LAB USE ONLY: Batch #: Lab No.	Sample Description Sample I.D. Date Time				
↓ 59 60 61 62 63 64	C201 C202 C203 C204 C205 C206 C207	10/29 11:20 12:13 12:45 1:32 2:15 2:46 3:05	5day 1 P/L		

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays	Preservatives: H=Hcl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₈
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal		

CHAIN OF CUSTODY RECORD



3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport: Walk-in <input type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input checked="" type="checkbox"/>	Sample Condition Upon Receipt: 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Logged By: <u>[Signature]</u>	Date: <u>10/29/02</u> Time: _____	

Client: GEOCON ENVIRONMENTAL - SAN DIEGO	Address: 6970 Flanders Drive	TEL: (858) 558-6100
Attn: <u>CHRIS KING</u>	City: San Diego State: CA Zip Code: 92121	FAX: (858) 558-8437

Project Name: <u>Re 405-EA 218301</u>	Project #: <u>09100-06-57</u>	Sampler: <u>CSK/SPF</u> (Printed Name)	(Signature)
Relinquished by: <u>[Signature]</u>	Date: <u>10/29/02</u> Time: <u>4pm</u>	Received by: <u>[Signature]</u>	Date: <u>10-29-02</u> Time: <u>4pm</u>
Relinquished by: <u>[Signature]</u>	Date: <u>10/29</u> Time: <u>2:09</u>	Received by: <u>[Signature]</u>	Date: <u>10/29/02</u> Time: <u>1:10</u>
Relinquished by: <u>[Signature]</u>	Date: _____ Time: _____	Received by: <u>[Signature]</u>	Date: _____ Time: _____

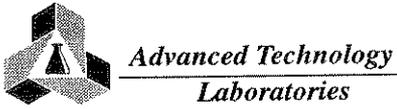
I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <u>CSK</u> <u>10/29/02</u> Print Name Date <u>[Signature]</u> Signature	Send Report To: Attn: _____ Co: <u>Client</u> Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: <u>Client</u> Address _____ City _____ State _____ Zip _____	Special Instructions/Comments: <u>Total lead 50 mg/kg and 2,000 mg/kg run WET-CITRIC</u> <u>WET-CITRIC 5 mg/L run WET-DI.</u> <u>10% or a minimum of 4 samples per group (See Attached)</u> <u>run soil ppt. 25% from each group run</u> <u>TCLP, choose samples with highest total</u> <u>lead content.</u>
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Unless otherwise requested, all samples will be disposed 45 days after receipt.	Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other <input type="checkbox"/> Return To: _____ * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.	Circle or Add Analysis(es) Requested: <u>8091 / 8092 (Pesticides/PCB-CO)</u> <u>8200 (Volatile GC/MS)</u> <u>823 / 8270 (BNA-GC/MS)</u> <u>Metals-Total (CAC, 8010, 7000)</u> <u>8015M TPH-G/TX (COMBINATION)</u> <u>8015M TPH-D (Diesel-GC)</u> <u>Total lead EDA 6010</u>	CIRCLE APPROPRIATE MATRIX: <u>SOLID • SOL • SLUDGE</u> <u>OIL • SOLVENT • LIQUID</u> <u>WATER • WASTEWATER</u> <u>DRINKING WATER</u> <u>AIR</u> <u>WIPE • FILTER</u> <u>OTHER</u> TAT # _____ Type _____	PRESERVATION QA/QC RTNE <input type="checkbox"/> RWQCB <input type="checkbox"/> WIP <input type="checkbox"/> NAVY <input type="checkbox"/> CT <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>
---	---	--	--	---

ITEM	LAB USE ONLY:		Sample Description				CIRCULAR APPROPRIATE MATRIX										PRESERVATION	REMARKS								
	Batch #:	Lab No.	Sample I.D.	Date	Time	8091 / 8092 (Pesticides/PCB-CO)	8200 (Volatile GC/MS)	823 / 8270 (BNA-GC/MS)	Metals-Total (CAC, 8010, 7000)	8015M TPH-G/TX (COMBINATION)	8015M TPH-D (Diesel-GC)	SOLID • SOL • SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER	DRINKING WATER	AIR			WIPE • FILTER	OTHER	TAT	#	Type			
			584-101-5	10/29	10:19																					
			584-101-0.3		10:26																					
			584-102-5		10:30																					
			584-102-0.3		10:35																					
			584-103-5		10:39																					
			584-103-0.3		10:46																					
			584-104-5		10:50																					
			584-104-0.3		10:54																					
			584-105-5		11:01																					
			584-105-0.3		11:10																					

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= Overnight ≤ 24 hr	B= Emergency Next workday	C= Critical 2 Workdays	D= Urgent 3 Workdays	E= Routine 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD



3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Method of Transport:
 Walk-in
 Courier
 UPS
 FED. EXP.
 ATL

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 ENVIRONMENTAL - SAN DIEGO** Address: 6970 Flanders Drive TEL: (858) 558-6100
 Attn: **Route 405 - EA 218301** City San Diego State CA Zip Code 92121 FAX: (858) 558-8437

Project Name: **CHRIS KING** Project #: **09100-06-57** Sampler: **CSK SA**
 Relinquished by: (Signature and Printed Name) **C. King** Date: **10/29/02** Time: **4:10pm** Received by: (Signature and Printed Name) _____ Date: **10-29-02** Time: **2:10pm**
 Relinquished by: (Signature and Printed Name) **WES** Date: **10/29** Time: **6:10pm** Received by: (Signature and Printed Name) _____ Date: **10-29-02** Time: **11:10**
 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: **CSK** Date: **10/29/02**
 Send Report To: Attn: _____ Co: **Client** Address: _____ City _____ State _____ Zip _____
 Bill To: Attn: _____ Co: **Client** Address: _____ City _____ State _____ Zip _____
 Special Instructions/Comments: **See Page 1**

Unless otherwise requested, all samples will be disposed 45 days after receipt.
 Sample Archive/Disposal:
 Laboratory Standard
 Other _____
 Return To: _____
 * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested:
 8091 / 8092 (Pesticides/PCB-SC)
 8280 (Volatiles-GC/MS)
 825 / 8270 (BVA-GC/MS)
 Metals-Total (CAC-8010 / 7000)
 8015M TPH/G/B/TEX (COMBINA-TION)
 8015M TPH/D (Diesel-GC)
TAN Lead - 6010

CIRCLE APPROPRIATE MATRIX:
 SOLID SLUDGE
 OIL • SOLVENT • LIQUID
 WATER • WASTEWATER
 DRINKING WATER
 AIR
 WIFE • FILTER
 OTHER

Container(s): # _____ Type _____

QA/QC:
 RTNE
 RWQCB
 WIP
 NAVY
 CT
 OTHER _____

ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Lab No.	Sample I.D.	Date	Time	
		-75	584-106-5	10/29	1113	
		-76	584-106-0.3		1114	
		-77	584-107-5		1121	
		-78	584-107-0.3		1129	
		-79	584-108-5		1132	
		-80	584-108-0.3		1138	
		-81	584-113-5		1145	
		-82	584-113-0.3		1148	
		-83	584-114-5		1150	
		-84	584-114-0.3		1200	

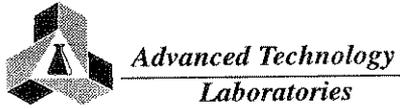
• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

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

CHAIN OF CUSTODY RECORD



3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Method of Transport: Walk-in Courier UPS FED. EXP. ATL

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

Logged By: [Signature] Date: 10/29/02 Time: _____

Client: **GEOCON ENVIRONMENTAL - SAN DIEGO** Address: 6970 Flanders Drive
Attn: CHRIS KING City: San Diego State: CA Zip Code: 92121
TEL: (858) 558-6100 FAX: (858) 558-8437

Project Name: Route 405 - EA 214301 Project #: 02100-06-57 Sampler: C. King / JPF
Relinquished by: [Signature] Date: 10/29/02 Time: 4:10 pm Received by: [Signature] Date: 10/29/02 Time: 4:10 pm
Relinquished by: [Signature] Date: 10-29-02 Time: 6:10p Received by: [Signature] Date: 10/29/02 Time: 1:41p
Relinquished by: [Signature] Date: _____ Time: _____ Received by: [Signature] Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: CSK 10/29/02
Send Report To: Attn: _____ Co: client Address: _____ City: _____ State: _____ Zip: _____
Bill To: Attn: _____ Co: client Address: _____ City: _____ State: _____ Zip: _____
Special Instructions/Comments: see page 1

Unless otherwise requested, all samples will be disposed 45 days after receipt.
Sample Archive/Disposal: Laboratory Standard Other _____ Return To: _____
* \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested	CIRCLE APPROPRIATE MATRIX										PRESERVATION	QA/QC						
	8081 / 8082 (Pesticides/PCPs/OC)	8280 (Volatiles/GC/MS)	8281 / 8270 (BVA-GC/MS)	Metals Total (CAC-GC/MS)	8013M TPH (G/TEXT)	8013M TPH (D (Diesel-GC))	8013M TPH (D (COMBINATION))	SOLID • SOIL • SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER			DRINKING WATER	AIR	WIPE • FILTER	OTHER	TAT	Container(s)

ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Lab No.	Sample I.D.	Date	Time	
		- 85	584-109-S	10/29	1205	
		- 86	584-109-0.3		1209	
		- 87	584-110-S		1213	
		- 88	584-110-0.3		1214	
		- 89	584-111-S		1223	
		- 90	584-111-0.3		1228	
		- 91	584-112-S		232	
		- 92	584-112-0.3		1238	
		- 93	584-115-S		1251	
		- 94	584-115-0.3		1259	

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Preservatives: H=Hcl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

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

CHAIN OF CUSTODY RECORD

4



**Advanced Technology
Laboratories**
3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Method of Transport: Walk-in Courier UPS FED. EXP. ATL

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 ENVIRONMENTAL - SAN DIEGO** Address: 6970 Flanders Drive City: San Diego State: CA Zip Code: 92121
 Attn: Chris King TEL: (858) 558-6100 FAX: (858) 558-8437

Project Name: RE 405-EA 218301 Project #: 09100-06-57 Sampler: CSE / JPF (Signature)
 Relinquished by: (Signature and Printed Name) [Signature] Date: 10/29/02 Time: 4:00pm Received by: (Signature and Printed Name) [Signature] Date: 10-29-02 Time: 4:10
 Relinquished by: (Signature and Printed Name) [Signature] Date: 10/29 Time: 6:10p Received by: (Signature and Printed Name) [Signature] Date: 10/29/02 Time: 7:10
 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: CSE Send Report To: _____ Attn: _____
 Co: Geocon Co: Geocon
 Address: _____ Address: _____
 City: _____ State: _____ Zip: _____ City: _____ State: _____ Zip: _____

Special Instructions/Comments: See page 1

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
 Laboratory Standard
 Other
 Return To: _____

* \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested:
 8081 / 8082 (Pesticides/PCB-GC)
 8280 (Nolanes-GCMS)
 825 / 8270 (BNA-GCMS)
 Metals Total (CAC-8010 / 7000)
 8015M TPH/G/TEX (COMBINATION)
 121M / 821610

CIRCLE APPROPRIATE MATRIX:
 SOLID / SOIL / SLUDGE
 OIL / SOLVENT / LIQUID
 WATER / WASTEWATER
 DRINKING WATER
 AIR
 WIFE / FILTER
 OTHER

Container(s): TAT # _____ Type _____

QA/QC: RTNE RWQCB WIP NAVY CT OTHER _____

ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Lab No.	Sample I.D.	Date	Time	
		95	584-116-5	10/29	10:03	
		96	584-116-0.3		10:07	
		97	584-117-5		11:10	
		98	584-117-0.3		11:13	
		99	584-118-5		11:16	
		100	584-118-0.3		11:18	
		101	584-119-5		12:20	
		102	584-119-0.3		12:24	
		103	584-120-5		1:44	
		104	584-120-0.3		1:53	

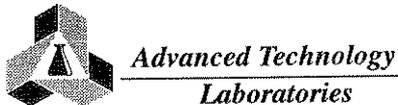
• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

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

CHAIN OF CUSTODY RECORD



3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Walk-in <input type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input checked="" type="checkbox"/>	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Logged By: <u>[Signature]</u>	Date: <u>10/29/02</u>	

Client: GEOCON ENVIRONMENTAL - SAN DIEGO	Address: 6970 Flanders Drive	TEL: (858) 558-6100
Attn: <u>CHRIS KING</u>	City: San Diego State: CA Zip Code: 92121	FAX: (858) 558-8437

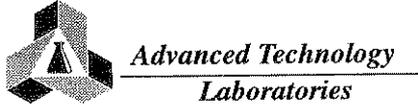
Project Name: <u>Route 405 EA 218301</u>	Project #: <u>09100-0657</u>	Sampler: <u>CSK/JPF</u>	(Signature): _____
Relinquished by: <u>[Signature]</u>	Date: <u>10/29/02</u> Time: <u>4pm</u>	Received by: <u>[Signature]</u>	Date: <u>10/29/02</u> Time: <u>[Signature]</u>
Relinquished by: <u>[Signature]</u>	Date: <u>10/29</u> Time: <u>6:00p</u>	Received by: <u>[Signature]</u>	Date: <u>10/29/02</u> Time: <u>1810</u>

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <u>CSK</u> Date: <u>10/29/02</u> Signature: _____	Send Report To: Attn: _____ Co: <u>Client</u> Address: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: <u>Client</u> Address: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: <u>See Page 1</u>
--	--	---	---

Unless otherwise requested, all samples will be disposed 45 days after receipt.	Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other _____ <input type="checkbox"/> Return To: _____ * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.	Circle or Add Analysis(es) Requested 8260 / 8262 (Pesticides/PCB-GC) 8260 (Volatiles-GCMS) 825 / 8270 (VIA-GCMS) Metals Total (CAC-8010 / 7000) 8015M TPH/G/BTEX (COMBINATION) 8015M TPH/D (Diesel/GC) <u>To total lead 6010</u>	CIRCLE APPROPRIATE MATRIX SOLID • SOIL • SLUDGE OIL • SOLVENT • LIQUID WATER • WASTEWATER DRINKING WATER AIR WIPE • FILTER OTHER _____	PRESERVATION RTNE <input type="checkbox"/> RWQCB <input type="checkbox"/> WIP <input type="checkbox"/> NAVY <input type="checkbox"/> CT <input checked="" type="checkbox"/> OTHER _____							
LAB USE ONLY:		Sample Description									
I	T	Batch #:	Sample I.D.	Date	Time	TAT	#	Type	REMARKS	PRESERVATION	OTHER
		105	584-121-5	10/29	155						
		106	584-121-0.3		158						
		107	584-122-5		208						
		108	584-122-0.3		213						
		109	584-123-5		217						
		110	584-123-0.3		222						
		111	584-124-5		226						
		112	584-124-0.3		229						
		113	584-125-5		233						
		114	584-125-0.3		238						

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= Overnight < 24 hr	B= Emergency Next workday	C= Critical 2 Workdays	D= Urgent 3 Workdays	E= Routine 7 Workdays	Preservatives: H=Hcl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₈
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD



3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: Jon Date: 10/29/02 Time: _____

Method of Transport:
 Walk-in
 Courier
 UPS
 FED. EXP.
 ATL

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 ENVIRONMENTAL - SAN DIEGO** Address: 6970 Flanders Drive City: San Diego State: CA Zip Code: 92121
 Attn: Chris King TEL: (858) 558-6100 FAX: (858) 558-8437

Project Name: RE 405 EA 218301 Project #: 09100-06-57 Sampler: CSK/JPF
 Relinquished by: (Signature and Printed Name) [Signature] Date: 6/29/02 Time: _____ Received by: (Signature and Printed Name) [Signature] Date: 10/29/02 Time: 1 pm
 Relinquished by: (Signature and Printed Name) [Signature] Date: 10/29/02 Time: 6:00 pm Received by: (Signature and Printed Name) [Signature] Date: 10/29/02 Time: 1:10
 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: [Signature] Date: 10/29/02
 Send Report To: Attn: _____ Co: _____ Address: _____ City: _____ State: _____ Zip: _____
 Bill To: Attn: [Signature] Co: _____ Address: _____ City: _____ State: _____ Zip: _____
 Special Instructions/Comments: See Page 1

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
 Laboratory Standard
 Other _____
 Return To: _____
 * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested:
 8081 / 8082 (Pesticides/PCB-CO)
 8230 (Volatile/CC/MS)
 625 / 8270 (BVA-GC/MS)
 Metals: Total (CAC-8070 / TOX)
 8015M TPH/BTEX (COMBINATION)
 8019M TPH/D (Diesel/GC)
Total Lead 6010

CIRCLE APPROPRIATE MATRIX:
 SOLID • SOLV • SLUDGE
 OIL • SOLVENT • LIQUID
 WATER • WASTEWATER
 DRINKING WATER
 AIR
 WIPE • FILTER
 OTHER _____

Container(s): TAT # _____ Type _____

PRESERVATION: RTNE RWQCB WIP NAVY CT OTHER _____

ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Lab No.	Sample I.D.	Date	Time	
		115	584-126-S	10/29	2:17	
		116	584-126-0.3		2:21	
		117	584-127-S		2:26	
		118	584-127-0.3		2:31	
		119	584-128-S		2:35	
		120	584-128-0.3		2:40	
		121	584-129-S		2:46	
		122	584-129-0.3		2:49	
		123	584-130-S		2:51	
		124	584-130-0.3		2:58	

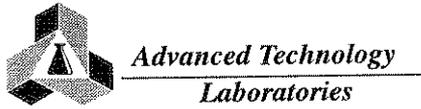
• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Preservatives: H=Hcl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃

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

CHAIN OF CUSTODY RECORD



3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport: Walk-in <input type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input checked="" type="checkbox"/>	Sample Condition Upon Receipt: 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Logged By: <u>[Signature]</u>	Date: <u>10/29/02</u> Time: _____	

Client: GEOCON ENVIRONMENTAL - SAN DIEGO	Address: 6970 Flanders Drive	TEL: (858) 558-6100
Attn: <u>CHRIS KING</u>	City: San Diego State: CA Zip Code: 92121	FAX: (858) 558-8437

Project Name: <u>ROUTE 405-EA 218301</u>	Project #: <u>09100-06-57</u>	Sampler: <u>CHRIS KING</u> (Printed Name)
Relinquished by: <u>[Signature]</u>	Date: <u>10/29/02</u> Time: <u>4:10 PM</u>	Received by: <u>[Signature]</u> (Signature and Printed Name)
Relinquished by: <u>[Signature]</u>	Date: <u>10/29</u> Time: <u>6:50 PM</u>	Received by: <u>[Signature]</u> (Signature and Printed Name)
Relinquished by: <u>[Signature]</u>	Date: _____ Time: _____	Received by: <u>[Signature]</u> (Signature and Printed Name)

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <u>[Signature]</u> <u>10/29/02</u> Print Name Date <u>[Signature]</u>	Send Report To: Attn: _____ Co: <u>Client</u> Address: _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: <u>Client</u> Address: _____ City _____ State _____ Zip _____	Special Instructions/Comments: <u>See Page 1</u>
---	---	--	---

Unless otherwise requested, all samples will be disposed 45 days after receipt.	Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other _____ <input type="checkbox"/> Return To: _____ * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.	Circle or Add Analysis(es) Requested: <u>8091 / 8092 (Pesticides/PCB/CC)</u> <u>8200 (Volatiles-GC/MS)</u> <u>8231 / 8270 (BVA-GC/MS)</u> <u>Metals: Total (CAC-8010 / 7000)</u> <u>8015M TPH-GBTX (COMBINATION)</u> <u>8015M TPH-ID (Diesel/GC)</u> <u>PAH / total 6010</u>
---	---	---

I T E M	LAB USE ONLY:		Sample Description				CIRCLE APPROPRIATE MATRIX										PRESERVATION	REMARKS								
	Batch #:	Lab No.	Sample I.D.	Date	Time	8091 / 8092 (Pesticides/PCB/CC)	8200 (Volatiles-GC/MS)	8231 / 8270 (BVA-GC/MS)	Metals: Total (CAC-8010 / 7000)	8015M TPH-GBTX (COMBINATION)	8015M TPH-ID (Diesel/GC)	PAH / total 6010	SOLID • SOIL • SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER	DRINKING WATER			AIR	WIPE • FILTER	OTHER	TAT	#	Type		
		125	584-131-S	10/29	258																					
		126	584-131-0.3		259																					
		127	584-132-S		301																					
		128	584-132-0.3		305																					

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= Overnight ≤ 24 hr	B= Emergency Next workday	C= Critical 2 Workdays	D= Urgent 3 Workdays	E= Routine 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(Ac) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD



**Advanced Technology
Laboratories**

3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____
Logged By: [Signature] Date: 10/29/02 Time: _____

Method of Transport
Walk-in
Courier
UPS
FED. EXP.
ATL

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 ENVIRONMENTAL - SAN DIEGO** Address: 6970 Flanders Drive City: San Diego State: CA Zip Code: 92121
Attn: **CHRIS KING** TEL: (858) 558-6100 FAX: (858) 558-8437

Project Name: Route 405 EA 218301 Project #: 09100-06-57 Sampler: CSK/SPE
Relinquished by: [Signature] Date: 10/29/02 Time: 1:10p Received by: [Signature] Date: 10-29-02 Time: 2:10p
Relinquished by: [Signature] Date: 10/29 Time: 6:10p Received by: [Signature] Date: 10/29/02 Time: 1:10p
Relinquished by: [Signature] Date: _____ Time: _____ Received by: [Signature] Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: CSK Date: 10/29/02
Send Report To: Attn: _____ Co: Client Address: _____ City: _____ State: _____ Zip: _____
Bill To: Attn: _____ Co: Client Address: _____ City: _____ State: _____ Zip: _____

Special Instructions/Comments: _____

Unless otherwise requested, all samples will be disposed 45 days after receipt.
Sample Archive/Disposal:
 Laboratory Standard
 Other
 Return To: _____
* \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested
8081 / 8082 (Pesticides/PCB-SC)
8260 (Nobaltes-GCMS)
823 / 8270 (BNA-GCMS)
Metals Total (CAC-8010 / 7009)
8019M TPH3/BTEX (COMBINATION)
8015M TPH4 (Diesel-GC)
Total Lead 60/10
CIRCLE APPROPRIATE MATRIX
SOLID • SOIL • SLUDGE
OIL • SOLVENT • LIQUID
WATER • WASTEWATER
DRINKING WATER
AIR
WIPE • FILTER
OTHER
TAT # Type
CONTAINER(S)
PRESERVATION
QA/QC
RTNE
RWQCB
WIP
NAVY
CT
OTHER
REMARKS

ITEM	LAB USE ONLY:		Sample Description		Date	Time
	Batch #:	Lab No.	Sample I.D.			
		129	EBN-1		10/29	1115
		130	EBN-2			1203
		131	EBN-3			100
		132	EBN-4			120
		133	EBN-5			230
		134	EBN-6			300

• TAT starts 8 a.m. following day if samples received after 5 p.m.
TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
Preservatives: H=HCl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₃
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

10/15/02

Task Order No 07- 218301-QY
Page 17 of 23

Attachment D - Statistical Grouping for Data

Samples to be divided into groups for statistical analysis as follow:

1. LA 405 (KP 64.5/74.4) EA 218301 — 9.9 Km, each direction, 19.8 Km total
19.8 Km / 1.6 Km = 12.38 extra km

Two samples to be taken from each borehole, at surface and at 0.30m depth.

mob/demob = 1st 1.6 Km
extra Km = 11.4 Km extra

North bound

Group	Location	Number of Boreholes	Number of Samples	Number of Samples for pH test
1	Burbank Blvd, Off and On ramps West shoulders.	4 <i>584-101 to 584-104</i>	8	4
2	Victory Blvd. intersection, SE quadrant. Victory Blvd. Off and On ramps.	12 <i>584-105 to 584-106</i>	2 6	4
3	Sherman Way off ramp, gore area. Sherman Way intersection, SE and NE quadrants. Sherman Way Off and On ramp, Triangle area East of La 405.	1 <i>584-113 to 584-119</i>	2 4 8	4
4	Strip along with Firwent Ave, from Wyandotte St to Saticoy ST. 580 m length. Samples to be taken every 60 meter.	9 <i>584-120 to 584-128</i>	18	4
5	Roscoe Blvd. Off and On ramps West shoulders.	4	8	4
6	Nordhoff Street, Off and On ramps West shoulders.	4	8	4
7	Devonshire Off and On ramps.	4	8	4

South bound

8	Devonshire Street intersection, NW and SW quadrants. Devonshire Street On ramp. East shoulder.	3 <i>584-201-205</i>	6 4	4
9	Nordhoff Street, Off and On ramps East shoulders.	4 <i>584-214-217</i>	4	8
10	Roscoe Blvd. Off and On ramps East shoulders.	4 <i>584-222-225</i>	4	8
11	Sherman Way Off and On ramps. Triangle area West of La 405 Sherman Way intersection, NW and SW quadrants. Sherman Way On ramp, gore area.	4 <i>584-226-229</i>	4 2 1	4 4 2

W) SE

10/15/02

Task Order No 07-218301-QY
Page 18 of 23

Group	Location	Number of Boreholes	Number of Samples	Number of Samples for pH test
12	Strip along with Haskell Ave, from Hart Street to Vanowen St. 400 m length. Samples to be taken every 60 meter.	6	12	4
13	Strip along with Haskell Ave, 360 m length. from Vanowen south. Hawes Street Off ramp.	6	12	4
14	Strip along with Haskell Ave, 260 m length. From Hawes St. to Victory Blvd. Samples to be taken every 60 meter. Victory Blvd. intersection, NW and SW quadrants. Victory Blvd On ramp.	4	8	4
15	Burbank Blvd, Off and On ramps	4	8	4
Intersects groups				
✓16	Vanowen Street intersection, One at each quadrant.	4	4 ⁵⁸⁴⁻¹⁰⁹ 584-112	8
✓17	Saticoy Street intersection, One at each quadrant	4	4 ⁵⁸⁴⁻¹²⁹ 584-132	8
18	Parthenia Street intersection, One at each quadrant.	4	4 ⁵⁸⁴ 218-221	8
✓19	Plumer Street intersection, One at each quadrant.	4	4 ⁵⁸⁴ 210-213	8
✓20	Lasen Street intersection, One at each quadrant.	4	4 ⁵⁸⁴ 206-207	8
	Total	20 206-207-208 209	102	204
				80

November 11, 2002

Chris King
Geocon Environmental
6970 Flanders Drive
San Diego, CA 92121
TEL: (858) 558-6100
FAX: (858) 558-8437

RE: Route 405-EA218301, 09100-06-57

Attention: Chris King

ELAP No.: 1838

NELAP No.: 02107CA

Workorder No.: 059569

Enclosed are the results for sample(s) received on October 30, 2002 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

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

This cover letter is an integral part of this analytical report.



Advanced Technology Laboratories

Date: 11/11/2002

LEAD BY ICP EPA 6010B

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-001A	584-133-S	1300	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-002A	584-133-0.3	1400	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-003A	584-134-S	85	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-004A	584-134-0.3	70	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-005A	584-135-S	390	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-006A	584-135-0.3	100	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-007A	584-136-S	6400	mg/Kg	11155	500	100	10/30/2002	11/5/2002
059569-008A	584-136-0.3	190	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-009A	584-137-S	140	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-010A	584-137-0.3	290	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-011A	584-138-S	390	mg/Kg	11155	5	1	10/30/2002	11/4/2002

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 DO - Surrogate Diluted Out
 S - Spike/Surrogate outside of limits due to matrix interfere
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 E - Value above quantitation range
 Results are wet unless otherwise specified



**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-012A	584-138-0.3	190	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-013A	584-139-S	160	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-014A	584-139-0.3	62	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-015A	584-140-S	100	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-016A	584-140-0.3	320	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-017A	584-141-S	240	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-018A	584-141-0.3	110	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-019A	584-142-S	76	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-020A	584-142-0.3	40	mg/Kg	11155	5	1	10/30/2002	11/4/2002
059569-021A	584-143-S	33	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-022A	584-143-0.3	13	mg/Kg	11156	5	1	10/30/2002	11/4/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-023A	584-144-S	46	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-024A	584-144-0.3	56	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-025A	584-230-S	340	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-026A	584-230-0.3	220	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-027A	584-231-S	390	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-028A	584-231-0.3	75	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-029A	584-232-S	1500	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-030A	584-232-0.3	120	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-031A	584-233-S	71	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-032A	584-233-0.3	9.0	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-033A	584-234-S	120	mg/Kg	11156	5	1	10/30/2002	11/4/2002

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Advanced Technology Laboratories

Date: 11/11/2002

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EPA 6010B**

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Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-034A	584-234-0.3	35	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-035A	584-235-S	58	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-036A	584-235-0.3	36	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-037A	584-236-S	86	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-038A	584-236-0.3	15	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-039A	584-237-S	87	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-040A	584-237-0.3	22	mg/Kg	11156	5	1	10/30/2002	11/4/2002
059569-041A	584-238-S	170	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-042A	584-238-0.3	360	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-043A	584-239-S	140	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-044A	584-239-0.3	100	mg/Kg	11157	5	1	10/30/2002	11/4/2002

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Date Received: 10/30/2002 1:14:
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Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-045A	584-240-S	41	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-046A	584-240-0.3	15	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-047A	584-241-S	130	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-048A	584-241-0.3	110	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-049A	584-242-S	92	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-050A	584-242-0.3	90	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-051A	584-243-S	160	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-052A	584-243-0.3	34	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-053A	584-244-S	22	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-054A	584-244-0.3	30	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-055A	584-245-S	310	mg/Kg	11157	5	1	10/30/2002	11/4/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-056A	584-245-0.3	240	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-057A	584-246-S	330	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-058A	584-246-0.3	19	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-059A	584-247-S	32	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-060A	584-247-0.3	6.4	mg/Kg	11157	5	1	10/30/2002	11/4/2002
059569-061A	584-248-S	330	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-062A	584-248-0.3	180	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-063A	584-249-S	150	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-064A	584-249-0.3	13	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-065A	584-250-S	68	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-066A	584-250-0.3	11	mg/Kg	11158	5	1	10/30/2002	11/4/2002

Qualifiers: ND - Not Detected at the Reporting Limit
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Advanced Technology Laboratories

Date: 11/11/2002

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Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-067A	584-251-S	330	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-068A	584-251-0.3	53	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-069A	584-252-S	320	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-070A	584-252-0.3	65	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-071A	584-253-S	260	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-072A	584-253-0.3	38	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-073A	584-254-S	680	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-074A	584-254-0.3	1000	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-075A	584-255-S	210	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-076A	584-255-0.3	65	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-077A	584-256-S	660	mg/Kg	11158	5	1	10/30/2002	11/4/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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Advanced Technology Laboratories

Date: 11/11/2002

**LEAD BY ICP
EPA 6010B**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-078A	584-256-0.3	23	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-079A	584-257-S	130	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-080A	584-257-0.3	28	mg/Kg	11158	5	1	10/30/2002	11/4/2002
059569-081A	584-258-S	420	mg/Kg	11159	5	1	10/30/2002	11/4/2002
059569-082A	584-258-0.3	420	mg/Kg	11159	5	1	10/30/2002	11/4/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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Advanced Technology Laboratories

Date: 11/11/2002

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CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Water
Analyst: RQ

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-083A	EBN-7	ND	mg/L	11154	0.005	1	10/30/2002	11/4/2002
059569-084A	EBN-8	ND	mg/L	11154	0.005	1	10/30/2002	11/4/2002
059569-085A	C207	ND	mg/L	11154	0.005	1	10/30/2002	11/4/2002
059569-086A	C208	ND	mg/L	11154	0.005	1	10/30/2002	11/4/2002
059569-087A	C209	ND	mg/L	11154	0.005	1	10/30/2002	11/4/2002
059569-088A	C210	ND	mg/L	11154	0.005	1	10/30/2002	11/4/2002
059569-089A	C211	ND	mg/L	11154	0.005	1	10/30/2002	11/4/2002

Qualifiers: ND - Not Detected at the Reporting Limit
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 Results are wet unless otherwise specified



Advanced Technology Laboratories

Date: 11/11/2002

pH EPA 9045C

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-001A	584-133-S	8.10	pH Units	R22306	0.1	1	10/30/2002	11/4/2002
059569-003A	584-134-S	6.97	pH Units	R22306	0.1	1	10/30/2002	11/4/2002
059569-005A	584-135-S	7.34	pH Units	R22306	0.1	1	10/30/2002	11/4/2002
059569-007A	584-136-S	7.53	pH Units	R22306	0.1	1	10/30/2002	11/4/2002
059569-009A	584-137-S	7.40	pH Units	R22306	0.1	1	10/30/2002	11/4/2002
059569-011A	584-138-S	6.15	pH Units	R22306	0.1	1	10/30/2002	11/4/2002
059569-013A	584-139-S	6.55	pH Units	R22306	0.1	1	10/30/2002	11/4/2002
059569-015A	584-140-S	7.65	pH Units	R22306	0.1	1	10/30/2002	11/4/2002
059569-017A	584-141-S	7.15	pH Units	R22306	0.1	1	10/30/2002	11/4/2002
059569-019A	584-142-S	7.49	pH Units	R22306	0.1	1	10/30/2002	11/4/2002
059569-021A	584-143-S	8.34	pH Units	R22307	0.1	1	10/30/2002	11/4/2002

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Advanced Technology Laboratories

Date: 11/11/2002

pH EPA 9045C

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-023A	584-144-S	6.88	pH Units	R22307	0.1	1	10/30/2002	11/4/2002
059569-031A	584-233-S	7.82	pH Units	R22307	0.1	1	10/30/2002	11/4/2002
059569-035A	584-235-S	6.38	pH Units	R22307	0.1	1	10/30/2002	11/4/2002
059569-038A	584-236-0.3	6.72	pH Units	R22307	0.1	1	10/30/2002	11/4/2002
059569-042A	584-238-0.3	6.17	pH Units	R22307	0.1	1	10/30/2002	11/4/2002
059569-043A	584-239-S	6.14	pH Units	R22307	0.1	1	10/30/2002	11/4/2002
059569-047A	584-241-S	6.69	pH Units	R22307	0.1	1	10/30/2002	11/4/2002
059569-050A	584-242-0.3	6.80	pH Units	R22307	0.1	1	10/30/2002	11/4/2002
059569-054A	584-244-0.3	7.08	pH Units	R22307	0.1	1	10/30/2002	11/4/2002
059569-059A	584-247-S	6.94	pH Units	R22308	0.1	1	10/30/2002	11/4/2002
059569-061A	584-248-S	6.75	pH Units	R22308	0.1	1	10/30/2002	11/4/2002

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Date: 11/11/2002

pH EPA 9045C

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-063A	584-249-S	5.76	pH Units	R22308	0.1	1	10/30/2002	11/4/2002
059569-065A	584-250-S	6.15	pH Units	R22308	0.1	1	10/30/2002	11/4/2002
059569-075A	584-255-S	7.74	pH Units	R22308	0.1	1	10/30/2002	11/4/2002
059569-077A	584-256-S	6.36	pH Units	R22308	0.1	1	10/30/2002	11/4/2002
059569-079A	584-257-S	8.28	pH Units	R22308	0.1	1	10/30/2002	11/4/2002
059569-081A	584-258-S	7.76	pH Units	R22308	0.1	1	10/30/2002	11/4/2002

Qualifiers: ND - Not Detected at the Reporting Limit
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 E - Value above quantitation range
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**LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-003A	584-134-S	21	mg/L	11205	0.8	4	10/30/2002	11/8/2002
059569-004A	584-134-0.3	6.7	mg/L	11205	0.2	1	10/30/2002	11/8/2002
059569-005A	584-135-S	90	mg/L	11205	2	10	10/30/2002	11/8/2002
059569-006A	584-135-0.3	22	mg/L	11205	0.8	4	10/30/2002	11/8/2002
059569-008A	584-136-0.3	22	mg/L	11205	0.8	4	10/30/2002	11/8/2002
059569-009A	584-137-S	57	mg/L	11205	2	10	10/30/2002	11/8/2002
059569-010A	584-137-0.3	13	mg/L	11205	0.4	2	10/30/2002	11/8/2002
059569-011A	584-138-S	19	mg/L	11205	0.4	2	10/30/2002	11/8/2002
059569-012A	584-138-0.3	0.91	mg/L	11205	0.2	1	10/30/2002	11/8/2002
059569-013A	584-139-S	9.6	mg/L	11205	0.2	1	10/30/2002	11/8/2002
059569-014A	584-139-0.3	2.4	mg/L	11205	0.2	1	10/30/2002	11/8/2002

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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CLIENT: Geocon Environmental
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Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-015A	584-140-S	59	mg/L	11205	2	10	10/30/2002	11/8/2002
059569-016A	584-140-0.3	33	mg/L	11258	0.8	4	10/30/2002	11/11/2002
059569-017A	584-141-S	6.9	mg/L	11258	0.2	1	10/30/2002	11/11/2002
059569-018A	584-141-0.3	5.9	mg/L	11258	0.2	1	10/30/2002	11/11/2002
059569-019A	584-142-S	3.6	mg/L	11205	0.2	1	10/30/2002	11/8/2002
059569-024A	584-144-0.3	2.5	mg/L	11205	0.2	1	10/30/2002	11/8/2002
059569-025A	584-230-S	34	mg/L	11205	0.8	4	10/30/2002	11/8/2002
059569-026A	584-230-0.3	13	mg/L	11206	0.4	2	10/30/2002	11/8/2002
059569-027A	584-231-S	43	mg/L	11206	2	10	10/30/2002	11/8/2002
059569-028A	584-231-0.3	2.2	mg/L	11206	0.2	1	10/30/2002	11/8/2002
059569-030A	584-232-0.3	12	mg/L	11206	0.4	2	10/30/2002	11/8/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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LEAD BY ATOMIC ABSORPTION
WET/ EPA 7420

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-031A	584-233-S	3.7	mg/L	11206	0.2	1	10/30/2002	11/8/2002
059569-033A	584-234-S	4.7	mg/L	11206	0.2	1	10/30/2002	11/8/2002
059569-035A	584-235-S	0.88	mg/L	11206	0.2	1	10/30/2002	11/8/2002
059569-037A	584-236-S	2.8	mg/L	11206	0.2	1	10/30/2002	11/8/2002
059569-039A	584-237-S	4.3	mg/L	11206	0.2	1	10/30/2002	11/8/2002
059569-041A	584-238-S	8.8	mg/L	11206	0.2	1	10/30/2002	11/8/2002
059569-042A	584-238-0.3	25	mg/L	11206	0.8	4	10/30/2002	11/8/2002
059569-043A	584-239-S	12	mg/L	11206	0.4	2	10/30/2002	11/8/2002
059569-044A	584-239-0.3	8.3	mg/L	11206	0.2	1	10/30/2002	11/8/2002
059569-047A	584-241-S	9.3	mg/L	11206	0.2	1	10/30/2002	11/8/2002
059569-048A	584-241-0.3	3.7	mg/L	11206	0.2	1	10/30/2002	11/8/2002

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CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
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Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-049A	584-242-S	2.5	mg/L	11206	0.2	1	10/30/2002	11/8/2002
059569-050A	584-242-0.3	1.9	mg/L	11206	0.2	1	10/30/2002	11/8/2002
059569-051A	584-243-S	6.5	mg/L	11206	0.2	1	10/30/2002	11/8/2002
059569-055A	584-245-S	28	mg/L	11206	0.8	4	10/30/2002	11/8/2002
059569-056A	584-245-0.3	12	mg/L	11206	0.4	2	10/30/2002	11/8/2002
059569-057A	584-246-S	51	mg/L	11207	2	10	10/30/2002	11/8/2002
059569-061A	584-248-S	22	mg/L	11207	0.8	4	10/30/2002	11/8/2002
059569-062A	584-248-0.3	9.5	mg/L	11207	0.2	1	10/30/2002	11/8/2002
059569-063A	584-249-S	5.9	mg/L	11207	0.2	1	10/30/2002	11/8/2002
059569-065A	584-250-S	3.0	mg/L	11207	0.2	1	10/30/2002	11/8/2002
059569-067A	584-251-S	24	mg/L	11207	0.8	4	10/30/2002	11/8/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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WET/ EPA 7420**

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-068A	584-251-0.3	2.8	mg/L	11207	0.2	1	10/30/2002	11/8/2002
059569-069A	584-252-S	30	mg/L	11207	0.8	4	10/30/2002	11/8/2002
059569-070A	584-252-0.3	2.7	mg/L	11207	0.2	1	10/30/2002	11/8/2002
059569-071A	584-253-S	16	mg/L	11207	0.4	2	10/30/2002	11/8/2002
059569-073A	584-254-S	57	mg/L	11207	2	10	10/30/2002	11/8/2002
059569-075A	584-255-S	11	mg/L	11207	0.4	2	10/30/2002	11/8/2002
059569-076A	584-255-0.3	5.2	mg/L	11207	0.2	1	10/30/2002	11/8/2002
059569-077A	584-256-S	51	mg/L	11258	2	10	10/30/2002	11/11/2002
059569-079A	584-257-S	27	mg/L	11207	0.8	4	10/30/2002	11/8/2002
059569-081A	584-258-S	31	mg/L	11207	0.8	4	10/30/2002	11/8/2002
059569-082A	584-258-0.3	40	mg/L	11207	2	10	10/30/2002	11/8/2002

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LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-002A	584-133-0.3	6.7	mg/L	11226	0.2	1	10/30/2002	11/7/2002
059569-007A	584-136-S	4.2	mg/L	11226	0.2	1	10/30/2002	11/7/2002
059569-011A	584-138-S	0.50	mg/L	11226	0.2	1	10/30/2002	11/7/2002
059569-016A	584-140-0.3	0.84	mg/L	11226	0.2	1	10/30/2002	11/7/2002
059569-017A	584-141-S	0.30	mg/L	11226	0.2	1	10/30/2002	11/7/2002
059569-018A	584-141-0.3	0.37	mg/L	11226	0.2	1	10/30/2002	11/7/2002
059569-025A	584-230-S	1.1	mg/L	11226	0.2	1	10/30/2002	11/7/2002
059569-027A	584-231-S	0.66	mg/L	11226	0.2	1	10/30/2002	11/7/2002
059569-029A	584-232-S	0.92	mg/L	11227	0.2	1	10/30/2002	11/7/2002
059569-033A	584-234-S	ND	mg/L	11227	0.2	1	10/30/2002	11/7/2002
059569-041A	584-238-S	0.30	mg/L	11227	0.2	1	10/30/2002	11/7/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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LEAD BY ATOMIC ABSORPTION
EPA 1311/ 7420

CLIENT: Geocon Environmental
Project: Route 405-EA218301, 09100-06-57
Project No:
PO No:

Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-042A	584-238-0.3	0.48	mg/L	11227	0.2	1	10/30/2002	11/7/2002
059569-043A	584-239-S	0.24	mg/L	11227	0.2	1	10/30/2002	11/7/2002
059569-047A	584-241-S	0.41	mg/L	11227	0.2	1	10/30/2002	11/7/2002
059569-051A	584-243-S	0.41	mg/L	11227	0.2	1	10/30/2002	11/7/2002
059569-057A	584-246-S	0.69	mg/L	11227	0.2	1	10/30/2002	11/7/2002
059569-061A	584-248-S	0.33	mg/L	11227	0.2	1	10/30/2002	11/7/2002
059569-062A	584-248-0.3	0.67	mg/L	11227	0.2	1	10/30/2002	11/7/2002
059569-067A	584-251-S	0.55	mg/L	11228	0.2	1	10/30/2002	11/7/2002
059569-074A	584-254-0.3	3.6	mg/L	11228	0.2	1	10/30/2002	11/7/2002
059569-077A	584-256-S	0.64	mg/L	11228	0.2	1	10/30/2002	11/7/2002
059569-081A	584-258-S	0.80	mg/L	11228	0.2	1	10/30/2002	11/7/2002

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Project No:
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Lab Order: 059569
Date Received: 10/30/2002 1:14:
Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-003A	584-134-S	ND	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-004A	584-134-0.3	ND	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-005A	584-135-S	0.83	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-006A	584-135-0.3	ND	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-008A	584-136-0.3	0.65	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-009A	584-137-S	0.25	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-010A	584-137-0.3	0.37	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-011A	584-138-S	0.25	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-013A	584-139-S	ND	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-015A	584-140-S	0.36	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-016A	584-140-0.3	0.53	mg/L	11311	0.2	1	10/30/2002	11/15/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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Matrix: Soil
Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-017A	584-141-S	ND	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-018A	584-141-0.3	ND	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-025A	584-230-S	0.30	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-026A	584-230-0.3	ND	mg/L	11311	0.2	1	10/30/2002	11/15/2002
059569-027A	584-231-S	0.38	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-030A	584-232-0.3	ND	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-041A	584-238-S	ND	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-042A	584-238-0.3	0.27	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-043A	584-239-S	ND	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-044A	584-239-0.3	ND	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-047A	584-241-S	ND	mg/L	11312	0.2	1	10/30/2002	11/15/2002

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interfere
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Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-051A	584-243-S	ND	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-055A	584-245-S	ND	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-056A	584-245-0.3	ND	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-057A	584-246-S	0.52	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-061A	584-248-S	0.31	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-062A	584-248-0.3	ND	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-063A	584-249-S	ND	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-067A	584-251-S	ND	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-069A	584-252-S	ND	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-071A	584-253-S	ND	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-073A	584-254-S	0.62	mg/L	11312	0.2	1	10/30/2002	11/15/2002

Qualifiers: ND - Not Detected at the Reporting Limit
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Date Received: 10/30/2002 1:14:
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Analyst: JT

Laboratory ID	Client Sample ID	Results	Units	QC Batch	PQL	DF	Date Collected	Date Analyzed
059569-075A	584-255-S	0.41	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-076A	584-255-0.3	0.28	mg/L	11312	0.2	1	10/30/2002	11/15/2002
059569-077A	584-256-S	0.50	mg/L	11313	0.2	1	10/30/2002	11/15/2002
059569-079A	584-257-S	ND	mg/L	11313	0.2	1	10/30/2002	11/15/2002
059569-081A	584-258-S	1.1	mg/L	11313	0.2	1	10/30/2002	11/15/2002
059569-082A	584-258-0.3	1.0	mg/L	11313	0.2	1	10/30/2002	11/15/2002

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Advanced Technology Laboratories

CLIENT: Geocon Environmental
Work Order: 059569
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: MB-11155A, ZZZZZ, Lead, MBLK, 11155, 6010_SPB, EPA 6010B, mg/Kg, 5.0, ND, 10/31/2002, 11/4/2002, ICP5_021104E, 342210.

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: MB-11155B, ZZZZZ, Lead, MBLK, 11155, 6010_SPB, EPA 6010B, mg/Kg, 5.0, ND, 10/31/2002, 11/4/2002, ICP5_021104E, 342211.

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: MB-11156A, ZZZZZ, Lead, MBLK, 11156, 6010_SPB, EPA 6010B, mg/Kg, 5.0, ND, 10/31/2002, 11/4/2002, ICP5_021104F, 342238.

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: MB-11156B, ZZZZZ, Lead, MBLK, 11156, 6010_SPB, EPA 6010B, mg/Kg, 5.0, ND, 10/31/2002, 11/4/2002, ICP5_021104F, 342239.

Table with 12 columns: Sample ID, Client ID, Analyte, SampType, Batch ID, TestCode, TestNo, Units, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual. Row 1: MB-11157A, ZZZZZ, Lead, MBLK, 11157, 6010_SPB, EPA 6010B, mg/Kg, 5.0, ND, 10/31/2002, 11/4/2002, ICP5_021104G, 342266.

Qualifiers: ND - Not Detected at the Reporting Limit, J - Analyte detected below quantitation limits, R - RPD outside accepted recovery limits, S - Spike Recovery outside accepted recovery limits, B - Analyte detected in the associated Method Blank, Calculations are based on raw values, DO - Surrogate dilute out, H - Sample exceeded holding time

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CLIENT: Geocon Environmental
Work Order: 059569
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	MB-11157B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104G			
Client ID:	ZZZZZ	Batch ID:	11157	TestNo:	EPA 6010B (EPA 3050M)			Analysis Date:	11/4/2002	SeqNo:	342267			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		5.0										

Sample ID	MB-11158A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104H			
Client ID:	ZZZZZ	Batch ID:	11158	TestNo:	EPA 6010B (EPA 3050M)			Analysis Date:	11/4/2002	SeqNo:	342294			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		5.0										

Sample ID	MB-11158B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104H			
Client ID:	ZZZZZ	Batch ID:	11158	TestNo:	EPA 6010B (EPA 3050M)			Analysis Date:	11/4/2002	SeqNo:	342295			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		5.0										

Sample ID	MB-11159A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104I			
Client ID:	ZZZZZ	Batch ID:	11159	TestNo:	EPA 6010B (EPA 3050M)			Analysis Date:	11/4/2002	SeqNo:	342317			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		5.0										

Sample ID	MB-11159B	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104I			
Client ID:	ZZZZZ	Batch ID:	11159	TestNo:	EPA 6010B (EPA 3050M)			Analysis Date:	11/4/2002	SeqNo:	342318			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		5.0										

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



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ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	MB-11155A	SampType:	MBLK	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP2_021105A			
Client ID:	ZZZZZ	Batch ID:	11155	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/5/2002	SeqNo:	342408			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		ND		5.0										
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Sample ID	LCS-11155	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104E			
Client ID:	ZZZZZ	Batch ID:	11155	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/4/2002	SeqNo:	342209			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		251.1		5.0	250	0		100	80	120	0	0		
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Sample ID	LCS-11156	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104F			
Client ID:	ZZZZZ	Batch ID:	11156	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/4/2002	SeqNo:	342237			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		252.3		5.0	250	0		101	80	120	0	0		
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Sample ID	LCS-11157	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104G			
Client ID:	ZZZZZ	Batch ID:	11157	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/4/2002	SeqNo:	342265			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		258.1		5.0	250	0		103	80	120	0	0		
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Sample ID	LCS-11158	SampType:	LCS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104H			
Client ID:	ZZZZZ	Batch ID:	11158	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/4/2002	SeqNo:	342293			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Lead		256.6		5.0	250	0		103	80	120	0	0		
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



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ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	LCS-11159	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/31/2002	Run ID: ICP5_021104I					
Client ID:	ZZZZZ	Batch ID: 11159	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/4/2002	SeqNo: 342316						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	260.6	5.0	250	0	104	80	120	0	0		

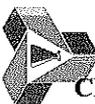
Sample ID	LCS-11155	SampType: LCS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/31/2002	Run ID: ICP2_021105A					
Client ID:	ZZZZZ	Batch ID: 11155	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/5/2002	SeqNo: 342409						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	255.5	5.0	250	0	102	80	120	0	0		

Sample ID	059569-010AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/31/2002	Run ID: ICP5_021104E					
Client ID:	584-137-0.3	Batch ID: 11155	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/4/2002	SeqNo: 342195						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	238.5	5.0	250	293.1	-21.9	47	128	0	0		S

Sample ID	059569-020AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/31/2002	Run ID: ICP5_021104E					
Client ID:	584-142-0.3	Batch ID: 11155	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/4/2002	SeqNo: 342207						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	186.6	5.0	250	40.26	58.5	47	128	0	0		

Sample ID	059569-030AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/31/2002	Run ID: ICP5_021104F					
Client ID:	584-232-0.3	Batch ID: 11156	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/4/2002	SeqNo: 342223						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	270.1	5.0	250	118.8	60.5	47	128	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



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ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	059569-040AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104F												
Client ID:	584-237-0.3	Batch ID:	11156	TestNo:	EPA 6010B (EPA 3050M)	Analysis Date:	11/4/2002	SeqNo:	342235														
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	
Lead		176		5.0		250		22.08		61.6		47		128		0		0					

Sample ID	059569-050AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104G												
Client ID:	584-242-0.3	Batch ID:	11157	TestNo:	EPA 6010B (EPA 3050M)	Analysis Date:	11/4/2002	SeqNo:	342251														
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	
Lead		212.2		5.0		250		90.14		48.8		47		128		0		0					

Sample ID	059569-060AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104G												
Client ID:	584-247-0.3	Batch ID:	11157	TestNo:	EPA 6010B (EPA 3050M)	Analysis Date:	11/4/2002	SeqNo:	342263														
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	
Lead		173.2		5.0		250		6.357		66.7		47		128		0		0					

Sample ID	059569-070AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104H												
Client ID:	584-252-0.3	Batch ID:	11158	TestNo:	EPA 6010B (EPA 3050M)	Analysis Date:	11/4/2002	SeqNo:	342279														
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	
Lead		164.8		5.0		250		64.68		40		47		128		0		0					S

Sample ID	059569-080AMS	SampType:	MS	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104H												
Client ID:	584-257-0.3	Batch ID:	11158	TestNo:	EPA 6010B (EPA 3050M)	Analysis Date:	11/4/2002	SeqNo:	342291														
Analyte		Result		PQL		SPK value		SPK Ref Val		%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit		Qual	
Lead		188.5		5.0		250		27.54		64.4		47		128		0		0					

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



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ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	059570-008AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/31/2002	Run ID: ICP5_021104I					
Client ID:	ZZZZZ	Batch ID: 11159	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/4/2002	SeqNo: 342307						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	262.7	5.0	250	95.74	66.8	47	128	0	0		

Sample ID	059570-013AMS	SampType: MS	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/31/2002	Run ID: ICP5_021104I					
Client ID:	ZZZZZ	Batch ID: 11159	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/4/2002	SeqNo: 342314						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	186.3	5.0	250	32.28	61.6	47	128	0	0		

Sample ID	059569-010ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/31/2002	Run ID: ICP5_021104E					
Client ID:	584-137-0.3	Batch ID: 11155	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/4/2002	SeqNo: 342194						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	164.8	5.0	0	0	0	0	0	293.1	56.0	30	R

Sample ID	059569-020ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/31/2002	Run ID: ICP5_021104E					
Client ID:	584-142-0.3	Batch ID: 11155	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/4/2002	SeqNo: 342206						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	15.76	5.0	0	0	0	0	0	40.26	87.5	30	R

Sample ID	059569-030ADUP	SampType: DUP	TestCode: 6010_SPB	Units: mg/Kg	Prep Date: 10/31/2002	Run ID: ICP5_021104F					
Client ID:	584-232-0.3	Batch ID: 11156	TestNo: EPA 6010B (EPA 3050M)	Analysis Date: 11/4/2002	SeqNo: 342222						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	124.4	5.0	0	0	0	0	0	118.8	4.63	30	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



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ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	059569-040ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104F			
Client ID:	584-237-0.3	Batch ID:	11156	TestNo:	EPA 6010B (EPA 3050M)			Analysis Date:	11/4/2002	SeqNo:	342234			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		16.9		5.0	0	0		0	0	0	22.08	26.6	30	

Sample ID	059569-050ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104G			
Client ID:	584-242-0.3	Batch ID:	11157	TestNo:	EPA 6010B (EPA 3050M)			Analysis Date:	11/4/2002	SeqNo:	342250			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		65.57		5.0	0	0		0	0	0	90.14	31.6	30	R

Sample ID	059569-060ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104G			
Client ID:	584-247-0.3	Batch ID:	11157	TestNo:	EPA 6010B (EPA 3050M)			Analysis Date:	11/4/2002	SeqNo:	342262			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		7.165		5.0	0	0		0	0	0	6.357	12.0	30	

Sample ID	059569-070ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104H			
Client ID:	584-252-0.3	Batch ID:	11158	TestNo:	EPA 6010B (EPA 3050M)			Analysis Date:	11/4/2002	SeqNo:	342278			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		57.72		5.0	0	0		0	0	0	64.68	11.4	30	

Sample ID	059569-080ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104H			
Client ID:	584-257-0.3	Batch ID:	11158	TestNo:	EPA 6010B (EPA 3050M)			Analysis Date:	11/4/2002	SeqNo:	342290			
Analyte		Result		PQL	SPK value	SPK Ref Val		%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		63.93		5.0	0	0		0	0	0	27.54	79.6	30	R

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



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ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_SPB

Sample ID	059570-008ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104I		
Client ID:	ZZZZZ	Batch ID:	11159	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/4/2002	SeqNo:	342306		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		90.96		5.0	0	0	0	0	0	95.74	5.12	30	

Sample ID	059570-013ADUP	SampType:	DUP	TestCode:	6010_SPB	Units:	mg/Kg	Prep Date:	10/31/2002	Run ID:	ICP5_021104I		
Client ID:	ZZZZZ	Batch ID:	11159	TestNo:	EPA 6010B	(EPA 3050M)		Analysis Date:	11/4/2002	SeqNo:	342313		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		26.89		5.0	0	0	0	0	0	32.28	18.2	30	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits **Calculations are based on raw values**



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ANALYTICAL QC SUMMARY REPORT

TestCode: 6010_WPB

Sample ID	MB-11154	SampType:	MBLK	TestCode:	6010_WPB	Units:	mg/L	Prep Date:	10/30/2002	Run ID:	ICP5_021104D		
Client ID:	ZZZZZ	Batch ID:	11154	TestNo:	EPA 6010B (EPA 3010A)	Analysis Date:	11/4/2002	SeqNo:	342056				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.0050									

Sample ID	LCS-11154	SampType:	LCS	TestCode:	6010_WPB	Units:	mg/L	Prep Date:	10/30/2002	Run ID:	ICP5_021104D		
Client ID:	ZZZZZ	Batch ID:	11154	TestNo:	EPA 6010B (EPA 3010A)	Analysis Date:	11/4/2002	SeqNo:	342055				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		0.9732		0.0050	1	0	97.3	80	120	0		0	

Sample ID	059570-014AMS	SampType:	MS	TestCode:	6010_WPB	Units:	mg/L	Prep Date:	10/30/2002	Run ID:	ICP5_021104D		
Client ID:	ZZZZZ	Batch ID:	11154	TestNo:	EPA 6010B (EPA 3010A)	Analysis Date:	11/4/2002	SeqNo:	342053				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		2.643		0.0050	2.5	0	106	66	118	0		0	

Sample ID	059570-014ADUP	SampType:	DUP	TestCode:	6010_WPB	Units:	mg/L	Prep Date:	10/30/2002	Run ID:	ICP5_021104D		
Client ID:	ZZZZZ	Batch ID:	11154	TestNo:	EPA 6010B (EPA 3010A)	Analysis Date:	11/4/2002	SeqNo:	342052				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.0050	0	0	0	0	0	0		0	30

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



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CLIENT: Geocon Environmental
Work Order: 059569
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 9045_S

Sample ID	059569-019ADUP	SampType:	DUP	TestCode:	9045_S	Units:	pH Units	Prep Date:	11/4/2002	Run ID:	WETCHEM_021104A	
Client ID:	584-142-S	Batch ID:	R22306	TestNo:	EPA 9045C	Analysis Date:	11/4/2002	SeqNo:	341983			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
pH	7.51	0.10	0	0	0	0	0	7.49	0.267	20		

Sample ID	059569-054ADUP	SampType:	DUP	TestCode:	9045_S	Units:	pH Units	Prep Date:	11/4/2002	Run ID:	WETCHEM_021104B	
Client ID:	584-244-0.3	Batch ID:	R22307	TestNo:	EPA 9045C	Analysis Date:	11/4/2002	SeqNo:	341996			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
pH	6.97	0.10	0	0	0	0	0	7.08	1.57	20		

Sample ID	059570-005ADUP	SampType:	DUP	TestCode:	9045_S	Units:	pH Units	Prep Date:	11/4/2002	Run ID:	WETCHEM_021104C	
Client ID:	ZZZZZ	Batch ID:	R22308	TestNo:	EPA 9045C	Analysis Date:	11/4/2002	SeqNo:	342009			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
pH	7.04	0.10	0	0	0	0	0	7.07	0.425	20		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



CLIENT: Geocon Environmental
Work Order: 059569
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Table with 12 columns: Sample ID, SampType, TestCode, Units, Prep Date, Run ID, Client ID, Batch ID, TestNo, Analysis Date, SeqNo, Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual

Table with 12 columns: Lead, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual

Table with 12 columns: Sample ID, SampType, TestCode, Units, Prep Date, Run ID, Client ID, Batch ID, TestNo, Analysis Date, SeqNo, Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual

Table with 12 columns: Lead, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual

Table with 12 columns: Sample ID, SampType, TestCode, Units, Prep Date, Run ID, Client ID, Batch ID, TestNo, Analysis Date, SeqNo, Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual

Table with 12 columns: Lead, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual

Table with 12 columns: Sample ID, SampType, TestCode, Units, Prep Date, Run ID, Client ID, Batch ID, TestNo, Analysis Date, SeqNo, Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual

Table with 12 columns: Lead, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual

Table with 12 columns: Sample ID, SampType, TestCode, Units, Prep Date, Run ID, Client ID, Batch ID, TestNo, Analysis Date, SeqNo, Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual

Table with 12 columns: Lead, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual

Qualifiers: ND - Not Detected at the Reporting Limit, S - Spike Recovery outside accepted recovery limits, DO- Surrogate dilute out, J - Analyte detected below quantitation limits, B - Analyte detected in the associated Method Blank, H - Sample exceeded holding time, R - RPD outside accepted recovery limits, Calculations are based on raw values



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Work Order: 059569
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID	MB-11206B	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108F		
Client ID:	ZZZZZ	Batch ID:	11206	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344256				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.20									

Sample ID	MB-11207	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108G		
Client ID:	ZZZZZ	Batch ID:	11207	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344271				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.20									

Sample ID	MB-11207A	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108G		
Client ID:	ZZZZZ	Batch ID:	11207	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344272				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.20									

Sample ID	MB-11207B	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108G		
Client ID:	ZZZZZ	Batch ID:	11207	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344285				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.20									

Sample ID	MB-11258A	SampType:	MBLK	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021111A		
Client ID:	ZZZZZ	Batch ID:	11258	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/11/2002	SeqNo:	344659				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.20									

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits Calculations are based on raw values



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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID	LCS-11205	SampType:	LCS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108E		
Client ID:	ZZZZZ	Batch ID:	11205	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344241				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.069		0.20	5	0	101	80	120	0		0	

Sample ID	LCS-11206	SampType:	LCS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108F		
Client ID:	ZZZZZ	Batch ID:	11206	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344270				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		4.862		0.20	5	0	97.2	80	120	0		0	

Sample ID	LCS-11207	SampType:	LCS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108G		
Client ID:	ZZZZZ	Batch ID:	11207	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344299				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		4.703		0.20	5	0	94.1	80	120	0		0	

Sample ID	059569-008AMS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108E		
Client ID:	584-136-0.3	Batch ID:	11205	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344226				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		72.83		2.0	50	21.84	102	80	120	0		0	

Sample ID	059569-025AMS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108E		
Client ID:	584-230-S	Batch ID:	11205	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344239				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		83.7		2.0	50	33.51	100	80	120	0		0	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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Work Order: 059569
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID	059569-041AMS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108F		
Client ID:	584-238-S	Batch ID:	11206	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344255				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		17.49		0.40	10	8.846	86.4	80	120	0		0	

Sample ID	059569-056AMS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108F		
Client ID:	584-245-0.3	Batch ID:	11206	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344268				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		31.42		0.80	20	12.01	97.1	80	120	0		0	

Sample ID	059569-071AMS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108G		
Client ID:	584-253-S	Batch ID:	11207	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344284				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		33.57		0.80	20	16.26	86.5	80	120	0		0	

Sample ID	059570-004AMS	SampType:	MS	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021108G		
Client ID:	ZZZZZ	Batch ID:	11207	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344297				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		7.1		0.20	5	2.886	84.3	80	120	0		0	

Sample ID	059569-008ADUP	SampType:	DUP	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108E		
Client ID:	584-136-0.3	Batch ID:	11205	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344225				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		21.56		0.80	0	0	0	0	0	21.84	1.32	30	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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Work Order: 059569
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID	059569-025ADUP	SampType:	DUP	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108E
Client ID:	584-230-S	Batch ID:	11205	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344238		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	34.24	0.80	0	0	0	0	0	33.51	2.14	30	

Sample ID	059569-041ADUP	SampType:	DUP	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108F
Client ID:	584-238-S	Batch ID:	11206	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344254		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	8.877	0.20	0	0	0	0	0	8.846	0.341	30	

Sample ID	059569-056ADUP	SampType:	DUP	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108F
Client ID:	584-245-0.3	Batch ID:	11206	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344267		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	11.94	0.40	0	0	0	0	0	12.01	0.615	30	

Sample ID	059569-071ADUP	SampType:	DUP	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108G
Client ID:	584-253-S	Batch ID:	11207	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344283		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	17.21	0.40	0	0	0	0	0	16.26	5.67	30	

Sample ID	059570-004ADUP	SampType:	DUP	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/5/2002	Run ID:	AA2_021108G
Client ID:	ZZZZZ	Batch ID:	11207	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/8/2002	SeqNo:	344296		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	3.423	0.20	0	0	0	0	0	2.886	17.0	30	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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Work Order: 059569
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID	059569-077ADUP	SampType:	DUP	TestCode:	7420_ST	Units:	mg/L	Prep Date:	11/8/2002	Run ID:	AA2_021111A		
Client ID:	584-256-S	Batch ID:	11258	TestNo:	WET/ EPA 74 (WET)	Analysis Date:	11/11/2002	SeqNo:	344664				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		55.08		2.0	0	0	0	0	0	50.82	8.04	30	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
 J - Analyte detected below quantitation limits B - Analyte detected in the associated Method Blank H - Sample exceeded holding time
 R - RPD outside accepted recovery limits **Calculations are based on raw values**



CLIENT: Geocon Environmental
Work Order: 059569
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Table with 12 columns: Sample ID, SampType, TestCode, Units, Prep Date, Run ID, Client ID, Batch ID, TestNo, Analysis Date, SeqNo, Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual.

Table with 12 columns: Lead, ND, 0.20

Table with 12 columns: Sample ID MB-11212-TCLP, SampType: MBLK, TestCode: 7420_TC, Units: mg/L, Prep Date: 11/6/2002, Run ID: AA2_021107D, Client ID: ZZZZZ, Batch ID: 11226, TestNo: EPA 1311/ 74 (EPA 3010A), Analysis Date: 11/7/2002, SeqNo: 343353, Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual.

Table with 12 columns: Lead, ND, 0.20

Table with 12 columns: Sample ID MB-11227, SampType: MBLK, TestCode: 7420_TC, Units: mg/L, Prep Date: 11/6/2002, Run ID: AA2_021107E, Client ID: ZZZZZ, Batch ID: 11227, TestNo: EPA 1311/ 74 (EPA 3010A), Analysis Date: 11/7/2002, SeqNo: 343377, Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual.

Table with 12 columns: Lead, ND, 0.20

Table with 12 columns: Sample ID MB-11213-TCLP, SampType: MBLK, TestCode: 7420_TC, Units: mg/L, Prep Date: 11/6/2002, Run ID: AA2_021107E, Client ID: ZZZZZ, Batch ID: 11227, TestNo: EPA 1311/ 74 (EPA 3010A), Analysis Date: 11/7/2002, SeqNo: 343378, Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual.

Table with 12 columns: Lead, ND, 0.20

Table with 12 columns: Sample ID MB-11228, SampType: MBLK, TestCode: 7420_TC, Units: mg/L, Prep Date: 11/6/2002, Run ID: AA2_021107F, Client ID: ZZZZZ, Batch ID: 11228, TestNo: EPA 1311/ 74 (EPA 3010A), Analysis Date: 11/7/2002, SeqNo: 343393, Analyte, Result, PQL, SPK value, SPK Ref Val, %REC, LowLimit, HighLimit, RPD Ref Val, %RPD, RPDLimit, Qual.

Table with 12 columns: Lead, ND, 0.20

Qualifiers: ND - Not Detected at the Reporting Limit, S - Spike Recovery outside accepted recovery limits, DO- Surrogate dilute out, J - Analyte detected below quantitation limits, B - Analyte detected in the associated Method Blank, H - Sample exceeded holding time, R - RPD outside accepted recovery limits, Calculations are based on raw values



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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID	MB-11214-TCLP	SampType:	MBLK	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107F		
Client ID:	ZZZZZ	Batch ID:	11228	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343394				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.20									

Sample ID	LCS-11226	SampType:	LCS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107D		
Client ID:	ZZZZZ	Batch ID:	11226	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343376				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		0.9805		0.20	1	0	98.1	80	120	0	0		

Sample ID	LCS-11227	SampType:	LCS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107E		
Client ID:	ZZZZZ	Batch ID:	11227	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343392				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		0.9296		0.20	1	0	93	80	120	0	0		

Sample ID	LCS-11228	SampType:	LCS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107F		
Client ID:	ZZZZZ	Batch ID:	11228	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343406				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		1.094		0.20	1	0	109	80	120	0	0		

Sample ID	059569-027AMS	SampType:	MS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107D		
Client ID:	584-231-S	Batch ID:	11226	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343374				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		3.39		0.20	2.5	0.6581	109	80	120	0	0		

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
Calculations are based on raw values

DO- Surrogate dilute out
 H - Sample exceeded holding time



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CLIENT: Geocon Environmental
Work Order: 059569
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID	059569-062AMS	SampType:	MS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107E		
Client ID:	584-248-0.3	Batch ID:	11227	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343390				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		3.096		0.20	2.5	0.6744	96.8	80	120	0		0	

Sample ID	059570-009AMS	SampType:	MS	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107F		
Client ID:	ZZZZZ	Batch ID:	11228	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343404				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		2.996		0.20	2.5	0.2001	112	80	120	0		0	

Sample ID	059569-027ADUP	SampType:	DUP	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107D		
Client ID:	584-231-S	Batch ID:	11226	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343373				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		0.7234		0.20	0	0	0	0	0	0	0.6581	9.45	30

Sample ID	059569-062ADUP	SampType:	DUP	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107E		
Client ID:	584-248-0.3	Batch ID:	11227	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343389				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		0.3204		0.20	0	0	0	0	0	0.6744		71.2	30 R

Sample ID	059570-009ADUP	SampType:	DUP	TestCode:	7420_TC	Units:	mg/L	Prep Date:	11/6/2002	Run ID:	AA2_021107F		
Client ID:	ZZZZZ	Batch ID:	11228	TestNo:	EPA 1311/ 74 (EPA 3010A)	Analysis Date:	11/7/2002	SeqNo:	343403				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		0.2069		0.20	0	0	0	0	0	0.2001		3.38	30

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 R - RPD outside accepted recovery limits Calculations are based on raw values



CLIENT: Geocon Environmental
Work Order: 059569
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID	MB-11311	SampType: MBLK	TestCode: 7420_DI	Units: mg/L	Prep Date: 11/15/2002	Run ID: AA2_021115I
Client ID:	ZZZZZ	Batch ID: 11311	TestNo: WET DI/ EPA (WET)	Analysis Date: 11/15/2002	SeqNo: 347925	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead	ND	0.20				
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Sample ID	MB-11311A	SampType: MBLK	TestCode: 7420_DI	Units: mg/L	Prep Date: 11/11/2002	Run ID: AA2_021115I
Client ID:	ZZZZZ	Batch ID: 11311	TestNo: WET DI/ EPA (WET)	Analysis Date: 11/15/2002	SeqNo: 347926	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead	ND	0.20				
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Sample ID	MB-11311B	SampType: MBLK	TestCode: 7420_DI	Units: mg/L	Prep Date: 11/11/2002	Run ID: AA2_021115I
Client ID:	ZZZZZ	Batch ID: 11311	TestNo: WET DI/ EPA (WET)	Analysis Date: 11/15/2002	SeqNo: 347939	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead	ND	0.20				
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Sample ID	MB-11312	SampType: MBLK	TestCode: 7420_DI	Units: mg/L	Prep Date: 11/15/2002	Run ID: AA2_021115J
Client ID:	ZZZZZ	Batch ID: 11312	TestNo: WET DI/ EPA (WET)	Analysis Date: 11/15/2002	SeqNo: 347954	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead	ND	0.20				
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Sample ID	MB-11312A	SampType: MBLK	TestCode: 7420_DI	Units: mg/L	Prep Date: 11/11/2002	Run ID: AA2_021115J
Client ID:	ZZZZZ	Batch ID: 11312	TestNo: WET DI/ EPA (WET)	Analysis Date: 11/15/2002	SeqNo: 347955	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual

Lead	ND	0.20				
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits **Calculations are based on raw values**



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Work Order: 059569
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID	MB-11312B	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115J		
Client ID:	ZZZZZ	Batch ID:	11312	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347968				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.20									

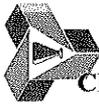
Sample ID	MB-11313	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115K		
Client ID:	ZZZZZ	Batch ID:	11313	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347983				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.20									

Sample ID	MB-11313A	SampType:	MBLK	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115K		
Client ID:	ZZZZZ	Batch ID:	11313	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347984				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		ND		0.20									

Sample ID	LCS-11311	SampType:	LCS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115I		
Client ID:	ZZZZZ	Batch ID:	11311	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347953				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.148		0.20	5	0	103	80	120	0	0		

Sample ID	LCS-11312	SampType:	LCS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115J		
Client ID:	ZZZZZ	Batch ID:	11312	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347982				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.055		0.20	5	0	101	80	120	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID	LCS-11313	SampType:	LCS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115K		
Client ID:	ZZZZZ	Batch ID:	11313	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347994				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.039		0.20	5	0	101	80	120	0		0	

Sample ID	059569-008AMS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115I		
Client ID:	584-136-0.3	Batch ID:	11311	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347938				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.863		0.20	5	0.6513	104	80	120	0		0	

Sample ID	059569-026AMS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115I		
Client ID:	584-230-0.3	Batch ID:	11311	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347951				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.151		0.20	5	0.08245	101	80	120	0		0	

Sample ID	059569-056AMS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115J		
Client ID:	584-245-0.3	Batch ID:	11312	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347967				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.093		0.20	5	0.09173	100	80	120	0		0	

Sample ID	059569-076AMS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115J		
Client ID:	584-255-0.3	Batch ID:	11312	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347980				
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead		5.336		0.20	5	0	107	80	120	0		0	

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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 R - RPD outside accepted recovery limits Calculations are based on raw values



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Work Order: 059569
Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_DI

Sample ID	059570-009AMS	SampType:	MS	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/15/2002	Run ID:	AA2_021115K
Client ID:	ZZZZZ	Batch ID:	11313	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347992		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.349	0.20	5	0.2045	103	80	120	0	0		

Sample ID	059569-008ADUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115I
Client ID:	584-136-0.3	Batch ID:	11311	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347937		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.6513	0.20	0	0	0	0	0	0.6513	0.00915	30	

Sample ID	059569-026ADUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115I
Client ID:	584-230-0.3	Batch ID:	11311	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347950		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08247	0.20	0	0	0	0	0	0.08245	0	30	J

Sample ID	059569-056ADUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115J
Client ID:	584-245-0.3	Batch ID:	11312	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347966		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.08807	0.20	0	0	0	0	0	0.09173	0	30	J

Sample ID	059569-076ADUP	SampType:	DUP	TestCode:	7420_DI	Units:	mg/L	Prep Date:	11/11/2002	Run ID:	AA2_021115J
Client ID:	584-255-0.3	Batch ID:	11312	TestNo:	WET DI/ EPA (WET)	Analysis Date:	11/15/2002	SeqNo:	347979		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.2542	0.20	0	0	0	0	0	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits DO- Surrogate dilute out
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Project: Route 405-EA218301, 09100-06-57

ANALYTICAL QC SUMMARY REPORT

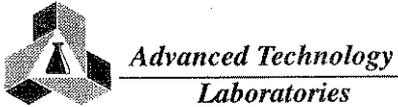
TestCode: 7420_DI

Sample ID: 059570-009ADUP	SampType: DUP	TestCode: 7420_DI	Units: mg/L	Prep Date: 11/11/2002	Run ID: AA2_021115K						
Client ID: ZZZZZ	Batch ID: 11313	TestNo: WET DI/ EPA (WET)	Analysis Date: 11/15/2002	SeqNo: 347991							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.1722	0.20	0	0	0	0	0	0.2045	0	30	J

Qualifiers:

ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	DO- Surrogate dilute out
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R - RPD outside accepted recovery limits	Calculations are based on raw values	

CHAIN OF CUSTODY RECORD



Advanced Technology Laboratories
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 Signal Hill, CA 90807
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FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Walk-in <input checked="" type="checkbox"/> Courier <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input type="checkbox"/>	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
Logged By: _____ Date: _____ Time: _____		

Client: GEOCON ENVIRONMENTAL - SAN DIEGO	Address: 6970 Flanders Drive	TEL: (858) 558-6100
Attn: Chris King	City: San Diego State: CA Zip Code: 92121	FAX: (858) 558-8437

Project Name: Pte 405 EA 218301	Project #: 9100-06-57	Sampler: GCA/MJB (Signature)
Relinquished by: (Signature and Printed Name) Mary Burns	Date: 10/30/02	Time: _____
Relinquished by: (Signature and Printed Name) _____	Date: _____	Time: _____
Relinquished by: (Signature and Printed Name) _____	Date: _____	Time: _____

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: CSG <u>10/30/02</u> Print Name Date CSG Signature	Send Report To: Attn: _____ Co: Client Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: Client Address _____ City _____ State _____ Zip _____	Special Instructions/Comments: See Page 1
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Unless otherwise requested, all samples will be disposed 45 days after receipt.	Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other <input type="checkbox"/> Return To: _____ * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.	Circle or Add Analysis(es) Requested 8091 / 8092 (Pesticides/PCB/OC) 8280 (Volatiles/GCMS) 625 / 8270 (BVA-GCMS) Metals: Total (CAC-8010 / 7000) 8015M TPH/G/TEXT (COMBINATION) 8015M TPH/D (Diesel/GC) Total 10/30/02	CIRCLE APPROPRIATE MATRIX SOLID • SOIL • SLUDGE OIL • SOLVENT • LIQUID WATER • WASTEWATER DRINKING WATER AIR WIFE • FILTER OTHER	Container(s) TAT # Type	PRESERVATION RTNE <input type="checkbox"/> RWOCB <input type="checkbox"/> WIP <input type="checkbox"/> NAVY <input type="checkbox"/> CT <input checked="" type="checkbox"/> OTHER _____	QA/QC REMARKS	
LAB USE ONLY: Batch #: Lab No.	Sample Description Sample I.D. Date Time						
-85	C207	10/30	9:39	X	5day	1P2	
-86	C208		10:17				
-87	C209		10:45				
-88	C210		11:20				
-89	C211		11:58				

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₈
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal		

Attachment D - Statistical Grouping for Data

Samples to be divided into groups for statistical analysis as follow:

1. LA 405 (KP 64.5/74.4) EA 218301 — 9.9 Km, each direction, 19.8 Km total
 19.9 Km / 1.6 Km = 12.38 extra Km

Two samples to be taken from each borehole, at surface and at 0.30m depth.

mob/demob = 1st 1.6 Km

extra Km = 11.4 Km extra

North bound

Group	Location	Number of Boreholes	Number of Samples	Number of Samples for pH test
1	Burbank Blvd, Off and On ramps West shoulders.	4	8	4
2	Victory Blvd. intersection, SE quadrant. Victory Blvd. Off and On ramps.	1 3	2 6	4
3	Sherman Way off ramp, gore area. Sherman Way intersection, SE and NE quadrants. Sherman Way Off and On ramp, Triangle area East of La 405.	1 2 4	2 4 8	4
4	Strip along with Firwent Ave, from Wyandotte St to Saticoy ST. 580 m length. Samples to be taken every 60 meter.	9	18	4
5	Roscoe Blvd. Off and On ramps West shoulders.	4	8	4
6	Nordhoff Street, Off and On ramps West shoulders.	4	8	4
7	Devonshire Off and On ramps.	4	8	4

584-133 to
 4 584-136
 4 584-137 to
 584-140
 4 584-141 to
 584-144

South bound

8	Devonshire Street intersection, NW and SW quadrants. Devonshire Street On ramp. East shoulder.	3 2	6 4	4
9	Nordhoff Street, Off and On ramps East shoulders.	4	8	4
10	Roscoe Blvd. Off and On ramps East shoulders.	4	8	4
11	Sherman Way Off and On ramps. Triangle area West of La 405 Sherman Way intersection, NW and SW quadrants. Sherman Way On ramp, gore area.	4 2 1	8 4 2	4

584-201
 2 202-203
 204
 205
 584-232-233
 1 230

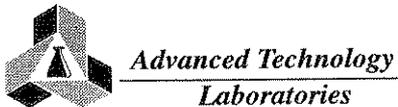
NE
 SE

10/15/02

Group	Location	Number of Boreholes	Number of Samples	Number of Samples for pH test
12	Strip along with Haskell Ave, from Hart Street to Vanowen St. 400 m length. Samples to be taken every 60 meter.	584 233-238 6	12	4
13	Strip along with Haskell Ave, 360 m length. from Vanowen south. Hawes Street Off ramp.	584-239-244 6 584 245-246 2	12 4	4
14	Strip along with Haskell Ave, 260 m length. From Hawes St. to Victory Blvd. Samples to be taken every 60 meter. Victory Blvd. intersection, NW and SW quadrants. Victory Blvd On ramp.	584 247-250 4 584 251-252 4 584 253-254 4	8 4 4	4
15	Burbank Blvd, Off and On ramps	584 255-4 258	8	4
Intersects groups				
✓16	Vanowen Street intersection, One at each quadrant.	4	8	4
✓17	Saticoy Street intersection, One at each quadrant	4	8	4
18	Parthenia Street intersection, One at each quadrant.	4	8	4
✓19	Plumer Street intersection, One at each quadrant.	4	8	4
✓20	Lasen Street intersection, One at each quadrant.	584-206 -207 -208 -209 4	8	4
Total		102	204	80

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 (310)
 600-
 6741

CHAIN OF CUSTODY RECORD



3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Walk-in <input checked="" type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input type="checkbox"/>	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Logged By: <u>CR</u>	Date: <u>10/30/02</u> Time: _____	

Client: GEOCON ENVIRONMENTAL - SAN DIEGO	Address: 6970 Flanders Drive	TEL: (858) 558-6100
Attn: <u>CHRIS KING</u>	City: San Diego State: CA Zip Code: 92121	FAX: (858) 558-8437

Project Name: <u>PONTIACUS EA 218301</u>	Project #: <u>09100-06-57</u>	Sampler: <u>CSK/SPF</u> (Printed Name) _____ (Signature) _____
Relinquished by: <u>[Signature]</u> (Signature and Printed Name)	Date: <u>10/30/02</u> Time: _____	Received by: <u>[Signature]</u> (Signature and Printed Name) _____ Date: <u>10/30/02</u> Time: <u>1:14</u>
Relinquished by: _____ (Signature and Printed Name)	Date: _____ Time: _____	Received by: _____ (Signature and Printed Name) _____ Date: _____ Time: _____
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: <u>CSK</u> <u>10/30/02</u> Print Name _____ Date _____ Signature _____	Send Report To: Attn: _____ Co: <u>[Signature]</u> Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: <u>Client</u> Address _____ City _____ State _____ Zip _____	Special Instructions/Comments: <u>TOTAL LEAD 750 and < 1,000 mg/kg for WET-CHEM</u> <u>WET-CHEM > 5mg/L for WET DI. 10% or a</u> <u>minimum of 4 samples from each group (see Attached)</u> <u>for soil pH. 25% from each group for</u> <u>TCLP, use samples with highest total lead</u> <u>concentration</u>
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Unless otherwise requested, all samples will be disposed 45 days after receipt.	Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other _____ <input type="checkbox"/> Return To: _____ * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.	Circle or Add Analysis(es) Requested <u>8081 / 8092 (Pesticides/PCR-CC)</u> <u>8260 (Nitrates-GC/MS)</u> <u>8251 / 8270 (BNA-GC/MS)</u> <u>Metals Total (CAC-GC/MS)</u> <u>8015M TPH/G/BTEX (COMBINATION)</u> <u>8015M TPH/D (Diesel/GC)</u> <u>TBA / Lead EPA 8210</u>
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ITEM	LAB USE ONLY:		Sample Description				CIRCLE APPROPRIATE MATRIX										PRESERVATION	REMARKS								
	Batch #:	Lab No.	Sample I.D.	Date	Time	8081 / 8092 (Pesticides/PCR-CC)	8260 (Nitrates-GC/MS)	8251 / 8270 (BNA-GC/MS)	Metals Total (CAC-GC/MS)	8015M TPH/G/BTEX (COMBINATION)	8015M TPH/D (Diesel/GC)	TBA / Lead EPA 8210	SOLID (SOIL) • SLUDGE	OIL • SOLVENT • LIQUID	WATER • WASTEWATER	DRINKING WATER			AIR	WIPE • FILTER	OTHER	TAT	#	Type		
		059909-	1	584-133-S	10/30	902																				
			2	584-133-0.3		908																				
			3	584-134-S		903																				
			4	584-134-0.3		910																				
			5	584-135-S		911																				
			6	584-135-0.3		914																				
			7	584-136-S		918																				
			8	584-136-0.3		920																				
			9	584-137-S		9/28																				
			10	584-137-0.3		9/23																				

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= Overnight ≤ 24 hr	B= Emergency Next workday	C= Critical 2 Workdays	D= Urgent 3 Workdays	E= Routine 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₈
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD



**Advanced Technology
Laboratories**

3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Method of Transport: Walk-in Courier UPS FED. EXP. ATL

Sample Condition Upon Receipt:

1. CHILLED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>	4. SEALED	Y <input type="checkbox"/> N <input checked="" type="checkbox"/>
2. HEADSPACE (VOA)	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	5. # OF SPLS MATCH COC	Y <input type="checkbox"/> N <input type="checkbox"/>
3. CONTAINER INTACT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	6. PRESERVED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>

Logged By: _____ Date: _____ Time: _____

Client: **GEOCON ENVIRONMENTAL - SAN DIEGO** Address: 6970 Flanders Drive TEL: (858) 558-6100

Attn: **Chris King** City: San Diego State: CA Zip Code: 92121 FAX: (858) 558-8437

Project Name: **Route 405 EA 218301** Project #: **09100-06-57** Sampler: **CSK/JPF** (Printed Name) _____ (Signature) _____

Relinquished by: (Signature and Printed Name) **C. King** Date: **10/30/02** Time: _____ Received by: (Signature and Printed Name) _____ Date: **10/30/02** Time: **1:15**

Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

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: **CSK** Date: **10/30/02** Signature: _____

Send Report To: Attn: **Client** Co: **Client** Address: _____ City: _____ State: _____ Zip: _____

Bill To: Attn: _____ Co: **Client** Address: _____ City: _____ State: _____ Zip: _____

Special Instructions/Comments: **Total Lead > 50 EC 1000 mg/kg run wet-citric wet citric 75 mg run wet PI, 10% or a minimum of 4 samples from each group run soil ph. 25% from each group run TLP USE samples w/ highest total lead concentration**

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal: Laboratory Standard Other Return To: _____

* \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: **Total Lead - EPA 8010**

CIRCLE APPROPRIATE MATRIX: **SOLID (SOIL) SLUDGE**, **OIL • SOLVENT • LIQUID**, **WATER • WASTEWATER**, **DRINKING WATER**, **AIR**, **WIPE • FILTER**, **OTHER**

QA/QC: RTNE RWQCB WIP NAVY CT OTHER _____

PRELIMINARY PRESERVATION: _____

ITEM	LAB USE ONLY:		Sample Description				Analysis(es) Requested	Matrix	Container(s)	TAT	#	Type	REMARKS
	Batch #:	Lab No.	Sample I.D.	Date	Time								
		-11	584-138-S	10/30	936					5 DAY	1	JG	
		-12	584-138-0.3		940								
		-13	584-139-S		942								
		-14	584-139-0.3		948								
		-15	584-140-S		946								
		-16	584-140-0.3		952								
		-17	584-141-S		957								
		-18	584-141-0.3		1005								
		-19	584-142-S		1004								
		-20	584-142-0.3		1008								

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Preservatives: H=Hcl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₈

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

CHAIN OF CUSTODY RECORD



**Advanced Technology
Laboratories**

3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Walk-in <input checked="" type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input type="checkbox"/>	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input type="checkbox"/> N <input type="checkbox"/>
Logged By: _____ Date: _____ Time: _____		

Client: **GEOCON ENVIRONMENTAL - SAN DIEGO**

Address: 6970 Flanders Drive
City San Diego State CA Zip Code 92121
TEL: (858) 558-6100
FAX: (858) 558-8437

Attn: *Chris King*

Project Name: <i>Route 405 EA 218301</i>	Project #: <i>091100-06-57</i>	Sampler: <i>CSC/AF</i>	(Signature) _____
Relinquished by: (Signature and Printed Name) <i>C-King</i>	Date: <i>10/30/02</i>	Time: _____	Received by: (Signature and Printed Name) <i>AGULLA</i>
Date: _____	Time: _____	Received by: (Signature and Printed Name)	Date: _____
Date: _____	Time: _____	Received by: (Signature and Printed Name)	Date: _____

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <i>CSC</i> <i>10/30/02</i> Print Name Date <i>[Signature]</i> Signature	Send Report To: Attn: _____ Co: <i>Chart</i> Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: <i>Chart</i> Address _____ City _____ State _____ Zip _____
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Special Instructions/Comments:
See page 1

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
 Laboratory Standard
 Other _____
 Return To: _____
 * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested 8091 / 8082 (Pesticides/PCB-GC) 8200 (Volatiles-GC/MS) 625 / 8270 (BNA-GC/MS) Metals-Total (CAC-8010 / 7000) 8015M TPH/GIBTEX (COMBINA/TOW) 8015M TPH/D (Diesel-GC) <i>1001/10010</i>	CIRCLE APPROPRIATE MATRIX		Container(s) # Type	PRESERVATION RTNE <input type="checkbox"/> RWQCB <input type="checkbox"/> WIP <input type="checkbox"/> NAVY <input type="checkbox"/> CT <input checked="" type="checkbox"/> OTHER _____
	SOLID <input checked="" type="checkbox"/> SOLVENT • SLUDGE WATER • WASTEWATER DRINKING WATER AIR WIPE • FILTER OTHER _____	TAT		

ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Lab No.	Sample I.D.	Date	Time	
	-21-		584-143-S	10/30	1015	
	-22		584-143-0.3		1022	
	-23		584-144-S		1013	
	-24		584-144-0.3		1025	

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Preservatives: H=Hcl N=HNO₃ S=H₂SO₄ C=4°C Z=Zn(AC)₂ O=NaOH T=Na₂S₂O₈

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

CHAIN OF CUSTODY RECORD



3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Walk-in <input checked="" type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input type="checkbox"/>	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Logged By: _____	Date: _____ Time: _____	

Client: GEOCON ENVIRONMENTAL - SAN DIEGO	Address: 6970 Flanders Drive	TEL: (858) 558-6100
Attn: <u>Chris King</u>	City: San Diego State: CA Zip Code: 92121	FAX: (858) 558-8437

Project Name: <u>Rte 405 EA 218301</u>	Project #: <u>9100-06-57</u>	Sampler: <u>NJB/GCA</u> (Printed Name) (Signature)
Relinquished by: (Signature and Printed Name) <u>[Signature]</u> <u>GCA</u>	Date: <u>10/30</u>	Time: _____
Relinquished by: (Signature and Printed Name) _____	Date: _____	Time: _____
Relinquished by: (Signature and Printed Name) _____	Date: _____	Time: _____

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <u>LSK</u> <u>10/30/02</u> Print Name Date <u>[Signature]</u> Signature	Send Report To: Attn: _____ Co: <u>Client</u> Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: <u>Client</u> Address _____ City _____ State _____ Zip _____	Special Instructions/Comments: <u>See Page 1</u>
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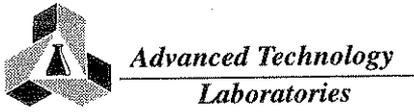
Unless otherwise requested, all samples will be disposed 45 days after receipt.	Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other _____ <input type="checkbox"/> Return To: _____ * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.
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Circle or Add Analysis(es) Requested <u>Total Lead</u> 8061 / 8062 (Pesticides PCB-GC) 8260 (Volatiles-GC/MS) 825 / 8270 (BNA-GC/MS) Metals Total (CAC-6010 / 7000) 8015M TPH/G/BTEX (COMBINATION) 8015M TPH/D (Diesel/GC)	CIRCLE APPROPRIATE MATRIX SOLID (SOIL) SLUDGE OIL • SOLVENT • LIQUID WATER • WASTEWATER DRINKING WATER AIR WIPE • FILTER OTHER	Container(s) # _____ Type _____	PRESERVATION QA/QC RTNE <input type="checkbox"/> RWQCB <input type="checkbox"/> WIP <input type="checkbox"/> NAVY <input type="checkbox"/> CT <input checked="" type="checkbox"/> OTHER _____
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ITEM	LAB USE ONLY:		Sample Description				Analysis(es) Requested	Matrix	Container(s)	PRESERVATION	REMARKS
	Batch #:	Lab No.	Sample I.D.	Date	Time	TAT					
		-35	584-235-S	10/30	9:39	X		5 day	JG		
		74	584-235-0.3		9:50						
		-37	584-236-S		9:42						
		-38	584-236-0.3		9:57						
		-39	584-237-S		10:00						
		-40	584-237-0.3		10:00						
		-41	584-238-S		9:59						
		-42	584-238-0.3		10:00						
		-43	584-239-S		10:05						
		-44	584-239-0.3		10:16						

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= Overnight ≤ 24 hr	B= Emergency Next workday	C= Critical 2 Workdays	D= Urgent 3 Workdays	E= Routine 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₈
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD



3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Walk-in <input checked="" type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input type="checkbox"/>	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Logged By: _____ Date: _____ Time: _____		

Client: GEOCON ENVIRONMENTAL - SAN DIEGO	Address: 6970 Flanders Drive	TEL: (858) 558-6100
Attn: <u>Chris King</u>	City: San Diego State: CA Zip Code: 92121	FAX: (858) 558-8437

Project Name: <u>Rte 405 EA 218301</u>	Project #: <u>9100-06-57</u>	Sampler: <u>GCA/MJB</u> (Printed Name)	(Signature)
Relinquished by: (Signature and Printed Name) <u>[Signature]</u>	Date: <u>10/30</u> Time: _____	Received by: (Signature and Printed Name) <u>[Signature]</u>	Date: <u>10/30</u> Time: <u>1:17</u>
Relinquished by: (Signature and Printed Name) _____	Date: _____ Time: _____	Received by: (Signature and Printed Name) _____	Date: _____ Time: _____
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: <u>CSK</u> <u>10/30/01</u> Print Name Date <u>[Signature]</u> Signature	Send Report To: Attn: _____ Co: <u>Client</u> Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: <u>Client</u> Address _____ City _____ State _____ Zip _____	Special Instructions/Comments: <u>See Page 1</u>
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Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
 Laboratory Standard
 Other _____
 Return To: _____

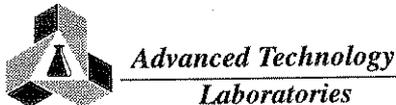
* \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested 8981 / 8982 (Pesticides/PCB-GC) 8280 (Volatiles-GC/MS) 825 / 8270 (BNA-GC/MS) Metals Total (CAC-GC/MS) 8015M TPH/G/TEXT (COMBINATION) 8015M TPH/D (Diesel-GC) <u>Trace Metals</u>	CIRCLE APPROPRIATE MATRIX SOLID (SOIL) SLUDGE OIL • SOLVENT • LIQUID WATER • WASTEWATER DRINKING WATER AIR WIPE • FILTER OTHER TAT # Type <u>3 day 1 JIG</u>	QA/QC RTNE <input type="checkbox"/> RWQCB <input type="checkbox"/> WIP <input type="checkbox"/> NAVY <input type="checkbox"/> CT <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> PRESERVATION REMARKS
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ITEM	LAB USE ONLY:		Sample Description			
	Batch #:	Lab No.	Sample I.D.	Date	Time	
		-45	584-240-S	10/30	10:18	X
		-46	584-240-0.3		10:15	
		-47	584-241-S		10:22	
		-48	584-241-0.3		10:30	
		-49	584-242-S		10:24	
		-50	584-242-0.3		10:31	
		-51	584-243-S		10:36	
		-52	584-243-0.3		10:45	
		-53	584-244-S		10:38	
		-54	584-244-0.3		10:46	

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= Overnight ≤ 24 hr	B= Emergency Next workday	C= Critical 2 Workdays	D= Urgent 3 Workdays	E= Routine 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

CHAIN OF CUSTODY RECORD



3275 Walnut Avenue
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(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____ Logged By: _____ Date: _____ Time: _____	Method of Transport Walk-in <input checked="" type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input type="checkbox"/>	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. # OF SPLS MATCH COC Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
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Client: GEOCON ENVIRONMENTAL - SAN DIEGO	Address: 6970 Flanders Drive	TEL: (858) 558-6100
Attn: <i>Chris King</i>	City: San Diego State: CA Zip Code: 92121	FAX: (858) 558-8437

Project Name: <i>Rte 405 - EA 218301</i>	Project #: <i>9100-06-57</i>	Sampler: <i>GCA/MJR</i>	Date: <i>10/30/02</i> Time: <i>1:14</i>
Relinquished by: <i>Mary Barnes</i>	Date: <i>10/30/02</i>	Received by: <i>Carleen M... [Signature]</i>	Date: <i>10/30/02</i> Time: <i>1:14</i>
Relinquished by: _____	Date: _____	Received by: _____	Date: _____ Time: _____
Relinquished by: _____	Date: _____	Received by: _____	Date: _____ Time: _____

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <i>CSK</i> <i>10/30/02</i> Print Name Date _____ Signature	Send Report To: Attn: _____ Co: <i>Client</i> Address: _____ City: _____ State: _____ Zip: _____	Bill To: Attn: _____ Co: <i>Client</i> Address: _____ City: _____ State: _____ Zip: _____	Special Instructions/Comments: <div style="font-size: 2em; text-align: center;">See Page 1</div>
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Unless otherwise requested, all samples will be disposed 45 days after receipt.	Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other <input type="checkbox"/> Return To: _____ * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.	Circle or Add Analysis(es) Requested 8061 / 8092 (Pesticides/CB-GC) 8260 (Nitrates-CC/MS) 825 / 8270 (BNA-GC/MS) Metals-Total (CAC-8010 / 7000) 8015M TPH/IBTEX (COMBINATION) 8015M TPH/D (Diesel-GC) Total Lead 6710	CIRCLE APPROPRIATE MATRIX SOLID • SOIL • SLUDGE OIL • SOLVENT • LIQUID WATER • WASTEWATER DRINKING WATER AIR WIPE • FILTER OTHER TAT # Type	PRESERVATION RTNE <input type="checkbox"/> RWQCB <input type="checkbox"/> WIP <input type="checkbox"/> NAVY <input type="checkbox"/> CT <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>	Q A / Q C REMARKS
ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description Sample I.D. Date Time			
	-55	584-245-S 10/30 11:10	X	X	5 day 1 6
	-56	584-245-0.3 11:12			
	-57	584-246-S 11:10			
	-58	584-246-0.3 11:13			
	-59	584-247-S 11:16			
	-60	584-247-0.3 11:18			
	-61	584-248-S 11:34			
	-62	584-248-0.3 11:40			
	-63	584-249-S 11:35			
	-64	584-249-0.3 11:42			

• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays	Preservatives: H=Hcl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₈
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal		

CHAIN OF CUSTODY RECORD



**Advanced Technology
Laboratories**

3275 Walnut Avenue
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____	Method of Transport Walk-in <input checked="" type="checkbox"/> Courier <input type="checkbox"/> UPS <input type="checkbox"/> FED. EXP. <input type="checkbox"/> ATL <input type="checkbox"/>	Sample Condition Upon Receipt 1. CHILLED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 4. SEALED Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 2. HEADSPACE (VOA) Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 5. # OF SPLS MATCH COC Y <input type="checkbox"/> N <input checked="" type="checkbox"/> 3. CONTAINER INTACT Y <input checked="" type="checkbox"/> N <input type="checkbox"/> 6. PRESERVED Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
Logged By: _____	Date: _____ Time: _____	

Client: GEOCON ENVIRONMENTAL - SAN DIEGO	Address: 6970 Flanders Drive	TEL: (858) 558-6100
Attn: <u>Chris Kmit</u>	City: San Diego State: CA Zip Code: 92121	FAX: (858) 558-8437

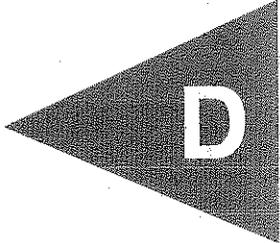
Project Name: <u>Route 405 EA 218301</u>	Project #: <u>09100-06-57</u>	Sampler: <u>CSK/JPF</u> (Printed Name)	(Signature)
Relinquished by: (Signature and Printed Name) <u>[Signature]</u> <u>C. King</u>	Date: <u>10/30/02</u>	Time: _____	Received by: (Signature and Printed Name) <u>[Signature]</u> <u>Chris Kmit</u>
Relinquished by: (Signature and Printed Name) _____	Date: _____	Time: _____	Received by: (Signature and Printed Name) _____
Relinquished by: (Signature and Printed Name) _____	Date: _____	Time: _____	Received by: (Signature and Printed Name) _____

I hereby authorize ATL to perform the work indicated below: Project Mgr /Submitter: <u>CSK</u> <u>10/30/02</u> Print Name Date <u>[Signature]</u> Signature	Send Report To: Attn: _____ Co: <u>Client</u> Address _____ City _____ State _____ Zip _____	Bill To: Attn: _____ Co: _____ Address _____ City _____ State _____ Zip _____	Special Instructions/Comments:
--	--	---	--------------------------------

Unless otherwise requested, all samples will be disposed 45 days after receipt.	Sample Archive/Disposal: <input type="checkbox"/> Laboratory Standard <input type="checkbox"/> Other <input type="checkbox"/> Return To: _____ * \$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.	Circle or Add Analysis(es) Requested 8081 / 8082 (Pesticides/PCB-GC) 8220 (Volatiles-GCMS) 825 / 8270 (BNA-GCMS) Metals Total (CAC-GCMS) 8015M TPH/G/BTEX (COMBINATION) 8015M TPH/D (Diesel-GC) Total / 825 / 8270 - EPA 816.10	CIRCLE APPROPRIATE MATRIX SOLID • SOIL • SLUDGE OIL • SOLVENT • LIQUID WATER • WASTEWATER DRINKING WATER AIR WIPE • FILTER OTHER	PRESERVATION RTNE <input type="checkbox"/> RWQCB <input type="checkbox"/> WIP <input type="checkbox"/> NAVY <input type="checkbox"/> CT <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>
LAB USE ONLY: Batch #:	Sample Description			Container(s)
Lab No.	Sample I.D.	Date	Time	# Type
-63	EBN-7	10/30	9:30	E 1 PPN
-84	EBN-23	10/30	10:30	E 1 PPN

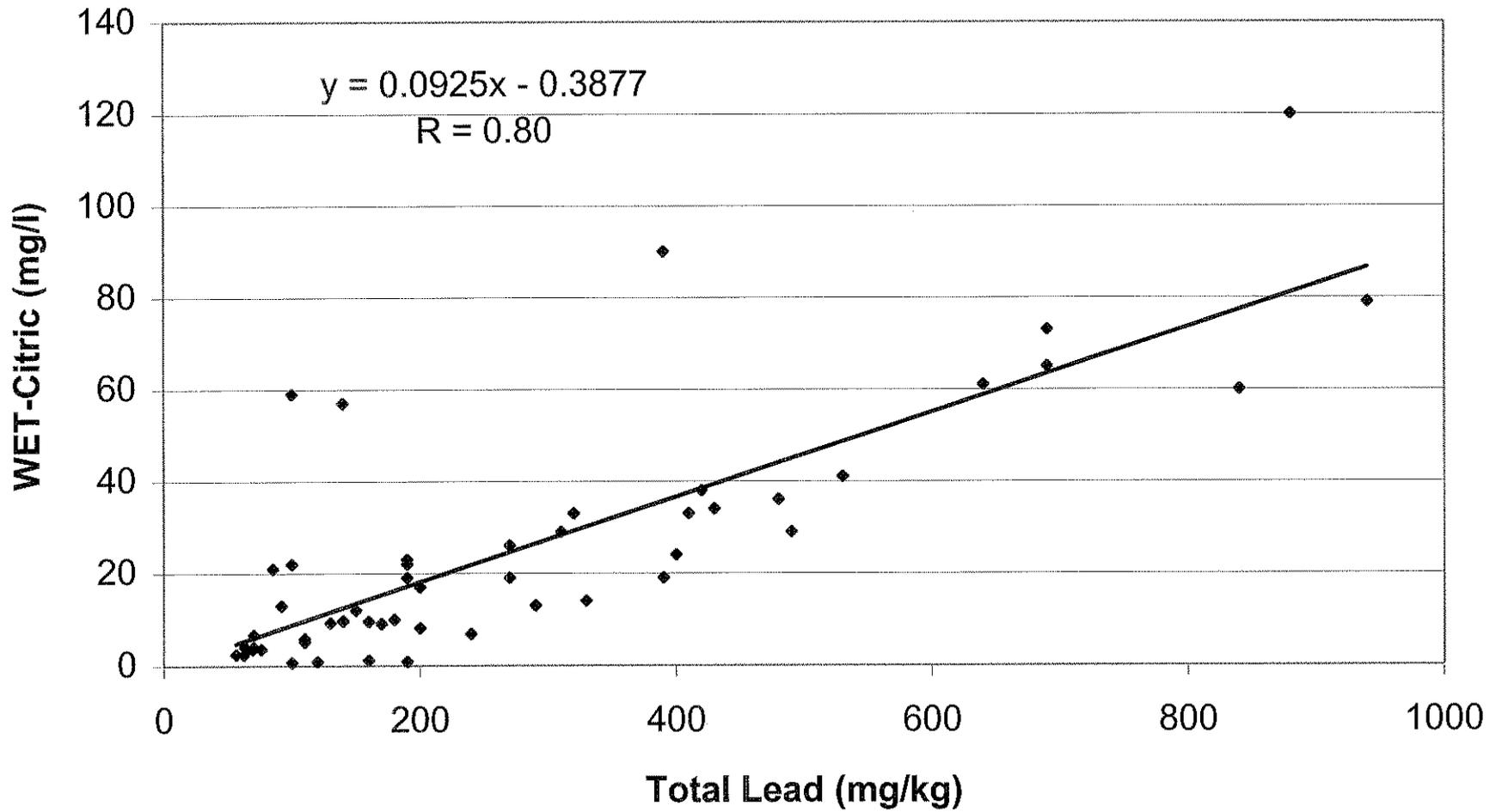
• TAT starts 8 a.m. following day if samples received after 5 p.m.	TAT: A= <u>Overnight</u> ≤ 24 hr	B= <u>Emergency</u> Next workday	C= <u>Critical</u> 2 Workdays	D= <u>Urgent</u> 3 Workdays	E= <u>Routine</u> 7 Workdays	Preservatives: H=HCl N=HNO ₃ S=H ₂ SO ₄ C=4°C Z=Zn(AC) ₂ O=NaOH T=Na ₂ S ₂ O ₃
Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal						

APPENDIX



D

Regression Analysis - Northbound EA 218301



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 1 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

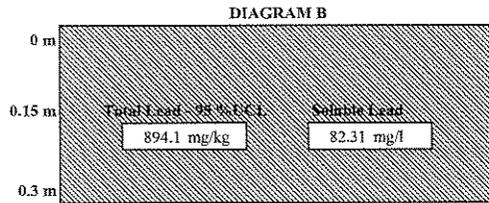
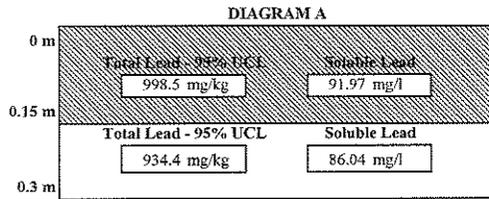


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 998.5 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 934.4 mg/kg.

Task Order Number: 07-218301-QY

Project Name: Route 405

Project No.: 09100-06-57

Group 1 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

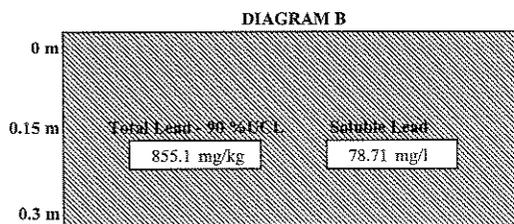
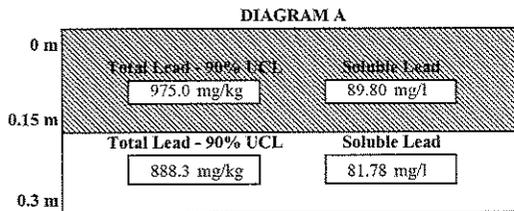


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
DIAGRAM B -- Treat the entire

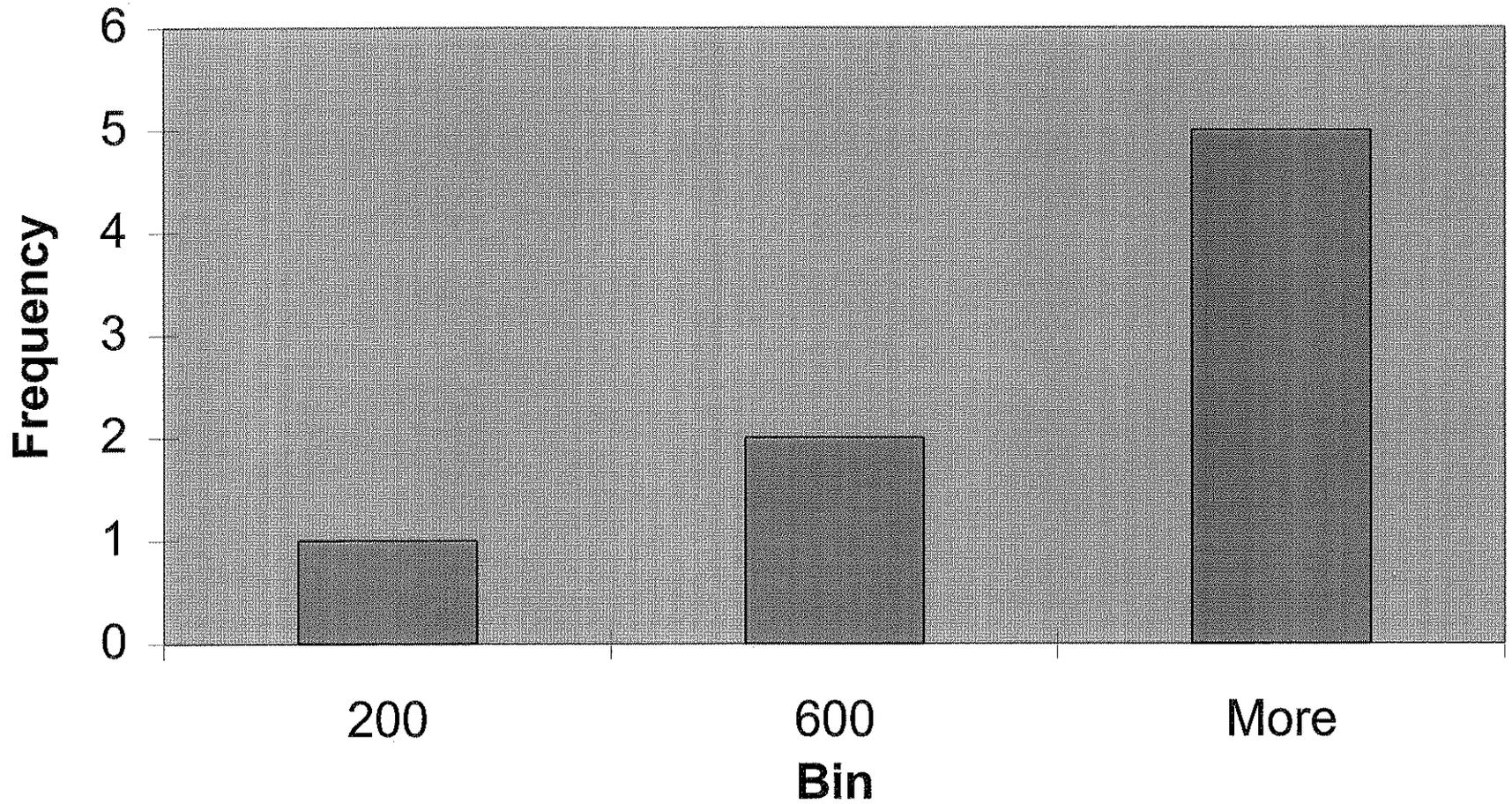
section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 975.0 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 888.3 mg/kg.

Histogram Group 1

Skewed to right



Task Order Number: 07-218301-QY

Project Name: Route 405

Project No.: 09100-06-57

Group 2 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

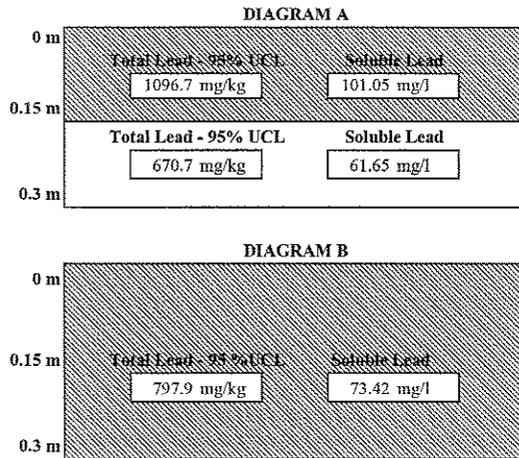


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil

DIAGRAM B -- Treat the entire

section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 1096.7 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 670.7 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 2 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

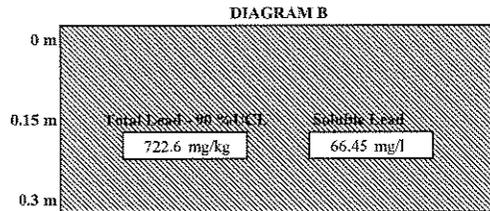
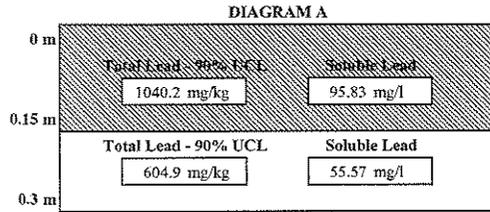
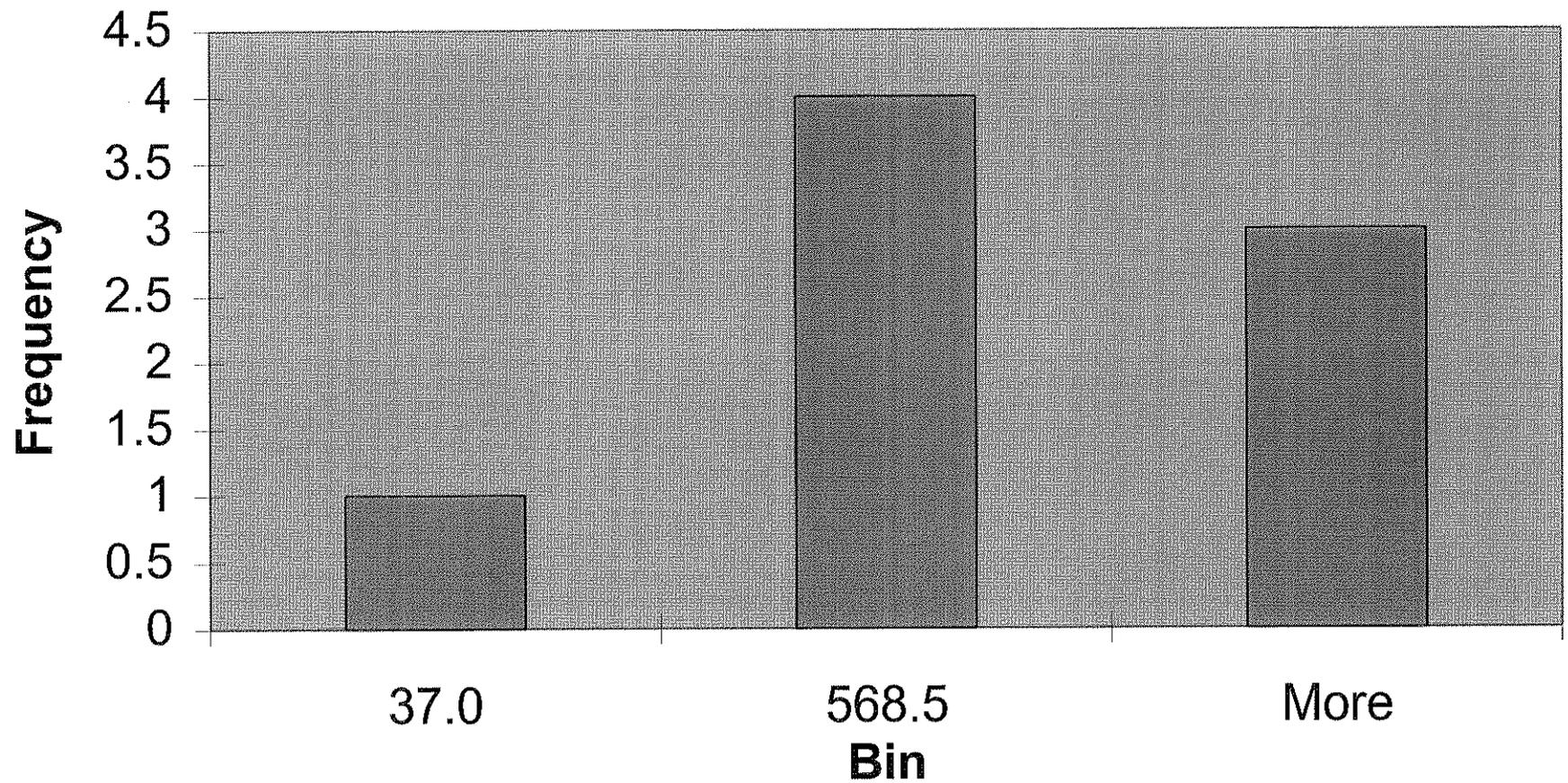


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 1040.2 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 604.9 mg/kg.

Histogram Group 2 Skewed to right



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 3 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

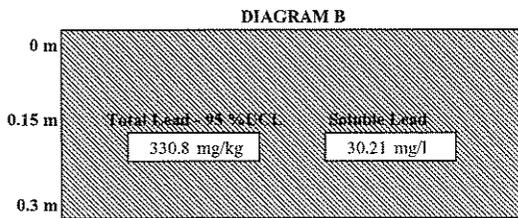
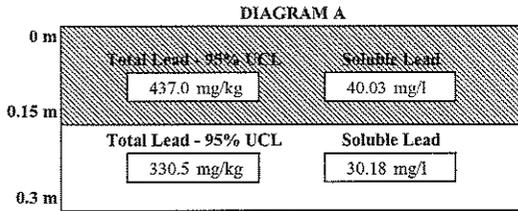


DIAGRAM A -- Separate the top $\frac{0.15 \text{ m}}{\text{section}}$ of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire $\frac{\text{section}}{\text{section}}$ as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 437.0 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 330.5 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 3 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

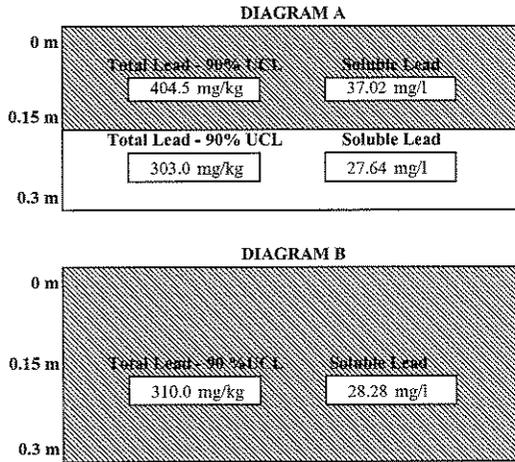


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire

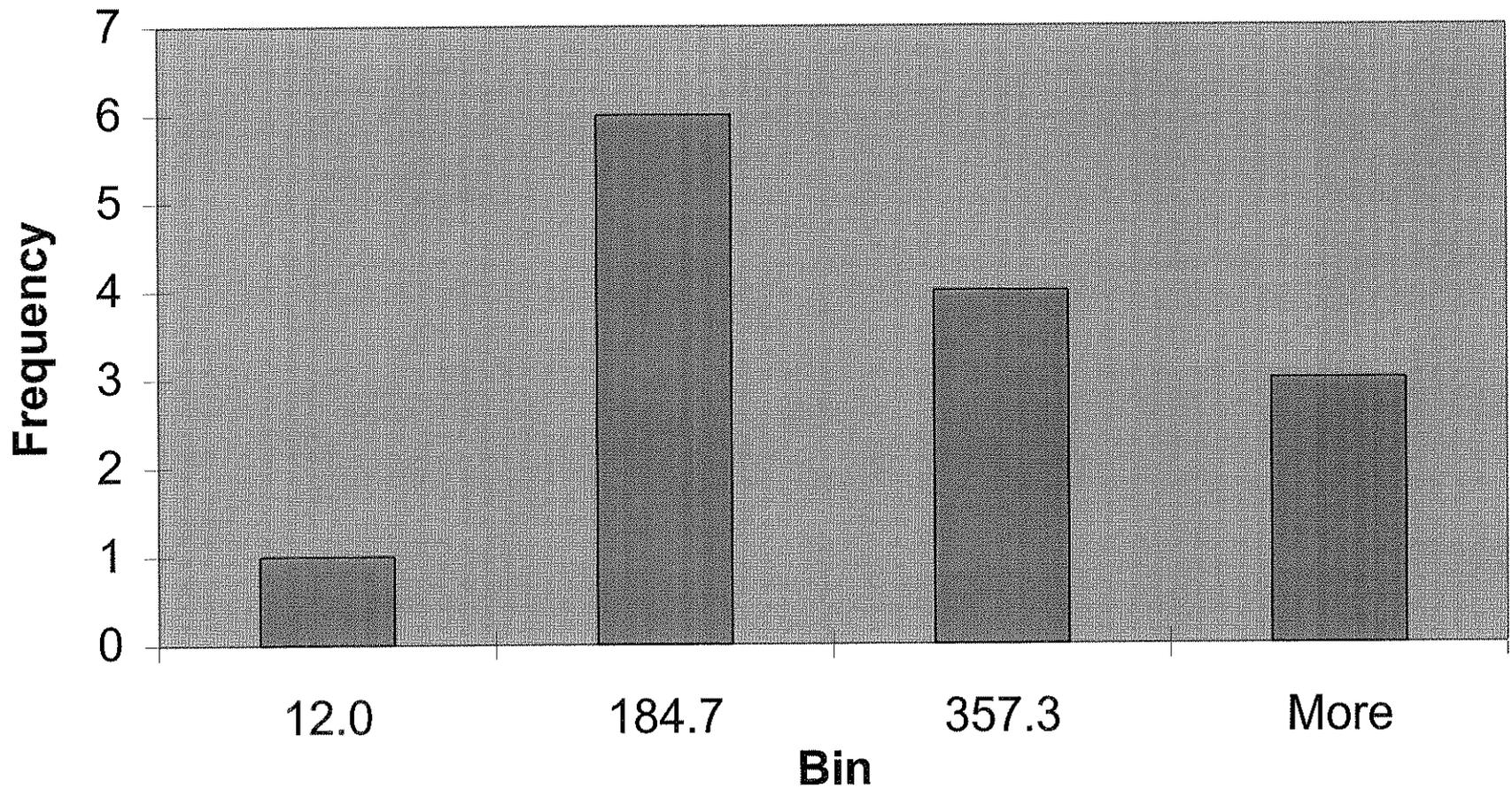
section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 404.5 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 303.0 mg/kg.

Histogram Group 3

Skewed to right



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 4 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

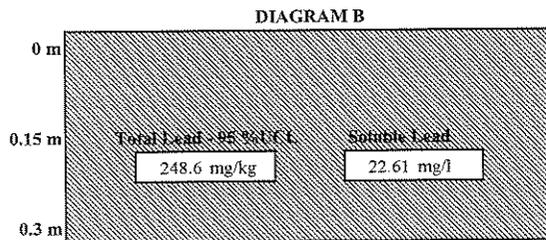
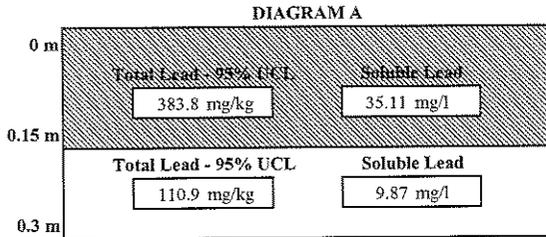


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 383.8 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 110.9 mg/kg.

Task Order Number: 07-218301-QY

Project Name: Route 405

Project No.: 09100-06-57

Group 4 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

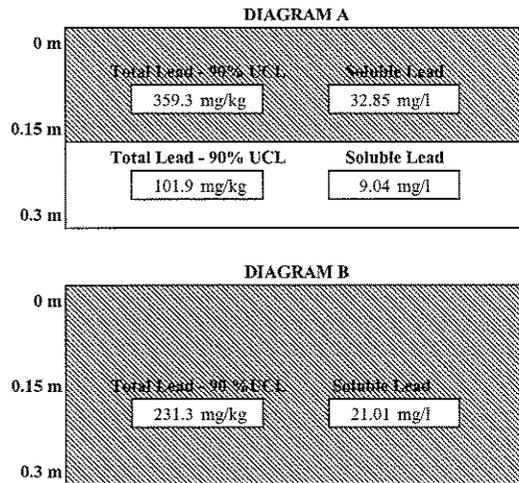
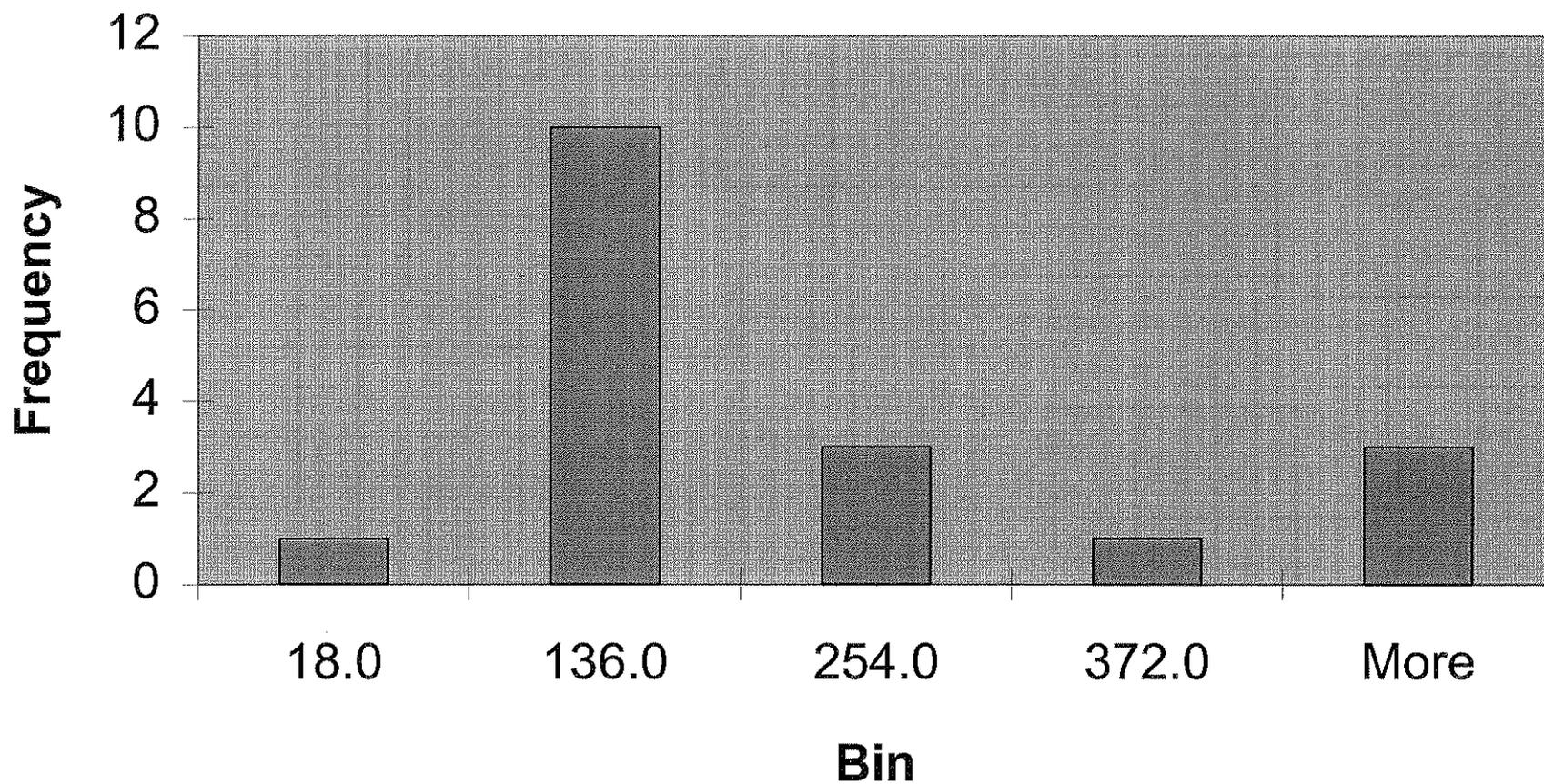


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 359.3 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 101.9 mg/kg.

Histogram Group 4

Bimodal



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 5 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

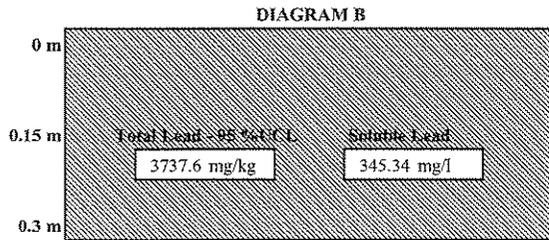
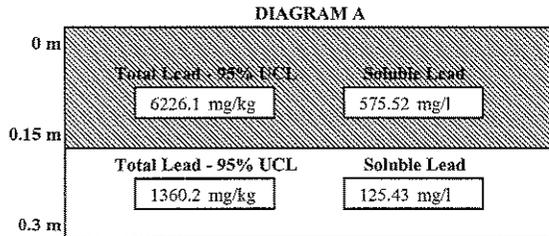


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire

section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 6226.1 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 1360.2 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 5 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

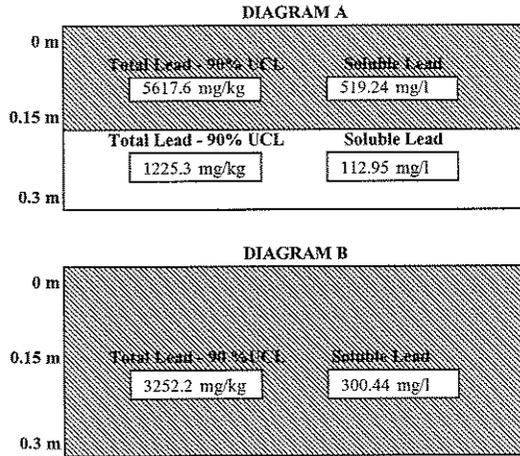
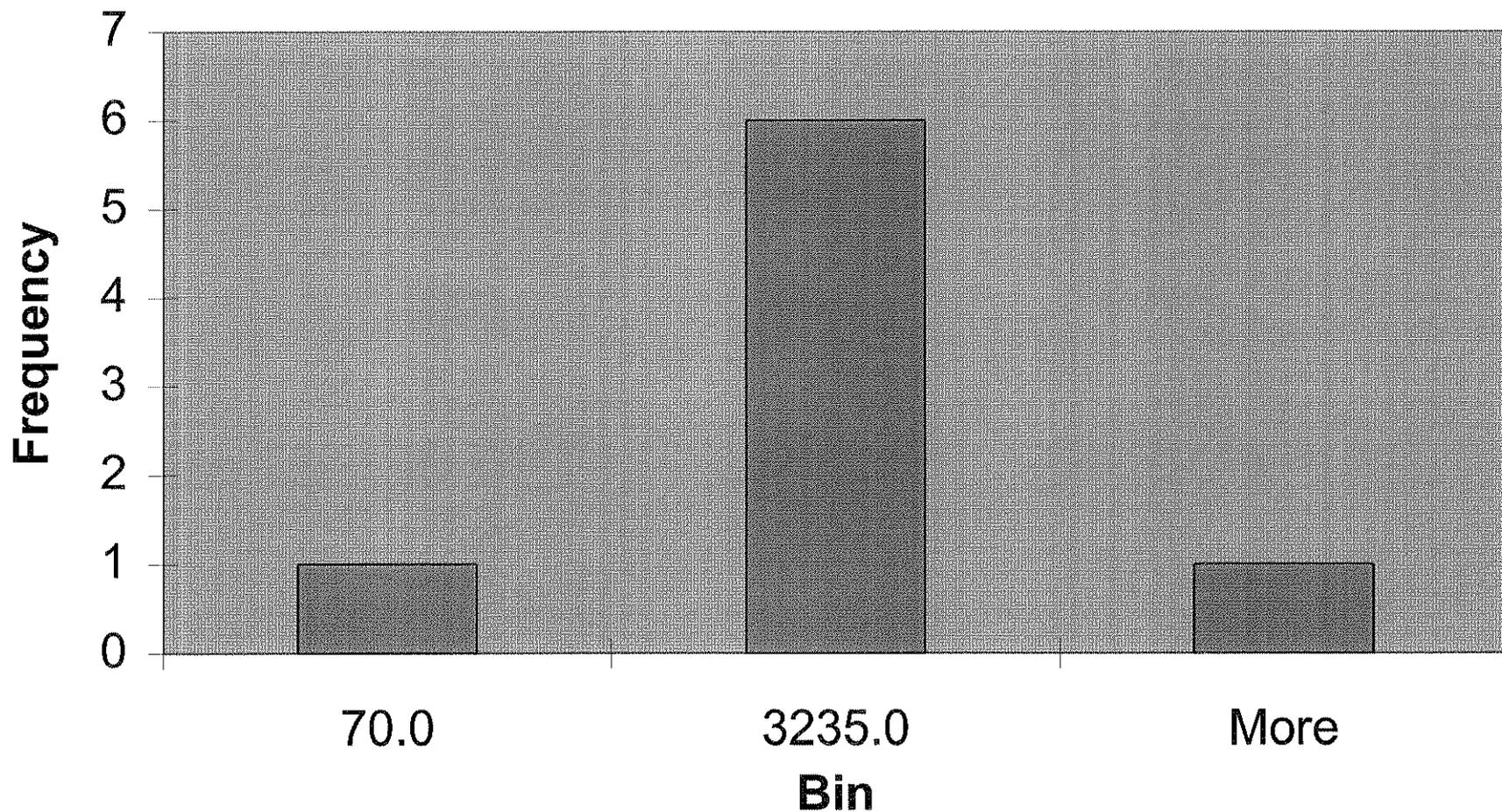


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 5617.6 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 1225.3 mg/kg.

Histogram Group 5



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 6 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

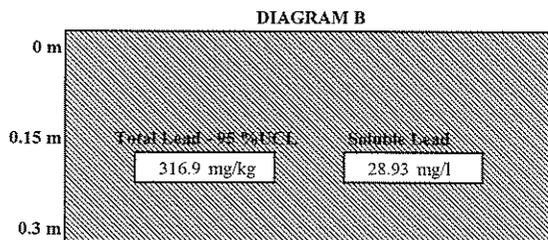
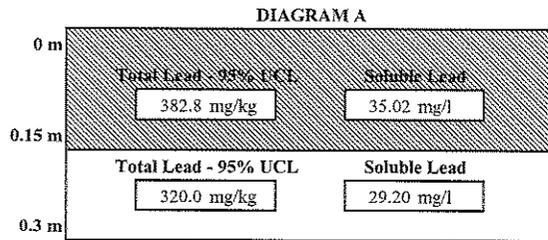


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire

section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 382.8 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 320.0 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 6 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

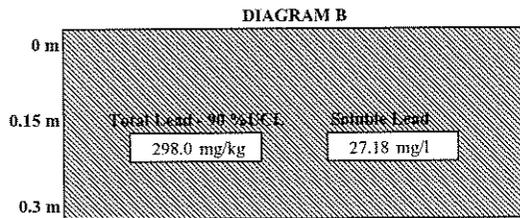
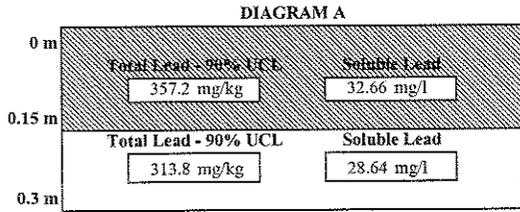
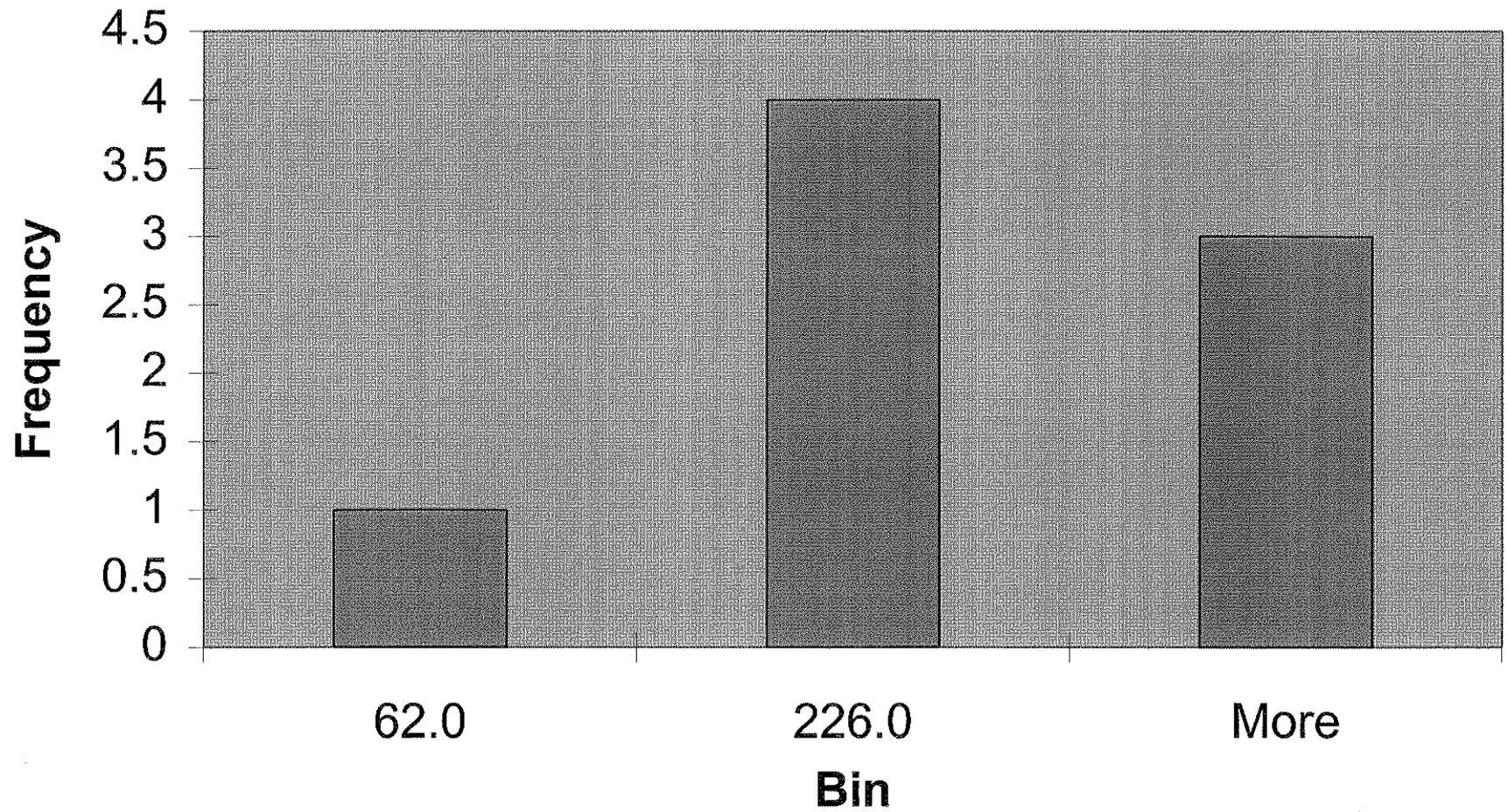


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 357.2 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 313.8 mg/kg.

Histogram Group 6 Skewed to Right



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 7 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

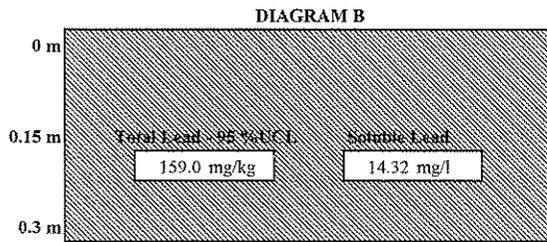
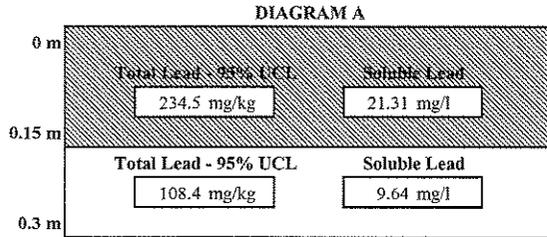


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 234.5 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 108.4 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 7 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

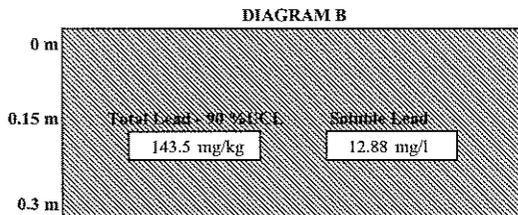
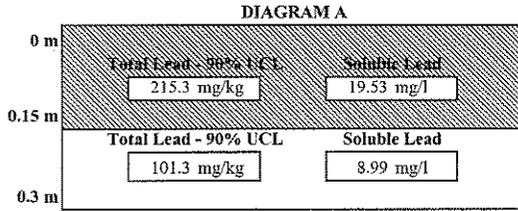
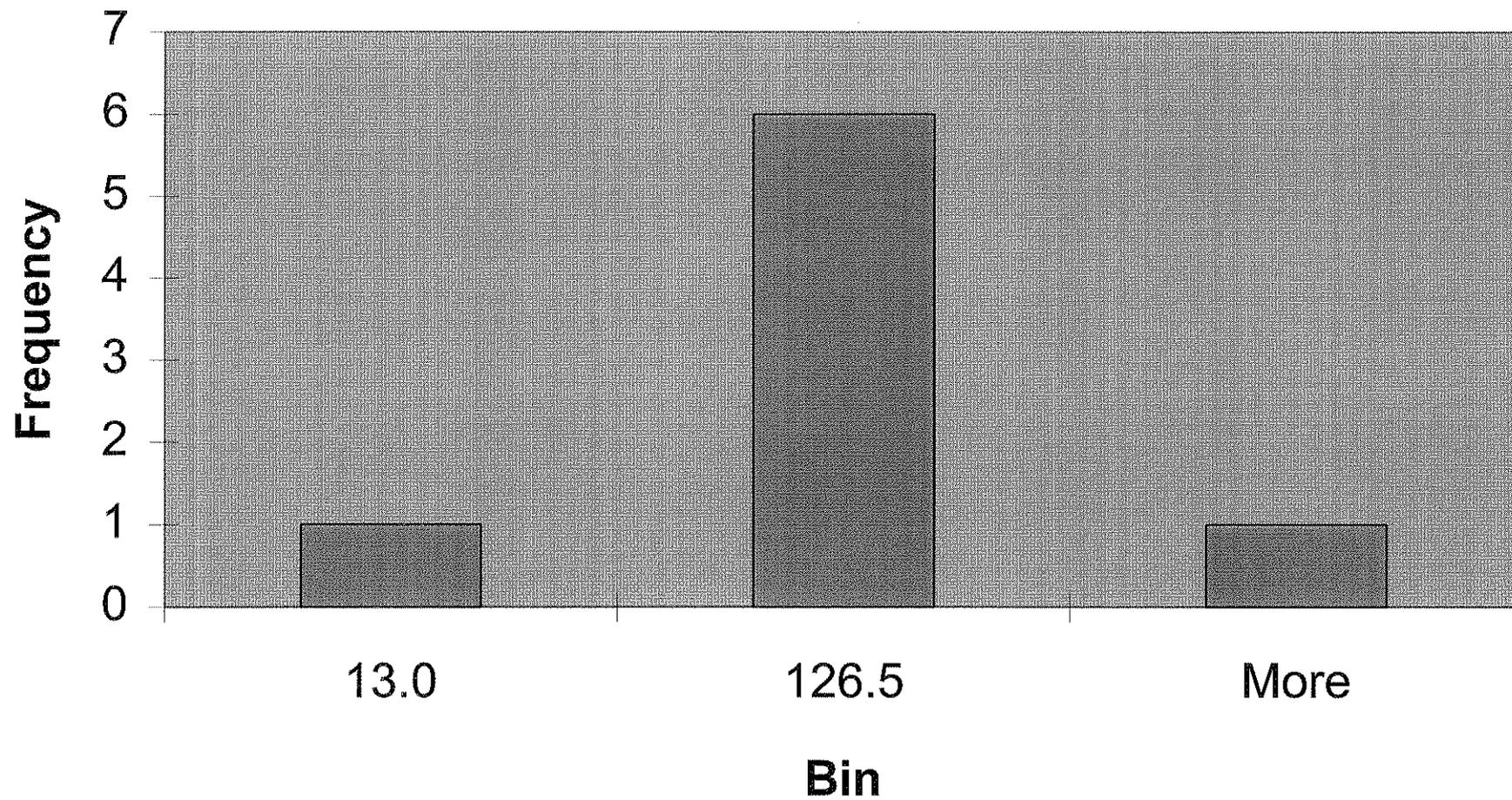


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 215.3 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 101.3 mg/kg.

Histogram Group 7



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 8 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

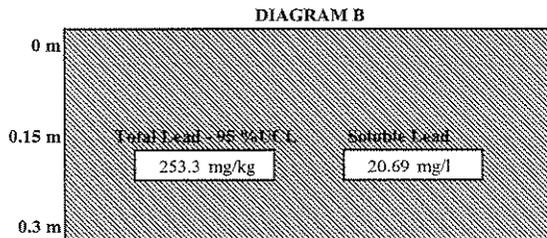
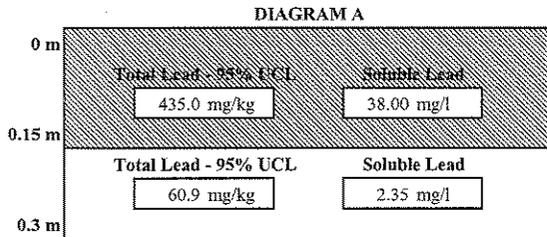


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 435.0 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 60.9 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 8 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

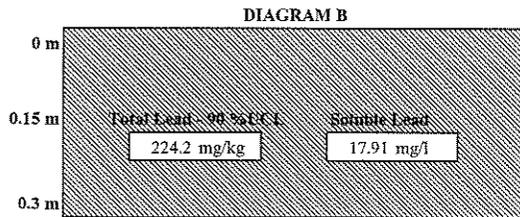
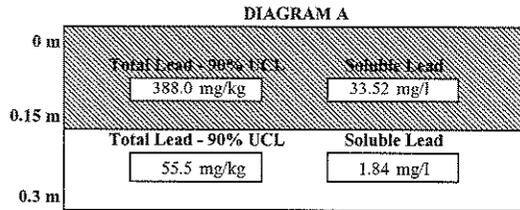


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire

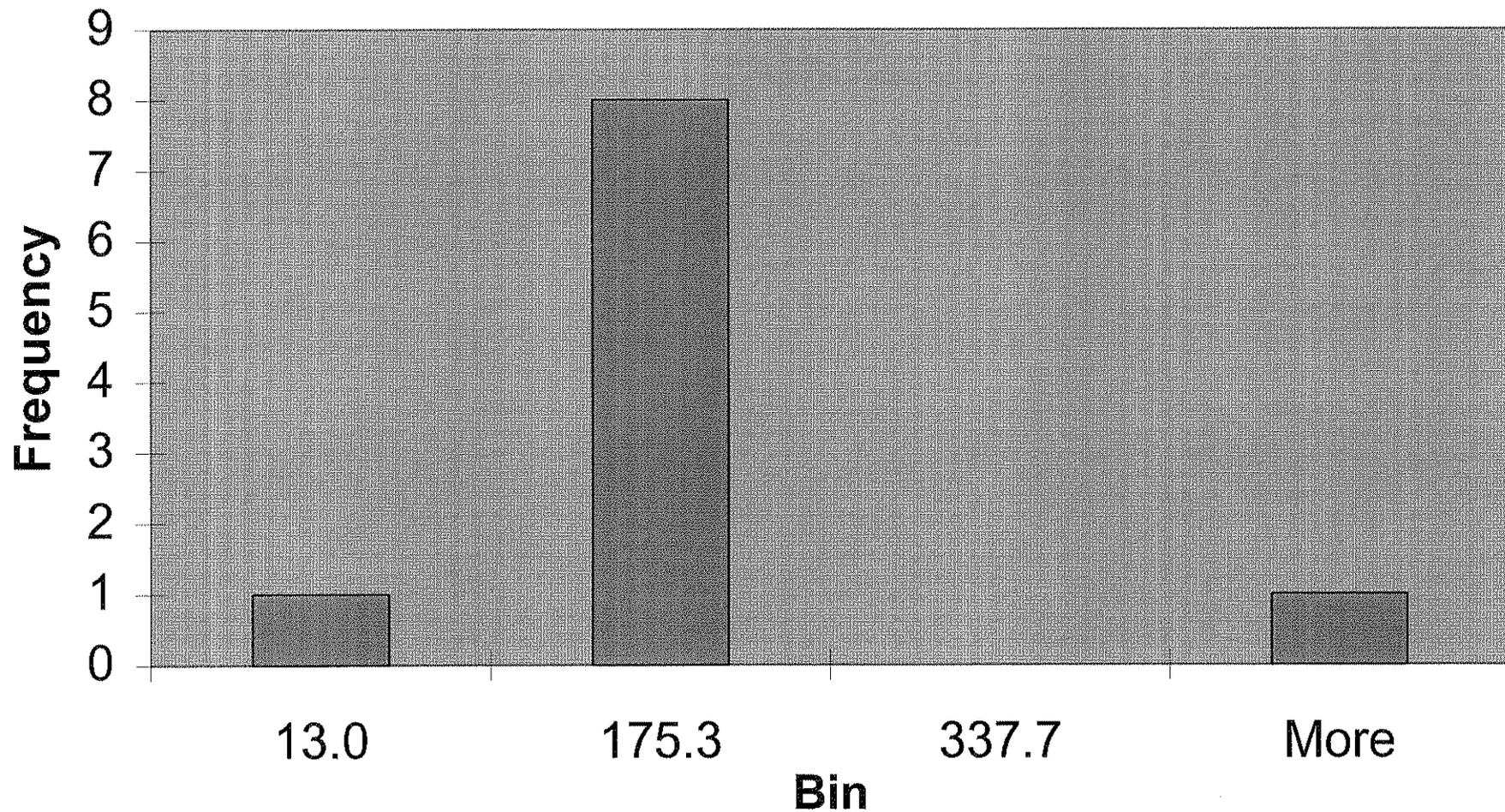
section

 as a single unit

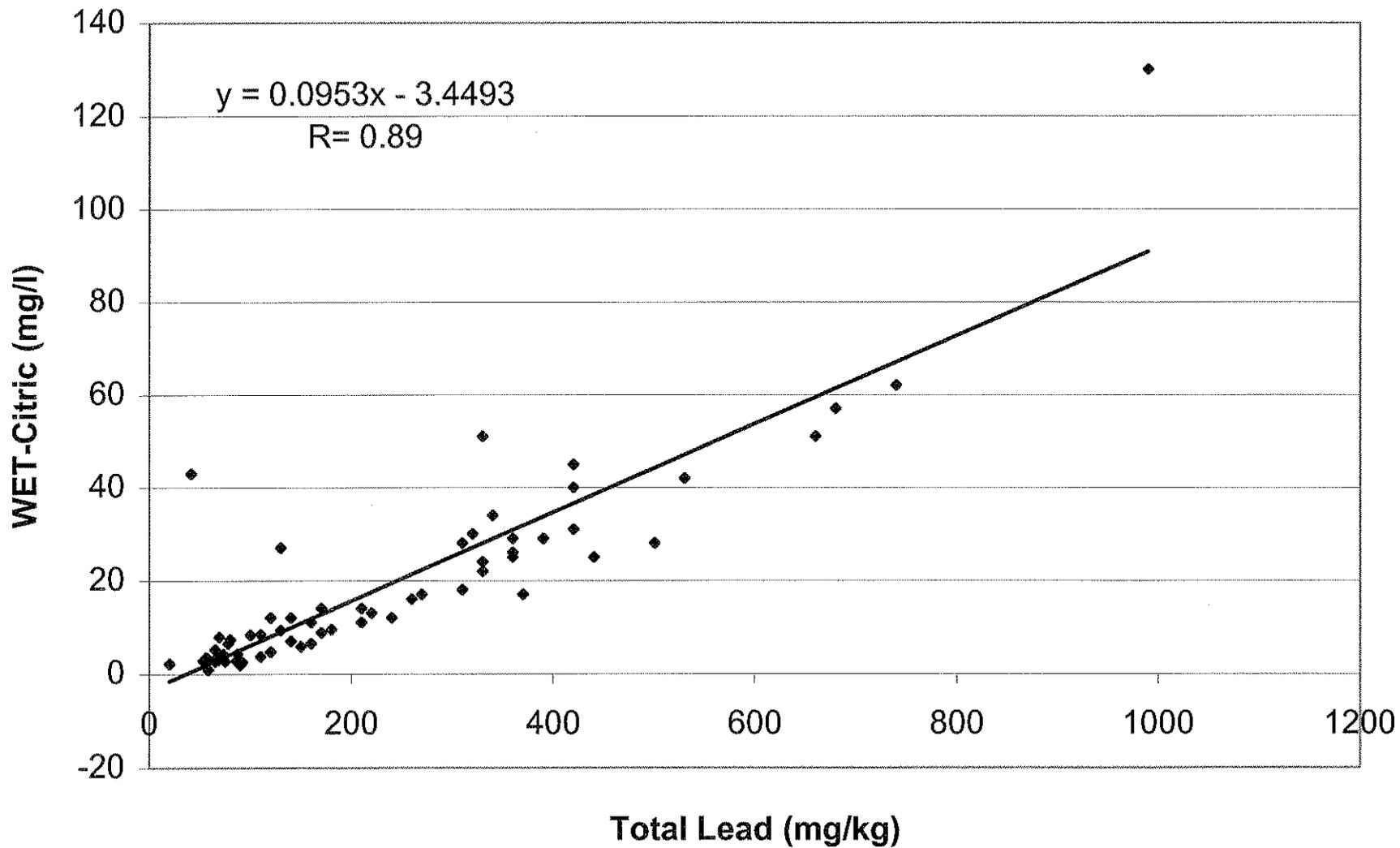
The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 388.0 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 55.5 mg/kg.

Histogram Group 8

Bimodal



Regression Analysis - Southbound EA 218301



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 9 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

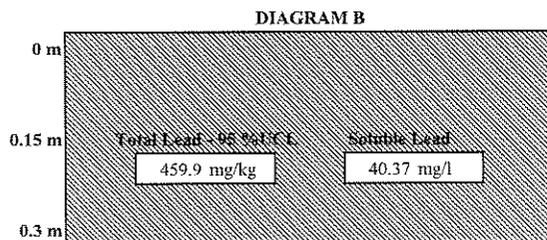
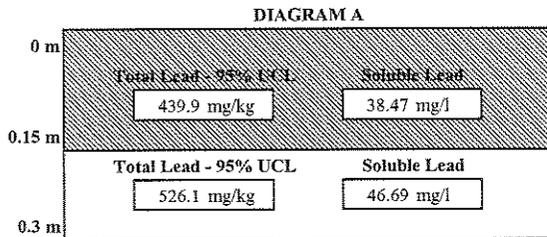


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 439.9 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 526.1 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 9 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

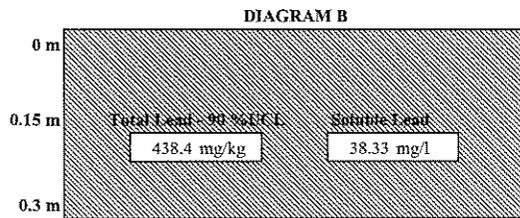
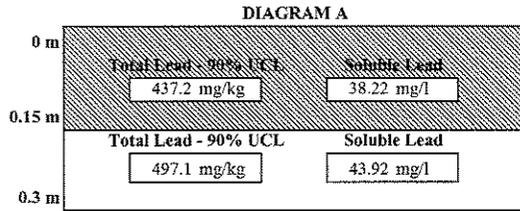


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire

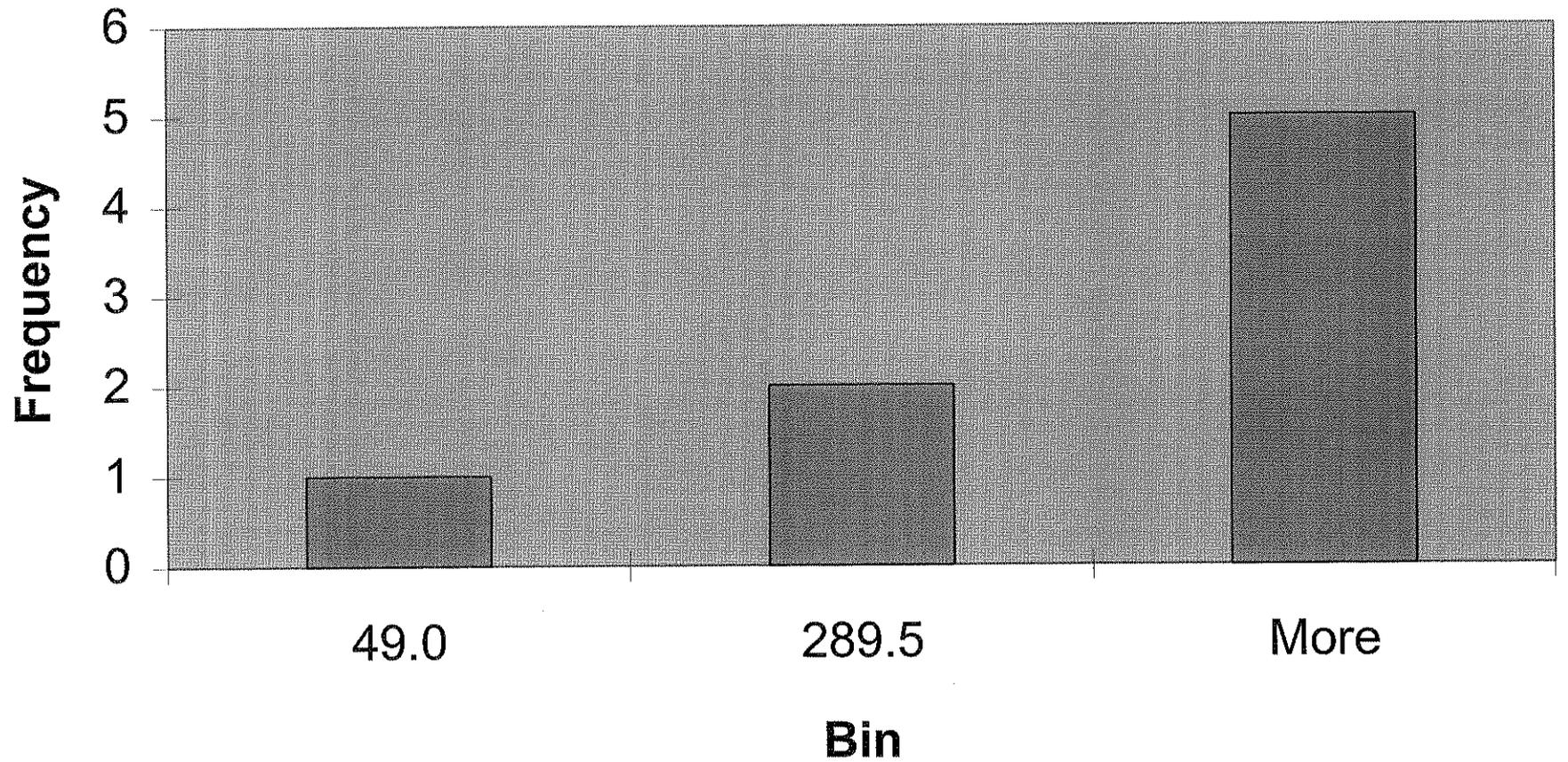
section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 437.2 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 497.1 mg/kg.

Histogram Group 9

Skewed to right



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 10 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

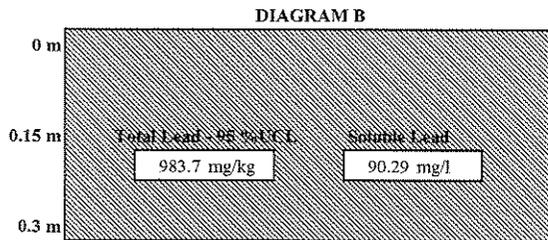
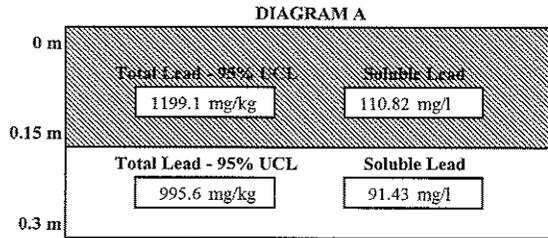


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire

section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 1199.1 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 995.6 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
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Group 10 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

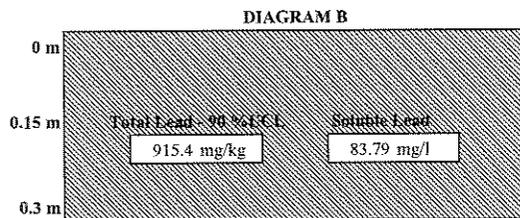
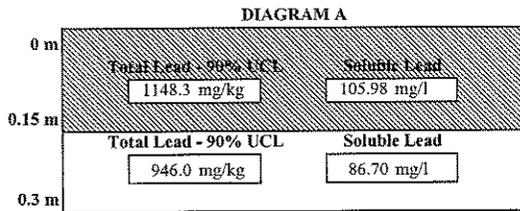


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire

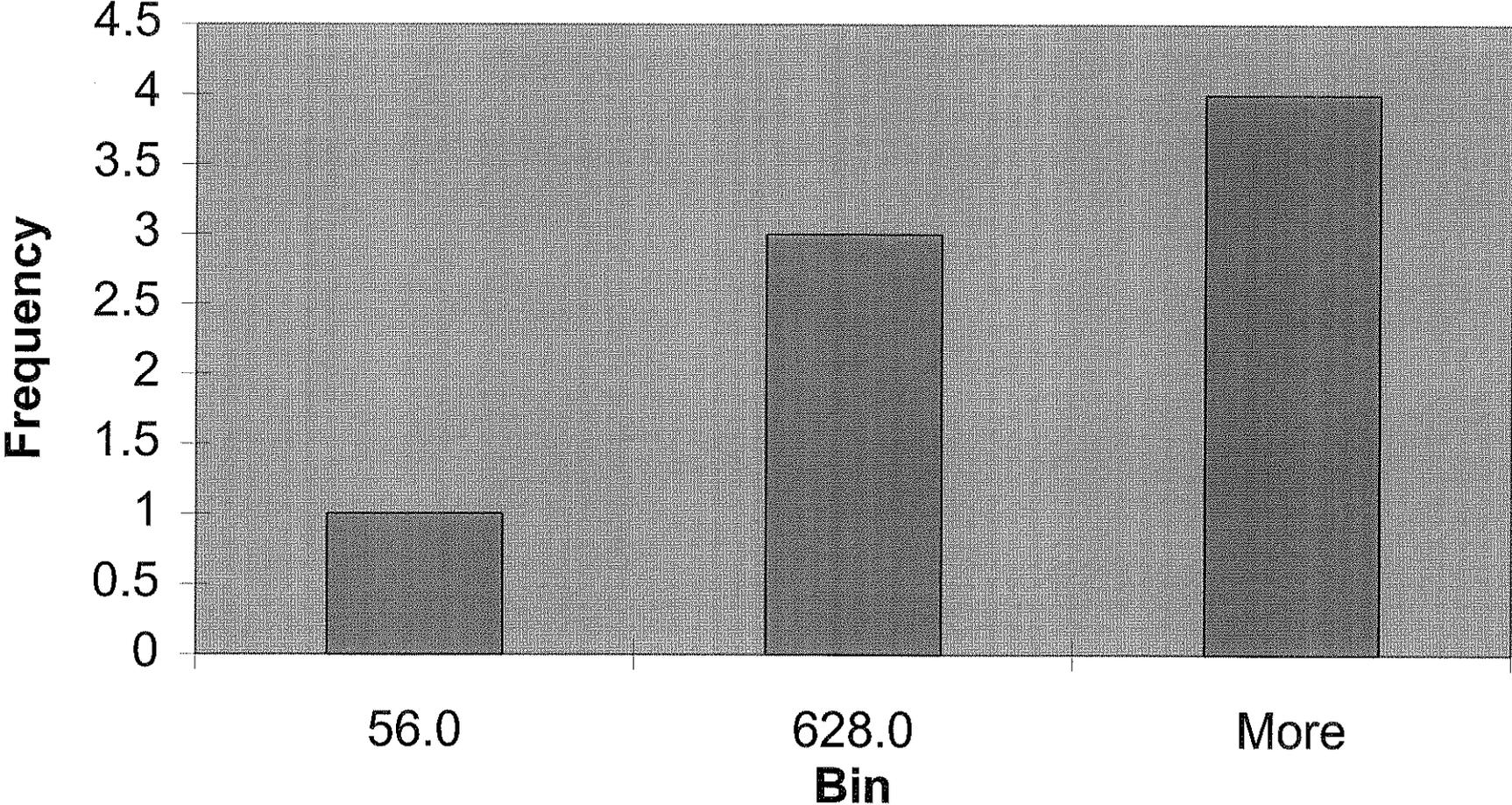
section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 1148.3 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 946.0 mg/kg.

Histogram Group 10

Skewed to right



Task Order Number: 07-218301-QY

Project Name: Route 405

Project No.: 09100-06-57

Group 11 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

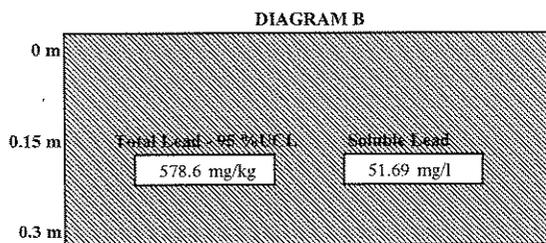
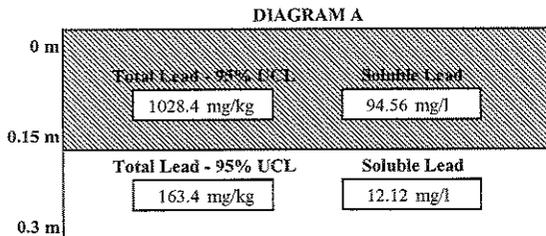


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
DIAGRAM B -- Treat the entire

section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 1028.4 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 163.4 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 11 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

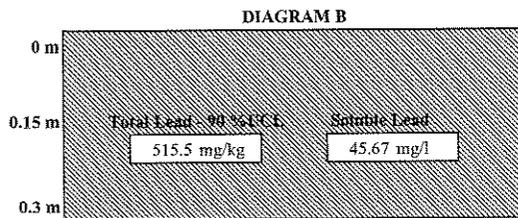
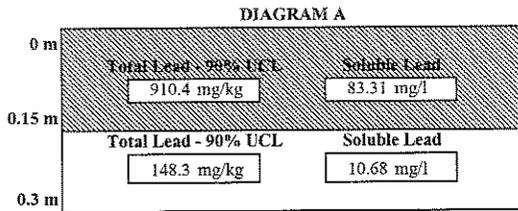


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire

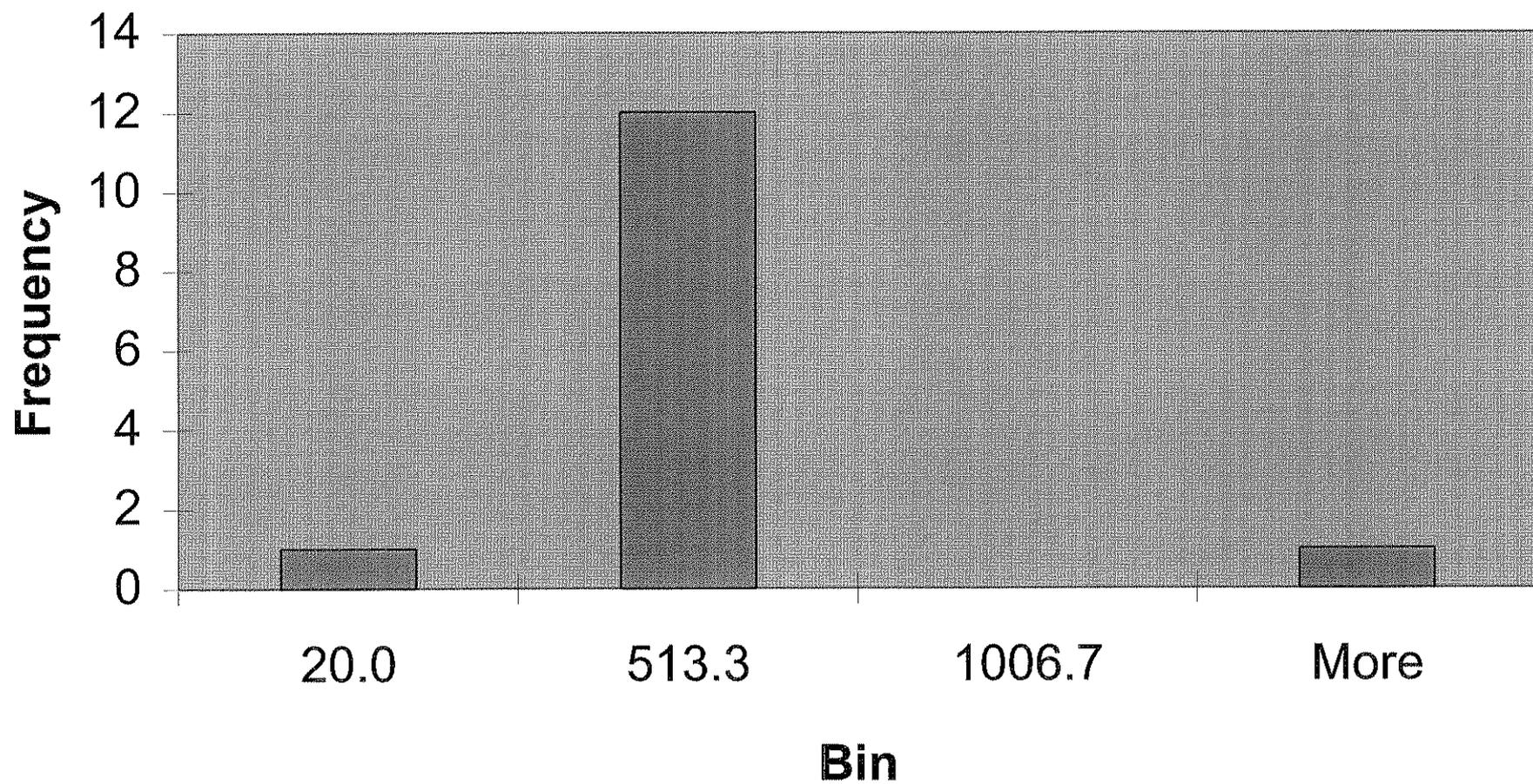
section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 910.4 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 148.3 mg/kg.

Histogram Group 11

Biomodal



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 12 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

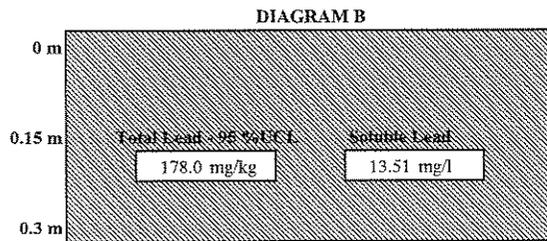
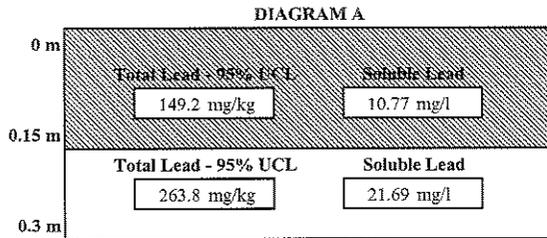


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 149.2 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 263.8 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 12 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

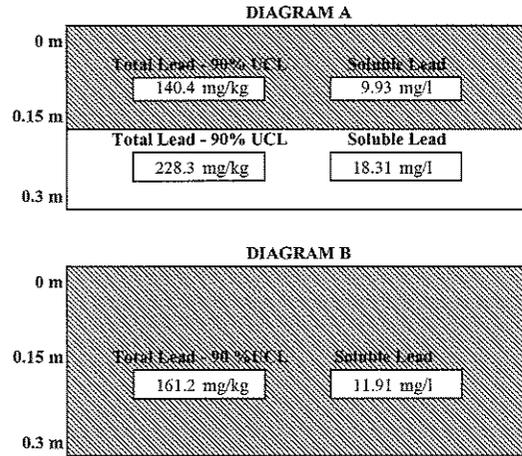
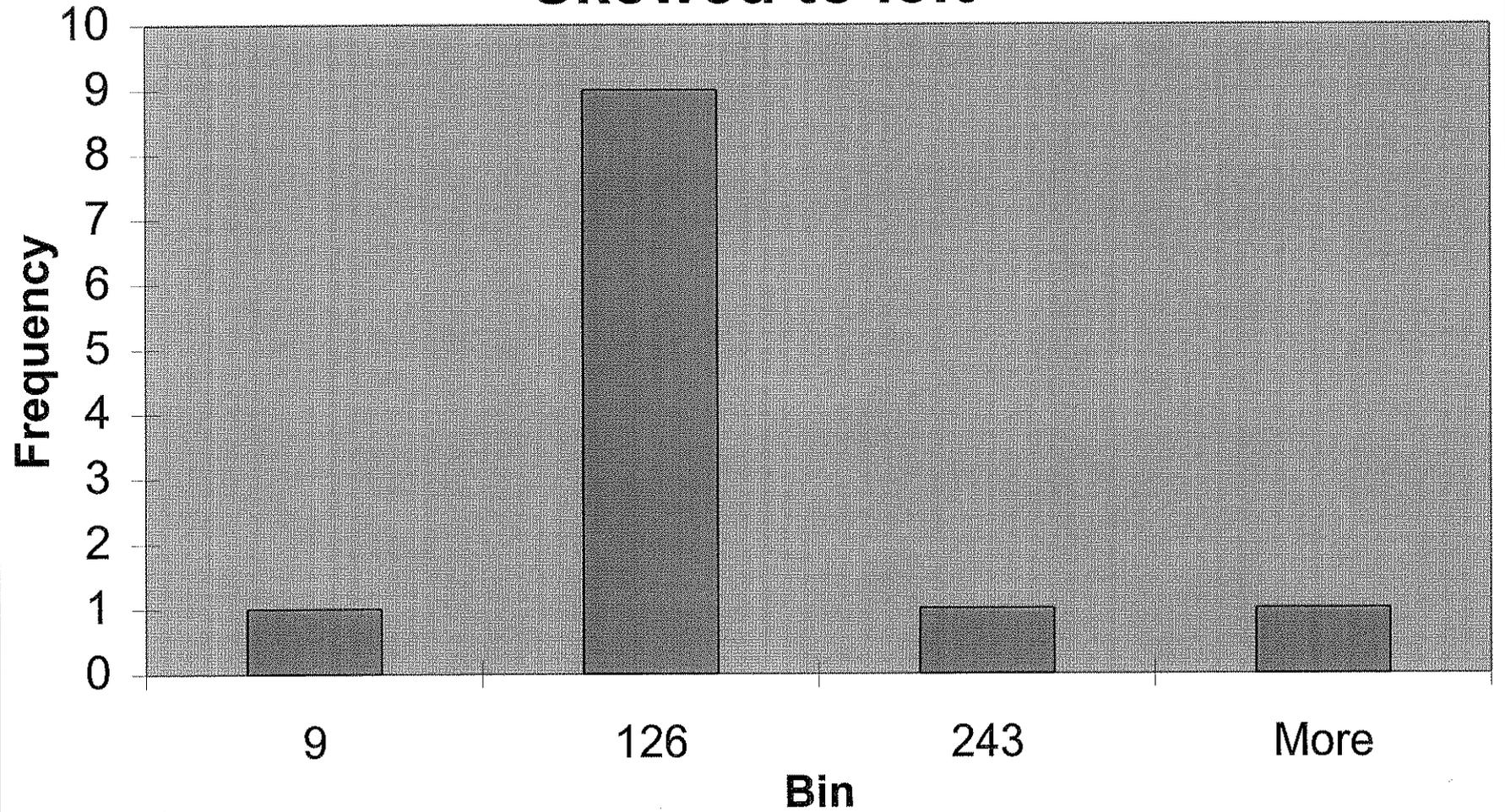


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 140.4 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 228.3 mg/kg.

Histogram Group 12

Skewed to left



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 13 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

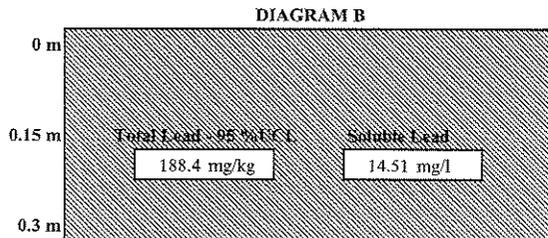
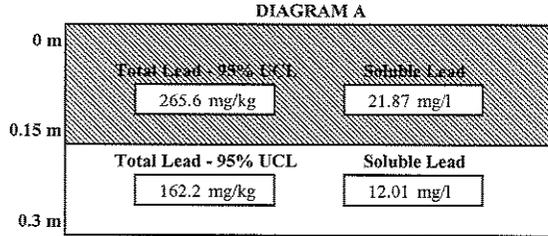


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire

section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 266.6 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 162.2 mg/kg.

Task Order Number: 07-218301-QY
Project Name: Route 405
Project No.: 09100-06-57

Group 13 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

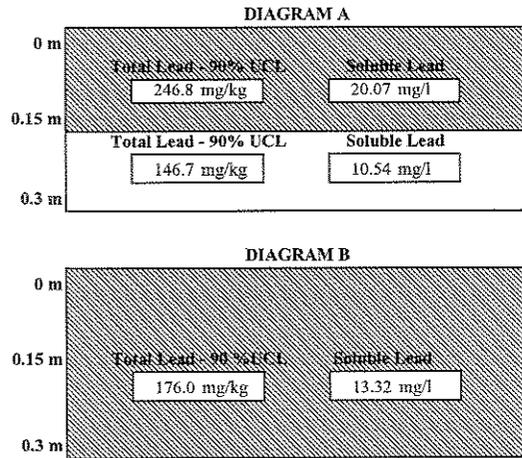
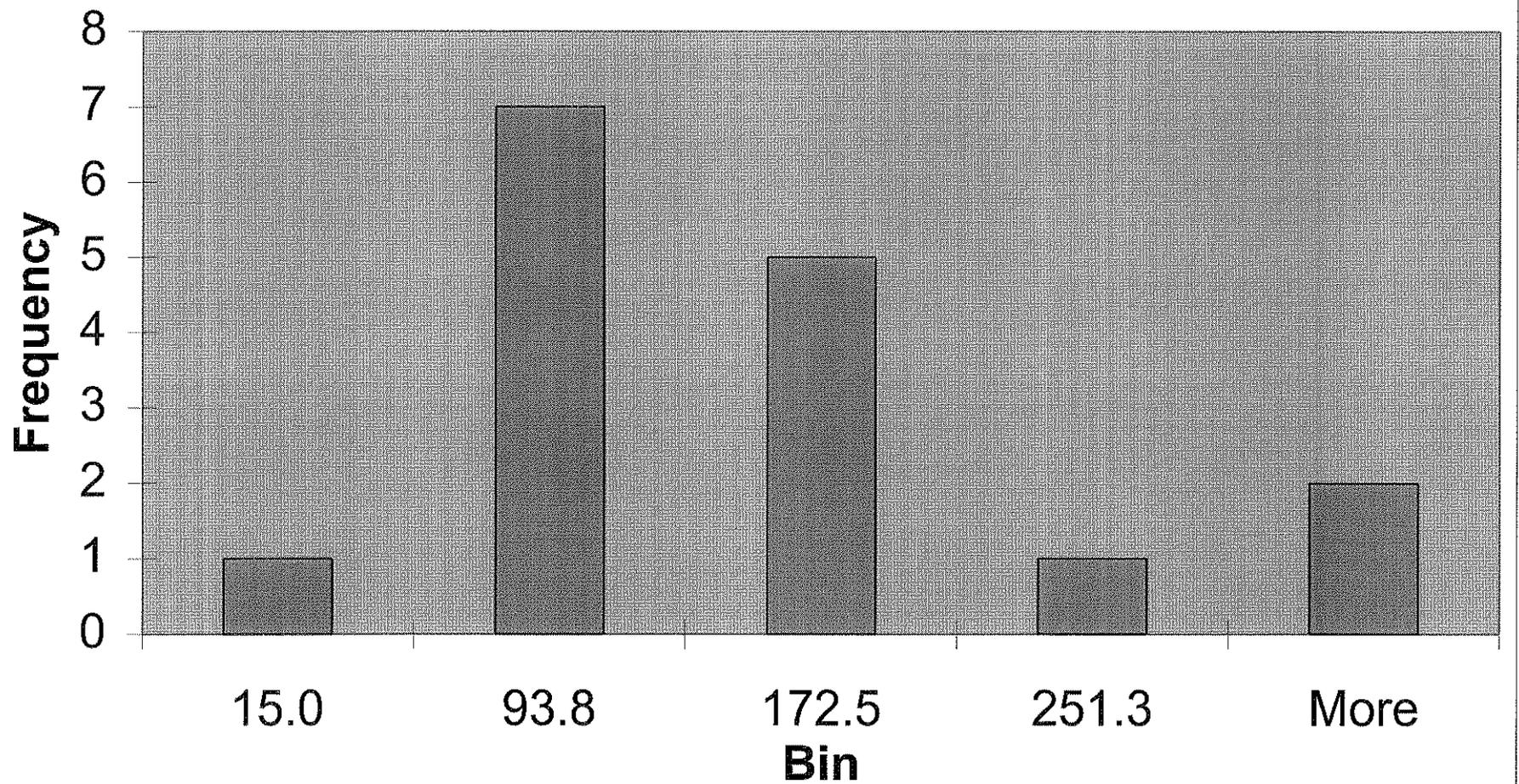


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 246.8 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 146.7 mg/kg.

Histogram Group 13

Bimodal



Task Order Number: 07-218301-QY

Project Name: Route 405

Project No.: 09100-06-57

Group 14 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

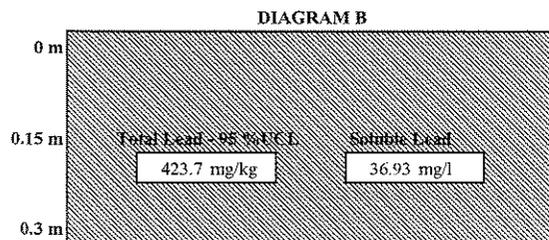
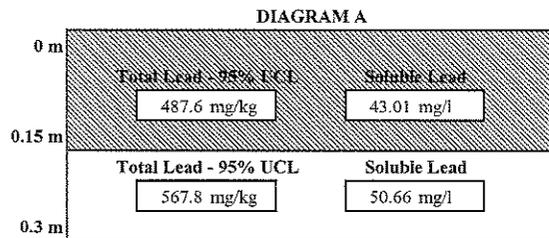


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil

DIAGRAM B -- Treat the entire

section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 487.6 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 567.8 mg/kg.

Task Order Number: 07-218301-QY

Project Name: Route 405

Project No.: 09100-06-57

Group 14 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

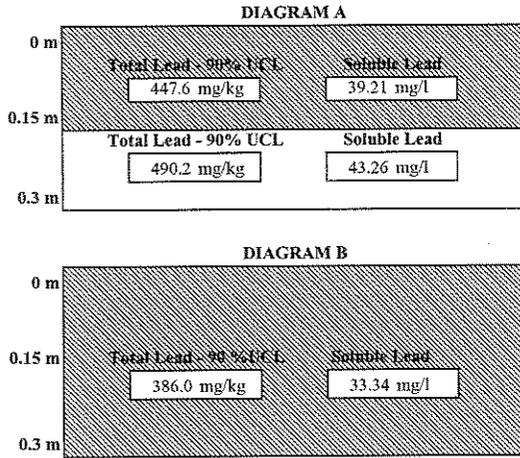
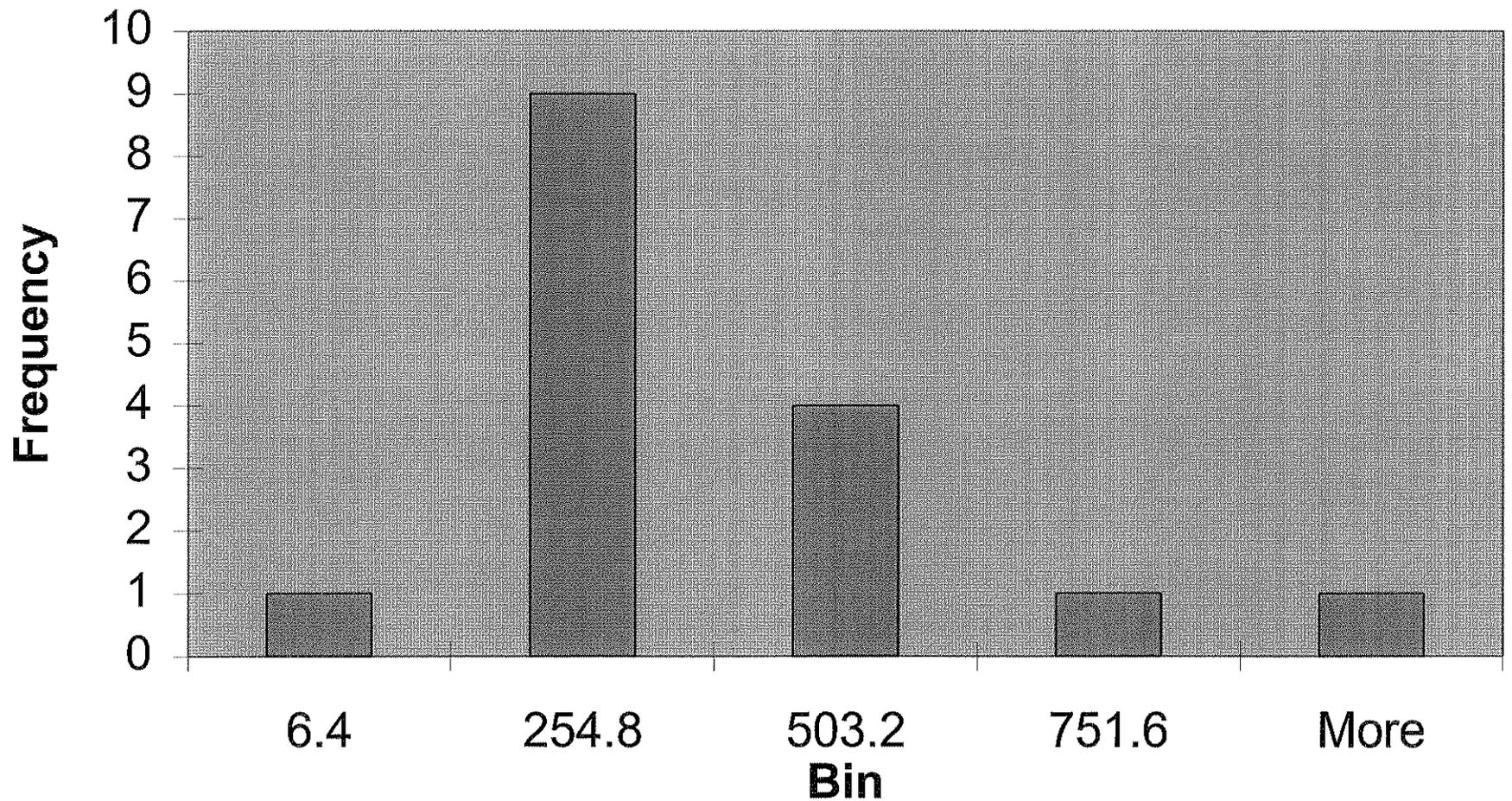


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 447.6 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 490.2 mg/kg.

Histogram Group 14

Skewed to left



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 15 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

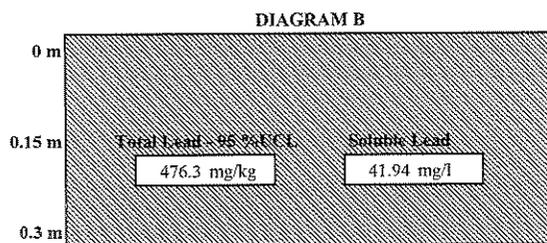
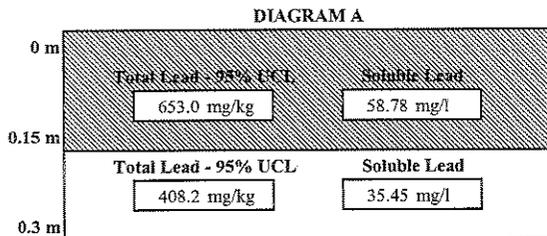


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire

section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 653.0 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 408.2 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
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Group 15 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

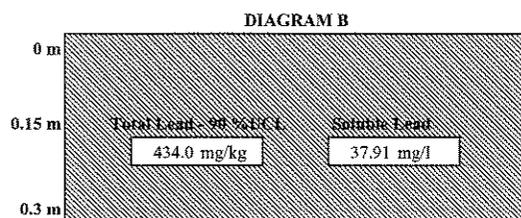
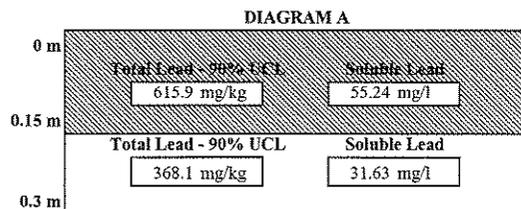
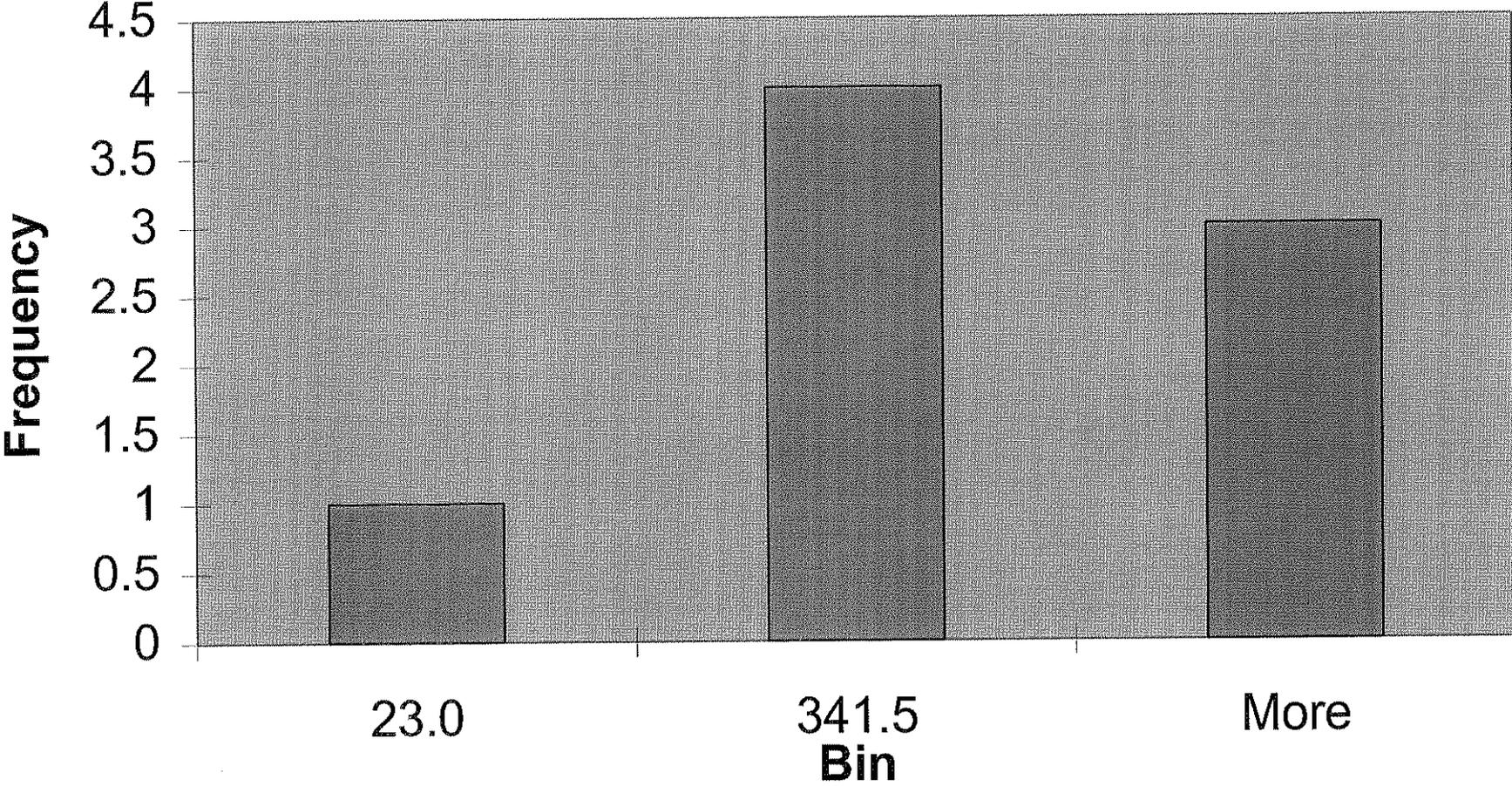


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 615.9 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 368.1 mg/kg.

Histogram Group 15

Skewed to right



Task Order Number: 07-218301-QY

Project Name: Route 405

Project No.: 09100-06-57

Group 16 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

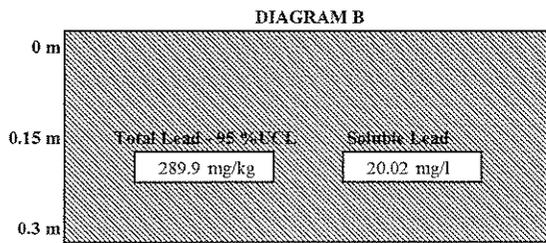
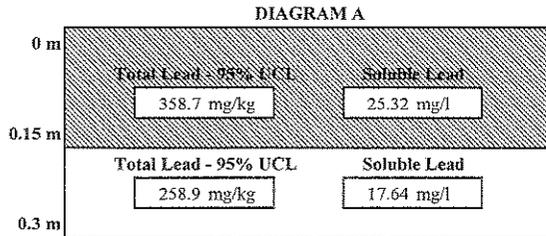


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil

DIAGRAM B -- Treat the entire

section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 358.7 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 258.9 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
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Group 16 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

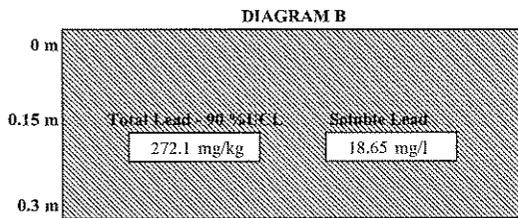
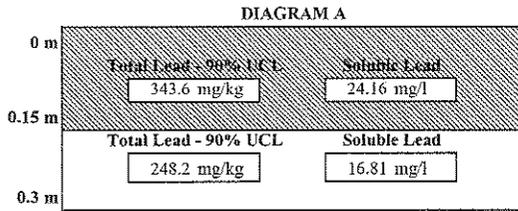


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire

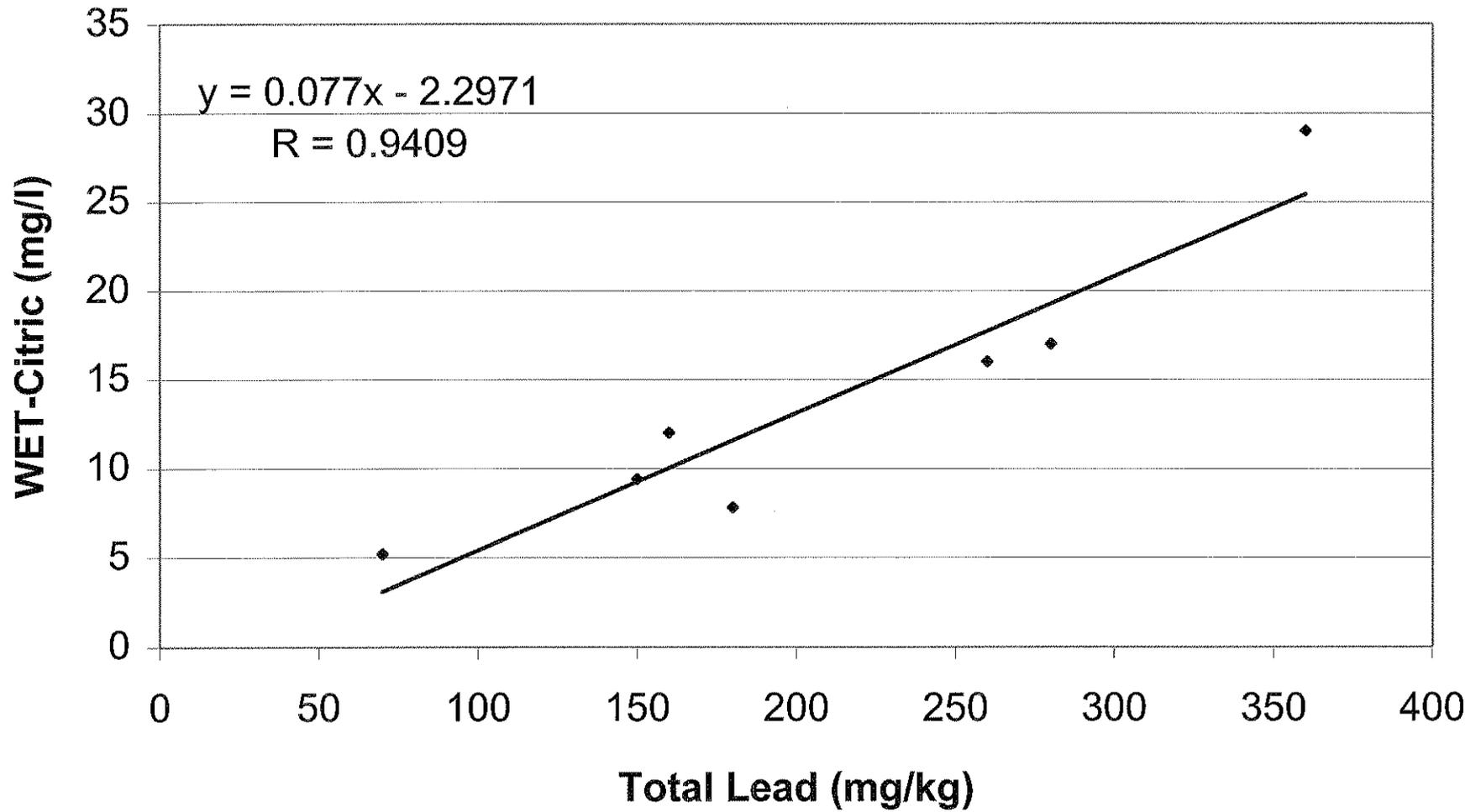
section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 343.6 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 248.2 mg/kg.

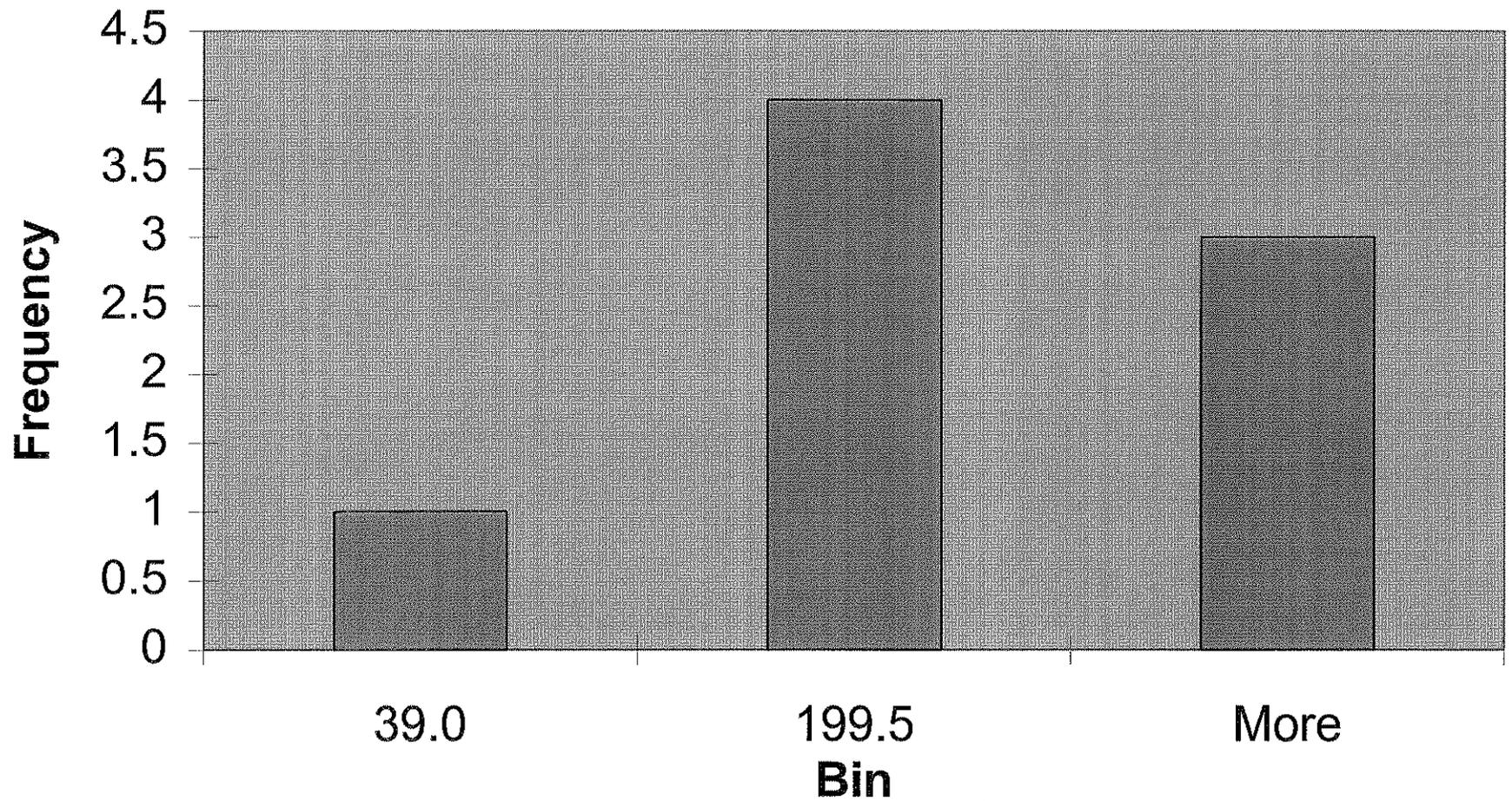
Regression Analysis Group 16

EA 218301



Histogram Group 16

Skewed to right



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 17 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

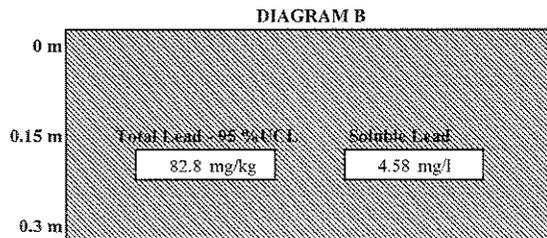
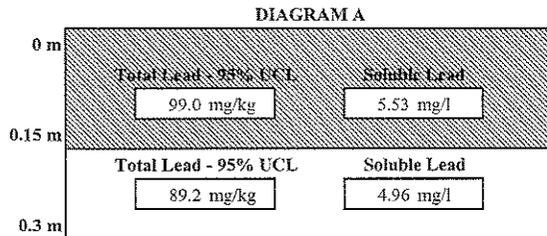


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 99.0 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 89.2 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 17 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

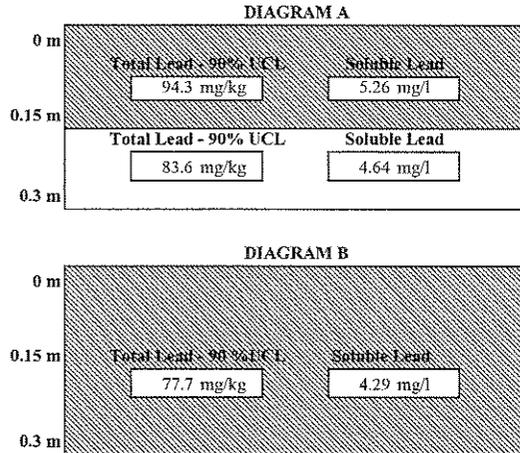
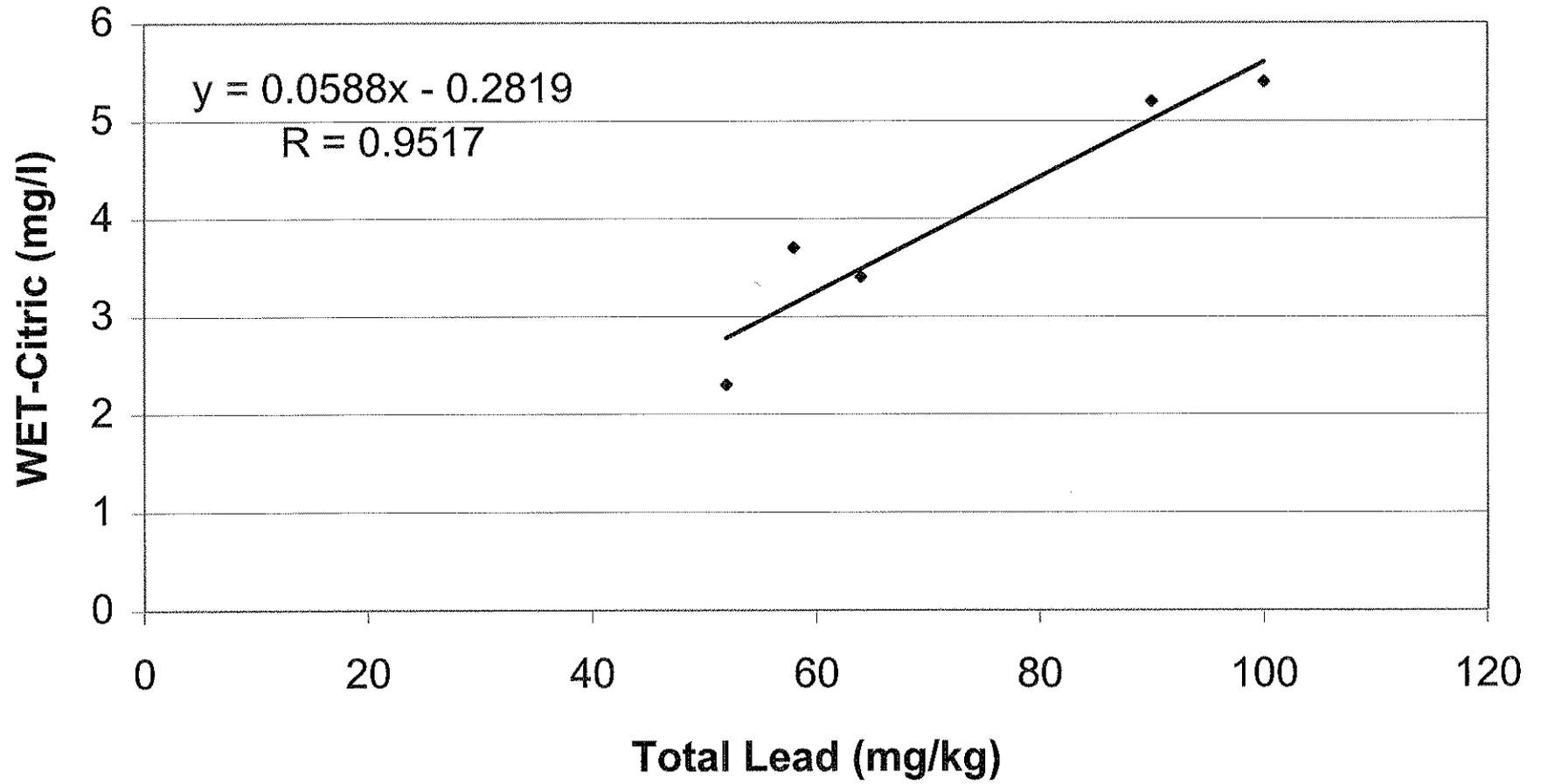


DIAGRAM A -- Separate the top $\frac{0.15 \text{ m}}{\text{section}}$ of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire $\frac{\text{section}}$ as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 94.3 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 83.6 mg/kg.

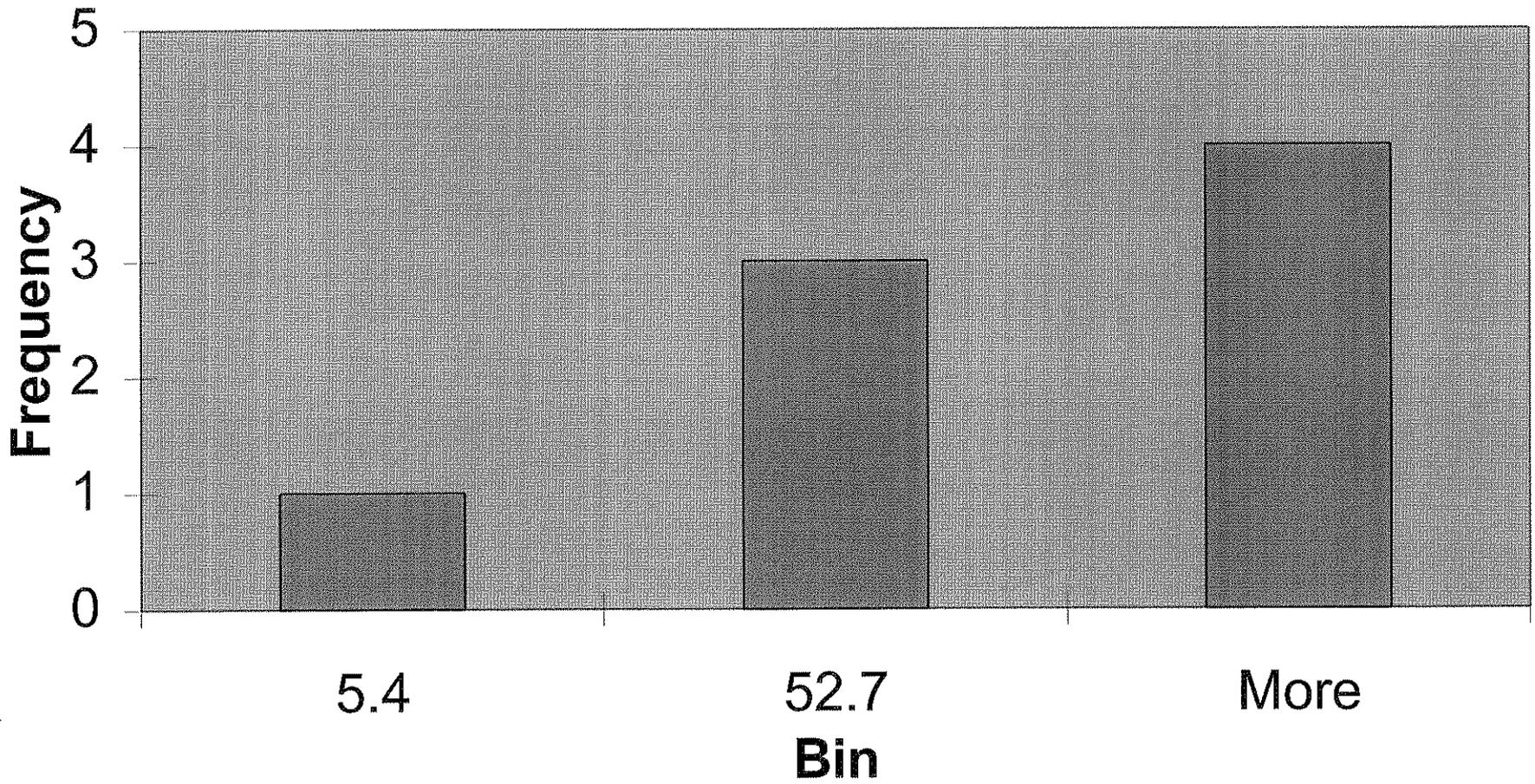
Regression Analysis Group 17

EA 218301



Histogram Group 17

Skewed to right



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 18 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

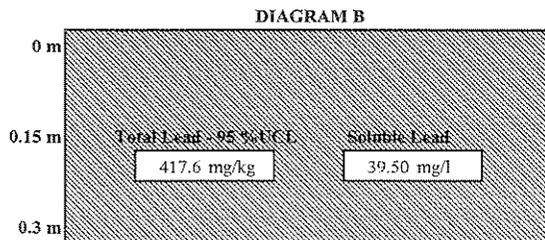
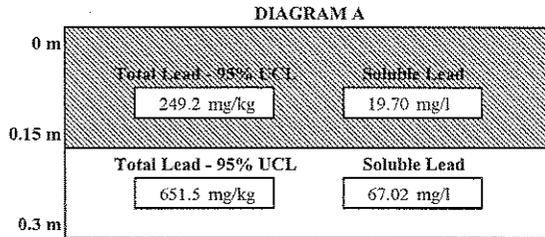


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 249.2 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 651.5 mg/kg.

Task Order Number: 07-218301-QY

Project Name: Route 405

Project No.: 09100-06-57

Group 18 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

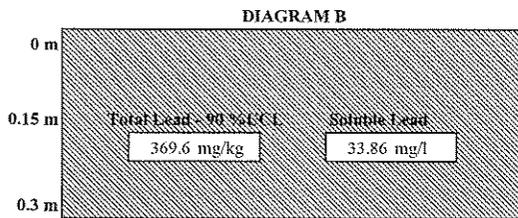
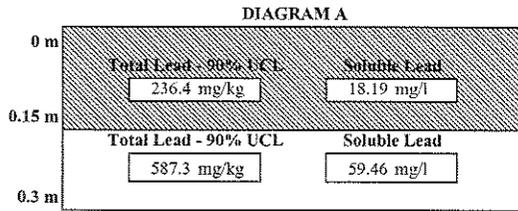


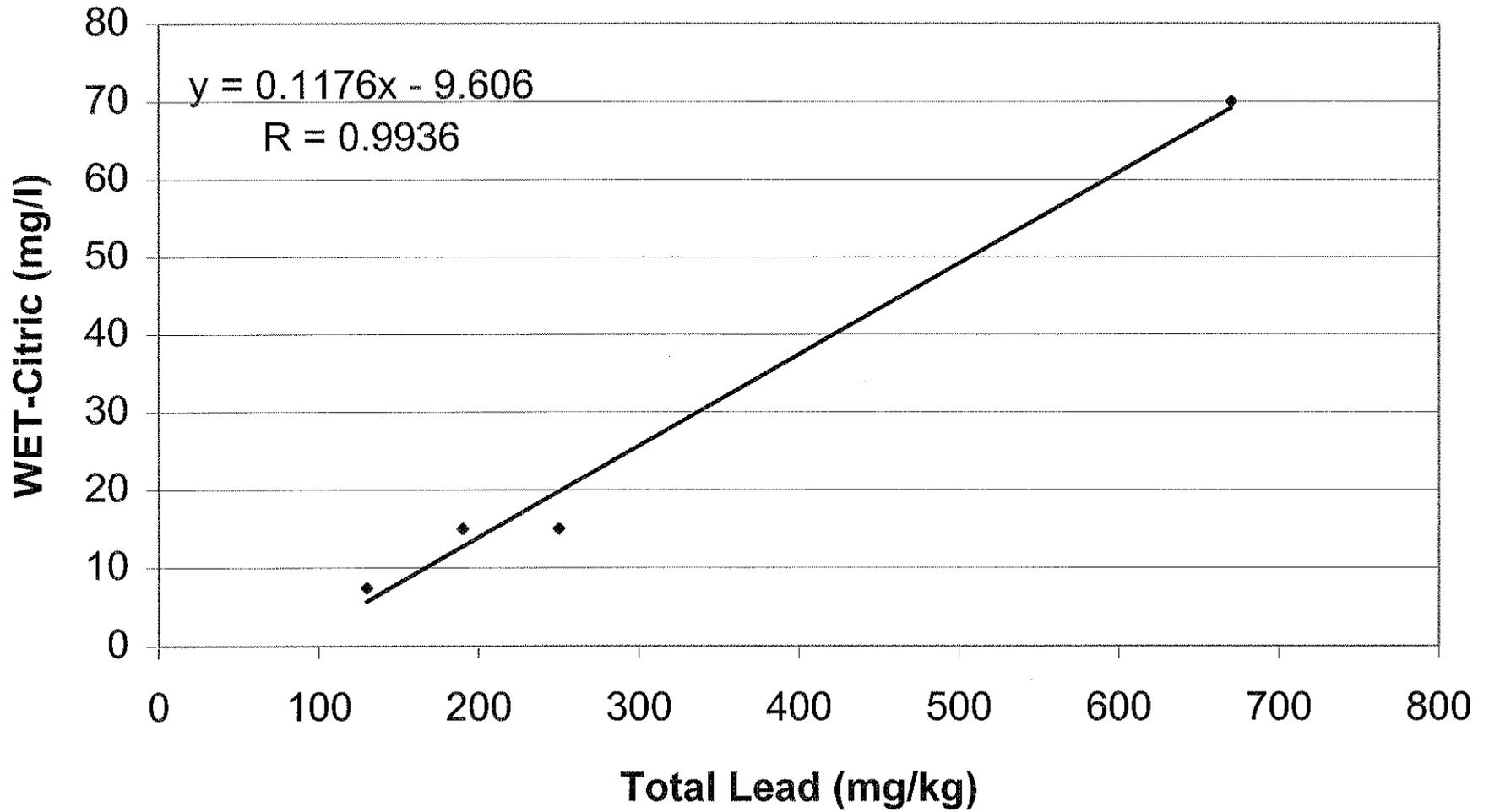
DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil

DIAGRAM B -- Treat the entire section as a single unit

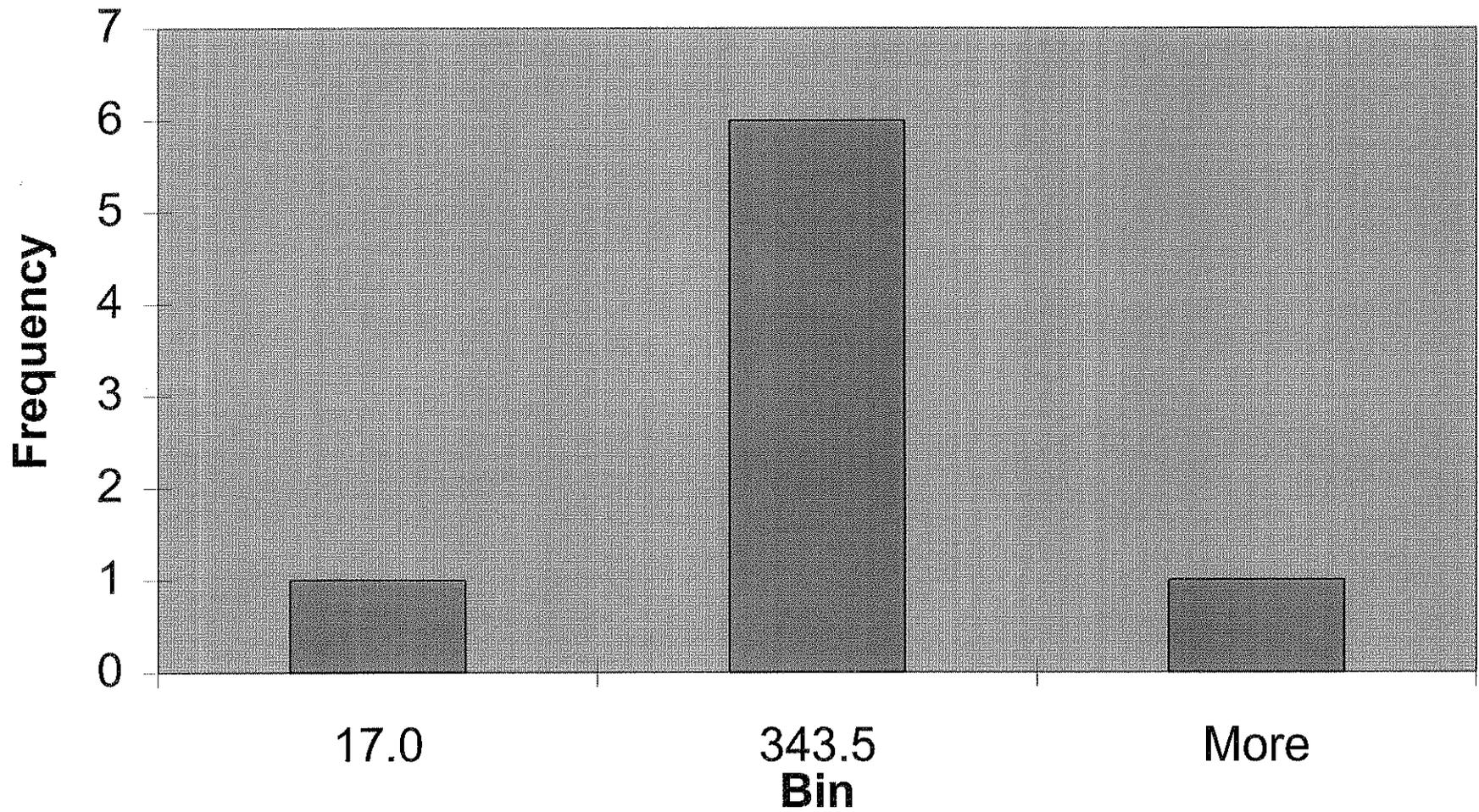
The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 236.4 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 587.3 mg/kg.

Regression Analysis Group 18

EA 218301



Histogram Group 18



Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 19 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

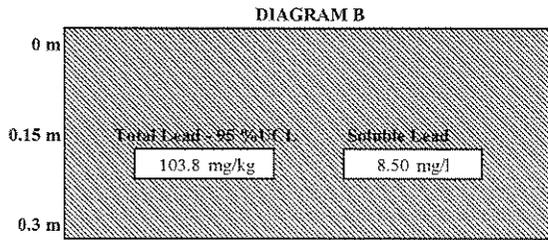
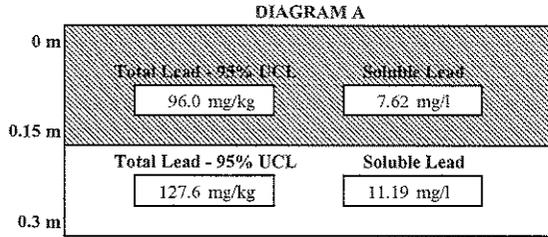


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire

section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 96.0 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 127.6 mg/kg.

Task Order Number: 07-218301-QY

Project Name: Route 405

Project No.: 09100-06-57

Group 19 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

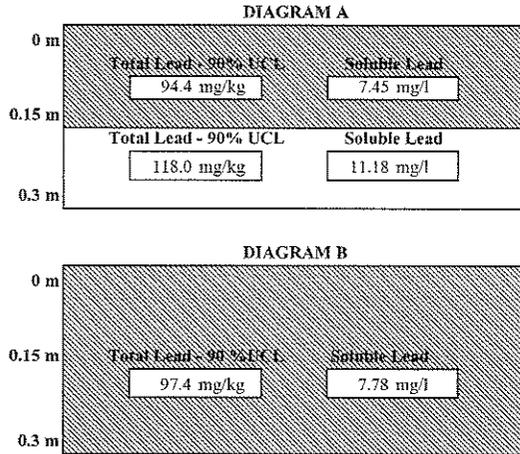


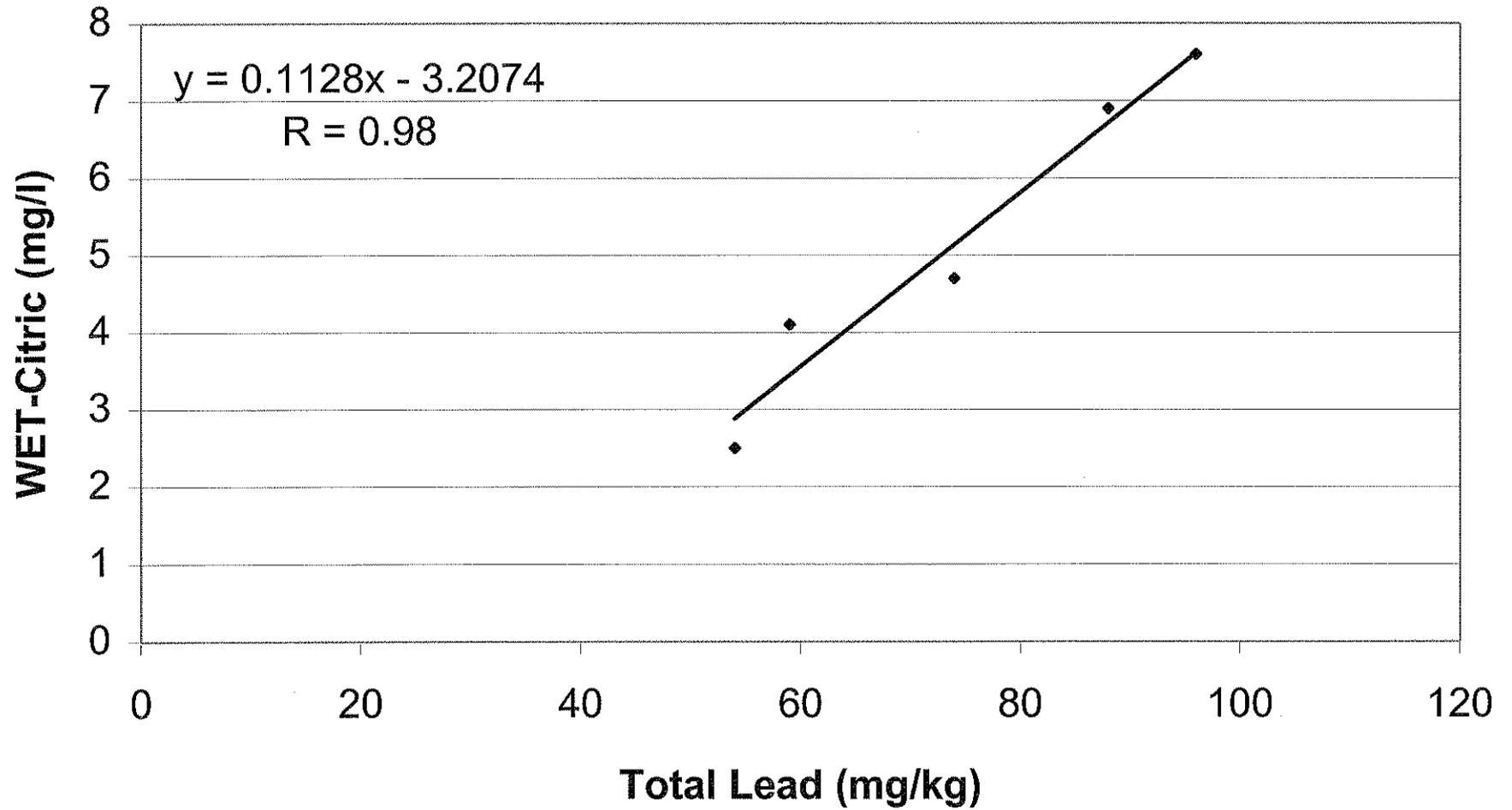
DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil

DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 94.4 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 118.0 mg/kg.

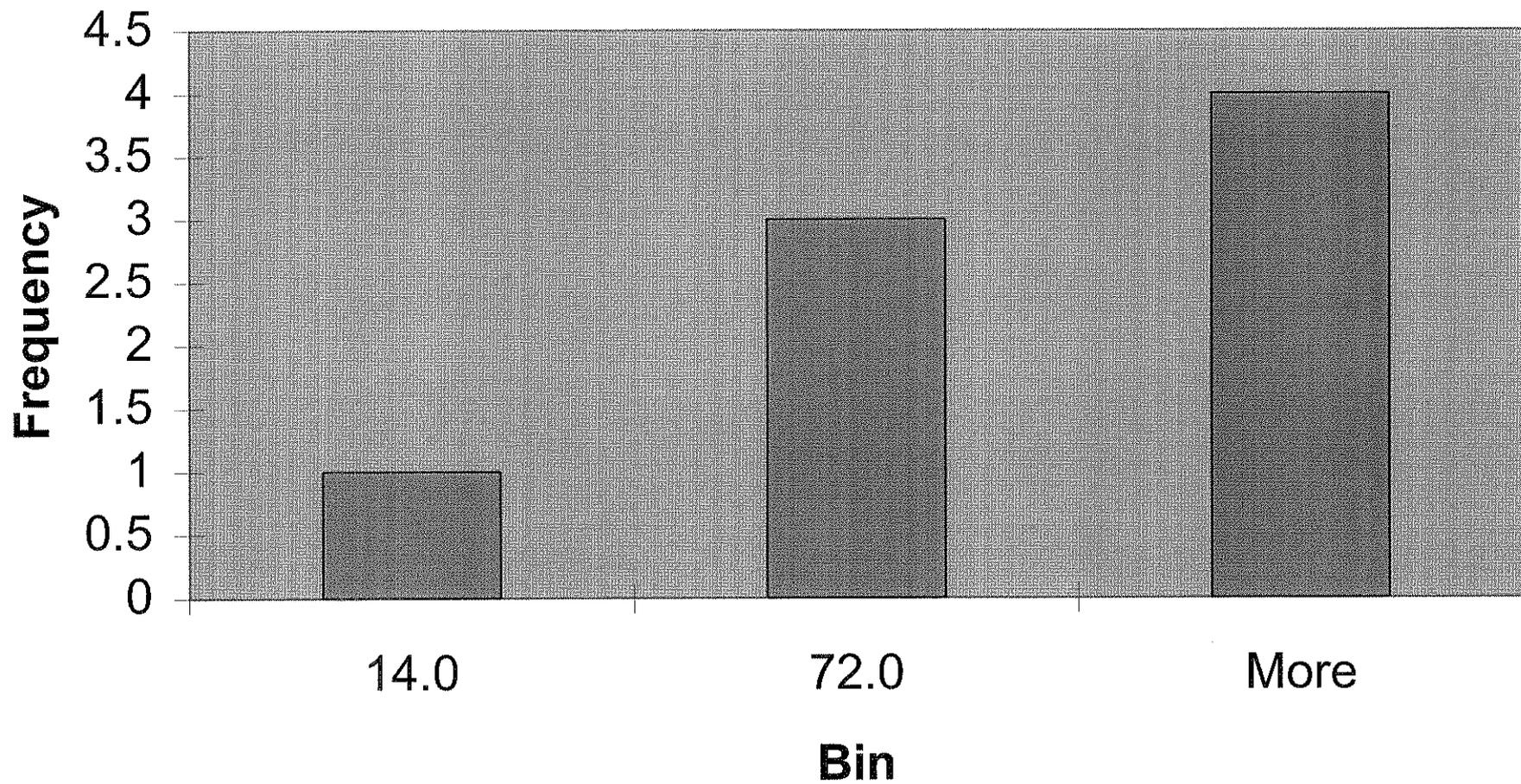
Regression Analysis Group 19

EA 218301



Histogram Group 19

Skewed to right



Task Order Number: 07-218301-QY
Project Name: Route 405
Project No.: 09100-06-57

Group 20 Block Diagrams - One-Tailed 95% UCL for Arcsine Distribution

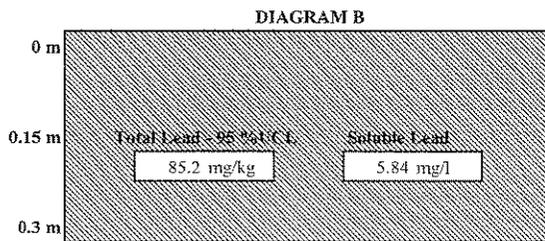
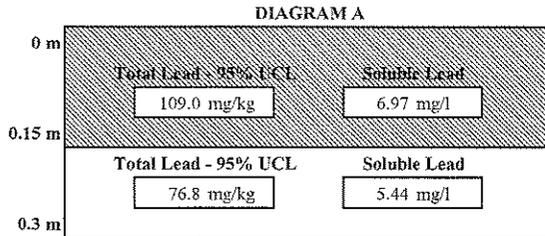


DIAGRAM A -- Separate the top

0.15 m

 of soil from the remaining underlying soil
DIAGRAM B -- Treat the entire

section

 as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 109.0 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 76.8 mg/kg.

Task Order Number: 07-218301-QY
 Project Name: Route 405
 Project No.: 09100-06-57

Group 20 Block Diagrams - One-Tailed 90% UCL for Arcsine Distribution

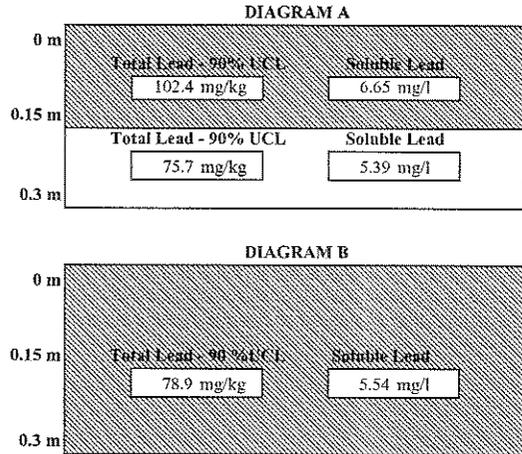
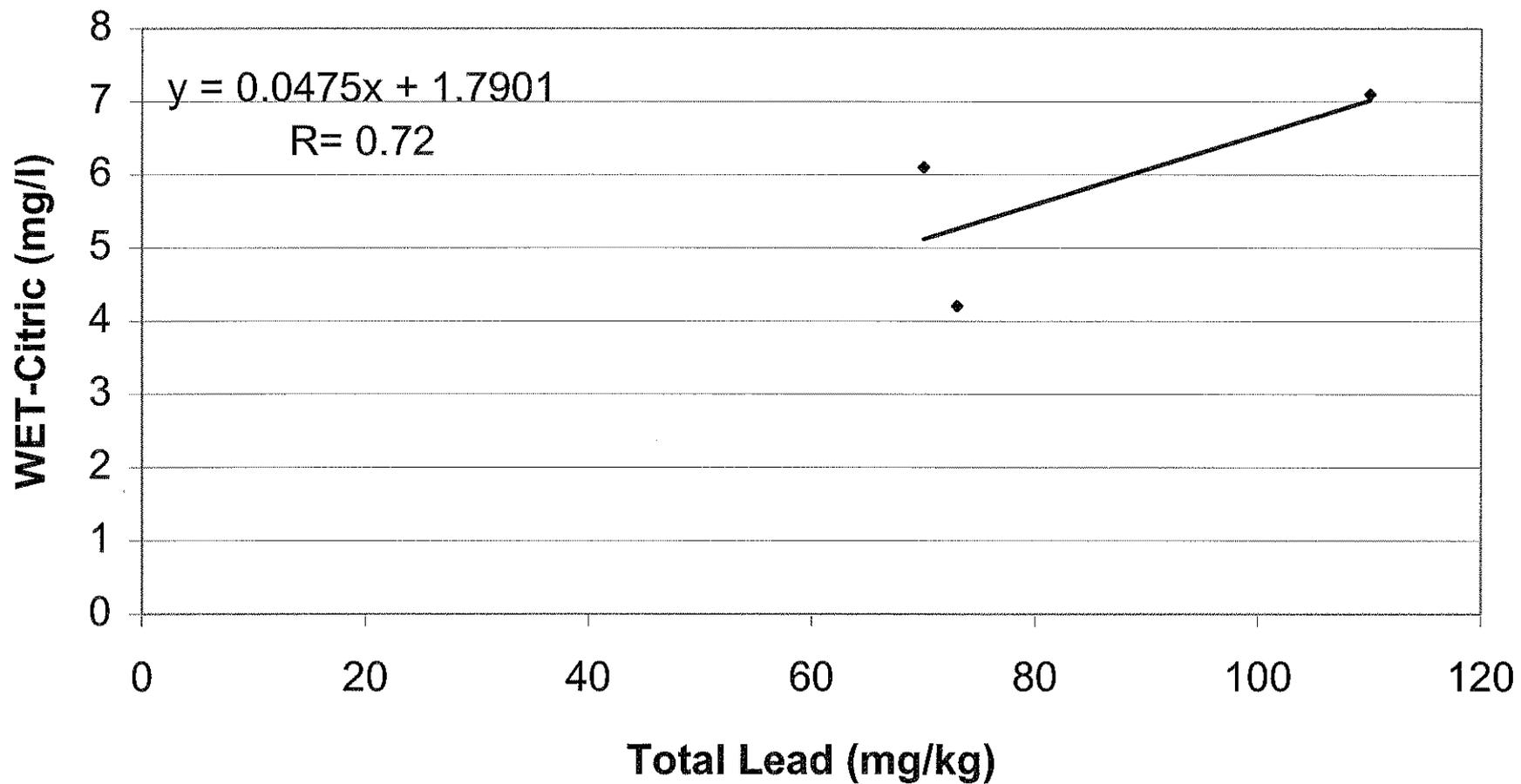


DIAGRAM A -- Separate the top 0.15 m of soil from the remaining underlying soil
 DIAGRAM B -- Treat the entire section as a single unit

The above diagrams show the total and predicted soluble lead concentrations in each grouping of soil depending on how the various levels of soil are segregated. For instance, Diagram A shows a scenario where the top 0.15 m of soil is excavated and kept separate from the underlying soil. In this case, the top 0.15 m of soil would be expected to exhibit a total lead concentration of 102.4 mg/kg. The underlying soil would be expected to exhibit a total lead concentration of 6.65 mg/kg.

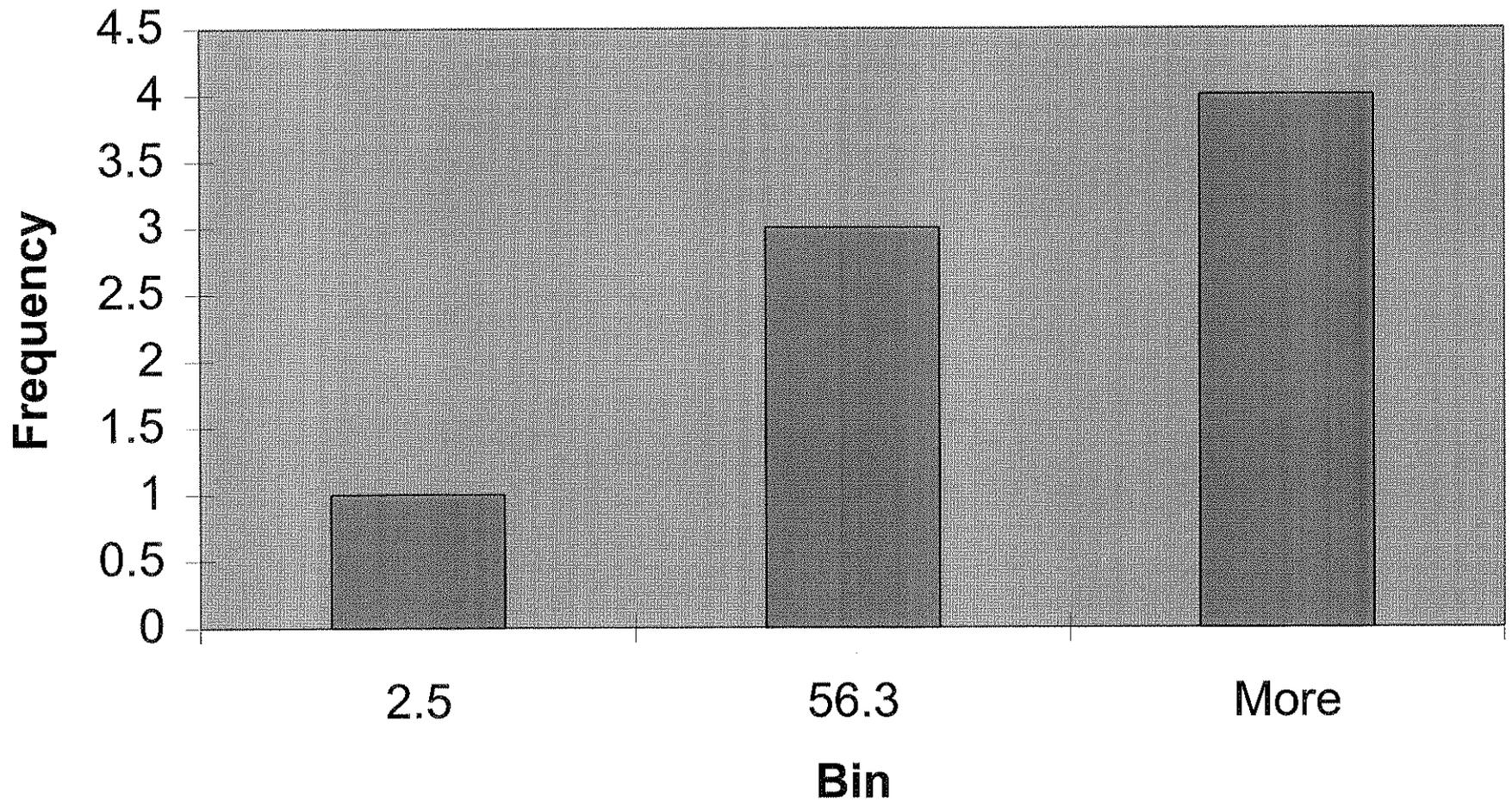
Regression Analysis Group 20

EA 218301



Histogram Group 20

Skewed to right



DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
07	LA	405	31.0/48.6	45	129

Kenneth D. Camp 6/23/94
REGISTERED ELECTRICAL ENGINEER

1-3-95
PLANS APPROVAL DATE



DKS ASSOCIATES
1055 WEST SEVENTH ST., SUITE 2850
LOS ANGELES, CA 90017

IN ASSOCIATION WITH:
KDC ARCHITECTS • ENGINEERS
1055 WEST SEVENTH ST., SUITE 2890
LOS ANGELES, CA 90017

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

PROJECT NOTES: (FOR SHEETS E-2 TO E-21)

- 1 TRENCH AND INSTALL CONDUIT IN ASPHALT.
- 2 TRENCH AND INSTALL CONDUIT IN CONCRETE.
- 3 TRENCH AND INSTALL CONDUIT IN SOIL.
- 4 ATTACH CONDUIT TO STRUCTURE. SEE SHEET C-4 FOR BRIDGE ATTACHMENT TYPE AND DETAILS.
- 5 JACK RIGID STEEL CONDUIT BENEATH ROADWAY.
- 6 COIL 30 FEET OF 6P22 CABLE IN NEW PULL BOX FOR FUTURE COUNT STATION CONTROLLER.
- 7 TERMINATE TWISTED PAIR CABLE AND COIL 60 FEET IN SPLICE VAULT.
- 8 CONNECT 6P22 TO CONTROLLER. USE CONDUIT FROM PB INTO CABINET.
- 9 TERMINATE 12SMFO CABLE AND COIL 60 FEET IN SPLICE VAULT.
- 10 LOCATE SPLICE VAULT 17 FEET FROM EXISTING SHOULDER FOR ANTICIPATED HOV EXPANSION.
- 11 COIL 25 FEET 75P22 CABLE IN SPLICE VAULT FOR ANTICIPATED HOV EXPANSION.
- 12 COIL 25 FEET 12SMFO CABLE IN SPLICE VAULT FOR ANTICIPATED HOV EXPANSION.
- 13 COIL 25 FEET 24SMFO CABLE IN SPLICE VAULT FOR ANTICIPATED HOV EXPANSION.
- 14 LOCATE 6(E) PB 15 FEET FROM EXISTING SHOULDER FOR ANTICIPATED HOV EXPANSION.
- 15 LOCATE 6(T) PB AS CLOSE TO SOUND WALL BASE AS POSSIBLE FOR ANTICIPATED HOV EXPANSION.
- 16 COIL 30 FEET OF 6P22 CABLE IN NEW PB FOR IRRIGATION CONTROLLER CONNECTION.
- 17 COIL 30 FEET OF 6P22 CABLE IN NEW PB FOR TRAFFIC SIGNAL CONTROLLER.
- 18 CORE DRILL THROUGH SOUND WALL TO NEWLY LOCATED PULL BOX BEHIND SOUND WALL. SEE SHEET C-7.
- 19 LOCATE PULL BOX OFF THE PAVED SHOULDER OF THE FREEWAY IN SOIL SURFACE.
- 20 COIL 100 FEET OF 6P22 AND 2SMFO B/O CABLE FOR ANTICIPATED CAMERA LOCATION.
- 21 INSTALL TWISTED PAIR SPLICE CLOSURE ONLY.
- 22 MAINTAIN EXISTING DIAL-UP TELEPHONE SERVICE CABLE BETWEEN TELEPHONE SERVICE POINT AND CONTROLLER CABINET.
- 23 INSTALL TYPE A DETECTOR.
- 24 INSTALL 2" C, 1-DLC.
- 25 ADD 1-DLC IN EXISTING CONDUITS TO RAMP METER CONTROLLER.
- 26 INSTALL CONDUITS IN SAME TRENCH.
- 123 INSTALL 120/240V, 3-WIRE (METERED) TYPE III - BF SERVICE EQUIPMENT ENCLOSURE WITH 100A, 240V, 2P MAIN CIRCUIT BREAKER AND 30A, 120V, 1P CIRCUIT BREAKER FOR TRAFFIC COUNT STATION.
- 124 INSTALL 3" C TYPE H RISER ON SERVICE POLE PER UTILITY COMPANY REQUIREMENT. (CONDUCTORS BY OTHERS).

ABBREVIATIONS:

- B/O - BREAK OUT
- CCR - CAMERA CONTROL RECEIVER
- CCTV - CLOSED CIRCUIT TELEVISION
- COMM - COMMUNICATION
- DACCS - DIGITAL ACCESS CROSS CONNECTION SYSTEM
- DEMARC - DEMARCATION
- DEMUX - DEMULTIPLEX
- DWP - LA DEPARTMENT OF WATER AND POWER
- E/O - ELECTRIC TO OPTIC
- GTE - GENERAL TELEPHONE AND ELECTRIC
- HAR - HIGHWAY ADVISORY RADIO
- JKFD - JACKFIELD
- MUX - MULTIPLEX
- OW - ORDER WIRE (MULTIPLE VOICE CIRCUIT)
- O/E - OPTICAL TO ELECTRIC
- PAC BELL - PACIFIC BELL TELEPHONE COMPANY
- PT&T - PACIFIC TELEPHONE AND TELEGRAPH
- RX - RECEIVER
- SD - SAN DIEGO
- SCE - SOUTHERN CALIFORNIA EDISON
- SCGS - SOUTHERN CALIFORNIA GAS COMPANY
- SCWC - SOUTHERN CALIFORNIA WATER COMPANY
- SM - SINGLEMODE
- SMFO - SINGLEMODE FIBER OPTIC
- T - TERMINATE
- TX - TRANSMITTER
- VMX - VIDEO MULTIPLEXER
- VX - VIDEO TRANSMITTER

GENERAL NOTES:

1. BEFORE REMOVING OR MODIFYING ANY EXISTING ELECTRICAL FACILITIES, THE CONTRACTOR SHALL GIVE 72 HOURS ADVANCE NOTICE IN WRITING TO THE ENGINEER.
2. SERVICE EQUIPMENT ENCLOSURE SHALL BE LOCATED 10' MINIMUM FROM THE POWER POLE OR VAULT.
3. ELECTRICAL SERVICE INSTALLATION SHALL MEET THE REQUIREMENTS OF EITHER SOUTHERN CALIFORNIA EDISON COMPANY (SCE) OR LOS ANGELES DEPARTMENT OF WATER AND POWER (DWP).
4. CONDUCTORS FROM POWER POLE (OR VAULT) TO SERVICE ENCLOSURE WILL BE INSTALLED BY UTILITY COMPANY.
5. TRENCH FOR CONDUIT INSTALLATION BETWEEN POWER POLE (OR VAULT) AND SERVICE ENCLOSURE SHALL BE LEFT OPEN FOR INSPECTION AND APPROVAL BY SCE OR DWP INSPECTOR BEFORE BACKFILL.
6. STENCIL CAMERA IDENTIFICATION NUMBER ON POLE IN 3" CHARACTERS 10 FEET ABOVE BASE. SEE SHEET K1 AND K2.
7. GIVEN STATIONS ARE APPROXIMATE, EXACT EQUIPMENT AND POLE LOCATIONS TO BE DETERMINED BY ENGINEER.

LEGEND

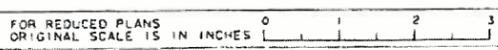
-  CCTV ASSEMBLY CAMERA AND POLE
-  CCTV CAMERA POLE LOCATION
-  SPLICE VAULT
-  EXISTING SPLICE VAULT
-  EXISTING CONTROLLER TO BE TIED TO COMMUNICATION SYSTEM
-  MODEL 170 IN 334 CABINET (RAMP METERING)
-  334 TY CABINET
-  CABLE NODE CABINET (334-TY)
-  PROPOSED POWER SERVICE CONDUIT
-  EXISTING POWER SERVICE CONDUIT
-  PROPOSED RAMP METER SIGNALS
-  EXISTING DETECTOR LOOPS
-  PROPOSED DETECTOR LOOPS
- PP=XXX POWER POLE NUMBER
- XXSMFO SINGLEMODE FIBER OPTIC CABLE SEE SHEET E-81 TO E-83 FOR ASSIGNMENT
- XXP22 XX PAIR COPPER TELEPHONE CABLE SEE SHEET E-69 THROUGH E-76 FOR ASSIGNMENT
- SDXXX CCTV IDENTIFICATION NUMBER: (SD = SAN DIEGO; XXX = POST MILE DESIGNATOR TO ONE DECIMAL PLACE)
- 15 TYPE 15 PULL BOX

AS-BUILT
Contract No. 07-120834
Resident Engineer: *[Signature]*
Completion Date: 09/27/1999

LEGEND AND NOTES

E-1

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION	DESIGN OVERSIGHT	DATE	REVISED BY
Eti Colburn	PAT SULLIVAN	6/94	RL
		6/94	CF
	CHECKED BY		DATE REVISED



LAST REVISION: 00-00-00 TIME PLOTTED -> 14-JAN-1995 07:08

