FOR CONTRACT NO.: 07-3P1604

INFORMATION HANDOUT

MATERIALS INFORMATION

LEAD SITE INVESTIGATION REPORTS

ROUTE: 07-LA-5-24.3

Lead

LA 5
TO # 07-023851-01
KP 42.96 - 58.58

7B01

Prepared By:
Geocon Environmental Consultants
6970 Flanders Drive
San Diego, California 92121-2974
Project No. 08600-06-07A

LA-5 PM 26.7\36.4
SITE INVESTIGATION
TASK ORDER NO. 07-023851-01

SITE INVESTIGATION REPORT

Prepared for:
California Department of Transportation
District 7
Los Angeles, California
Task Order No. 07-023851-01
January 3, 1995

GEOCON
Environmental Consultants Inc.

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

OVERNIGHT DELIVERY

Mr. Oscar Holguin
Hazardous Waste Coordinator
California Department of Transportation
District 7
120 South Spring Street
Los Angeles, California 90012-3606

Subject: LA-5 PM 26.7/36.4 PROJECT
TASK ORDER NO. 07-023851-01
EA NO. 12180K
SITE INVESTIGATION REPORT

Dear Mr. Holguin:

In accordance with Caltrans Contract No. 53W202 and Task Order No. 07-023851-01, Geocon Environmental Consultants (GEC) has performed environmental engineering services at the subject property. The property consists of sections of the Caltrans LA-5 PM 26.7/36.4 which extends from south of Burbank Boulevard (north of Magnolia Boulevard) to the Tujunga Wash in the County of Los Angeles, California.

The accompanying report summarizes the services performed including the excavation of fifty-one hand auger borings, limited soil sampling, and laboratory testing.

If there are any questions concerning the contents of this report, or if GEC may be of further service, please contact the undersigned at your convenience.

Very truly yours,

GEOCON ENVIRONMENTAL CONSULTANTS

James E. Likins
Contract Manager

Christopher G. Schmitt
Environmental Scientist

Marget Lane
Chemical Engineer

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Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

EXECUTIVE SUMMARY

The objective of this Task Order was to excavate a total of 51 hand auger soil borings, collect soil samples at selected intervals, perform laboratory analysis, and provide recommendations of possible mitigation measures and cost estimates for the measures recommended.

A total of 143 soil samples were collected at 0.5 (0.15 meters), 1.5 (0.46 meters), 3.0 (0.914 meters) and 5.0 feet bgs for analysis of total lead by EPA Test Method 6010 and 2 soil samples for analysis of Total Recoverable Petroleum Hydrocarbons (TRPH) by EPA Test Method 418.1. Soil Samples analyzed for lead that exhibited a total lead concentration greater than 50 milligrams per kilogram (mg/kg) and less than 1,000 mg/kg were subjected to the Waste Extraction Test (WET) for soluble lead content. In addition, four randomly selected soil samples which exhibited a soluble lead concentration greater than 5.0 mg/l soluble lead were also subjected to the WET using deionized water.

The following information summarizes the activities performed, conclusions, and recommendations.

Site 1 - Buena Vista Boulevard to Hollywood Boulevard

- 117 soil samples were collected from 40 boreholes.
- The following table summarizes the percentage of soil samples that exhibit hazardous concentrations of lead based upon laboratory analysis:

SAMPLE DEPTH (ft.)	NUMBER OF SAMPLES	NUMBER OF SAMPLES WITH HAZARDOUS LEVELS OF LEAD	PERCENTAGE OF HAZARDOUS SAMPLES
0 to 0.5	40	27	70
0.5 to 1.5	40	27	70
1.5 to 3.0	20	9	50
3.0 to 5.0	17	7	40

- The following table summarizes the estimated volumes of soil greater than the STLC.

EXCAVATION DEPTH (ft.)	ESTIMATED VOLUME OF SOIL	COST OF SOIL DISPOSAL
Shoulder Widening and Soundwall: 0 - 0.5 ft.	1,734 tons (1,020 m^3)	$295,000 to $321,000
Shoulder Widening and Soundwall: 0.5 - 2 ft.	4,854 tons (2,855 m^3)	$825,180 to $898,000
CIDH Boreholes (15 feet X 14 inches)	959 tons (543 m^3)	$163,030 to $178,000
ESTIMATED TOTAL VOLUME	7,547 tons (4,439 m^3)	$1.3 to $1.4 million

- The remedial alternative of excavation and reuse as backfill within the project limits is recommended. It is recommended that contaminated soil from the project limits be used as backfill beneath hard cover (approximately 1 foot of asphalt/concrete) in the areas denoted on Figures 3 and 4 and beneath soft cover in other areas.

Site 2 - Burbank Boulevard

- 14 soil samples were collected from 5 boreholes.
- The following table summarizes the percentage of soil samples that exhibit hazardous concentrations of lead based upon laboratory analysis:

SAMPLE DEPTH (ft.)	NUMBER OF SAMPLES	NUMBER OF SAMPLES WITH HAZARDOUS LEVELS OF LEAD	PERCENTAGE OF HAZARDOUS SAMPLES
0 to 0.5	5	4	80
0.5 to 1.5	5	2	40
1.5 to 3.0	2	1	50
3.0 to 5.0	2	1	50

- The following table summarizes the estimated volumes of soil greater than the STLC.

SAMPLE DEPTH (ft.)	ESTIMATED VOLUME OF SOIL GREATER THAN STLC (tons)	ESTIMATED COST OF DISPOSAL
0 to 0.5	376 (221 m^3)	$63,900 to $70,000
0.5 to 2	601 (354 m^3)	$102,200 to $111,200
Total Estimated Volume	977 (575 m^3)	$166,100 to $181,000

- The remedial alternative of excavation and reuse as backfill within the project limits is recommended. It is recommended that contaminated soil from the project limits be used as backfill beneath soft cover (approximately 1 foot of "clean" fill soils) to reduce project costs.

- Two soil samples were collected from two locations that GEC observed dark brown to black discolored soils indicative of a possible release of petroleum hydrocarbons in proximity to the Burbank Boulevard LA-5 onramp. The two soil samples were collected at 0.5 feet bgs and were analyzed for TRPH following EPA Test Method 418.1. The laboratory reports indicate concentrations of 59 mg/kg and 148 mg/kg, respectively. It is recommended that these areas be excavated and stockpiled at the site during construction and be disposed of into a Class III landfill.

Site 3 - Tujunga Wash Area

- 12 soil samples were collected from 4 boreholes.

- The following table summarizes the percentage of soil samples that exhibit hazardous concentrations of lead based upon laboratory analysis:

SAMPLE DEPTH (ft.)	NUMBER OF SAMPLES	NUMBER OF SAMPLES WITH HAZARDOUS LEVELS OF LEAD	PERCENTAGE OF HAZARDOUS SAMPLES
0 to 0.5	4	4	100
0.5 to 1.5	4	1	25
1.5 to 3.0	2	0	0
3.0 to 5.0	2	1	50

- The following table summarizes the estimated volumes of soil greater than the STLC.

EXCAVATION DEPTH	ESTIMATED VOLUME OF SOIL	COST OF SOIL DISPOSAL
Differential Elevation Lane Widening: 0 - 0.5 ft.	173 tons (102 m^3)	$29,500 to $32,005
Differential Elevation Lane Widening: 0.5 - 2 ft	174 tons (102.3 m^3)	$29,600 to $32,200
ESTIMATED TOTAL VOLUME	348 tons (205 m^3)	$59,200 to $65,000

- The remedial alternative of excavation and reuse as backfill within the project limits is recommended. It is recommended that contaminated soil from the project limits be used as backfill beneath soft cover (approximately 1 foot of "clean" fill soils) to reduce project costs.

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

SITE INVESTIGATION REPORT

INTRODUCTION

This site investigation report has been prepared in accordance with Caltrans Contract 53W202 and Caltrans Task Order (TO) No. 07-023851-01, EA No. 12180K. The services performed included the excavation of 51 hand auger borings at three site locations of LA-5 in the County of Los Angeles, California. The approximate location of the site is presented on Figure 1, Vicinity Map, and Figures 2 through 7, Site Plans.

The site occupies three separate sampling locations of the LA-5 Freeway; Site 1 encompasses approximately 3,000 feet of northbound shoulder and 3,000 feet of southbound shoulder of LA-5 between Buena Vista Boulevard and Hollywood Way (between stations 931 and 964), Site 2 occupies approximately 1,300 feet of the southbound shoulder of LA-5 in proximity to the Burbank Boulevard overcrossing (between stations 835 and 848), and Site 3 occupies approximately 600 feet of the median at the area of Tujunga Wash.

PROJECT DESCRIPTION

The project included the excavation of 51 hand auger borings: 40 borings were excavated at Site 1; 5 borings were excavated for lead analysis and two borings were excavated for TRPH analysis at Site 2; and 4 borings were excavated at Site 3. The purpose of the Project is to conduct a site investigation of sections of the LA-5 Freeway PM 26.7/36.4 in the County of Los Angeles, California to aid in the determination of the potential presence of lead impacted soils

related to the use of leaded gasoline in vehicles prior to 1980. The location of the bore holes excavated by GEC were determined by Caltrans prior to the initiation of the field activities. Soil samples were collected at 0.5, 1.5, 3.0, and 5.0 feet bgs and were subjected to chemical analysis for total lead following EPA Test Method 7420.

Purpose and Objectives

The purpose of the environmental engineering services performed by GEC was to estimate the vertical extent of soils impacted with lead from vehicle exhaust emitted on sections of the LA 5 (PM 26.7/36.4) Freeway when lead was utilized as a gasoline additive. The information obtained from the limited soil sampling and laboratory testing will be used to estimate the volume of lead impacted soil at the proposed construction locations and prepare a cost estimate of potential remedial alternatives.

Land Ownership

It is understood that the project location is within the Caltrans right-of-way at the center divider and shoulders of the LA-5 in Los Angeles County, California.

Site Geology

Soil conditions noted at the site during the field activities indicated that the site is comprised of fill soils consisting of cobble, sand, and silty sand. In addition, conversation with Mr. Nili indicates that soil conditions at the site consist of fill soils to the proposed maximum depth of

exploration, approximately 5.0 feet bgs. The fill soils were reportedly placed at the time the freeway was originally constructed.

Scope of Work

The work requested by Caltrans, as outlined in TO 07-023851-01, has been previously outlined above. The approximate location of the boreholes excavated by GEC are presented on Figures 2 through 7. The soil samples collected by GEC were relinquished to Advanced Technologies Laboratories (ATL), a state-certified hazardous waste testing laboratory, for laboratory analysis.

The procedures and methods used by GEC to complete this TO are outlined in the following Geocon Standard Operating Procedures (SOPs):

SOP No. 01 - Hand Augering Pre-Field Procedures
SOP No. 11 - Hand Augering and Soil Sample Collection Procedures
SOP No. 31 - Soil Sample Handling and Analytical Procedures
SOP No. 41 - Reporting Procedures

The above-referenced SOPs are presented as Appendix A.

INVESTIGATIVE METHODS

Task Order Meeting

A Task Order meeting was conducted on October 28, 1994, with Mr. Jim Likins and Mr. Christopher Schmitt of GEC and Mr. Ali Nili and Mr. Oscar Holguin of Caltrans at the offices of Caltrans. The meeting included discussion of Task Order No. 07-023851-01; the

approximate location of the proposed boreholes, health and safety, traffic control to be provided to GEC workers by Caltrans, and the proposed completion schedule.

Health and Safety Plan

In accordance with the TO, a Health and Safety Plan was prepared by GEC. The Health and Safety Plan was provided to outline recommendations for personal protective equipment for GEC workers in the field during the performance of the soil sampling activities. A Health and Safety Plan dated October 27, 1994, was prepared for the site and submitted to Mr. Nili for review.

Utility Clearance

On November 4, 1994, a representative of GEC contacted Underground Service Alert (USA) of Southern California to advise utility companies of the onsite field activities. GEC was provided with USA Ticket No. 876733.

HAND AUGERING AND SOIL SAMPLING

Rationale of Boring Placement

At the request of Mr. Nili, GEC excavated boreholes at areas where construction activities were to be performed. These areas have been identified by Caltrans as areas that potentially contain detectable concentrations of lead. As previously referenced, boring locations have been illustrated on Figures 2 through 7.

Field Activities

The excavation activities were performed using a hand held 3-inch diameter stainless steel auger. The hand auger was advanced to an initial sample depth of approximately 0.5 feet. GEC collected relatively undisturbed soil samples from the hand auger and placed the soil sample into glass jars supplied by the laboratory. GEC repeated the procedure and collected a soil sample from depths of 1.5, 3.0, and 5.0 feet.

At the request of Mr. Nili, the boreholes were backfilled to surface grade with soil cuttings generated during the excavation activities. The sampling equipment was cleansed and rinsed prior to the collection of each soil sample by washing the equipment with a trisodium phosphate solution followed by subsequent tap water and deionized water rinses.

Sample labels were placed on the outside of the jar to indicate the job name, date, sample number and name of the person performing sampling. Each sample jar was placed into a cooler for transport to ATL subsequent to each sampling effort.

Laboratory Analytical Methods

Soil samples obtained were analyzed for total lead following EPA Test Method 7420. Soil samples which exhibited concentrations of total lead greater than 50 mg/kg were also analyzed for soluble lead following the WET (EPA 7000 Series Test Method). In addition, four randomly selected soil samples were analyzed by the WET using deionized water for extraction.

INVESTIGATIVE RESULTS AND FIELD OBSERVATIONS

Site Geology

Soil encountered during the excavation of the boreholes consisted of sand and silty sand from the ground surface to the maximum depth explored, approximately 5.0 feet. Groundwater was not encountered during the GEC field activities. It is estimated that the depth to groundwater for the site vicinity is less than 100 feet (30.5 meters) bgs.

Field Observations

Field observations, site conditions, and notes of memoranda are presented in the Project Log sheets utilized during the onsite field activities and are presented as Appendix B.

Soil Analytical Results

A summary of the analytical results of the soil samples obtained by GEC are presented as Tables I through IV. A reproduction of the laboratory report and chain of custody documentation are presented as Appendix C. Volume estimates of soil impacted with total lead greater than the TTLC and soluble lead greater than the STLC for each site are presented as tables below and the calculations used to obtain the volume estimates for each depth sampled are presented as Appendix D. In addition, statistical calculations have been performed and are presented as Tables V through XV.

The following information summarizes the analytical results of the soil samples analyzed.

Site 1

- 117 soil samples were collected from 40 boreholes.
- 19 soil samples, approximately 16%, exhibited concentrations of total lead greater than 1,000 mg/kg.
- Seventy-eight (78) soil samples were analyzed for soluble lead by the WET. Fifty-three (53) soil samples, approximately 68%, exhibited concentrations of soluble lead greater than 5.0 mg/l.
- Four soil samples were analyzed by the WET utilizing deionized water for extraction. Three of the four samples exhibited concentrations of soluble lead less than the DTSC limit of 500 micrograms per liter (ug/l) and one sample (HA29-1) exhibited a soluble lead concentration of 550 ug/l.
- The following table summarizes the percentage of soil samples that exhibit hazardous concentrations of lead based upon laboratory analysis:

SAMPLE DEPTH (ft.)	NUMBER OF SAMPLES	NUMBER OF SAMPLES WITH HAZARDOUS LEVELS OF LEAD	PERCENTAGE OF HAZARDOUS SAMPLES
0 to 0.5	40	27	70
0.5 to 1.5	40	27	70
1.5 to 3.0	20	9	50
3.0 to 5.0	17	7	40

Site 2

- 14 soil samples were collected from 5 boreholes. Three sampling locations were Type A and two sampling locations were Type B.
- Two soil samples, approximately 14%, exhibited concentrations of total lead greater than 1,000 mg/kg.

- Seven soil samples were analyzed for soluble lead by the WET. Six soil samples, approximately 86%, exhibited concentrations of soluble lead greater than 5.0 mg/l.

- The following table summarizes the percentage of soil samples that exhibit hazardous concentrations of lead based upon laboratory analysis:

SAMPLE DEPTH (ft.)	NUMBER OF SAMPLES	NUMBER OF SAMPLES WITH HAZARDOUS LEVELS OF LEAD	PERCENTAGE OF HAZARDOUS SAMPLES
0 to 0.5	5	4	80
0.5 to 1.5	5	2	40
1.5 to 3.0	2	1	50
3.0 to 5.0	2	1	50

- In addition, two soil samples were collected at approximately 0.5 feet bgs from two locations that representatives of GEC observed dark brown to black discolored soils indicative of a possible release of petroleum hydrocarbons in proximity to the Burbank Boulevard LA-5 on-ramp. The two soil samples were analyzed for TRPH following EPA Test Method 418.1. The laboratory reports indicate concentrations of 59 mg/kg and 148 mg/kg, respectively. It is recommended that these areas be excavated and stockpiled at the site during construction and be disposed of into a Class III landfill.

Site 3

- 12 soil samples were collected from 4 boreholes. Two sampling locations were Type A and two sampling locations were Type B.

- Eight (8) soil samples were analyzed for soluble lead by the WET. Six soil samples, approximately 75%, exhibited concentrations of soluble lead greater than 5.0 mg/l.

- The following table summarizes the percentage of soil samples that exhibit hazardous concentrations of lead based upon laboratory analysis:

SAMPLE DEPTH (ft.)	NUMBER OF SAMPLES	NUMBER OF SAMPLES WITH HAZARDOUS LEVELS OF LEAD	PERCENTAGE OF HAZARDOUS SAMPLES
0 to 0.5	4	4	100
0.5 to 1.5	4	1	25
1.5 to 3.0	2	0	0
3.0 to 5.0	2	1	50

Data Validation

Prior to submitting the soil samples to the laboratory, the chain-of-custody documentation was reviewed for accuracy and completeness. The laboratory report of the soil samples analyzed was reviewed for accuracy (i.e., units of concentration in mg/kg) and consistency with chain-of-custody documentation. The matrix-spikes and duplicates were reviewed to ensure the laboratory results are within tolerance control limits. Based upon the above validation process, the data quality is adequate for the purposes of this report.

CONCLUSIONS AND RECOMMENDATIONS

Estimate of Lead Impacted Soil Volume

According to Mr. Nili of Caltrans, the proposed activities will occupy the area from the edge of the existing pavement to a distance of approximately 12 feet in width. The impacted soil volume estimations and assumptions used to estimate the soil volumes are presented below.

Site 1: The proposed activities for Site 1 will include shoulder-widening activities in conjunction with soundwall construction. Based on conversations with Caltrans Engineers and on information obtained by GEC, the following assumptions have been used for soil volume calculations.

- 100% of the soil at Site 1 is impacted to 0.5 feet bgs.
- 70% of the soil at Site 1 is impacted from 0.5 to 2 feet bgs.
- Depth of the proposed shoulder widening/soundwall excavation activities is 2 feet.
- Width of the proposed shoulder widening/soundwall construction activities is 12 fee .
- For the purposes of calculating CIDH volumes, it is assumed that the distance between each borehole is 5 feet, the depth of each borehole is 15 feet bgs, and the radius of each borehole is 7 inches.

Approximately 7,547 tons of soil are impacted with hazardous levels of lead to a depth of 2 feet within project boundaries.

Site 2: The proposed activities for Site 2 will include construction of a CHP Enforcement area. Based on conversations with Caltrans Engineers and on information obtained by GEC the following assumptions have been used for soil volume calculations.

- 100% of the soil at Site 2 is impacted to 0.5 feet bgs.
- Width of the proposed CHP Enforcement construction area is 12 feet.
- Percent of soil impacted at 2 feet bgs is equal to percent of soil impacted at 1.5 feet bgs, 40%.
- Depth of CHP Enforcement Area excavation activities is 2 feet bgs.

Approximately 977 tons of soil are impacted with hazardous levels of lead to a depth of 2 feet within project boundaries. In addition, two soil samples were analyzed for TRPH following EPA Test Method 418.1 and laboratory reports indicate concentrations of 59 mg/kg and 148 mg/kg, respectively.

Site 3: The proposed activities for Site 3 will include a differential elevation lane widening construction/continuation of a HOV lane. Based on conversations with Caltrans Engineers and on information obtained by GEC the following assumptions have been used for soil volume calculations.

- 100% of the soil at Site 3 is impacted to 0.5 feet bgs.
- Width of the proposed differential elevation lane widening construction area is approximately 12 feet.
- Depth of excavation for the proposed lane widening/HOV lane continuation is 2 feet bgs.

Approximately 348 tons of soil are impacted with hazardous levels of lead to a depth of 2 feet within project boundaries.

Discussion of Remediation Options

Based upon the information obtained from the results of the laboratory analysis of the soil samples collected by GEC, the following remedial alternatives are available.

- Excavation and disposal to a landfill facility.
- Excavation, fixation, and replacement of soil.
- Excavation as required for construction purposes and replacement of soil in accordance with the DTSC Variance at the site or for use at another Caltrans project in proximity to the site.

Excavation and Disposal

This method would involve the over excavation of the identified lead impacted soil and transportation of the soil to a permitted Class I or II landfill for proper disposal. The advantage of this method is that it could be performed in conjunction with the proposed construction activities at the LA-5 PM 26.7/36.4. The disadvantage of this method is the cost to perform these activities would range from approximately $ '0 to $185 per ton. The total estimated volum : and remediation cost for Site 1, 2, and 3 is approximately 8,900 tons of soil ; an approximate cost of $ .5 to $1.7 million

Excavation and Fixation

This method would involve the excavation of the impacted soil. The soil would be relocated to a staging area where the soil is mixed with a cement or asphalt additive. Prior to curing of the mixture, the soil is placed back into the excavation as engineered fill material. This alternative is not recommended due to the staging area necessary and the physical constraints of the site.

Discussion of DTSC Variance

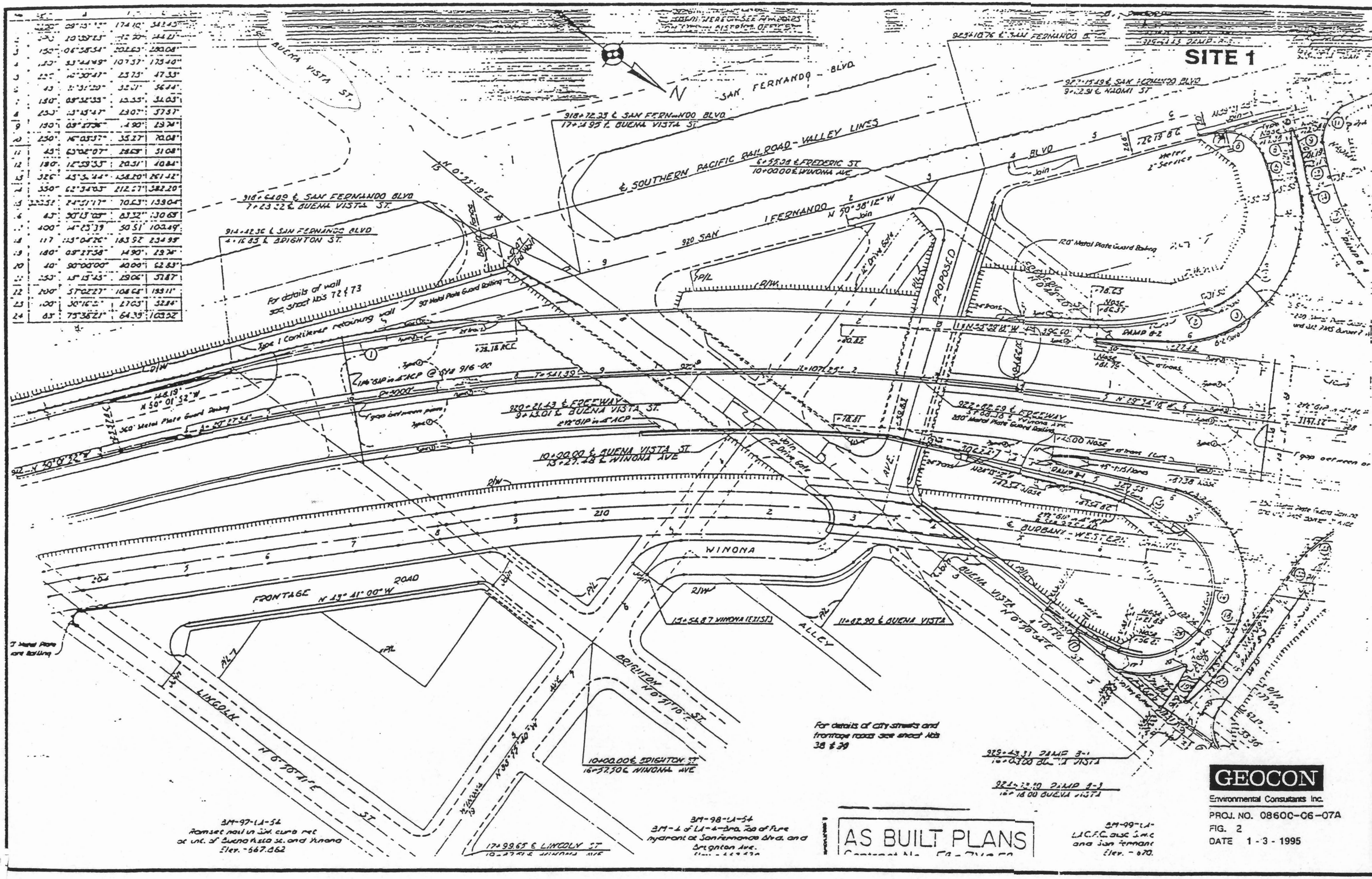
A proposed variance written by the DTSC for Transportation Districts 3, 4, 7, 11, and 12 on the use of lead impacted soils as fill materials states that lead-impacted soil is considered hazardous waste if the concentration of lead in the soil is greater than 1,000 mg/kg Total Lead and/or greater than 500 μg/l soluble lead utilizing deionized water extraction. Reuse conditions for the utilization of soils that meet this criteria are:

- If the impacted soils exhibit concentrations of Total Lead less than 1,550 mg/kg and/or less than 500 micrograms per liter (μg/l) dissolved lead, then a one-foot cover of non-hazardous soil over the impacted soils is accepted by the DTSC.
- If the impacted soils exhibit concentrations of Total Lead less than 2,920 mg/kg and/or greater than 500 μg/l dissolved lead, then the placement of these soils as fill under paved areas is acceptable by the DTSC.

Therefore, provisions of this variance would apply to the overexcavation and burial of soils at the sites which exhibit detectable concentrations of lead as stated herein.

Over Excavation and Burial. This method would involve the excavation of soil as required for construction activities. The soil would be reused as backfill within the project limits and placed beneath at least one foot of clean soil or beneath the asphalt/concrete of the proposed lane widening area as applicable. The advantage of this method is that the cost for Class I or II landfill disposal would be eliminated. Costs associated with this method would be minimized to the time and materials necessary for health and safety, DTSC oversight and requirements, over-excavation, backfilling, and compaction.

Further site investigation pertaining to potential lead impacts from vehicle exhaust emission in the soil at the proposed LA-5 PM 26.7/36.4 project boundaries are not warranted at this time.



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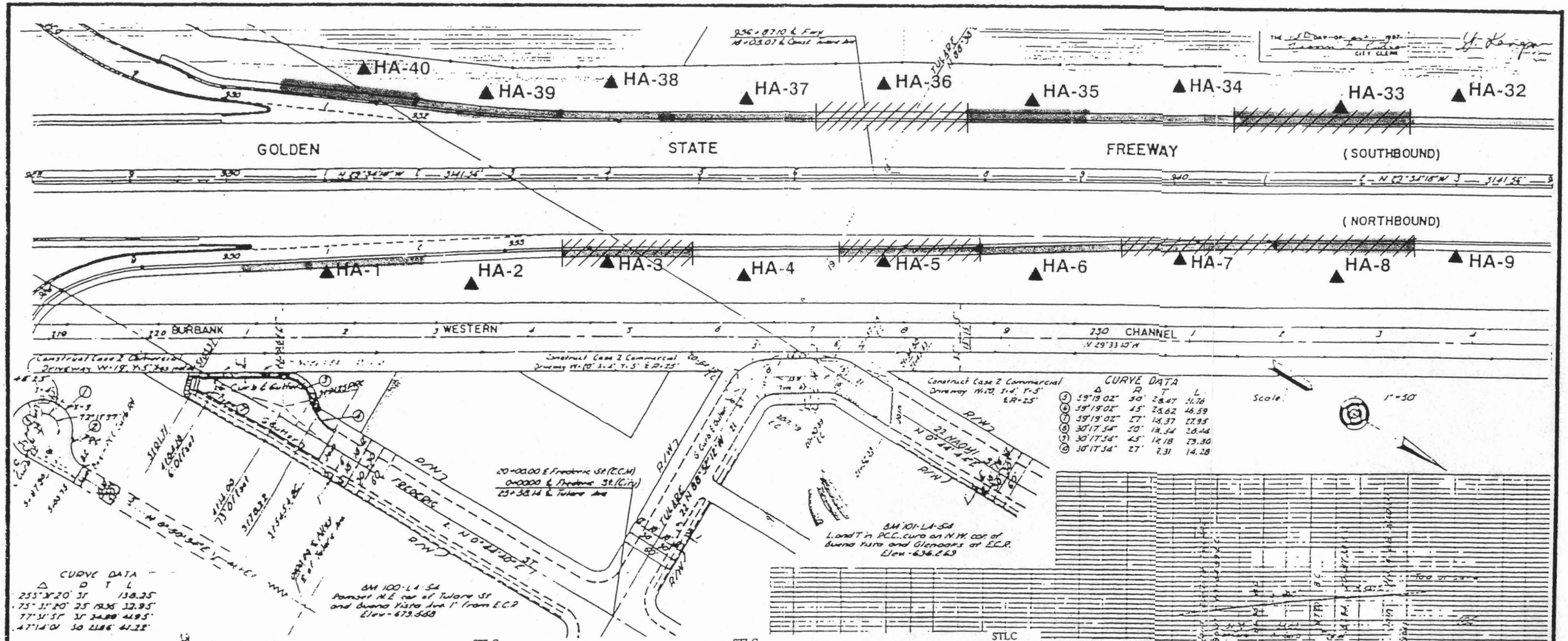
PROJ. NO. 0860C-06-07A

FIG. 2

DATE 1 - 3 - 1995



SAMPLE ID	DEPTH	TTLC	STLC	DI WATER
HA1-1	0.5	1,450	—	
HA1-2	1.5	125	9.9	
HA2-1	0.5	473	38	
HA2-2	1.5	191	8.9	
HA2-3	3	40	—	
HA2-4	5	64	33	
HA3-1	0.5	27	—	
HA3-2	1.5	1650	—	
HA4-1	0.5	114	72	
HA4-2	1.5	176	10	
HA4-3	3	22	—	
HA4-4	5	198	10	

SAMPLE ID	DEPTH	TTLC	STLC	DI WATER
HA5-1	0.5	146	10	
HA5-2	1.5	2,600	—	
HA6-1	0.5	358	211	
HA6-2	1.5	458	25	
HA6-3	3	72	3.5	
HA6-4	5	14	—	
HA7-1	0.5	2,550	—	
HA7-2	1.5	748	59	
HA8-1	0.5	4,160	—	
HA8-2	1.5	69	3.8	
HA8-3	3	69	3.4	
HA8-4	5	56	1.7	
HA9-1	0.5	83	3.5	
HA9-2	1.5	19	—	

SAMPLE ID	DEPTH	TTLC	STLC	DI WATER
HA32-1	0.5	1,400	—	
HA32-2	1.5	294	11	
HA32-3	3	70	3.4	
HA32-4	5	302	7.2	
HA33-1	0.5	1,950	—	
HA33-2	1.5	177	4.5	
HA34-1	0.5	915	3.8	
HA34-2	1.5	400	2.4	
HA34-3	3	336	11	
HA34-4	5	441	6.5	

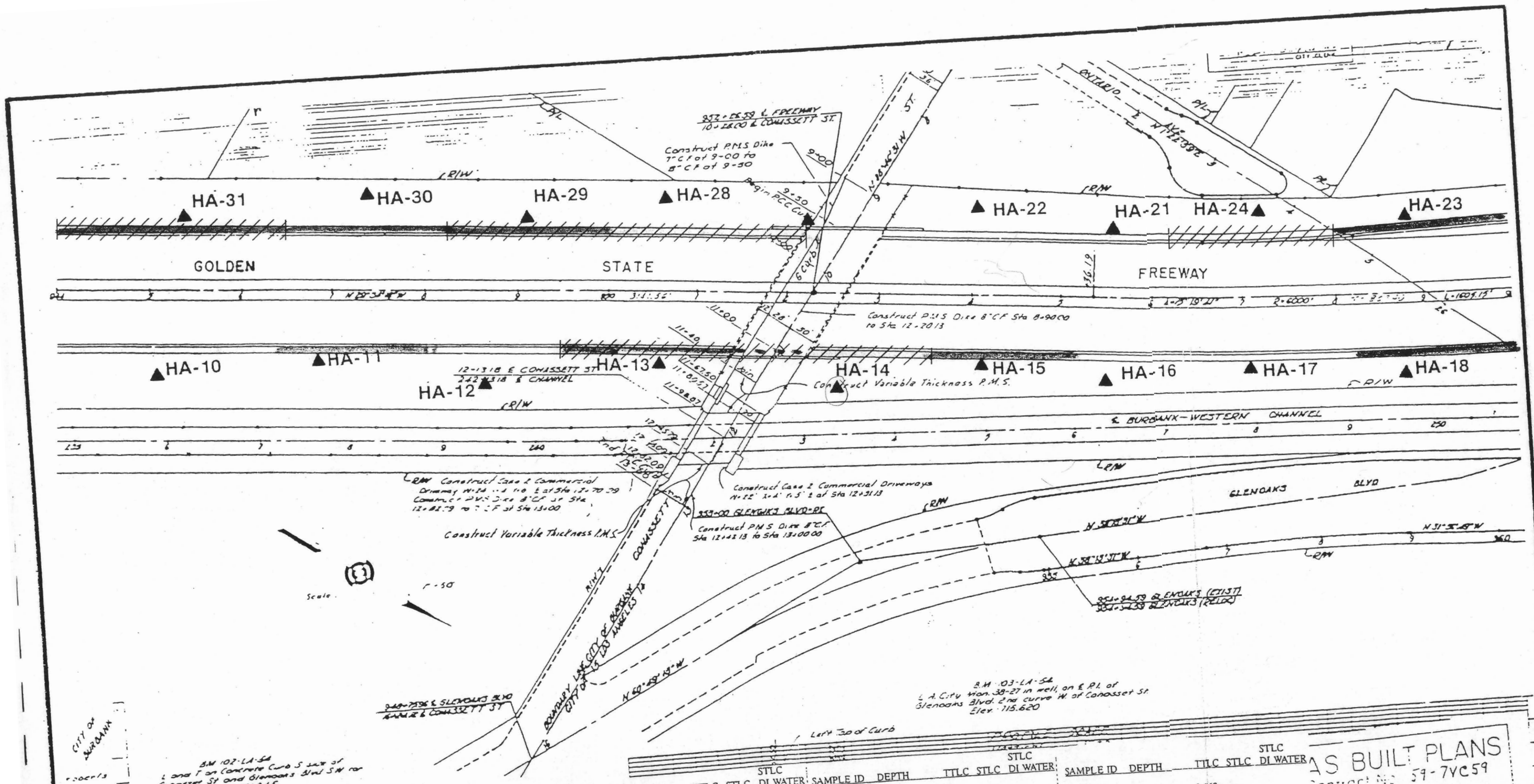
SAMPLE ID	DEPTH	TTLC	STLC	DI WATER
HA35-1	0.5	1,245	—	
HA35-2	1.5	62	2.2	
HA36-1	0.5	2,110	—	
HA36-2	1.5	69	4.6	
HA36-3	3	113	6.6	
HA37-1	0.5	790	1.6	
HA37-2	1.5	350	5.5	
HA38-1	0.5	826	20	
HA38-2	1.5	274	11	
HA38-3	3	23	—	
HA38-4	5	10	—	

SAMPLE ID	DEPTH	TTLC	STLC	DI WATER
HA39-1	0.5	1,540	—	
HA39-2	1.5	1,190	—	
HA40-1	0.5	1,400	—	
HA40-2	1.5	29	—	
HA40-3	3	11	—	
HA40-4	5	34	—	

LANS
7YC59
00366

REV NO.	DATE	REVISION	REV'D	APP'D
1	3-3-95	This Dwg. replaces Dwgs. File Nos. 68782 thru 68783		

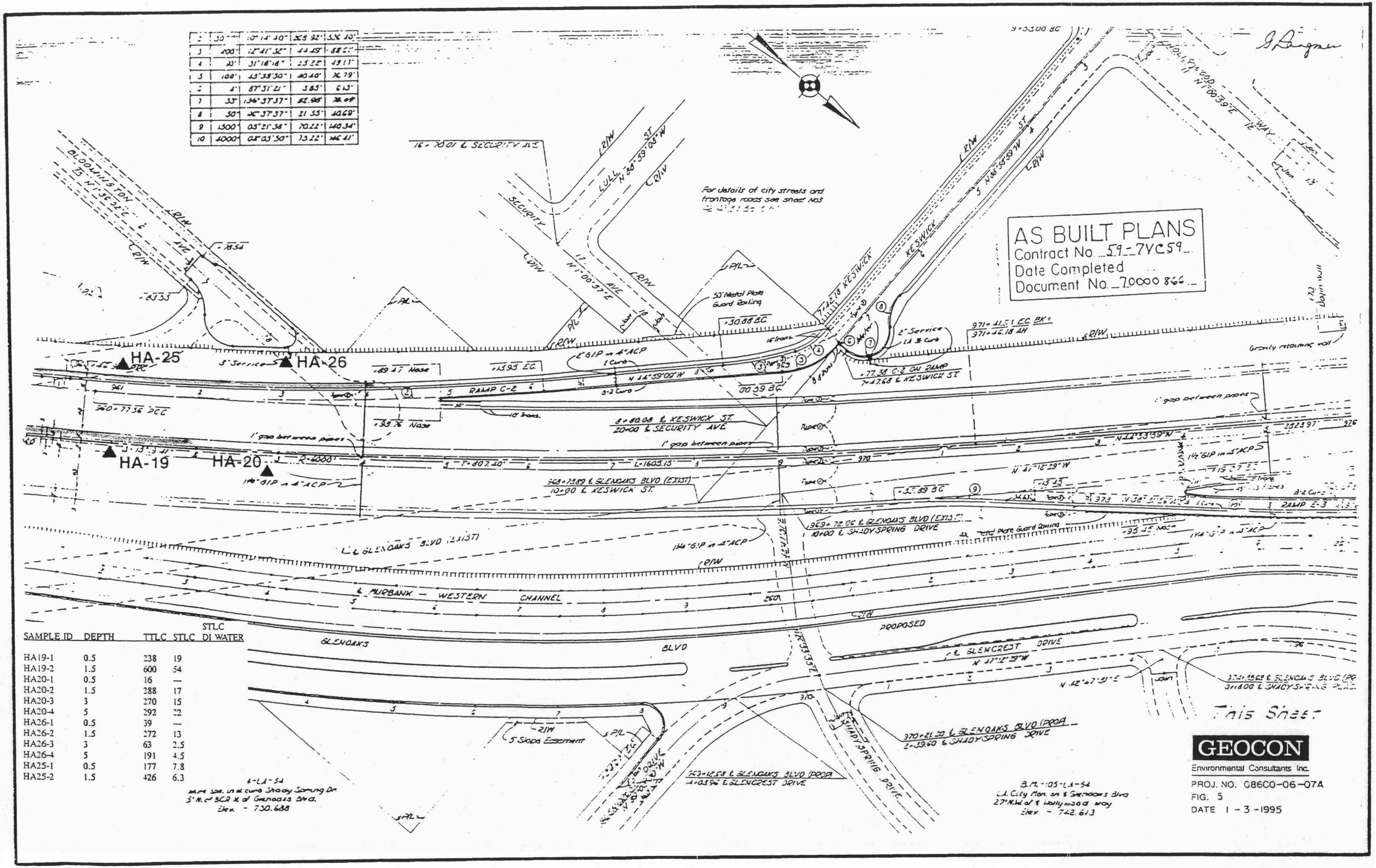
GEOCON
Environmental Consultants Inc.
PROJ. NO. 08600-06-07A
FIG. 3
DATE 1-3-1995



SAMPLE ID	DEPTH	TTLC	STLC	DI WATER
HA10-1	0.5	310	4.1	
HA10-2	1.5	74	5.6	
HA10-3	3	33	—	
HA10-4	5	61	30	
HA11-1	0.5	116	25	
HA11-2	1.5	323	35	
HA12-1	0.5	337	2.1	
HA12-2	1.5	289	4.2	
HA12-3	3	469	29	
HA13-1	0.5	2,720	—	
HA13-2	1.5	377	33	
HA14-1	0.5	2,810	—	
HA14-2	1.5	183	16	
HA14-3	3	282	16	
HA14-4	5	56	5.5	
HA15-1	0.5	958	78	
HA15-2	1.5	68	21	
HA16-1	0.5	185	23	
HA16-2	1.5	102	5.4	
HA16-3	3	216	33	
HA16-4	5	17	—	
HA17-1	0.5	12	—	
HA17-2	1.5	8.5	—	
HA18-1	0.5	17	—	
HA18-2	1.5	553	30	
HA18-3	3	170	3.2	
HA18-4	5	63	2.1	
HA21-1	0.5	94	3.3	
HA21-2	1.5	115	2.7	
HA22-1	0.5	1,320	—	
HA22-2	1.5	281	11	
HA22-3	3	432	6.5	
HA22-4	5	46	—	
HA23-1	0.5	91	3.0	
HA23-2	1.5	168	6.3	
HA24-1	0.5	2,070	—	
HA24-2	1.5	49	—	
HA24-3	3	213	8.2	
HA28-1	0.5	2,360	—	
HA28-2	1.5	250	8.4	
HA28-3	3	442	8.9	
HA28-4	4	359	11	
HA29-1	0.5	516	66	
HA29-2	1.5	33	—	
HA30-1	0.5	970	35	
HA30-2	1.5	775	16	
HA30-3	3	154	1.7	
HA30-4	4	147	4.1	
HA31-1	0.5	1,860	—	
HA31-2	1.5	150	4.5	

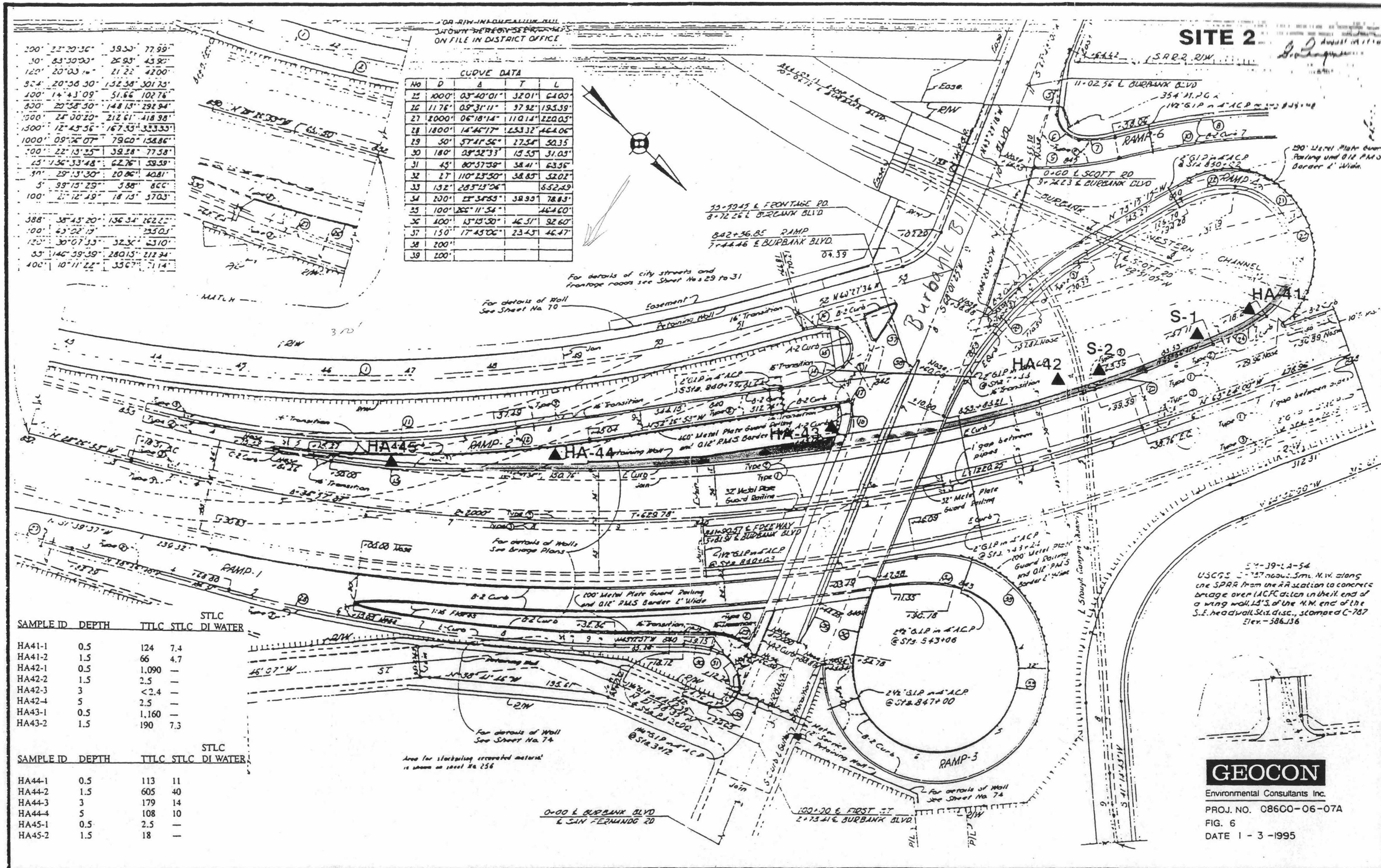
AS BUILT PLANS
Contract No. 59-7YC59
Date Completed
Document No. 70000 866

GEOCON
Environmental Consultants Inc.
PROJ. NO. 08600-06-C7A
FIG. 4
DATE 1-3-1995



SAMPLE ID	DEPTH	TTLC	STLC	STLC DI WATER
HA19-1	0.5	238	19	
HA19-2	1.5	600	54	
HA20-1	0.5	16	—	
HA20-2	1.5	288	17	
HA20-3	3	270	15	
HA20-4	5	292	22	
HA26-1	0.5	39	—	
HA26-2	1.5	272	13	
HA26-3	3	63	2.5	
HA26-4	5	191	4.5	
HA25-1	0.5	177	7.8	
HA25-2	1.5	426	6.3	

GEOCON
Environmental Consultants Inc.
PROJ. NO. 08600-06-07A
FIG. 5
DATE 1 - 3 -1995



SAMPLE ID	DEPTH	TTLC	STLC	STLC DI WATER
HA41-1	0.5	124	7.4	
HA41-2	1.5	66	4.7	
HA42-1	0.5	1,090	—	
HA42-2	1.5	2.5	—	
HA42-3	3	<2.4	—	
HA42-4	5	2.5	—	
HA43-1	0.5	1,160	—	
HA43-2	1.5	190	7.3	

SAMPLE ID	DEPTH	TTLC	STLC	STLC DI WATER
HA44-1	0.5	113	11	
HA44-2	1.5	605	40	
HA44-3	3	179	14	
HA44-4	5	108	10	
HA45-1	0.5	2.5	—	
HA45-2	1.5	18	—	

GEOCON
Environmental Consultants Inc.
PROJ. NO. 08600-06-07A
FIG. 6
DATE 1 - 3 -1995

SITE 3

Mar. 27, 1961

BM-129-LA-54
L.L.T. & B.C.2 of N. curb of Tonopah St. @ N.E. corner of int. of Tonopah St. & First St. S.W. of Freeway
Elev. 853.770

BM-128-LA-54
Domset in P.C.C. curb on N. side of Tonopah St. 2° S.W. of E.C.2 of S.W. corner Tonopah St. & Cranford Ave.
Elev. 860.215

VII-LA-4-L.A.
CONTRACT No. 62-7
C.C.O. NO. 17
Sheet 9 of 19

GEOCON
Environmental Consultants Inc.
PROJ. NO. 08600-06-07A
FIG. 7
DATE 1 - 3 - 1995

CURVE DATA				
No.	R	Δ	T	L
1	1200'	14°15'52"	150.15'	298.75'
2	1952'	09°35'53"	163.69'	326.99'
3	1000'	09°02'59"	79.14'	157.35'
4	2000'	14°31'55"	621.62'	1205.39'
5	500'	08°53'07"	38.85'	77.54'
6	500'	08°53'07"	38.85'	77.54'
7	700'	44°01'51"	283.06'	537.94'

CURVE DATA				
No.	R	Δ	T	L
8	1800'	65°18'31"	1155.55'	2051.75'
9	2000'	54°12'34"	1023.66'	1892.27'
10	2000'	06°16'27"	109.67'	219.01'
11	30'	264°15'39"		230.61'
12	30'	84°15'39"		73.59'
13	30'	264°15'38"		230.61'
14	30'	84°15'38"		73.59'

SAMPLE ID	DEPTH	TTLC	STLC	DI WATER
HA46-1	0.5	98	5.9	
HA46-2	1.5	32	—	
HA47-1	0.5	80	6.8	
HA47-2	1.5	59	5.3	
HA47-3	3	94	4.6	
HA47-4	5	125	9.8	
HA48-1	0.5	606	50	
HA48-2	1.5	72	4.4	
HA49-1	0.5	93	5.7	
HA49-2	1.5	3.0	—	
HA49-3	3	6.0	—	
HA49-4	5	35	—	

Project No. 08600-06-07A
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January 3, 1994

TABLE I

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 1

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA1-1	0.5	S	5	NW	11-7-94	1,450	---
HA1-2	1.5	S	5	NW	11-7-94	125	9.9
HA2-1	0.5	S	12	NW	11-7-94	473	38
HA2-2	1.5	S	12	NW	11-7-94	191	8.9
HA2-3	3	S	12	NW	11-7-94	40	---
HA2-4	5	S	12	NW	11-7-94	64	33
HA3-1	0.5	S	5	NW	11-7-94	27	---
HA3-2	1.5	S	5	NW	11-7-94	1650	---
HA4-1	0.5	S	12	NW	11-7-94	114	72
HA4-2	1.5	S	12	NW	11-7-94	176	10

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TABLE I (continued)

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 1

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA4-3	3	S	12	NW	11-7-94	22	---
HA4-4	5	S	12	NW	11-7-94	198	10
HA5-1	0.5	F	5	NW	11-7-94	146	10
HA5-2	1.5	F	5	NW	11-7-94	2,600	---
HA6-1	0.5	S	12	NW	11-7-94	358	211
HA6-2	1.5	S	12	NW	11-7-94	458	25
HA6-3	3	S	12	NW	11-7-94	72	3.5
HA6-4	5	S	12	NW	11-7-94	14	---
HA7-1	0.5	F	5	NW	11-7-94	2,550	---
HA7-2	1.5	F	5	NW	11-7-94	748	59
HA8-1	0.5	S	12	NW	11-7-94	4,160	---

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TABLE I (continued)

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 1

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

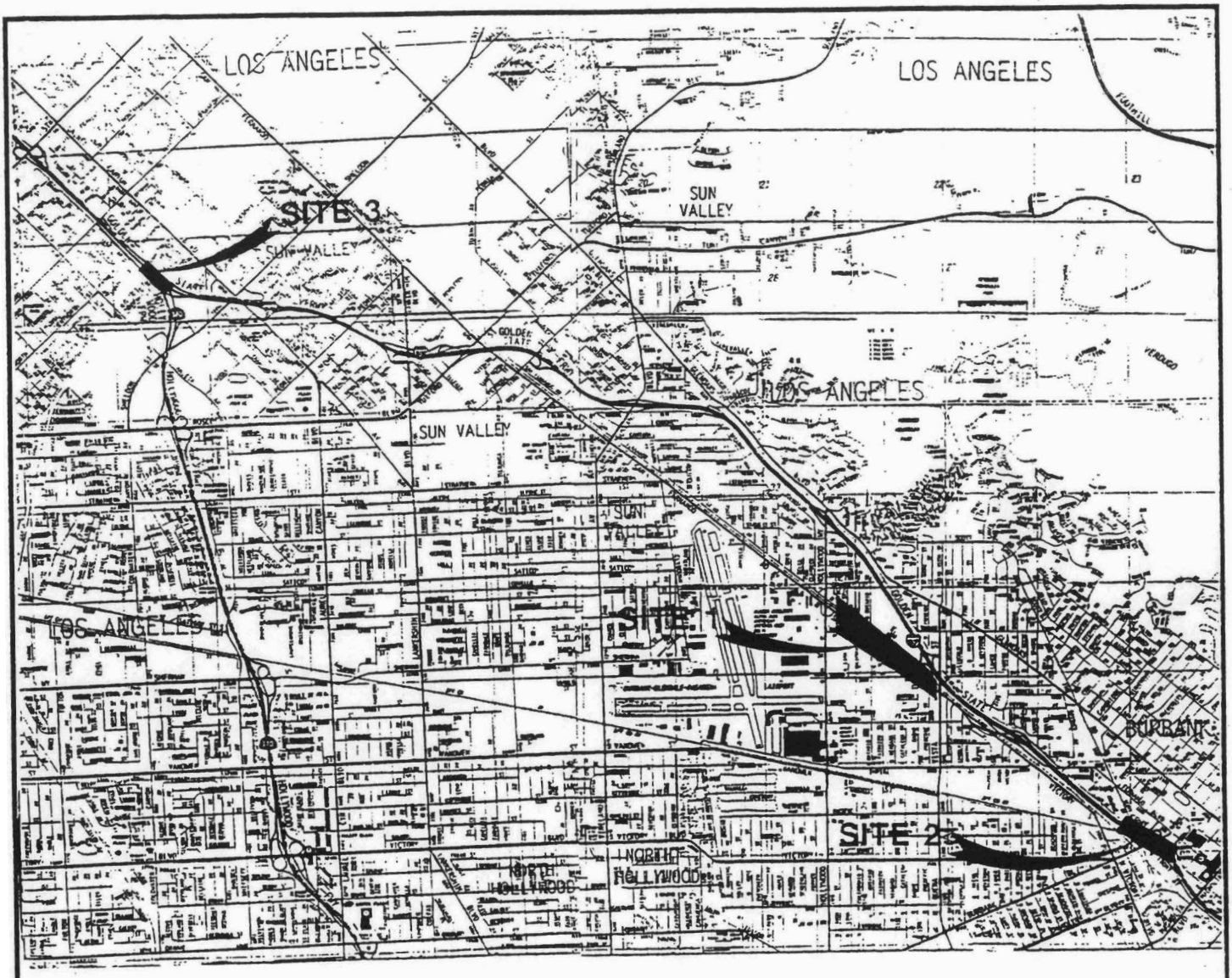
SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA8-2	1.5	S	12	NW	11-7-94	69	3.8
HA8-3	3	S	12	NW	11-7-94	69	3.4
HA8-4	5	S	12	NW	11-7-94	56	1.7
HA9-1	0.5	F	5	NW	11-7-94	83	3.5
HA9-2	1.5	F	5	NW	11-7-94	19	---
HA10-1	0.5	S	12	NW	11-7-94	310	4.1
HA10-2	1.5	S	12	NW	11-7-94	74	5.6
HA10-3	3	S	12	NW	11-7-94	33	---
HA10-4	5	S	12	NW	11-7-94	61	30
HA11-1	0.5	F	5	NW	11-7-94	116	25
HA11-2	1.5	F	5	NW	11-7-94	323	35

REPORT LIMITATIONS

This report has been prepared exclusively for Caltrans. The information obtained is only relevant for the dates of the records reviewed or 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 Client should recognize that this report is not a comprehensive site characterization and should not be construed as such. The DTSC or Los Angeles County HMMD may require additional soil sampling. The findings and conclusions as presented in this report are predicated on the results of the limited sampling and laboratory testing 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 expressed or implied. GEC 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.



SOURCE: 1993 THOMAS BROTHERS MAP
LOS ANGELES COUNTY, CALIFORNIA

N
NO SCALE

GEOCON
ENVIRONMENTAL CONSULTANTS INCORPORATED
6970 FLANDERS DRIVE - SAN DIEGO, CALIFORNIA 92121-2974
PHONE 619 558-6100 - FAX 619 558-8437

MML / RSA		DSK / E000

VICINITY MAP

LA 5 PM 26.7/36.4
LOS ANGELES COUNTY, CALIFORNIA

DATE 1 - 3 - 1995	PROJ. NO. 08600 - 06 - 07A	FIG. 1

ESTPLN/94

LEGEND FOR FIGURES 2 THROUGH 7
SITE PLAN AND BOREHOLE LOCATION MAP

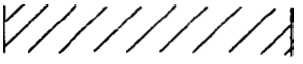
Soil Impacted With Lead Greater Than 1,000 mg/kg TTLC or 5 mg/kg STLC to a depth of approximately 0.5 feet bgs

Soil Impacted With Lead Greater Than 1,000 mg/kg TTLC or 5 mg/kg STLC to a depth of approximately 1.5 feet bgs

Soil Impacted With Lead Greater Than 1,000 mg/kg TTLC or 5 mg/kg STLC to a depth of approximately 3 feet bgs

Soil Impacted With Lead Greater Than 1,000 mg/kg TTLC or 5 mg/kg STLC to a depth of approximately 5.0 feet bgs

Areas requiring hard cover (approximately 1 foot of asphalt/concrete) are denoted with the following hatch marks.



Note: Areas that do not contain a color shade do not exhibit lead concentrations greater than the TTLC or STLC values.

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TABLE I (continued)

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 1

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA12-1	0.5	S	12	NW	11-7-94	337	2.1
HA12-2	1.5	S	12	NW	11-7-94	289	4.2
HA12-3	3	S	12	NW	11-7-94	469	29
HA13-1	0.5	F	5	NW	11-7-94	2,720	---
HA13-2	1.5	F	5	NW	11-7-94	377	33
HA14-1	0.5	S	12	NW	11-7-94	2,810	---
HA14-2	1.5	S	12	NW	11-7-94	183	16
HA14-3	3	S	12	NW	11-7-94	282	16
HA14-4	5	S	12	NW	11-7-94	56	5.5
HA15-1	0.5	F	5	NW	11-7-94	958	78
HA15-2	1.5	F	5	NW	11-7-94	68	21

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TABLE I (continued)

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 1

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA16-1	0.5	S	12	NW	11-7-94	185	23
HA16-2	1.5	S	12	NW	11-7-94	102	5.4
HA16-3	3	S	12	NW	11-7-94	216	33
HA16-4	5	S	12	NW	11-7-94	17	---
HA17-1	0.5	F	5	NW	11-7-94	12	---
HA17-2	1.5	F	5	NW	11-7-94	8.5	---
HA18-1	0.5	S	12	NW	11-7-94	17	---
HA18-2	1.5	S	12	NW	11-7-94	553	30
HA18-3	3	S	12	NW	11-7-94	170	3.2
HA18-4	5	S	12	NW	11-7-94	63	2.1
HA19-1	0.5	F	5	NW	11-7-94	238	19

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TABLE I (continued)

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 1

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA19-2	1.5	F	5	NW	11-7-94	600	54
HA20-1	0.5	S	12	NW	11-7-94	16	---
HA20-2	1.5	S	12	NW	11-7-94	288	17
HA20-3	3	S	12	NW	11-7-94	270	15
HA20-4	5	S	12	NW	11-7-94	292	22
HA21-1	0.5	S	5	NW	11-8-94	94	3.3
HA21-2	1.5	S	5	NW	11-8-94	115	2.7
HA22-1	0.5	S	12	NW	11-8-94	1,320	---
HA22-2	1.5	S	12	NW	11-8-94	281	11
HA22-3	3	S	12	NW	11-8-94	432	6.5
HA22-4	5	S	12	NW	11-8-94	46	---

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January 3, 1994

TABLE I (continued)

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 1

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA23-1	0.5	S	5	NW	11-8-94	91	3.0
HA23-2	1.5	S	5	NW	11-8-94	168	6.3
HA24-1	0.5	S	12	NW	11-8-94	2,070	---
HA24-2	1.5	S	12	NW	11-8-94	49	---
HA24-3	3	S	12	NW	11-8-94	213	8.2
HA26-1	0.5	S	12	NW	11-8-94	39	---
HA26-2	1.5	S	12	NW	11-8-94	272	13
HA26-3	3	S	12	NW	11-8-94	63	2.5
HA26-4	5	S	12	NW	11-8-94	191	4.5
HA25-1	0.5	F	5	NW	11-8-94	177	7.8
HA25-2	1.5	F	5	NW	11-8-94	426	6.3

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TABLE I (continued)

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 1

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA27-1	0.5	S	5	NW	11-8-94	1,110	---
HA27-2	1.5	S	5	NW	11-8-94	775	12
HA28-1	0.5	S	12	NW	11-8-94	2,360	---
HA28-2	1.5	S	12	NW	11-8-94	250	8.4
HA28-3	3	S	12	NW	11-8-94	442	8.9
HA28-4	4	S	12	NW	11-8-94	359	11
HA29-1	0.5	F	5	NW	11-8-94	516	66
HA29-2	1.5	F	5	NW	11-8-94	33	---
HA30-1	0.5	S	12	NW	11-8-94	970	35
HA30-2	1.5	S	12	NW	11-8-94	775	16
HA30-3	3	S	12	NW	11-8-94	154	1.7

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TABLE I (continued)

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 1

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA30-4	4	S	12	NW	11-8-94	147	4.1
HA31-1	0.5	F	5	NW	11-8-94	1,860	---
HA31-2	1.5	F	5	NW	11-8-94	150	4.5
HA32-1	0.5	S	12	NW	11-8-94	1,400	---
HA32-2	1.5	S	12	NW	11-8-94	294	11
HA32-3	3	S	12	NW	11-8-94	70	3.4
HA32-4	5	S	12	NW	11-8-94	302	7.2
HA33-1	0.5	F	5	NW	11-8-94	1,950	---
HA33-2	1.5	F	5	NW	11-8-94	177	4.5
HA34-1	0.5	S	12	NW	11-8-94	915	3.8
HA34-2	1.5	S	12	NW	11-8-94	400	2.4

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TABLE I (continued)

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 1

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA34-3	3	S	12	NW	11-8-94	336	11
HA34-4	5	S	12	NW	11-8-94	441	6.5
HA35-1	0.5	F	5	NW	11-8-94	1,245	---
HA35-2	1.5	F	5	NW	11-8-94	62	2.2
HA36-1	0.5	S	12	NW	11-8-94	2,110	---
HA36-2	1.5	S	12	NW	11-8-94	69	4.6
HA36-3	3	S	12	NW	11-8-94	113	6.6
HA37-1	0.5	F	5	NW	11-8-94	790	1.6
HA37-2	1.5	F	5	NW	11-8-94	350	5.5
HA38-1	0.5	S	12	NW	11-9-94	826	20
HA38-2	1.5	S	12	NW	11-9-94	274	11

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TABLE I (continued)

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 1

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA38-3	3	S	12	NW	11-9-94	23	---
HA38-4	5	S	12	NW	11-9-94	10	---
HA39-1	0.5	S	5	NW	11-9-94	1,540	---
HA39-2	1.5	S	5	NW	11-9-94	1,190	---
HA40-1	0.5	S	12	NW	11-9-94	1,400	---
HA40-2	1.5	S	12	NW	11-9-94	29	---
HA40-3	3	S	12	NW	11-9-94	11	---
HA40-4	5	S	12	NW	11-9-94	34	---

Note: mg/kg = milligrams per kilogram
mg/l = milligrams per liter
< = not detected above laboratory detection limit
--- = sample not analyzed

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1994

TABLE II

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 2

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA41-1	0.5	F	5	NW	11-9-94	124	7.4
HA41-2	1.5	F	5	NW	11-9-94	66	4.7
HA42-1	0.5	S	12	NW	11-9-94	1,090	---
HA42-2	1.5	S	12	NW	11-9-94	2.5	---
HA42-3	3	S	12	NW	11-9-94	<2.4	---
HA42-4	5	S	12	NW	11-9-94	2.5	---
HA43-1	0.5	S	5	NW	11-9-94	1,160	---
HA43-2	1.5	S	5	NW	11-9-94	190	7.3
HA44-1	0.5	S	12	NW	11-9-94	113	11

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1994

TABLE II (concluded)

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 2

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA44-2	1.5	S	12	NW	11-9-94	605	40
HA44-3	3	S	12	NW	11-9-94	179	14
HA44-4	5	S	12	NW	11-9-94	108	10
HA45-1	0.5	S	5	NW	11-9-94	2.5	---
HA45-2	1.5	S	5	NW	11-9-94	18	---

Note: mg/kg = milligrams per kilogram
mg/l = milligrams per liter
< = not detected above laboratory detection limit
--- = sample not analyzed

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1994

TABLE III

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 3

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA46-1	0.5	F	5	NW	11-9-94	98	5.9
HA46-2	1.5	F	5	NW	11-9-94	32	---
HA47-1	0.5	S	12	NW	11-9-94	80	6.8
HA47-2	1.5	S	12	NW	11-9-94	59	5.3
HA47-3	3	S	12	NW	11-9-94	94	4.6
HA47-4	5	S	12	NW	11-9-94	125	9.8
HA48-1	0.5	F	5	NW	11-9-94	606	50
HA48-2	1.5	F	5	NW	11-9-94	72	4.4
HA49-1	0.5	S	12	NW	11-9-94	93	5.7

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1994

TABLE III (concluded)

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
SOIL SAMPLES OBTAINED BY GEC
SITE 3

TTLC EPA Test Method 7420/STLC EPA Test Method 7420

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	FLAT (F) OR SLOPED (S) SURFACE	APPROXIMATE DISTANCE FROM PAVEMENT (feet)	GENERAL WIND DIRECTION	DATE SAMPLED	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA49-2	1.5	S	12	NW	11-9-94	3.0	---
HA49-3	3	S	12	NW	11-9-94	6.0	---
HA49-4	5	S	12	NW	11-9-94	35	---

Note: mg/kg = milligrams per kilogram
mg/l = milligrams per liter
< = not detected above laboratory detection limit
--- = sample not analyzed

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

TABLE IV

SUMMARY OF ANALYTICAL LABORATORY TEST RESULTS
ON SOIL SAMPLES OBTAINED BY GEC

EPA Test Method 7420 Utilizing Deionized Water for Extraction

SAMPLE IDENTIFICATION	DEPTH BELOW GROUND SURFACE (feet)	EPA 7420 LEAD (mg/kg)	EPA 7420 WET STLC (mg/l)
HA22-3	3	432	ND
HA24-3	3	213	ND
HA25-1	.5	177	ND
HA29-1	.5	516	0.55

Note: mg/l = milligrams per liter
< = not detected above laboratory detection limit

Project No. 08600-06-07A
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January 3, 1995

TABLE V

SUMMARY OF STATISTICAL CHARACTERIZATION RESULTS
SOIL SAMPLES OBTAINED BY GEC
LEAD CONCENTRATIONS AT 0.5 FEET BELOW THE GROUND SURFACE
SITE 1

Total Threshold Limit Concentrations (EPA Test Method 7420)

Number of Samples =	40
Mean =	996.6
Estimated Standard Deviation of the Sample =	998.8
Degrees of Freedom =	39
Confidence Level for Mean =	80%
The Student "t" Value =	1.30

80% Confidence Interval = 790.7 < mean < 1202.4 mg/kg

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

TABLE VI

SUMMARY OF STATISTICAL CHARACTERIZATION RESULTS
SOIL SAMPLES OBTAINED BY GEC
LEAD CONCENTRATIONS AT 1.5 FEET BELOW THE GROUND SURFACE
SITE 1
Total Threshold Limit Concentrations (EPA Test Method 7420)

Number of Samples =	40
Mean =	376.0
Estimated Standard Deviation of the Sample =	490.5
Degrees of Freedom =	39
Confidence Level for Mean =	80%
The Student "t" Value =	1.30

80% Confidence Interval = 330.4 < mean < 447.1 mg/kg

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

TABLE VII

SUMMARY OF STATISTICAL CHARACTERIZATION RESULTS
SOIL SAMPLES OBTAINED BY GEC
LEAD CONCENTRATIONS AT 0.5 FEET BELOW THE GROUND SURFACE
SITE 1

Soluble Threshold Limit Concentrations (EPA Test Method 7420)

Number of Samples =	19
Mean =	30.1
Estimated Standard Deviation of the Sample =	49.2
Degrees of Freedom =	18
Confidence Level for Mean =	80%
The Student "t" Value =	1.33

80% Confidence Interval = 15.0 < mean < 45.1 mg/l

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

TABLE VIII

SUMMARY OF STATISTICAL CHARACTERIZATION RESULTS
SOIL SAMPLES OBTAINED BY GEC
LEAD CONCENTRATIONS AT 1.5 FEET BELOW THE GROUND SURFACE
SITE 1

Soluble Threshold Limit Concentrations (EPA Test Method 7420)

Number of Samples =	32
Mean =	14.3
Estimated Standard Deviation of the Sample =	14.1
Degrees of Freedom =	31
Confidence Level for Mean =	80%
The Student "t" Value =	1.31

80% Confidence Interval = 11.1 < mean < 17.6 mg/l

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

TABLE IX

SUMMARY OF STATISTICAL CHARACTERIZATION RESULTS
SOIL SAMPLES OBTAINED BY GEC
SOLUBLE LEAD CONCENTRATIONS AT 3 FEET BELOW THE GROUND SURFACE
SITE 1

Soluble Threshold Limit Concentrations (EPA Test Method 7420)

Number of Samples =	15
Mean =	10.1
Estimated Standard Deviation of the Sample =	9.6
Degrees of Freedom =	14
Confidence Level for Mean =	80%
The Student "t" Value =	1.35

80% Confidence Interval = 6.8 < mean < 13.5 mg/l

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

TABLE X

SUMMARY OF STATISTICAL CHARACTERIZATION RESULTS
SOIL SAMPLES OBTAINED BY GEC
SOLUBLE LEAD CONCENTRATIONS AT 5 FEET BELOW THE GROUND SURFACE
SITE 1

Soluble Threshold Limit Concentrations (EPA Test Method 7420)

Number of Samples =	12
Mean =	11.5
Estimated Standard Deviation of the Sample =	10.8
Degrees of Freedom =	11
Confidence Level for Mean =	80%
The Student "t" Value =	1.36

80% Confidence Interval = 7.2 < mean < 15.7 mg/l

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

TABLE XI

SUMMARY OF STATISTICAL CHARACTERIZATION RESULTS
SOIL SAMPLES OBTAINED BY GEC
LEAD CONCENTRATIONS AT 0.5 FEET BELOW THE GROUND SURFACE
SITE 2

Total Threshold Limit Concentrations (EPA Test Method 7420)

Number of Samples =	5
Mean =	497.9
Estimated Standard Deviation of the Sample =	575
Degrees of Freedom =	4
Confidence Level for Mean =	80%
The Student "t" Value =	1.6

80% Confidence Interval = 103.7 < mean < 892.1 mg/kg

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

TABLE XII

SUMMARY OF STATISTICAL CHARACTERIZATION RESULTS
SOIL SAMPLES OBTAINED BY GEC
SOLUBLE LEAD CONCENTRATIONS AT 0.5 FEET BELOW THE GROUND SURFACE
SITE 2

Soluble Threshold Limit Concentrations (EPA Test Method 7420)

Number of Samples =	2
Mean =	9.2
Estimated Standard Deviation of the Sample =	2.5
Degrees of Freedom =	1
Confidence Level for Mean =	80%
The Student "t" Value =	3.08

80% Confidence Interval = 3.7 < mean < 14.7 mg/l

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

TABLE XIII

SUMMARY OF STATISTICAL CHARACTERIZATION RESULTS
SOIL SAMPLES OBTAINED BY GEC
SOLUBLE LEAD CONCENTRATIONS AT 1.5 FEET BELOW THE GROUND SURFACE
SITE 2

Soluble Threshold Limit Concentrations (EPA Test Method 7420)

Number of Samples =	3
Mean =	17.3
Estimated Standard Deviation of the Sample =	19.7
Degrees of Freedom =	2
Confidence Level for Mean =	80%
The Student "t" Value =	1.9

80% Confidence Interval = $-4.1 < \text{mean} < 38.8$ mg/l

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

TABLE XIV

SUMMARY OF STATISTICAL CHARACTERIZATION RESULTS
SOIL SAMPLES OBTAINED BY GEC
SOLUBLE LEAD CONCENTRATIONS AT 0.5 FEET BELOW THE GROUND SURFACE
SITE 3

Soluble Threshold Limit Concentrations (EPA Test Method 7420)

Number of Samples =	4
Mean =	17.1
Estimated Standard Deviation of the Sample =	21.9
Degrees of Freedom =	3
Confidence Level for Mean =	80%
The Student "t" Value =	1.64

80% Confidence Interval = -.86 < mean < 35.1 mg/l

Project No. 08600-06-07A
Task Order No. 07-023851-01
January 3, 1995

TABLE XV

SUMMARY OF STATISTICAL CHARACTERIZATION RESULTS
SOIL SAMPLES OBTAINED BY GEC
SOLUBLE LEAD CONCENTRATIONS AT 1.5 FEET BELOW THE GROUND SURFACE
SITE 3

Soluble Threshold Limit Concentrations (EPA Test Method 7420)

Number of Samples =	2
Mean =	4.8
Estimated Standard Deviation of the Sample =	0.64
Degrees of Freedom =	1
Confidence Level for Mean =	80%
The Student "t" Value =	3.08

80% Confidence Interval = 0.37 < mean < 5.1 mg/l

APPENDIX A

APPENDIX A

GEOCON ENVIRONMENTAL CONSULTANTS
STANDARD OPERATING PROCEDURE (SOP) NO. 01
HAND AUGERING PRE-WORK ACTIVITIES

Purpose

The purpose of this SOP is to outline pre-work activities to be performed prior to advancing hand augered borings at the project site.

Pre-field Activities

1. Conduct pre-work site visit with Caltrans Contract Manager to inspect work area and excavation sites.

2. Complete Site Visit Checklist with Caltrans Contract Manager. Checklist will be filled out by Mr. Nili.

3. Review proposed excavation sites with Mr. Nili.

4. Record excavation site locations and distances between drill sites on base map.

5. Review background information and site maps provided by Caltrans.

6. Submit Site Assessment Work Plan and Health and Safety Plan to Caltrans Contract Manager for review and approval.

7. Obtain Notice to Proceed from Caltrans Contract manager, countersign and return to Caltrans.

8. Boring permits are not required from environmental agencies for this work.

9. Provide 72 hour notification to Underground Service Alert prior to job site mobilization.

10. Provide notification to Advanced Technology Laboratories.

APPENDIX A (continued)

GEOCON ENVIRONMENTAL CONSULTANTS
STANDARD OPERATING PROCEDURE (SOP) NO. 11
HAND AUGERING AND SOIL SAMPLE COLLECTION

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 Procedures

1. Initiate coring using a hand held 3-inch diameter stainless steel auger.

2. Advance boring to initial sample depth of 3 feet below ground surface (bgs).

3. Prior to sampling, describe soil types on a field log in accordance with the Unified Soil Classification System.

4. Collect a relatively undisturbed soil sample from the hand auger and place the soil sample into glass jars supplied by the laboratory.

5. Repeat procedure and collect a soil sample from a depth of 5 feet bgs.

6. At the request of Mr. Nili, backfill borehole to surface grade with soil cuttings generated.

7. Cleansing and rinse sampling equipment prior to the collection of each soil sample by washing the equipment with a trisodium phosphate solution followed by subsequent tap water and deionized water rinses.

APPENDIX A (continued)

GEOCON ENVIRONMENTAL CONSULTANTS
STANDARD OPERATING PROCEDURE (SOP) NO. 31
SOIL SAMPLE HANDLING AND ANALYTICAL PROCEDURES

Purpose

The purpose of this SOP is to outline procedures and methods to be used to package and transport soil samples to an analytical laboratory.

Soil Sample Handling and Analytical Procedures

1. Soil samples will be retrieved using a stainless steel spade from the hand auger.

2. After extracting the sample from the auger, the soil sample will be placed in laboratory supplied glass containers with teflon lined lids.

3. Sample labels will be placed on the outside of the jar to indicate the job name, date, sample number and name of person performing sampling.

4. Each prepared sample jar will be placed in into a cooler for transport to Advanced Technology Laboratory. Blue ice is not required to collect soil samples.

APPENDIX A (concluded)

GEOCON ENVIRONMENTAL CONSULTANTS
STANDARD OPERATING PROCEDURE (SOP) NO. 41
REPORTING PROCEDURES

Purpose

The purpose of this SOP is to outline the reporting procedures to be implemented to prepare the Site Assessment report.

Reporting Procedures

1. Reporting procedures will be performed in accordance with contract specifications as outlined in Caltrans Contract 53W202 for Site Assessment reports and the requirements of Caltrans as outlined in Task Order No. 07-023851-01.

APPENDIX B

GEOCON ENVIRONMENTAL CONSULTANTS (GEC)
CALTRANS CONTRACT NO. 53W202
TASK ORDER NO. 07-023551-01
GEC PROJECT 8600-06-07
FIELD PROJECT LOG

Date: 11-6-94 Page 1 of

PROJECT NAME: LA 5 PM 26.7/36.4		
CALTRANS ONSITE REP: Ali Nuli	GEC PROJECT MANAGER: Chris Schmitt	
FIELD ACTIVITY: Mobilization to Site vicinity	BID ITEM NO: 32	BID ITEM UNITS: .5
SUBCONTRACTOR:	BID ITEM UNITS COMP. THIS DATE:	

Briefly describe field activities (i.e. soil sampling collection, continuous coring, casing installation, etc.) that verify the number of bid items completed this date.

8:00 pm Leave Carlsbad for LA (Mobilization)
#8:30 pm arrive LA and get motel
Review plan with Doug Winchester and review site plans

PREPARED BY: Maraet Lane APPROVED BY:

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GEOCON ENVIRONMENTAL CONSULTANTS (GEC)
CALTRANS CONTRACT NO. 53W202
TASK ORDER NO. 07-023551-01 EA# 12150K
GEC PROJECT 8600-06-C7A
FIELD PROJECT LOG

Date: 11-7-94 Page 1 of 2

PROJECT NAME: LA 5 PM 26.7/36.4		
CALTRANS ONSITE REP: Ali Nili	GEC PROJECT MANAGER: Chris Schmitt	
FIELD ACTIVITY: Soil Sampling	BID ITEM NO: 33; 51	BID ITEM UNITS: 63, 59
SUBCONTRACTOR:	BID ITEM UNITS COMP. THIS DATE:	

Briefly describe field activities (i.e. soil sampling collection, continuous coring, casing installation, etc.) that verify the number of bid items completed this date.

7.00 leave motel to go to Caltrans maintenance yard to meet Ali Nili, Randy Haney, and to pick up lab cars

5.00 Meet at Caltrans yard w/Ali Nili, Randy Haney to discuss plan

9:15 Begin sampling at HA1
Very difficult handaugering due to rocks

(200) Have completed 11 borings - will try to finish all 20 borings northbound

1230 ~~Bore~~ Refusal on HA 12 at 3 feet
No sample collected at 5 ft.

~~1440~~ Completed 20 borings on northbound side
(1440) between Buena Vista and Hollywood

500 Return to Caltrans yard to fill out rest of chain information & inventory samples. laboratory will pick up samples at 4:00
Called a rental yard to rent a power auger - However decision was made by Chris Schmitt to continue using handauger

PREPARED BY: Margot Lane APPROVED BY:

GEOCON ENVIRONMENTAL CONSULTANTS (GEC)
CALTRANS CONTRACT NO. 53W202
TASK ORDER NO. C7 C23551-C1
GEC PROJECT 8600-06-074.
FIELD PROJECT LOG

Date: 11-7-94

PROJECT NAME: LA5 PM 26.7/36.4		
CALTRANS ONSITE REP: Ali Nidi	GEC PROJECT MANAGER: Chris Schmitt	
FIELD ACTIVITY: Soil Sampling	BID ITEM NO: 107	BID ITEM UNITS. 59
SUBCONTRACTOR:	BID ITEM UNITS COMP. THIS DATE:	

Briefly describe field activities (i.e. soil sampling collection, continuous coring, casing installation, etc.) that verify the number of bid items completed this date.

Will meet at Caltrans yard Tuesday morning at 6:45
Plan to start on southbound shoulder between
Hollywood & Buena Vista. (60 samples if we
can get all samples ordered)

8pm: Filled out Chain of Custodies for
Tuesday sampling
Marked Maps with sampling
locations
Finish at 10 pm.

PREPARED BY: Margot Lane | APPROVED BY:

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GEOCON ENVIRONMENTAL CONSULTANTS (GEC)

CAL TRANS CONTRACT NO. 53W202

TASK ORDER NO. 53 07-02355-0; Project 9600-06-07A

PROJECT LOG

Date: 11-8-94 Page 1 of 2

PROJECT NAME: LA 5 PM 26.7/36.4	GEC PROJECT NO.: 9600-06-07A
CALTRANS ONSITE REP: Ali Nidi	GEC PROJECT MANAGER: Chris Schmitt
BEGINNING TIME:	BID ITEM NO. 33.51 BID ITEM UNITS: TOTAL: 46.5, 48
SUBCONTRACTORS:	

6:45am Arrive at Caltrans - rain cancels job until 10:30 am - Work or Site plan and Cha. of Cus.

10:30 Caltrans is setting up cones
Drizzling at times
Will attempt to work between Hollywood Way & Buena Vista southbound until 2:30 or 3:00 (depends on weather).
First samples (borings) are behind an existing sandwall

1005 arrive at site - no cones present to close shoulder - no barricade truck - Hopefully truck is coming
Sound wall exists for 600 ft of sampling (southbound and northbound)

1159 Sample HA24N-4 not collected due to refusal at 3 feet bgs

1308 Refusal in boring HA28 at 3.5 ft. bgs. Sample HA28-4 collected at ~~3.5' bgs~~ [redacted] bgs.
Ali Nidi visited site - we discussed how we were measuring distances (wheel) and how hard the augering is due to cobbles.
He left site at approximately 1310

1340 Refusal at [redacted] 4.0 bgs in HA30-4

1430 Will do one more 5ft boring and 2 more 1.5 ft borings & then must quit until Wednesday
Very cobbled soils in this area

1500 End of sampling - 2-5' borings remain in one 1.5' boring

PREPARED BY: Miriam Liane | APPROVED BY:

GEOCON ENVIRONMENTAL CONSULTANTS (GEC)

CAL TRANS CONTRACT NO. 53W202

TASK ORDER NO. 07-C23551-01

PROJECT LOG 8600-06-07A

Date: 11-8-94 Page 2 of 2

PROJECT NAME: LA5 26.7/36.4	GEC PROJECT NO.: 8600-06-07A
CALTRANS ONSITE REP: Ali Nili	GEC PROJECT MANAGER: Chris Schmitt
BEGINNING TIME:	BID ITEM NO.: 107 / END TIME: BID ITEM UNITS: 48 / TOTAL:
SUBCONTRACTORS:	

1500 Refusal on boring HA36 at 3 ft
Did not collect a sample. HA36-4

1510 Arranged to meet Caltrans persons at site at 7 am Wed. at Buena Vista Exit

1515 Leave for ATL to deliver 48 samples for analysis (7420)

1730 arrive back at motel

PREPARED BY: Margot Love APPROVED BY:

GEOCON ENVIRONMENTAL CONSULTANTS (GEC)
CALTRANS CONTRACT NO. 53W202
TASK ORDER NO. 07-023751-01
GEC PROJECT 8600-06-07A
FIELD PROJECT LOG

Date: 11-9-94 Page 1 of 3

PROJECT NAME: I-5 P.M. 26.7/36.4	
CALTRANS ONSITE REP: Ali Nili	GEC PROJECT MANAGER: Chris Schmitt
FIELD ACTIVITY:	BID ITEM NO: 33, 51 / BID ITEM UNITS: 40, 38
SUBCONTRACTOR:	BID ITEM UNITS COMP. THIS DATE:

Briefly describe field activities (i.e. soil sampling collection, continuous coring, casing installation, etc.) that verify the number of bid items completed this date.

0700 Meet Caltrans at Buena Vista Ave
Borings & Sampling performed at 3 locations (HA38-HA40)
10 samples collected
0830 Finish HA40
Call Ali Nili regarding typographical error (Stn. 935 should read Stn 835) on TO at Site 2
Should be sampling between Stn 835 to Stn 84[illegible]
-Confirm this with Ali Nili
Ali Nili also added 2 more borings at Site 3 (Tujunga Site) to 1.5 ft bgs each
I told him we would need to do a change order and he said we would not need to - I said for him to discuss this with Chris Schmitt (who was there with Ali Nili at this time)
0900 Arrive at Site 2 - Burbank Ave Site - Awaiting completion of Caltrans efforts to close down on-ramp and cone off shoulder area - Start sampling at 0910
0930 Took Sample S1 for TRPH analysis at approximately 8 ft from edge of pavement. An area of discoloration near [illegible] unit is approx.

PREPARED BY: Margaret Lane APPROVED BY:

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GEOCON ENVIRONMENTAL CONSULTANTS (GEC)
CALTRANS CONTRACT NO. 53W202
TASK ORDER NO. C7-C23551-C1
GEC PROJECT 8600-06-~~C7~~
FIELD PROJECT LOG

Date: 11-9-94 Page 2 of 3

PROJECT NAME: LA 5 PM 26.7/36.4		
CALTRANS ONSITE REP: Ali Nili	GEC PROJECT MANAGER: Chris Schmitt	
FIELD ACTIVITY:	BID ITEM NO: 107, 88	BID ITEM UNITS: 36, 2
SUBCONTRACTOR:	BID ITEM UNITS COMP. THIS DATE:	

Briefly describe field activities (i.e. soil sampling collection, continuous coring, casing installation, etc.) that verify the number of bid items completed this date.

2x1' in size. Sample collected at 0935 ~~on~~ and site marked on site plan.

0937 Took Sample S2 for TRPH analysis approximately 8' from pavement. Discolored area approximately 0.5'x1' in size.

1040 Arrive at Site 3 - Site is below the Northbound Rte 159 on on Southbound side of LA5. We are on the median. Met the North Hollywood branch of Caltrans - They had closed part of Lane 1 for our access.
Steve Palma headed up this Caltrans team.

1150 Finish 4th boring at Site 3. Thank Caltrans and gather up our augers and load truck

1205 Leave for Lab to deliver Samples collected (when have chains filled out.)

1215 Fill out chains
Fill in site plans with sample locations
Inventory Samples

PREPARED BY: Margaret Lane APPROVED BY:

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Spike Recovery and RPD Summary Report

Method: 418.1
Analyst: MCC/DFC
Data File: 4314-S2

Date: 11/10/94
Sample ID: 941031-191
Matrix: SOIL

ANALYTE	UNITS	LCS Conc	LCS Res	% Rec	METH BLANK	SPL CONC	SPK ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
TRPH	mg/Kg	5	5	100	ND	ND	40	40	40	100	100	80 - 120	0	20	4

Approved by: Cheryl de los Reyes
Cheryl De Los Reyes
Inorganics Supervisor

Date: 11/11/94

Advanced Technology Laboratories

Advanced Technology Laboratories

ELAP No.: 1838
Exp. Date: 12-31-94

Geocon Environmental
6970 Flanders Drive
San Diego, CA 92121

ATTN: Ms. Marget Lane

Client's Project: LA5 PM 26.7/36.4 8600 - 06 - 07A
Lab No.: 941109-024/061

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

The sample(s) arrived chilled, intact, with a chain of custody record attached.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (310) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

M. Yartzoff

Michael A. Yartzoff
Laboratory Director
MAY/cb

Enclosures

This cover letter is an integral part of this analytical report.

Mailing Address: P.O. Box 9108 Newport Beach, CA 92658
1500 E. 33rd Street Signal Hill, CA 90807 Tel: 310 989-4045 Fax: 310 989-4040

GEOCON ENVIRONMENTAL CONSULTANTS (GEC)
CALTRANS CONTRACT NO. 53W202
TASK ORDER NO. 07-C23851-01
GEC PROJECT 8600-06-274
FIELD PROJECT LOG

Date: 11-9-94 Page 3 of 3

PROJECT NAME: LA5 PM 26.7/36.4		
CALTRANS ONSITE REP: Lili Nili	GEC PROJECT MANAGER: Chris Schmitt	
FIELD ACTIVITY:	BID ITEM NO: 32	BID ITEM UNITS: .5
SUBCONTRACTOR:	BID ITEM UNITS COMP. THIS DATE:	

Briefly describe field activities (i.e. soil sampling collection, continuous coring, casing installation, etc.) that verify the number of bid items completed this date.

1330 Deliver to Lab
Lab personnel (nellie) checks samples against chain of custodies
Relinquish samples
1400 Leave lab
1400-1430 Demobilization
(1630) arrive in Carlsbad to pick up Doug Winchester's truck
1700 Clean truck

PREPARED BY: Margaret Lane APPROVED BY:

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)CON ENVIRONMENTAL CONSULTANTS (G
CALTRANS CONTRACT NO. 53W202
TASK ORDER NO. 07-233501-01
GEC PROJECT NO. 08600-06-C7A
OFFICE PROJECT LOG

REPORTING DATES: 11/7 - 11/13/94 Page 1 of 1

PROJECT NAME: LA - 26.7/36.4

GEC PROJECT MANAGER: C. SCHMITT

CALTRANS CONTRACT MANAGER: ALINILI

DATE	WORK DESCRIPTION	BID ITEM NO.	TIME START	TIME STOP	TOTAL HOURS
11/11/94	REPORT	035	1300	1400	1
	PREPARED TABLES FOR REPORT AND VOLUME CALCULATIONS.				

PREPARED BY: [signature]

APPROVED BY: [signature]

c:\wp51\clerical\forms\caltrans.lg2

GEO' N ENVIRONMENTAL CONSULTANT: GEC)

CALTRANS CONTRACT NO. 53W202

TASK ORDER NO. 07-C23651-01

PROJECT LOG

Date: 10-27-94

PROJECT NAME: Caltrans	GEC PROJECT NO.: 0560-06-07 +C7H
CALTRANS ONSITE REP:	GEC PROJECT MANAGER: Chris Schmitt
BEGINNING TIME: 4pm	END TIME: 4:30pm TOTAL: .5
SUBCONTRACTORS:	

Word Processing - H+S Plan

PREPARED BY: SC	APPROVED BY:

GEO N ENVIRONMENTAL CONSULTANT GEC)

CALTRANS CONTRACT NO. 53W202

TASK ORDER NO. 07-023851-01

PROJECT LOG

Date: 10- -94

PROJECT NAME: Caltrans	GEC PROJECT NO.: 0800-06-07+07A
CALTRANS ONSITE REP:	GEC PROJECT MANAGER: Chris Schmitt
BEGINNING TIME: 3pm	END TIME: 3:30pm TOTAL: 1 HR
SUBCONTRACTORS:	

Word Processing - H+S Plan

PREPARED BY: SC	APPROVED BY:

GEC ON ENVIRONMENTAL CONSULTANT (GEC)

CALTRANS CONTRACT NO. 53W202

TASK ORDER NO. 07-023851-01

PROJECT LOG

Date: 10-27-94 Page 1 of 1

PROJECT NAME: Caltrans	GEC PROJECT NO.: 0860-06-07-07A
CALTRANS ONSITE REP:	GEC PROJECT MANAGER: Chris Schmitt
BEGINNING TIME: 3pm END TIME: 4pm	TOTAL: 1 HR
SUBCONTRACTORS:	

Word Processing - Work Plan

PREPARED BY: SC	APPROVED BY:

GEO[illegible] N ENVIRONMENTAL CONSULTANTS (GEC)

CALTRANS CONTRACT NO. 53W202

TASK ORDER NO. 07-023651-01

PROJECT LOG

Date: 10-27-94 Page 1 of 1

NAME: Caltrans	GEC PROJECT NO.: 08600-06-07-07A
CALTRANS ONSITE REP:	GEC PROJECT MANAGER: Ch - Schmitt
BEGINNING TIME: 4pm	END TIME: 4:30pm TOTAL: .5
SUBCONTRACTORS:	

Word Processing - H+S Plan

PREPARED BY: SC APPROVED BY:

GEO N ENVIRONMENTAL CONSULTANT (GEC)

CALTRANS CONTRACT NO. 53W202

TASK ORDER NO. 07-023857-01

PROJECT LOG

Date: 10-28-94

PROJECT NAME: Caltrans	GEC PROJECT NO.: 08600-06-07+07A
CALTRANS ONSITE REP:	GEC PROJECT MANAGER: Chris Schmitt
BEGINNING TIME: 3pm	END TIME: 3:30pm TOTAL: 1 HR
SUBCONTRACTORS:	

Word Processing - H+S Plan

PREPARED BY: SC	APPROVED BY:

GEC ON ENVIRONMENTAL CONSULTANT (GEC)

CALTRANS CONTRACT NO. 53W202

TASK ORDER NO. 07-022851-01

PROJECT LOG

Date: 10-27-94 Page 1 of 1

PROJECT NAME: Caltrans	GEC PROJECT NO.: 08600-06-07+07A
CALTRANS ONSITE REP:	GEC PROJECT MANAGER: Chris Schmitt
BEGINNING TIME: 3pm	END TIME: 4pm TOTAL: 1 HR
SUBCONTRACTORS:	

Word Processing - Work Plan

PREPARED BY: SC	APPROVED BY:

APPENDIX C

Advanced Technology Laboratories

December 20, 1994

ELAP No.: 1838
Exp. Date: 12-31-94

Geocon Environmental
6970 Flanders Drive
San Diego, CA 92121

ATTN: Ms. Marget Lane

Client's Project #: LA5PM26.7/36.4 8600-06-07A
Lab No.: 941107-152/211

Gentlemen:

Enclosed are the results for sample(s) received 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 (310) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

M. Yartzoff

Michael A. Yartzoff
Laboratory Director
MAY/ra

Enclosures

This cover letter is an integral part of this analytical report.

Mailing Address: P.O. Box 9108 Newport Beach, CA 92658
1500 E. 33rd Street Signal Hill, CA 90807 Tel: 310 989-4045 Fax: 310 989-4040

Client: Geocon Environmental
Attn: Marget Lane

Client's Project: LA5PM26.7/36.4 8600-06-07A

Date Received: 11/07/94
Date Digested: 11/07/94

Lab No.	Sample I.D.	Analysis	Date Sampled	Date Analyzed	Results,	Matrix, Units	DLR	DF	Analyst Initials
941107-152	HA1-1	EPA 7420 (Lead)	11/07/94	11/08/94	1450	Soil, mg/kg	24	10	EPC
941107-153	HA1-2	EPA 7420 (Lead)	11/07/94	11/08/94	125	Soil, mg/kg	2.4	1	EPC
941107-154	HA2-1	EPA 7420 (Lead)	11/07/94	11/08/94	473	Soil, mg/kg	2.4	1	EPC
941107-155	HA2-2	EPA 7420 (Lead)	11/07/94	11/08/94	191	Soil, mg/kg	2.4	1	EPC
941107-156	HA2-3	EPA 7420 (Lead)	11/07/94	11/08/94	40	Soil, mg/kg	2.4	1	EPC
941107-157	HA2-4	EPA 7420 (Lead)	11/07/94	11/08/94	64	Soil, mg/kg	2.4	1	EPC
941107-158	HA3-1	EPA 7420 (Lead)	11/07/94	11/08/94	27	Soil, mg/kg	2.4	1	EPC
941107-159	HA3-2	EPA 7420 (Lead)	11/07/94	11/08/94	1650	Soil, mg/kg	24	10	EPC
941107-160	HA4-1	EPA 7420 (Lead)	11/07/94	11/08/94	114	Soil, mg/kg	2.4	1	EPC
941107-161	HA4-2	EPA 7420 (Lead)	11/07/94	11/08/94	176	Soil, mg/kg	2.4	1	EPC
941107-162	HA4-3	EPA 7420 (Lead)	11/07/94	11/08/94	22	Soil, mg/kg	2.4	1	EPC
941107-163	HA4-4	EPA 7420 (Lead)	11/07/94	11/08/94	198	Soil, mg/kg	2.4	1	EPC
941107-164	HA5-1	EPA 7420 (Lead)	11/07/94	11/08/94	146	Soil, mg/kg	2.4	1	EPC
941107-165	HA5-2	EPA 7420 (Lead)	11/07/94	11/08/94	2600	Soil, mg/kg	24	10	EPC
941107-166	HA6-1	EPA 7420 (Lead)	11/07/94	11/08/94	358	Soil, mg/kg	2.4	1	EPC
941107-167	HA6-2	EPA 7420 (Lead)	11/07/94	11/08/94	458	Soil, mg/kg	2.4	1	EPC
941107-168	HA6-3	EPA 7420 (Lead)	11/07/94	11/08/94	72	Soil, mg/kg	2.4	1	EPC
941107-169	HA6-4	EPA 7420 (Lead)	11/07/94	11/08/94	14	Soil, mg/kg	2.4	1	EPC
941107-170	HA7-1	EPA 7420 (Lead)	11/07/94	11/08/94	2550	Soil, mg/kg	24	10	EPC
941107-171	HA7-2	EPA 7420 (Lead)	11/07/94	11/08/94	748	Soil, mg/kg	12	5	EPC
941107-172	HA8-1	EPA 7420 (Lead)	11/07/94	11/08/94	4160	Soil, mg/kg	36	15	EPC
941107-173	HA8-2	EPA 7420 (Lead)	11/07/94	11/08/94	69	Soil, mg/kg	2.4	1	EPC
941107-174	HA8-3	EPA 7420 (Lead)	11/07/94	11/08/94	69	Soil, mg/kg	2.4	1	EPC
941107-175	HA8-4	EPA 7420 (Lead)	11/07/94	11/08/94	56	Soil, mg/kg	2.4	1	EPC
941107-176	HA9-1	EPA 7420 (Lead)	11/07/94	11/08/94	83	Soil, mg/kg	2.4	1	EPC
941107-177	HA9-2	EPA 7420 (Lead)	11/07/94	11/08/94	19	Soil, mg/kg	2.4	1	EPC
941107-178	HA10-1	EPA 7420 (Lead)	11/07/94	11/08/94	310	Soil, mg/kg	2.4	1	EPC
941107-179	HA10-2	EPA 7420 (Lead)	11/07/94	11/08/94	74	Soil, mg/kg	2.4	1	EPC
941107-180	HA10-3	EPA 7420 (Lead)	11/07/94	11/08/94	33	Soil, mg/kg	2.4	1	EPC
941107-181	HA10-4	EPA 7420 (Lead)	11/07/94	11/08/94	61	Soil, mg/kg	2.4	1	EPC
941107-182	HA11-1	EPA 7420 (Lead)	11/07/94	11/08/94	116	Soil, mg/kg	2.4	1	EPC
941107-183	HA11-2	EPA 7420 (Lead)	11/07/94	11/08/94	328	Soil, mg/kg	2.4	1	EPC

MDL = Method Detection Limit

ND = Not Detected (Below DLR)

MDL = DLR/Factor

DF = Dilution Factor

Reviewed/Approved By: M. Yastuff for

Edgar P. Caballero
Laboratory Director

Date: 11-22-94

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories

1510 E. 33rd Street Signal Hill, CA 90807 Tel: 310 989-4045 Fax: 310 989-4040

Client: Geocon Environmental
Attn: Marget Lane

Client's Project: LASPM26.7/36.4 8600-06-07A

Date Received: 11/07/94
Date Digested: 11/07/94

Lab No.	Sample I.D.	Analysis	Date Sampled	Date Analyzed	Results	Matrix, Units	DLR	DF	Analyst Initials
941107-184	HA12-1	EPA 7420 (Lead)	11/07/94	11/08/94	337	Soil, mg/kg	2.4	1	EPC
941107-185	HA12-2	EPA 7420 (Lead)	11/07/94	11/08/94	289	Soil, mg/kg	2.4	1	EPC
941107-186	HA12-3	EPA 7420 (Lead)	11/07/94	11/08/94	469	Soil, mg/kg	2.4	1	EPC
941107-188	HA13-1	EPA 7420 (Lead)	11/07/94	11/08/94	2720	Soil, mg/kg	24	10	EPC
941107-189	HA13-2	EPA 7420 (Lead)	11/07/94	11/08/94	377	Soil, mg/kg	2.4	1	EPC
941107-190	HA14-1	EPA 7420 (Lead)	11/07/94	11/08/94	2810	Soil, mg/kg	24	10	EPC
941107-191	HA14-2	EPA 7420 (Lead)	11/07/94	11/08/94	183	Soil, mg/kg	2.4	1	EPC
941107-192	HA14-3	EPA 7420 (Lead)	11/07/94	11/08/94	282	Soil, mg/kg	2.4	1	EPC
941107-193	HA14-4	EPA 7420 (Lead)	11/07/94	11/08/94	56	Soil, mg/kg	2.4	1	EPC
941107-194	HA15-1	EPA 7420 (Lead)	11/07/94	11/08/94	958	Soil, mg/kg	12	5	EPC
941107-195	HA15-2	EPA 7420 (Lead)	11/07/94	11/08/94	68	Soil, mg/kg	2.4	1	EPC
941107-196	HA16-1	EPA 7420 (Lead)	11/07/94	11/08/94	185	Soil, mg/kg	2.4	1	EPC
941107-197	HA16-2	EPA 7420 (Lead)	11/07/94	11/08/94	102	Soil, mg/kg	2.4	1	EPC
941107-198	HA16-3	EPA 7420 (Lead)	11/07/94	11/08/94	216	Soil, mg/kg	2.4	1	EPC
941107-199	HA16-4	EPA 7420 (Lead)	11/07/94	11/08/94	17	Soil, mg/kg	2.4	1	EPC
941107-200	HA17-1	EPA 7420 (Lead)	11/07/94	11/08/94	12	Soil, mg/kg	2.4	1	EPC
941107-201	HA17-2	EPA 7420 (Lead)	11/07/94	11/08/94	8.5	Soil, mg/kg	2.4	1	EPC
941107-202	HA18-1	EPA 7420 (Lead)	11/07/94	11/08/94	17	Soil, mg/kg	2.4	1	EPC
941107-203	HA18-2	EPA 7420 (Lead)	11/07/94	11/08/94	553	Soil, mg/kg	12	5	EPC
941107-204	HA18-3	EPA 7420 (Lead)	11/07/94	11/08/94	170	Soil, mg/kg	2.4	1	EPC
941107-205	HA18-4	EPA 7420 (Lead)	11/07/94	11/08/94	63	Soil, mg/kg	2.4	1	EPC
941107-206	HA19-1	EPA 7420 (Lead)	11/07/94	11/08/94	238	Soil, mg/kg	2.4	1	EPC
941107-207	HA19-2	EPA 7420 (Lead)	11/07/94	11/08/94	600	Soil, mg/kg	12	1	EPC
941107-208	HA20-1	EPA 7420 (Lead)	11/07/94	11/08/94	16	Soil, mg/kg	2.4	1	EPC
941107-209	HA20-2	EPA 7420 (Lead)	11/07/94	11/08/94	288	Soil, mg/kg	2.4	1	EPC
941107-210	HA20-3	EPA 7420 (Lead)	11/07/94	11/08/94	270	Soil, mg/kg	2.4	1	EPC
941107-211	HA20-4	EPA 7420 (Lead)	11/07/94	11/08/94	292	Soil, mg/kg	2.4	1	EPC

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
MDL = DLR/Factor
DF = Dilution Factor

Reviewed/Approved By: M. Yastell for
Edgar P. Caballero
Laboratory Director

Date: 11-22-94

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 310 989-4045 Fax: 310 989-4040

Client: Geocon Environmental
Attn: Marget Lane

Client's Project: LASPM26.7/36.4 8600-06-07A

Date Received: 11/07/94
Date Extracted: 11/09/94

Lab No.	Sample I.D.	Analysis	Date Sampled	Date Analyzed	Results,	Matrix, Units	DLR	DF	Analyst Initials
941107-153	HA1-2	EPA 239.1 (Lead)	11/07/94	11/11/94	9.9	STLC Leachate, mg/l	0.24	2	KS
941107-154	HA2-1	EPA 239.1 (Lead)	11/07/94	11/11/94	38	STLC Leachate, mg/l	0.72	6	KS
941107-155	HA2-2	EPA 239.1 (Lead)	11/07/94	11/11/94	8.9	STLC Leachate, mg/l	0.30	2.5	KS
941107-157	HA2-4	EPA 239.1 (Lead)	11/07/94	11/11/94	3.3	STLC Leachate, mg/l	0.12	1	KS
941107-159	HA3-2	EPA 239.1 (Lead)	11/07/94	11/11/94	124	STLC Leachate, mg/l	2.4	20	KS
941107-160	HA4-1	EPA 239.1 (Lead)	11/07/94	11/11/94	7.2	STLC Leachate, mg/l	0.12	1	KS
941107-161	HA4-2	EPA 239.1 (Lead)	11/07/94	11/11/94	10	STLC Leachate, mg/l	0.24	2	KS
941107-163	HA4-4	EPA 239.1 (Lead)	11/07/94	11/11/94	10	STLC Leachate, mg/l	0.24	2	KS
941107-164	HA5-1	EPA 239.1 (Lead)	11/07/94	11/11/94	10	STLC Leachate, mg/l	0.12	1	KS
941107-166	HA6-1	EPA 239.1 (Lead)	11/07/94	11/11/94	211	STLC Leachate, mg/l	3	25	KS
941107-167	HA6-2	EPA 239.1 (Lead)	11/07/94	11/11/94	25	STLC Leachate, mg/l	0.72	6	KS
941107-168	HA6-3	EPA 239.1 (Lead)	11/07/94	11/11/94	3.5	STLC Leachate, mg/l	0.12	1	KS
941107-171	HA7-2	EPA 239.1 (Lead)	11/07/94	11/11/94	59	STLC Leachate, mg/l	0.72	6	KS
941107-173	HA8-2	EPA 239.1 (Lead)	11/07/94	11/11/94	3.8	STLC Leachate, mg/l	0.12	1	KS
941107-174	HA8-3	EPA 239.1 (Lead)	11/07/94	11/11/94	3.4	STLC Leachate, mg/l	0.12	1	KS
941107-175	HA8-4	EPA 239.1 (Lead)	11/07/94	11/11/94	1.7	STLC Leachate, mg/l	0.12	1	KS
941107-176	HA9-1	EPA 239.1 (Lead)	11/07/94	11/11/94	3.5	STLC Leachate, mg/l	0.12	1	KS
941107-178	HA10-1	EPA 239.1 (Lead)	11/07/94	11/11/94	4.1	STLC Leachate, mg/l	0.24	2	KS
941107-179	HA10-2	EPA 239.1 (Lead)	11/07/94	11/11/94	5.6	STLC Leachate, mg/l	0.12	1	KS
941107-181	HA10-4	EPA 239.1 (Lead)	11/07/94	11/11/94	3.0	STLC Leachate, mg/l	0.12	1	KS
941107-182	HA11-1	EPA 239.1 (Lead)	11/07/94	11/11/94	25	STLC Leachate, mg/l	0.72	6	KS
941107-183	HA11-2	EPA 239.1 (Lead)	11/07/94	11/11/94	35	STLC Leachate, mg/l	0.72	6	KS
941107-184	HA12-1	EPA 239.1 (Lead)	11/07/94	11/11/94	2.1	STLC Leachate, mg/l	0.12	1	KS
941107-185	HA12-2	EPA 239.1 (Lead)	11/07/94	11/11/94	4.1	STLC Leachate, mg/l	0.12	1	KS
941107-186	HA12-3	EPA 239.1 (Lead)	11/07/94	11/11/94	29	STLC Leachate, mg/l	0.72	6	KS
941107-189	HA13-2	EPA 239.1 (Lead)	11/07/94	11/11/94	33	STLC Leachate, mg/l	0.72	6	KS
941107-191	HA14-2	EPA 239.1 (Lead)	11/07/94	11/11/94	16	STLC Leachate, mg/l	0.72	6	KS
941107-192	HA14-3	EPA 239.1 (Lead)	11/07/94	11/11/94	16	STLC Leachate, mg/l	0.72	6	KS
941107-193	HA14-4	EPA 239.1 (Lead)	11/07/94	11/11/94	5.5	STLC Leachate, mg/l	0.12	1	KS

MDL = Method Detection Limit

ND = Not Detected (Below DLR)

MDL = DLR/Factor

DF = Dilution Factor

Reviewed/Approved By: M. Jastuff for

Date: 11-22-94

Edgar P. Caballero
Laboratory Director

Client: Geocon Environmental
Attn: Marget Lane

Client's Project: LASPM26.7/36.4 8600-06-07A

Date Received: 11/07/94
Date Extracted: 11/09/94

Lab No.	Sample I.D.	Analysis	Date Sampled	Date Analyzed	Results	Matrix, Units	DLR	DF	Analyst Initials
941107-194	HA15-1	EPA 239.1 (Lead)	11/07/94	11/11/94	78	STLC Leachate, mg/l	12	1	KS
941107-195	HA15-2	EPA 239.1 (Lead)	11/07/94	11/11/94	2.1	STLC Leachate, mg/l	0.12	1	KS
941107-196	HA16-1	EPA 239.1 (Lead)	11/07/94	11/11/94	23	STLC Leachate, mg/l	0.72	6	KS
941107-197	HA16-2	EPA 239.1 (Lead)	11/07/94	11/11/94	5.4	STLC Leachate, mg/l	0.12	1	KS
941107-198	HA16-3	EPA 239.1 (Lead)	11/07/94	11/11/94	33	STLC Leachate, mg/l	0.72	6	KS
941107-203	HA18-2	EPA 239.1 (Lead)	11/07/94	11/11/94	30	STLC Leachate, mg/l	0.72	6	KS
941107-204	HA18-3	EPA 239.1 (Lead)	11/07/94	11/11/94	3.2	STLC Leachate, mg/l	0.12	1	KS
941107-205	HA18-4	EPA 239.1 (Lead)	11/07/94	11/11/94	2.1	STLC Leachate, mg/l	0.12	1	KS
941107-206	HA19-1	EPA 239.1 (Lead)	11/07/94	11/11/94	19	STLC Leachate, mg/l	0.72	6	KS
941107-207	HA19-2	EPA 239.1 (Lead)	11/07/94	11/11/94	54	STLC Leachate, mg/l	12	10	KS
941107-209	HA20-2	EPA 239.1 (Lead)	11/07/94	11/11/94	17	STLC Leachate, mg/l	0.72	6	KS
941107-210	HA20-3	EPA 239.1 (Lead)	11/07/94	11/11/94	15	STLC Leachate, mg/l	0.72	6	KS
941107-211	HA20-4	EPA 239.1 (Lead)	11/07/94	11/11/94	22	STLC Leachate, mg/l	0.72	6	KS

MDL = Method Detection Limit

ND = Not Detected (Below DLR)

MDL = DLR/Factor

DF = Dilution Factor

Reviewed/Approved By: M. Yanagi for

Edgar P. Caballero
Laboratory Director

Date: 11-22-94

The cover letter is an integral part of this analytical report.

Spike Recovery and RPD Summary Report

Method: 7420
Analyst: EPC/OL
Data File: 4312 - 2

Date Analyzed: 11/08/94
Date Digested: 11/08/94
Sample ID: See Below
Matrix: Soil
(Digestion Factor : 100/2)

SAMPLE ID	UNITS	METH BLANK	SPL CONC	SPL DUP	% Dev	SPK ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	R
941107 - 160	mg/kg	ND	2.3	1.9	19	5.0	5.9	7.1	72	96	55 - 120	29	30	2.4
941107 - 170	mg/kg	ND	4.5	5.4	18	5.0	10	10	110	110	55 - 120	0	30	2.4
941107 - 180	mg/kg	ND	0.65	0.45	36	5.0	4.9	5.2	85	91	55 - 120	7	30	2.4
941107 - 190	mg/kg	ND	5.6	5.0	11	5.0	10	10	88	88	55 - 120	0	30	2.4
941107 - 200	mg/kg	ND	0.23	0.36	44	5.0	4.6	5.1	87	97	55 - 120	11	30	2.4
941107 - 210	mg/kg	ND	5.4	5.9	9	5.0	10	9.3	92	78	55 - 120	16	30	2.4

Approved by: Cheryl de los Reyes
Cheryl De Los Reyes
Inorganics Supervisor

Date: 11/9/94

Advanced Technology Laboratories

Spike Recovery and RPD Summary Report

Method: 239.1
Analyst: KS/OL
Data File: 4315 - 1

Date: 11/11/94
Sample ID: See Below
Matrix: STLC Extract

Sample ID	UNITS	LCS Conc	LCS Res	% Rec	METH BLANK	SPL CONC	SPL DUP	% Dev	SPK ADDED	MS RESULT	MSD RESULT	%MS REC	REC	% Rec Limit	RPD	RPD Limit	DLR
941107 - 168	mg/L	5.0	4.7	94	ND	3.50	3.6	3	5.0	8.3	8.2	96	93	55 - 120	4	30	0.12
941107 - 175	mg/L	5.0	4.6	92	ND	1.70	2.7	45	5.0	6.9	7.0	104	105	55 - 120	1	30	0.12
941107 - 181	mg/L	5.0	4.7	93	ND	3.00	3.4	13	5.0	8.6	8.6	113	112	55 - 120	1	30	0.12
941107 - 195	mg/L	5.0	4.5	89	ND	2.10	1.7	21	5.0	4.7	4.6	52	49	55 - 120	5	30	0.12

Approved by: Cheryl de los Reyes
Cheryl De Los Reyes
Inorganics Supervisor

Date: 11/11/94

Advanced Technology

Advanced Technology Laboratories

November 10, 1994

ELAP No.: 1838
Exp. Date: 12-31-94

Geocon Environmental
6970 Flanders Drive
San Diego, CA 92121

ATTN: Ms. Marget Lane

Client's Project: LA5 PM 26.7/36.4
Lab No.: 941108-051/098

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

The sample(s) arrived chilled, intact, with a chain of custody record attached.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (310) 989 - 4045 if I can be of further assistance to your company.

Sincerely,

Mike A. Yartzoff
Laboratory Director
MAY/mp

Enclosures

This cover letter is an integral part of this analytical report.

Mailing Address: P.O. Box 9108 Newport Beach, CA 92658
1500 E. 33rd Street Signal Hill, CA 90807 Tel: 310 989-4045 Fax: 310 989-4040

Spike Recovery and RPD Summary Report

Method: 239.1
Analyst: KS/OL
Data File: 4319 - 1

Date: 11/15/94
Sample ID: See Below
Matrix: STLC Extract

Sample ID	UNITS	LCS Conc	LCS Res	% Rec	METH BLANK	SPL CONC	SPL DUP	% Dev	SPK ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	% Rec Limit	RPD	RPD Limit	DLR
941108 - 051	mg/L	5.0	4.6	92	ND	3.3	4.3	26	5.0	8.4	6.9	102	72	55 - 120	35*	30	0.12
941108 - 066	mg/L	5.0	4.6	92	ND	7.6	9.0	17	5.0	12	11	80	72	55 - 120	11	30	0.12
941108 - 079	mg/L	5.0	4.1	82	ND	4.1	4.7	14	5.0	7.0	6.2	58	43*	55 - 120	30	30	0.12
941108 - 093	mg/L	5.0	5.2	104	ND	2.2	4.0	58*	5.0	5.5	5.6	66	67	55 - 120	2	30	0.12

* High RPD and low spike recovery due to sample non-homogeneity.

Approved by: Cheryl De Los Reyes
Cheryl De Los Reyes
Inorganics Supervisor

Date: 11/15/94

Advanced Technology Laboratories

Client: Geocon Environmental
Attn: Ms. Marget Lane

Client's Project: LA5 PM 26.7/36.4

Date Received: 11/08/94

Lab No.	Sample I.D.	Analysis	Date Sampled	Date Analyzed	Results	Matrix, Units	DLR	DF	Analyst Initials
941108-051	HA21-1	EPA 7420 (Lead)	11/08/94	11/10/94	94	Soil, mg/kg	2.4	1	EPC
941108-052	HA21-2	EPA 7420 (Lead)	11/08/94	11/10/94	115	Soil, mg/kg	2.4	1	EPC
941108-053	HA22-1	EPA 7420 (Lead)	11/08/94	11/10/94	1320	Soil, mg/kg	12	5	EPC
941108-054	HA22-2	EPA 7420 (Lead)	11/08/94	11/10/94	281	Soil, mg/kg	2.4	1	EPC
941108-055	HA22-3	EPA 7420 (Lead)	11/08/94	11/10/94	432	Soil, mg/kg	2.4	1	EPC
941108-056	HA22-4	EPA 7420 (Lead)	11/08/94	11/10/94	46	Soil, mg/kg	2.4	1	EPC
941108-057	HA23-1	EPA 7420 (Lead)	11/08/94	11/10/94	91	Soil, mg/kg	2.4	1	EPC
941108-058	HA23-2	EPA 7420 (Lead)	11/08/94	11/10/94	168	Soil, mg/kg	2.4	1	EPC
941108-059	HA24-1	EPA 7420 (Lead)	11/08/94	11/10/94	2070	Soil, mg/kg	12	5	EPC
941108-060	HA24-2	EPA 7420 (Lead)	11/08/94	11/10/94	49	Soil, mg/kg	2.4	1	EPC
941108-061	HA24-3	EPA 7420 (Lead)	11/08/94	11/10/94	213	Soil, mg/kg	2.4	1	EPC
941108-062	HA26-1	EPA 7420 (Lead)	11/08/94	11/10/94	39	Soil, mg/kg	2.4	1	EPC
941108-063	HA26-2	EPA 7420 (Lead)	11/08/94	11/10/94	272	Soil, mg/kg	2.4	1	EPC
941108-064	HA26-3	EPA 7420 (Lead)	11/08/94	11/10/94	63	Soil, mg/kg	2.4	1	EPC
941108-065	HA26-4	EPA 7420 (Lead)	11/08/94	11/10/94	191	Soil, mg/kg	2.4	1	EPC
941108-066	HA-25-1	EPA 7420 (Lead)	11/08/94	11/10/94	177	Soil, mg/kg	2.4	1	EPC
941108-067	HA-25-2	EPA 7420 (Lead)	11/08/94	11/10/94	426	Soil, mg/kg	2.4	1	EPC
941108-068	HA-27-1	EPA 7420 (Lead)	11/08/94	11/10/94	1110	Soil, mg/kg	12	5	EPC
941108-069	HA-27-2	EPA 7420 (Lead)	11/08/94	11/10/94	775	Soil, mg/kg	2.4	1	EPC
941108-070	HA-28-1	EPA 7420 (Lead)	11/08/94	11/10/94	2360	Soil, mg/kg	24	10	EPC
941108-071	HA-28-2	EPA 7420 (Lead)	11/08/94	11/10/94	250	Soil, mg/kg	12	5	EPC
941108-072	HA-28-3	EPA 7420 (Lead)	11/08/94	11/10/94	442	Soil, mg/kg	2.4	1	EPC
941108-073	HA-28-4	EPA 7420 (Lead)	11/08/94	11/10/94	359	Soil, mg/kg	2.4	1	EPC
941108-074	HA-29-1	EPA 7420 (Lead)	11/08/94	11/10/94	516	Soil, mg/kg	2.4	1	EPC
941108-075	HA-29-2	EPA 7420 (Lead)	11/08/94	11/10/94	33	Soil, mg/kg	2.4	1	EPC
941108-076	HA-30-1	EPA 7420 (Lead)	11/08/94	11/10/94	970	Soil, mg/kg	12	5	EPC
941108-077	HA-30-2	EPA 7420 (Lead)	11/08/94	11/10/94	775	Soil, mg/kg	12	5	EPC
941108-078	HA-30-3	EPA 7420 (Lead)	11/08/94	11/10/94	154	Soil, mg/kg	2.4	1	EPC
941108-079	HA-30-4	EPA 7420 (Lead)	11/08/94	11/10/94	147	Soil, mg/kg	2.4	1	EPC
941108-080	HA-31-1	EPA 7420 (Lead)	11/08/94	11/10/94	1860	Soil, mg/kg	12	5	EPC
941108-081	HA-31-2	EPA 7420 (Lead)	11/08/94	11/10/94	150	Soil, mg/kg	2.4	1	EPC
941108-082	HA-32-1	EPA 7420 (Lead)	11/08/94	11/10/94	1400	Soil, mg/kg	12	5	EPC
941108-083	HA-32-2	EPA 7420 (Lead)	11/08/94	11/10/94	294	Soil, mg/kg	2.4	1	EPC
941108-084	HA-32-3	EPA 7420 (Lead)	11/08/94	11/10/94	70	Soil, mg/kg	2.4	1	EPC
941108-085	HA-32-4	EPA 7420 (Lead)	11/08/94	11/10/94	302	Soil, mg/kg	2.4	1	EPC
941108-086	HA-33-1	EPA 7420 (Lead)	11/08/94	11/10/94	1950	Soil, mg/kg	12	5	EPC
941108-087	HA-33-2	EPA 7420 (Lead)	11/08/94	11/10/94	177	Soil, mg/kg	2.4	1	EPC
941108-088	HA-34-1	EPA 7420 (Lead)	11/08/94	11/10/94	915	Soil, mg/kg	12	5	EPC
941108-089	HA-34-2	EPA 7420 (Lead)	11/08/94	11/10/94	400	Soil, mg/kg	2.4	1	EPC
941108-090	HA-34-3	EPA 7420 (Lead)	11/08/94	11/10/94	336	Soil, mg/kg	2.4	1	EPC
941108-091	HA-34-4	EPA 7420 (Lead)	11/08/94	11/10/94	441	Soil, mg/kg	2.4	1	EPC
941108-092	HA-35-1	EPA 7420 (Lead)	11/08/94	11/10/94	1245	Soil, mg/kg	12	5	EPC
941108-093	HA-35-2	EPA 7420 (Lead)	11/08/94	11/10/94	62	Soil, mg/kg	2.4	1	EPC
941108-094	HA-36-1	EPA 7420 (Lead)	11/08/94	11/10/94	2110	Soil, mg/kg	12	5	EPC
941108-095	HA-36-2	EPA 7420 (Lead)	11/08/94	11/10/94	69	Soil, mg/kg	2.4	1	EPC
941108-096	HA-36-3	EPA 7420 (Lead)	11/08/94	11/10/94	113	Soil, mg/kg	2.4	1	EPC
941108-097	HA-37-1	EPA 7420 (Lead)	11/08/94	11/10/94	790	Soil, mg/kg	4.8	2	EPC
941108-098	HA-37-2	EPA 7420 (Lead)	11/08/94	11/10/94	350	Soil, mg/kg	2.4	1	EPC

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL X Dilution Factor
DF = Dilution Factor

Reviewed By Supervisor: _____

Reviewed/Approved By: _____
Mike Yartzoff
Laboratory Director

Date: 11/10/94

This cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 310 989-4045 Fax: 310 989-4040

Client: Geocon Environmental
Attn: Ms. Marget Lane

Client's Project: LA5 PM 26.7/36.4 8600-06-07A

Date Received: 11/08/94
Date Extracted: 11/12/94
Date Amended: 11/21/94

Lab No.	Sample I.D.	Analysis	Date Sampled	Date Analyzed	Results,	Matrix, Units	DLR	DF	Analyst Initials
941108-051	HA21-1	EPA 239.1 (Lead)	11/08/94	11/15/94	3.3	STLC Extract, mg/L	0.12	1	KS
941108-052	HA21-2	EPA 239.1 (Lead)	11/08/94	11/15/94	2.7	STLC Extract, mg/L	0.12	1	KS
941108-054	HA22-2	EPA 239.1 (Lead)	11/08/94	11/15/94	11	STLC Extract, mg/L	0.24	2	KS
941108-055	HA22-3	EPA 239.1 (Lead)	11/08/94	11/15/94	6.5	STLC Extract, mg/L	0.12	1	KS
941108-057	HA23-1	EPA 239.1 (Lead)	11/08/94	11/15/94	3.0	STLC Extract, mg/L	0.12	1	KS
941108-058	HA23-2	EPA 239.1 (Lead)	11/08/94	11/15/94	6.3	STLC Extract, mg/L	0.12	1	KS
941108-061	HA24-3	EPA 239.1 (Lead)	11/08/94	11/15/94	8.2	STLC Extract, mg/L	0.24	2	KS
941108-063	HA26-2	EPA 239.1 (Lead)	11/08/94	11/15/94	13	STLC Extract, mg/L	0.12	1	KS
941108-064	HA23-3	EPA 239.1 (Lead)	11/08/94	11/15/94	2.5	STLC Extract, mg/L	0.12	1	KS
941108-065	HA26-4	EPA 239.1 (Lead)	11/08/94	11/15/94	4.5	STLC Extract, mg/L	0.12	1	KS
941108-066	HA25-1	EPA 239.1 (Lead)	11/08/94	11/15/94	7.8	STLC Extract, mg/L	0.12	1	KS
941108-067	HA25-2	EPA 239.1 (Lead)	11/08/94	11/15/94	6.3	STLC Extract, mg/L	0.24	2	KS
941108-069	HA27-2	EPA 239.1 (Lead)	11/08/94	11/15/94	12	STLC Extract, mg/L	0.12	1	KS
941108-071	HA28-2	EPA 239.1 (Lead)	11/08/94	11/15/94	8.4	STLC Extract, mg/L	0.12	1	KS
941108-072	HA28-3	EPA 239.1 (Lead)	11/08/94	11/15/94	8.9	STLC Extract, mg/L	0.24	2	KS
941108-073	HA28-4	EPA 239.1 (Lead)	11/08/94	11/15/94	11	STLC Extract, mg/L	1.2	10	KS
941108-074	HA29-1	EPA 239.1 (Lead)	11/08/94	11/15/94	66	STLC Extract, mg/L	0.60	5	KS
941108-076	HA30-1	EPA 239.1 (Lead)	11/08/94	11/15/94	35	STLC Extract, mg/L	0.60	5	KS
941108-077	HA30-2	EPA 239.1 (Lead)	11/08/94	11/15/94	16	STLC Extract, mg/L	0.12	1	KS
941108-078	HA30-3	EPA 239.1 (Lead)	11/08/94	11/15/94	1.7	STLC Extract, mg/L	0.12	1	KS
941108-079	HA30-4	EPA 239.1 (Lead)	11/08/94	11/15/94	4.1	STLC Extract, mg/L	0.12	1	KS
941108-081	HA31-2	EPA 239.1 (Lead)	11/08/94	11/15/94	4.5	STLC Extract, mg/L	0.12	1	KS
941108-083	HA32-2	EPA 239.1 (Lead)	11/08/94	11/15/94	11	STLC Extract, mg/L	0.12	1	KS
941108-084	HA32-3	EPA 239.1 (Lead)	11/08/94	11/15/94	3.4	STLC Extract, mg/L	0.12	1	KS
941108-085	HA32-4	EPA 239.1 (Lead)	11/08/94	11/15/94	7.2	STLC Extract, mg/L	0.12	1	KS
941108-087	HA33-2	EPA 239.1 (Lead)	11/08/94	11/15/94	4.5	STLC Extract, mg/L	0.12	1	KS

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL X Dilution Factor
DF = Dilution Factor

Reviewed/Approved By: M. Yartzoff
Michael A. Yartzoff
Laboratory Director

Date: 11-21-94

The cover letter is an integral part of this analytical report.

Client: Geocon Environmental
Attn: Ms. Marget Lane

Client's Project: LA5 PM 26.7/36.4 8600-06-07A

Date Received: 11/08/94
Date Extracted: 11/12/94

Lab No.	Sample I.D.	Analysis	Date Sampled	Date Analyzed	Results,	Matrix, Units	DLR	DF	Analyst Initials
941108-088	HA34-1	EPA 239.1 (Lead)	11/08/94	11/15/94	3.8	STLC Extract, mg/L	0.12	1	KS
941108-089	HA34-2	EPA 239.1 (Lead)	11/08/94	11/15/94	2.4	STLC Extract, mg/L	0.12	1	KS
941108-090	HA34-3	EPA 239.1 (Lead)	11/08/94	11/15/94	11	STLC Extract, mg/L	0.12	1	KS
941108-091	HA34-4	EPA 239.1 (Lead)	11/08/94	11/15/94	6.5	STLC Extract, mg/L	0.12	1	KS
941108-093	HA35-2	EPA 239.1 (Lead)	11/08/94	11/15/94	2.2	STLC Extract, mg/L	0.12	1	KS
941108-095	HA36-2	EPA 239.1 (Lead)	11/08/94	11/15/94	4.6	STLC Extract, mg/L	0.12	1	KS
941108-096	HA36-3	EPA 239.1 (Lead)	11/08/94	11/15/94	6.6	STLC Extract, mg/L	0.12	1	KS
941108-097	HA37-1	EPA 239.1 (Lead)	11/08/94	11/15/94	1.6	STLC Extract, mg/L	0.12	1	KS
941108-098	HA37-2	EPA 239.1 (Lead)	11/08/94	11/15/94	5.5	STLC Extract, mg/L	0.12	1	KS

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL X Dilution Factor
DF = Dilution Factor

Reviewed/Approved By: M. VanZoff
Michael A. Vartzoff
Laboratory Director

Date: 11-21-94

The cover letter is an integral part of this analytical report.

Advanced Technology
Laboratories

ELAP No.: 1838
Exp. Date: 12-31-94

Geocon Environmental
6970 Flanders Drive
San Diego, CA 92121

ATTN: Ms. Marget Lane

Client's Project: LA5 PM 26.7/36.4 8600 – 06 – 07A
Lab No.: 941109-024/061

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

The sample(s) arrived chilled, intact, with a chain of custody record attached.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (310) 989 – 4045 if I can be of further assistance to your company.

Sincerely,

M. Yartzoff

Michael A. Yartzoff
Laboratory Director
MAY/cb

Enclosures

This cover letter is an integral part of this analytical report.

Client: Geocon Environmental
Attn: Ms. Margot Lane

Client's Project: LAS PM 26.7/36.4 8600-06-07A

Date Received: 11/09/94
Date Digested: 11/10/94

Lab No.	Sample I.D.	Analysis		Date Analyzed	Results	Matrix, Units	DLR	DF	Analyst Initials
941109-024	HA38-1	EPA 7420 (Lead)	11/09/94	11/11/94	826	Soil, mg/kg	4.8	2.0	CDR
941109-025	HA38-2	EPA 7420 (Lead)	11/09/94	11/11/94	274	Soil, mg/kg	2.4	1.0	CDR
941109-026	HA38-3	EPA 7420 (Lead)	11/09/94	11/11/94	23	Soil, mg/kg	2.4	1.0	CDR
941109-027	HA38-4	EPA 7420 (Lead)	11/09/94	11/11/94	10	Soil, mg/kg	2.4	1.0	CDR
941109-028	HA39-1	EPA 7420 (Lead)	11/09/94	11/11/94	1540	Soil, mg/kg	9.6	4.0	CDR
941109-029	HA39-2	EPA 7420 (Lead)	11/09/94	11/11/94	1190	Soil, mg/kg	9.6	4.0	CDR
941109-030	HA40-1	EPA 7420 (Lead)	11/09/94	11/11/94	1400	Soil, mg/kg	9.6	4.0	CDR
941109-031	HA40-2	EPA 7420 (Lead)	11/09/94	11/11/94	29	Soil, mg/kg	2.4	1.0	CDR
941109-032	HA40-3	EPA 7420 (Lead)	11/09/94	11/11/94	11	Soil, mg/kg	2.4	1.0	CDR
941109-033	HA40-4	EPA 7420 (Lead)	11/09/94	11/11/94	34	Soil, mg/kg	2.4	1.0	CDR
941109-034	HA41-1	EPA 7420 (Lead)	11/09/94	11/11/94	124	Soil, mg/kg	2.4	1.0	CDR
941109-035	HA41-2	EPA 7420 (Lead)	11/09/94	11/11/94	66	Soil, mg/kg	2.4	1.0	CDR
941109-036	HA42-1	EPA 7420 (Lead)	11/09/94	11/11/94	1090	Soil, mg/kg	9.6	4.0	CDR
941109-037	HA42-2	EPA 7420 (Lead)	11/09/94	11/11/94	2.5	Soil, mg/kg	2.4	1.0	CDR
941109-038	HA42-3	EPA 7420 (Lead)	11/09/94	11/11/94	ND	Soil, mg/kg	2.4	1.0	CDR
941109-039	HA42-4	EPA 7420 (Lead)	11/09/94	11/11/94	2.5	Soil, mg/kg	2.4	1.0	CDR
941109-040	HA43-1	EPA 7420 (Lead)	11/09/94	11/11/94	1160	Soil, mg/kg	9.6	4.0	CDR
941109-041	HA43-2	EPA 7420 (Lead)	11/09/94	11/11/94	190	Soil, mg/kg	2.4	1.0	CDR
941109-042	HA44-1	EPA 7420 (Lead)	11/09/94	11/11/94	113	Soil, mg/kg	2.4	1.0	CDR
941109-043	HA44-2	EPA 7420 (Lead)	11/09/94	11/11/94	605	Soil, mg/kg	2.4	1.0	CDR
941109-044	HA44-3	EPA 7420 (Lead)	11/09/94	11/11/94	179	Soil, mg/kg	2.4	1.0	CDR
941109-045	HA44-4	EPA 7420 (Lead)	11/09/94	11/11/94	108	Soil, mg/kg	2.4	1.0	CDR
941109-046	HA45-1	EPA 7420 (Lead)	11/09/94	11/11/94	2.5	Soil, mg/kg	2.4	1.0	CDR
941109-047	HA45-2	EPA 7420 (Lead)	11/09/94	11/11/94	18	Soil, mg/kg	2.4	1.0	CDR
941109-048	HA46-1	EPA 7420 (Lead)	11/09/94	11/11/94	98	Soil, mg/kg	2.4	1.0	CDR
941109-049	HA46-2	EPA 7420 (Lead)	11/09/94	11/11/94	32	Soil, mg/kg	2.4	1.0	CDR
941109-050	HA47-1	EPA 7420 (Lead)	11/09/94	11/11/94	80	Soil, mg/kg	2.4	1.0	CDR
941109-051	HA47-2	EPA 7420 (Lead)	11/09/94	11/11/94	59	Soil, mg/kg	2.4	1.0	CDR
941109-052	HA47-3	EPA 7420 (Lead)	11/09/94	11/11/94	94	Soil, mg/kg	2.4	1.0	CDR
941109-053	HA47-4	EPA 7420 (Lead)	11/09/94	11/11/94	125	Soil, mg/kg	2.4	1.0	CDR
941109-054	HA48-1	EPA 7420 (Lead)	11/09/94	11/11/94	606	Soil, mg/kg	4.8	2.0	CDR
941109-055	HA48-2	EPA 7420 (Lead)	11/09/94	11/11/94	72	Soil, mg/kg	2.4	1.0	CDR
941109-056	HA49-1	EPA 7420 (Lead)	11/09/94	11/11/94	93	Soil, mg/kg	2.4	1.0	CDR
941109-057	HA49-2	EPA 7420 (Lead)	11/09/94	11/11/94	3.0	Soil, mg/kg	2.4	1.0	CDR
941109-058	HA49-3	EPA 7420 (Lead)	11/09/94	11/11/94	6.0	Soil, mg/kg	2.4	1.0	CDR
941109-059	HA49-4	EPA 7420 (Lead)	11/09/94	11/11/94	35	Soil, mg/kg	2.4	1.0	CDR

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL X Dilution Factor
DF = Dilution Factor

Reviewed by Supervisor: _____

Reviewed/Approved By: _____ Date: 11-14-94
Michael A. Yartzoff
Laboratory Director

The cover letter is an integral part of this analytical report

Client: Geocon Environmental
Attn: Ms. Marget Lane

Client's Project: LA5 PM 26.7/36.4 8600-06-07A

Date Received: 11/09/94

Lab No.	Sample I.D.	Analysis	Date Sampled	Date Analyzed	Results;	Matrix, Units	DLR	DF	Analyst Initials
941109-060	S-1	EPA 418.1 (TRPH)	11/09/94	11/11/94	59	Soil, mg/kg	4	1	MCC
941109-061	S-2	EPA 418.1 (TRPH)	11/09/94	11/11/94	148	Soil, mg/kg	2	5	MCC

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL X Dilution Factor
DF = Dilution Factor

Reviewed by Supervisor: (d)

Reviewed/Approved By: M. Yartzoff
Michael A. Yartzoff
Laboratory Director

Date: 11-14-94

The cover letter is an integral part of this analytical report.

Spike Recovery and RPD Summary Report

Method: 7420
Analyst: CDR/OL
Data File: 4315 - 1

Date Analyzed: 11/11/94
Date Digested: 11/10/94
Sample ID: See Below
Matrix: STLC Extract

SAMPLE ID	UNITS	LCS Conc	LCS Res	% Rec	METH BLANK	SPL CONC	SPL DUP	% Dev	SPK ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	% REC Limit	RPD	RPD Limit	DLR
941109 - 024*	mg/L	10	9.6	96	ND	17	12	34	5.0	16	19	20	40	80 - 120	67	20	0.15
941109 - 034	mg/L	10	9.8	98	ND	2.5	2.6	4	5.0	6.8	6.3	86	76	80 - 120	12	20	0.15
941109 - 044	mg/L	10	9.8	98	ND	3.6	3.1	15	5.0	7.2	7.1	72	70	80 - 120	3	20	0.15

* Low spike recoveries and high RPD due to sample matrix interference.

Approved by: Cheryl de Los Reyes
Cheryl De Los Reyes
Inorganics Supervisor

Date: 11/11/94

Advanced Technology Laboratories

Client: Geocon
Attn: Ms. Marget Lane

Client's Project: LA5 PM 26.7/36.4, 8600-06-07A

Date Received: 11/09/94
Date Extracted: 11/16/94

Date Amended: 11/22/94

Lab No.	Sample I.D.	Analysis	Date Sampled	Date Analyzed	Results,	Matrix, Units	DLR	DF	Analyst Initials
941109-024	HA38-1	EPA 7420 (Lead)	11/09/94	11/19/94	20	STLC Extract, mg/L	0.60	4	CDR
941109-025	HA38-2	EPA 7420 (Lead)	11/09/94	11/19/94	11	STLC Extract, mg/L	0.15	1.0	CDR
941109-034	HA41-1	EPA 7420 (Lead)	11/09/94	11/19/94	7.4	STLC Extract, mg/L	0.15	1.0	CDR
941109-035	HA41-2	EPA 7420 (Lead)	11/09/94	11/19/94	4.7	STLC Extract, mg/L	0.15	1.0	CDR
941109-041	HA43-2	EPA 7420 (Lead)	11/09/94	11/19/94	7.3	STLC Extract, mg/L	0.15	1.0	CDR
941109-042	HA44-1	EPA 7420 (Lead)	11/09/94	11/19/94	11	STLC Extract, mg/L	0.30	2	CDR
941109-043	HA44-2	EPA 7420 (Lead)	11/09/94	11/19/94	40	STLC Extract, mg/L	0.60	4	CDR
941109-044	HA44-3	EPA 7420 (Lead)	11/09/94	11/19/94	14	STLC Extract, mg/L	0.30	2	CDR
941109-045	HA44-4	EPA 7420 (Lead)	11/09/94	11/19/94	10	STLC Extract, mg/L	0.15	1.0	CDR
941109-048	HA46-1	EPA 7420 (Lead)	11/09/94	11/19/94	5.9	STLC Extract, mg/L	0.15	1.0	CDR
941109-050	HA47-1	EPA 7420 (Lead)	11/09/94	11/19/94	6.8	STLC Extract, mg/L	0.15	1.0	CDR
941109-051	HA47-2	EPA 7420 (Lead)	11/09/94	11/19/94	5.3	STLC Extract, mg/L	0.15	1.0	CDR
941109-052	HA47-3	EPA 7420 (Lead)	11/09/94	11/19/94	4.6	STLC Extract, mg/L	0.15	1.0	CDR
941109-053	HA47-4	EPA 7420 (Lead)	11/09/94	11/19/94	9.8	STLC Extract, mg/L	0.15	1.0	CDR
941109-054	HA48-1	EPA 7420 (Lead)	11/09/94	11/19/94	50	STLC Extract, mg/L	1.2	8	CDR
941109-055	HA48-2	EPA 7420 (Lead)	11/09/94	11/19/94	4.4	STLC Extract, mg/L	0.15	1.0	CDR
941109-056	HA49-1	EPA 7420 (Lead)	11/09/94	11/19/94	5.7	STLC Extract, mg/L	0.15	1.0	CDR

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL X Dilution Factor
DF = Dilution Factor

Reviewed/Approved By: M. Yartzoff
Michael A. Yartzoff
Laboratory Director

Date: 11-23-94

The cover letter is an integral part of this analytical report.

Spike Recovery and RPD Summary Report

Method: 239.1
Analyst: ER/OL
Data File: 4323 - 1

Date: 11/19/94
Sample ID: See Below
Matrix: STLC Extract

Sample ID	UNITS	LCS Conc	LCS Res	% Rec	METH BLANK	SPL CONC	SPL DUP	% Dev	SPK ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	% Rec Limit	RPD	RPD Limit	DLR
941109-024	mg/L	5	5.0	100	ND	21	24	14	20	40	42	100	105	80 - 120	5	20	.15

Approved by: Cheryl de los Reyes
Cheryl De Los Reyes
Inorganics Supervisor

Date: 11/21/94

Advanced Technology Laboratories

Advanced Technology Laboratories

November 23, 1994

ELAP No.: 1838
Exp. Date: 12-31-94

Geocon Environmental
6970 Flanders Drive
San Diego, CA 92121

ATTN: Ms. Marget Lane

Client's Project: LA 5 PM 26.7/36.4, 8600-06-07A
Lab No.: 941121-006/009

Gentlemen:

Enclosed are the results for sample(s) received by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

The sample(s) arrived chilled, intact, with a chain of custody record attached.

Thank you for the opportunity to service the needs of your company. Please feel free to call me at (310) 989 – 4045 if I can be of further assistance to your company.

Sincerely,

Michael A. Yartzoff
Laboratory Director
MAY/cb

Enclosures

This cover letter is an integral part of this analytical report.

Mailing Address: P.O. Box 9108 Newport Beach, CA 92658
1500 E. 33rd Street Signal Hill, CA 90807 Tel: 310 989-4045 Fax: 310 989-4040

Client: Geocon Environmental
Attn: Ms. Marget Lane

Client's Project: LA 5 PM 26.7/36.4, 8600-06-07A

Date Received: 11/08/94
Date Extracted: 11/21/94
Date Amended: 11/28/94

Lab No.	Sample I.D.	Analysis	Date Sampled	Date Analyzed	Results,	Matrix, Units	DLR	DF	Analyst Initials
941121-006	HA22 – 3	EPA 239.1 (Lead)	11/08/94	11/23/94	ND	DI Water Extract, mg/L	0.15	1.0	KS
941121-007	HA24 – 3	EPA 239.1 (Lead)	11/08/94	11/23/94	ND	DI Water Extract, mg/L	0.15	1.0	KS
941121-008	HA25 – 1	EPA 239.1 (Lead)	11/08/94	11/23/94	ND	DI Water Extract, mg/L	0.15	1.0	KS
941121-009	HA29 – 1	EPA 239.1 (Lead)	11/08/94	11/23/94	0.55	DI Water Extract, mg/L	0.15	1.0	KS

MDL = Method Detection Limit
ND = Not Detected (Below DLR)
DLR = MDL X Dilution Factor
DF = Dilution Factor

Reviewed/Approved By: M. Yartzoff
Michael A. Yartzoff
Laboratory Director

Date: 11-28-94

The cover letter is an integral part of this analytical report.

Advanced Technology Laboratories
1510 E. 33rd Street Signal Hill, CA 90807 Tel: 310 989-4045 Fax: 310 989-4040

Spike Recovery and RPD Summary Report

Method: 239.1
Analyst: KS/OL
Data File: 4327 - 1

Date: 11/23/94
Sample ID: See Below
Matrix: DI Water Extract

Sample ID	UNITS	LCS Conc	LCS Res	% Rec	METH BLANK	SPL CONC	SPL DUP	% Dev	SPK ADDED	MS RESULT	MSD RESULT	%MS REC	%MSD REC	% Rec Limit	RPD	RPD Limit	DLR
941103-1491	mg/L	5.0	4.9	99	ND	0.97	0.94	3	5.0	5.4	5.5	89	91	55 - 130	2	30	0.15

Approved by: Cheryl de los Reyes
Cheryl De Los Reyes
Inorganics Supervisor

Date: 11/23/94

Advanced Technology Laboratories

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4905 D.O. # _____
P.O.#: _____
Logged By: JE Date: 11/7 Time: 5pm

Method of Transport: Walk-in ☐ Courier ☐ UPS ☐ FED. EXP. ☐ ATL

Sample Condition Upon Receipt:
CHILLED Y ☐ N ☒ CONTAINER INTACT Y ☒ N ☐
SEALED Y ☐ N ☒ # OF SPLS MATCH COC Y ☒ N ☐
SEAL INTACT Y ☐ N ☒ HAZARDOUS FEE Y ☐ N ☐
PRESERVED Y ☐ N ☐ HEADSPACE(VOA) Y ☐ N ☐
CONTR. LOT # _____ COOLER TEMP °C _____ (2-6)

Client: Geocon Environmental Consultants
Address: 6970 Flanders Drive
City San Diego State Ca Zip Code 92121
TEL: (619) 558-6900
FAX: (619) 558-6137

Project Name: LA5 PM 26.7/36.4 Project #: 8600-06-07A Sampler: (Printed Name) Margot Lane (Signature) Margot Lane

Relinquished by: (Signature and Printed Name) Margot Lane Margot Lane Received by: (Signature and Printed Name) _____ Date: 11-7-94 Time: 403
Relinquished by: (Signature and Printed Name) _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____
Relinquished by: (Signature and Printed Name) _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Margot Lane Date: 11/7/94
Print Name
Margot Lane
Signature

Special Instructions/Comments: MR
Perform ~~7420~~ TTLC ON ALL SAMPLES & FAX RESULTS - WILL THEN DO WET ON SAMPLES W/ CONC. OF LEAD GREATER THAN 10X STLC or 50 mg/l (LEAD priority US first) ~~- USE THESE 4 for WET TEST~~ WATER AREA 48 hr. TAT

SHIP TO LAB: (SUB CONTRACT) _____ TEST _____ ATL # _____ DATE _____ CLIENT I.D. _____
SHIP TO LAB: (SUB CONTRACT) _____ TEST: _____ ATL #: _____ DATE: _____ CLIENT I.D. _____
SHIP TO LAB: (SUB CONTRACT) _____ TEST: _____ ATL #: _____ DATE: _____ CLIENT I.D. _____

Circle or Add Analysis(es) Requested: 601/8010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240/8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX(COMBINATION); 8015M TPH/D (Diesel-GC); 418.1 (TPH-IR); Metals-Total (CAC-6010/7000); ~~7420~~ STLC (10); STLC (50)

CIRCLE APPROPRIATE MATRIX: SOIL/SOLID; WATER/LIQUID; SLUDGE/OIL; GAS/AIR; WIPE/FILTER; MULTIPHASE; OTHER

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s): #	Type	PRESERVATION
	941107-150	HA1-1	11/6	0911	48hr	1	G	
	153	HA1-2		0922	48hr	1	G	
	154	HA2-1		0930	48hr	1	G	
	155	HA2-2		0933	48hr	1	G	
	156	HA2-3		0938	48hr	1	G	
	157	HA2-4		0948	48hr	1	G	
	158	HA3-1		0946	48hr	1	G	
	159	HA3-2		0951	48hr	1	G	
	160	HA4-1		0955	48hr	1	G	
	161	HA4-2		0959	48hr	1	G	

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☒ OTHER _____ REMARKS

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other _____
☐ Return To: _____

TAT: A= 48 HR Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
• TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

* $40.00 FEE PER HAZARDOUS SAMPLE DISPOSAL

DISTRIBUTION: White with report, Blue with file folder, Green to organic, Yellow to inorganic, Pink to sample control, Gold to submitter

[redacted]

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4905 D.O. #: ______
P.O.#: ______
Logged By: JS Date: 11/7 Time: 5:00

Method of Transport: Walk-in ☐ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☑

Sample Condition Upon Receipt:
CHILLED Y ☑ N ☐ — CONTAINER INTACT Y ☑ N ☐
SEALED Y ☐ N ☐ — # OF SPLS MATCH COC Y ☑ N ☐
SEAL INTACT Y ☐ N ☐ — * HAZARDOUS FEE Y ☐ N ☐
PRESERVED Y ☐ N ☐ — HEADSPACE(VOA) Y ☐ N ☐
CONTR. LOT # ______ COOLER TEMP °C ______ (2-6)

Client: Geocon Environmental
Address: 6970 Flanders Drive
City: San Diego State: Ca Zip Code: 92121
TEL: (619) 558 6100
FAX: (619) 558 8437

Project Name: LA 5 PM 26.7/36.4 Project #: 8600-06-07A Sampler: (Printed Name) Marget Lane (Signature) [signature]

Relinquished by: (Signature and Printed Name) Marget Lane [signature] — Received by: (Signature and Printed Name) [signature] — Date: 11-7-94 Time: 4:05
Relinquished by: (Signature and Printed Name) — Received by: (Signature and Printed Name) — Date: — Time:
Relinquished by: (Signature and Printed Name) — Received by: (Signature and Printed Name) — Date: — Time:

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Marget Lane Date: 11, 7, 94
Print Name
[signature]
Signature

Special Instructions/Comments: ~~7420~~ ~~7421~~ TTLC on ALL SAMPLES - FAX RESULTS - WILL THEN DO WET ON SAMPLES Greater than 50 mg/kg (PLEASE WAIT TO GET GO AHEAD).
48 HR TAT

SHIP TO LAB: (SUB CONTRACT) ______ TEST: ______ ATL #: ______ DATE: ______ CLIENT I.D. ______ (×3)

Circle or Add Analysis(es) Requested: 601/8010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240/8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX (COMBINATION); 8015M TPH/D (Diesel-GC); 418.1 (TPH-IR); Metals-Total (CAC-6010/7000); ~~7420~~ ~~7421~~ lead TTLC; STLC (Pb)

CIRCLE APPROPRIATE MATRIX: SOIL/SOLID, WATER/LIQUID, SLUDGE/OIL, GAS/AIR, WIPE/FILTER, MULTIPHASE, OTHER

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☑ OTHER ______

LAB USE ONLY: Batch #: Lab No.	Sample I.D.	Date	Time	Lead TTLC	STLC (Pb)	Matrix	TAT	#	Type	Preservation	Remarks
941107-162	HA4-3	11/4	0958	X		S	48hr	1	GJ		
163	HA4-4	↓	1012	X	X	S	48hr	1	GJ		
164	HA5-1	↓	1005	X	X	S	48hr	1	GJ		
165	HA5-2	↓	1010	X		S	48hr	1	GJ		
166	HA6-1	↓	1015	X	X	S	48hr	1	GJ		
167	HA6-2	↓	1025	X	X	S	48hr	1	GJ		
168	HA6-3	↓	1030	X	X	S	48hr	1	GJ		
169	HA6-4	↓	1045	X		S	48hr	1	GJ		
170	HA7-1	↓	1035	X		S	48hr	1	GJ		
171	HA7-2	↓	1046	X	X	S	48hr	1	GJ		

Sample Archive/Disposal: ☐ Laboratory Standard ☐ Other ______ ☐ Return To: ______

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday (C)= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
* TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

DISTRIBUTION: White with report, Blue with file folder, Green to organic, Yellow to inorganic, Pink to sample control, Gold to submitter

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4905 D.O. # _____
P.O.#: _____
Logged By: JE Date: 11/7 Time: 5pm

Method of Transport: Walk-in ☐ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☑

Sample Condition Upon Receipt:
CHILLED Y ☑ N ☐ CONTAINER INTACT Y ☑ N ☐
SEALED Y ☐ N ☑ # OF SPLS MATCH COC Y ☑ N ☐
SEAL INTACT Y ☐ N ☑ * HAZARDOUS FEE Y ☐ N ☐
PRESERVED Y ☐ N ☑ HEADSPACE(VOA) Y ☐ N ☐
CONTR. LOT # _____ COOLER TEMP °C _____ (2-6)

Client: Grecon Environmental
Address: 6970 Flanders Drive
City San Diego State Ca Zip Code 92121
TEL: (619) 558-6100
FAX: (619) 558-8437

Project Name: LA 5 PM 36.7/34.4 Project #: 8600-06-03-A
Sampler: (Printed Name) Doug Winchester (Signature) Doug Winchester

Relinquished by: (Signature and Printed Name) Margot Lane Margot Lane
Received by: (Signature and Printed Name) [signature] Date: 11-7-94 Time: 8:05

Relinquished by: (Signature and Printed Name)
Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name)
Received by: (Signature and Printed Name) Date: Time:

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter:
Margot Lane (Print Name) Date: 11/7/94
Margot Lane (Signature)

Special Instructions/Comments: Do the ~~5420~~ TTLC on all samples & FAX Results - Then after our Go ahead will do WET on samples over 50 mg/kg 48 TAT

SHIP TO LAB: (SUB CONTRACT) _____ TEST _____ ATL # _____ DATE _____ CLIENT I.D. _____

SHIP TO LAB: (SUB CONTRACT) _____ TEST: _____ ATL #: _____ DATE: _____ CLIENT I.D. _____

SHIP TO LAB: (SUB CONTRACT) _____ TEST: _____ ATL #: _____ DATE: _____ CLIENT I.D. _____

Circle or Add Analysis(es) Requested

CIRCLE APPROPRIATE MATRIX

ITEM	LAB USE ONLY: Batch # / Lab No.	Sample Description: Sample I.D.	Date	Time	6010 (Halogenated Volatiles-GC)	8020/BTEX (Aromatic Volatiles-GC)	8080 (Pesticides/PCB-GC)	8240/8260 (Volatiles-GC/MS)	8270 (BNA-GC/MS)	8015M TPHG/BTEX(COMBINATION)	8015M TPHD (Diesel-GC)	418.1 (TPH-IR)	Metals-Total (CAC-6010/7000)	Lead 7420	STLC (Pb)	SOIL/SOLID	WATER/LIQUID	SLUDGE/OIL	GAS/AIR	WIPE/FILTER	MULTIPHASE	OTHER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	9411107-172	HA8-1	11/7	1057									X			S							48 HR	1	G J		
	173	HA8-2		1055									X		X	S								1	G J		
	174	HA8-3		1057									X		X	S								1	G J		
	175	HA8-4		1109									X		X	S								1	G J		
	176	HA9-1		1100									X		X	S								1	G J		
	177	HA9-2		1111									X			S								1	G J		
	178	HA10-1		1116									X		X	S								1	G J		
	179	HA10-2		1120									X		X	S								1	G J		
	180	HA10-3		1130									X			S								1	G J		
	181	HA10-4		1140									X		X	S								1	G J		

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☑ OTHER _____

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other _____
☐ Return To: _____

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
• TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL DISTRIBUTION: White with report, Pink with file, Green

CHAIN OF CUSTODY RECORD

Pg 1 of 1

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4905 D.O. #
P.O.#:
Logged By: JE Date: 11/7 Time: 9:00

Method of Transport: Walk-in ☐ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☑

Sample Condition Upon Receipt:
CHILLED Y ☐ N ☑ CONTAINER INTACT Y ☑ N ☐
SEALED Y ☐ N ☑ # OF SPLS MATCH COC Y ☐ N ☐
SEAL INTACT Y ☐ N ☑ * HAZARDOUS FEE Y ☐ N ☐
PRESERVED Y ☐ N ☑ HEADSPACE(VOA) Y ☐ N ☐
CONTR. LOT # COOLER TEMP °C (2-6)

Client: Geocon Environmental
Address: 6970 Flanders DRIVE
City San Diego State CA Zip Code 92121
TEL: (619) 558-6100
FAX: (619) 558-6439

Project Name: LA5 PM 26.7/36.4 Project #: 8600-06-07.4 Sampler: (Printed Name) Margot Lane (Signature) Margot Lane

Relinquished by: (Signature and Printed Name) Margot Lane Margot Lane Received by: (Signature and Printed Name) Date: 11-7-94 Time: 405
Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) DW 7420 Date: Time:

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Margot Lane Date: 11.7.94
Print Name: Margot Lane
Signature:

Special Instructions/Comments: DO [redacted] TTLC on ALL SAMPLES & FAX RESULTS - THEN AFTER OUR GO AHEAD WILL DO WET ON SAMPLES over 50 mg/kg
48 hr TAT

SHIP TO LAB: (SUB CONTRACT) TEST ATL # DATE CLIENT ID
SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT ID
SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT ID

Circle or Add Analysis(es) Requested: 601/8010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240/8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX(COMBINATION); 8015M TPHD (Diesel-GC); 418.1 (TPH-IR); Metals-Total (CAC-6010/7000); Lead 7420; STLC(PB)

CIRCLE APPROPRIATE MATRIX: SOIL/SOLID; WATER/LIQUID; SLUDGE/OIL; GAS/AIR; WIPE/FILTER; MULTIPHASE; OTHER

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s): #	Type	PRESERVATION	QA/QC / REMARKS
	941107-182	HA11-1	11/2/94	1141	48hr	1	G		
	183	HA11-2		1150	48	1	G		
	184	HA12-1		1200	48	1	G		
	185	HA12-2		1210	48	1	G		
	186	HA12-3		1230	48	1	G		
	187	~~HA12-4~~		—	48	1	G		
	188	HA13-1		1249	48	1	G		
	189	HA13-2		1257	48	1	G		
	190	HA14-1		1340	48	1	G		
	191	HA14-2		1308	48	1	G		

Sample Archive/Disposal: ☐ Laboratory Standard ☐ Other ☐ Return To:

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays • TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

DISTRIBUTION: White with report, Blue with file folder, Green to organic, Yellow to inorganic, Pink to sample control, Gold to submitter

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4905 D.O. # _____
P.O.#: _____
Logged By: JS Date: 11/7 Time: 500

Method of Transport: Walk-in ☐ Courier ☐ UPS ☐ FED. EXP. ☐ ATL

Sample Condition Upon Receipt:
CHILLED Y ☐ N ☐ — CONTAINER INTACT Y ☑ N ☐
SEALED Y ☐ N ☑ — # OF SPLS MATCH COC Y ☑ N ☐
SEAL INTACT Y ☐ N ☑ — HAZARDOUS FEE Y ☐ N ☐
PRESERVED Y ☐ N ☐ — HEADSPACE(VOA) Y ☐ N ☐
CONTR. LOT # _____ COOLER TEMP °C _____ (2-6)

Client: Geocon Environmental
Address: 6970 Flanders Drive
City San Diego State Ca Zip Code 92121
TEL: (619) 558-6100
FAX: (619) 558-8437

Project Name: LA 5 PM 26.7/36.4 Project #: 8600-C10-07A
Sampler: (Printed Name) Margot Lane (Signature) Margot Lane

Relinquished by: (Signature and Printed Name) Margot Lane Margot Lane
Received by: (Signature and Printed Name) [signature] Date: 11-7-94 Time: 405
Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: Time:

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Margot Lane Date: 11,7,94
Print Name
Margot Lane
Signature

Special Instructions/Comments: DO 7420 on all samples and FAX results. THEN AFTER OUR GO AHEAD WILL DO WET ON SAMPLES OVER 50mg/kg
48 hr TAT

SHIP TO LAB: (SUB CONTRACT) TEST ATL # DATE CLIENT ID
SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT ID:
SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT ID:

Circle or Add Analysis(es) Requested: 601/6010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240/8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX(COMBINATION); 8015M TPH/D (Diesel-GC); 418.1 (TPH-IR); Metals-Total (CAC-6010/7000); Lead 7420; STLC(TTLC)

CIRCLE APPROPRIATE MATRIX: MATRIX: SOIL/SOLID; WATER/LIQUID; SLUDGE/OIL; GAS/AIR; WIPE/FILTER; MULTIPHASE; OTHER; TAT

PRESERVATION

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☑ OTHER _____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	Container(s): #	Type	REMARKS
	94167-192	HA14-3	11/7/94	1310	1	6-G	
	193	HA14-4		1315	1	G	
	194	HA15-1		1320	1	G	
	195	HA15-2		1327	1	G	
	196	HA16-1		1330	1	G	
	197	HA16-2		1333	1	G	
	198	HA16-3		1335	1	G	
	199	HA16-4		1343	1	G	
	200	HA17-1		1347	1	G	
	201	HA17-2		1353	1	G	

Sample Archive/Disposal: ☐ Laboratory Standard ☐ Other _____ ☐ Return To: _____

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays • TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

DISTRIBUTION: White with report, Blue with file folder, Green to organic, Yellow to inorganic, Pink to sample control, Gold to submitter

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4903 D.O. #
P.O.#:
Logged By: JE Date: 11/7 Time: 500

Method of Transport: Walk-in ☐ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☑

Sample Condition Upon Receipt: CHILLED Y ☑ N ☐ CONTAINER INTACT Y ☑ N ☐ SEALED Y ☐ N ☑ # OF SPLS MATCH COC Y ☑ N ☐ SEAL INTACT Y ☐ N ☑ * HAZARDOUS FEE Y ☐ N ☐ PRESERVED Y ☐ N ☐ HEADSPACE(VOA) Y ☐ N ☐ CONTR. LOT # COOLER TEMP °C (2-6)

Client: Geocon Environmental
Address: 6970 Flanders Drive
City: San Diego State: CA Zip Code: 92121
TEL:(619) 558 6100
FAX:(619) FAX 841357

Project Name: CA 5 PM 26.7/36.4 Project #: 8000-06-07A Sampler: (Printed Name) Margot Lane (Signature) Margot Lane

Relinquished by: (Signature and Printed Name) Margot Lane Margot Lane Received by: (Signature and Printed Name) Date: 11-7-94 Time: 4 05
Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: Time:

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Margot Lane Date: 11,7,94
Print Name
Margot Lane
Signature

Special Instructions/Comments: DO 7420 on all samples and FAX results - THEN AFTER OUR GO AHEAD will DO WET ON samples over 50 mg/kg.
48 hr TAT

SHIP TO LAB: (SUB CONTRACT) TEST ATL # DATE CLIENT I.D.
SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT I.D.
SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT I.D.

Circle or Add Analysis(es) Requested: 601/8010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240/8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX(COMBINATION); 8015M TPH/D (Diesel-GC); 418.1 (TPH-IR); Metals-Total (CAC-50107000); 7420 Lead; STLC (Pb)

CIRCLE APPROPRIATE MATRIX: SOIL/SOLID; WATER/LIQUID; SLUDGE/OIL; GAS/AIR; WIPE/FILTER; MULTIPHASE; OTHER

ITEM	LAB USE ONLY: Batch #: Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s): #	Type	PRESERVATION
	9411107-202	HA18-1	11/7	1400	48 hr	1	G	
	203	HA18-2		1405		1	G	
	204	HA18-3		1407		1	G	
	205	HA18-4		1410		1	G	
	206	HA19-1		1407		1	G	
	207	HA19-2		1412		1	G	
	208	HA20-1		1413		1	G	
	209	HA20-2		1416		1	G	
	210	HA20-3		1420		1	G	
	211	HA20-4		1430	↓	1	G	

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☑ OTHER

REMARKS

Sample Archive/Disposal: ☐ Laboratory Standard ☐ Other ☐ Return To:

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays • TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

$40.00 FEE PER HAZARDOUS SAMPLE DISPOSAL

DISTRIBUTION: **White** with report, **Blue** with file folder, **Green** to organic, **Yellow** to inorganic, **Pink** to sample control, **Gold** to submitter

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4922 D.O. # _____
P.O.#: _____
Logged By: JE Date: 11/8 Time: 5pm

Method of Transport: Walk-in [X] Courier [ ] UPS [ ] FED. EXP. [ ] ATL [ ]

Sample Condition Upon Receipt: CHILLED Y [X] N [ ] | SEALED Y [ ] N [X] | SEAL INTACT Y [ ] N [X] | PRESERVED Y [ ] N [X] | CONTR. LOT # _____ | CONTAINER INTACT Y [X] N [ ] | # OF SPLS MATCH COC Y [X] N [ ] | * HAZARDOUS FEE Y [ ] N [ ] | HEADSPACE(VOA) Y [ ] N [ ] | COOLER TEMP °C _____ (2-6)

Client: Grecon Environmental
Address: 6972 Flanders Drive
City San Diego State CA Zip Code 92121
TEL:(619) 558-6100
FAX:(619) 558-3437

Project Name: I-5 PM 26.7/36.4 Project #: 8000-06-07A Sampler: (Printed Name) Margaret Lane (Signature) Margaret Lane

Relinquished by: (Signature and Printed Name) _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Relinquished by: (Signature and Printed Name) _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Relinquished by: (Signature and Printed Name) Margaret Lane Received by: (Signature and Printed Name) Mitch Mortiz Date: 11/8/94 Time: 4:10pm

Unless otherwise requested, all sample's will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Margaret Lane Date: 11.8.94
Print Name
Margaret Lane
Signature

Special Instructions/Comments: DO 7420 TTLC LEAD ON ALL SAMPLES - FAX RESULTS + UPON OUR GO AHEAD DO WET ON SAMPLES OVER 50 mg/kg
TAT 48 hrs

SHIP TO LAB: (SUB CONTRACT) _____ TEST _____ ATL # _____ DATE _____ CLIENT I.D. _____

SHIP TO LAB: (SUB CONTRACT) _____ TEST: _____ ATL #: _____ DATE: _____ CLIENT I.D. _____

SHIP TO LAB: (SUB CONTRACT) _____ TEST: _____ ATL #: _____ DATE: _____ CLIENT I.D. _____

Circle or Add Analysis(es) Requested: 601/8010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240/8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX(COMBINATION); 8015M TPH/D (Diesel-GC); 418.1 (TPH-IR); Metals-Total (CAC-6010/7000); 7420 TTLC Lead; STLC(PB)

CIRCLE APPROPRIATE MATRIX: SOIL/SOLID; WATER/LIQUID; SLUDGE/OIL; GAS/AIR; WIPE/FILTER; MULTIPHASE; OTHER

PRESERVATION

QA/QC: RTNE [ ] RWQCB [ ] WIP [ ] NAVY [ ] CT [X] OTHER _____

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s): #	Type	REMARKS
	94/1108-051	HA21-1	11/8	1125	C	1	VOA	
	-052	HA21-2		1130		1	VOA	
	-053	HA22-1		1120		1	VOA	
	-054	HA22-2		1127		1	VOA	
	-055	HA22-3		1132		1	VOA	
	-056	HA22-4		1140		1	VOA	
	-057	HA23-1		1138		1	VOA	
	-058	HA23-2		1141		1	VOA	
	-059	HA24-1		1142		1	VOA	
	-060	HA24-2		1148		1	VOA	

Sample Archive/Disposal: [ ] Laboratory Standard [ ] Other _____ [ ] Return To: _____

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays • TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

DISTRIBUTION: **White** with report **Blue** with file folder, **Green** to organic, **Yellow** to inorganic, **Pink** to sample control, **Gold** to submitter

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4922 D.O. #
P.O.#:
Logged By: JG Date: 11/8 Time: 5pm

Method of Transport: Walk-in [X] Courier [ ] UPS [ ] FED. EXP. [ ] ATL [ ]

Sample Condition Upon Receipt: CHILLED Y [X] N [ ] SEALED Y [ ] N [X] SEAL INTACT Y [ ] N [X] PRESERVED Y [ ] N [X] CONTR. LOT # ; CONTAINER INTACT Y [X] N [ ] # OF SPLS MATCH COC Y [X] N [ ] * HAZARDOUS FEE Y [ ] N [ ] HEADSPACE(VOA) Y [ ] N [ ] COOLER TEMP °C (2-6)

Client: Geocon Environmental
Address: 6970 Flanders DRIVE
City: San Diego State: CA Zip Code: 92121
TEL: (619) 558 6100
FAX: (619) 558 5437

Project Name: LA 5 PM 26.7/36.4 Project #: 8600-06-074 Sampler: (Printed Name) Margie (Signature) Margie Kane

Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name) Margie Kane Received by: (Signature and Printed Name) M. Cruz Date: 11/8/94 Time: 4:10pm

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Margret Lane Date: 11,8,94
Print Name
Margret Lane
Signature

Special Instructions/Comments: DO 7420 TTLC LEAD ON ALL Samples
- FAX RESULTS - ON OUR GO AHEAD DO WET ON SAMPLES over 50 mg/kg
TAT 48 hrs

SHIP TO LAB: (SUB CONTRACT) TEST ATL # DATE CLIENT I.D.
SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT I.D.
SHIP TO LAB: (SUB CONTRACT) TEST. ATL #. DATE: CLIENT I.D.

Circle or Add Analysis(es) Requested: 601/8010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240/8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX(COMBINATION); 8015M TPHD (Diesel-GC); 418.1 (TPH-IR); Metals-Total (CAC-6010/7000); 7420 TTLC Lead; STLC (5); CIRCLE APPROPRIATE MATRIX: SOIL/SOLID; WATER/LIQUID; SLUDGE/OIL; GAS/AIR; WIPE/FILTER; MULTIPHASE; OTHER; TAT; Container(s) # Type; PRESERVATION; QA/QC: RTNE [ ] RWQCB [ ] WIP [ ] NAVY [ ] CT [X] OTHER

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	601/8010	602/8020/BTEX	608/8080	624/8240/8260	625/8270	8015M TPHG/BTEX(COMBINATION)	8015M TPHD	418.1	Metals-Total	7420 TTLC Lead	STLC (5)	SOIL/SOLID	WATER/LIQUID	SLUDGE/OIL	GAS/AIR	WIPE/FILTER	MULTIPHASE	OTHER	TAT	#	Type	PRESERVATION	REMARKS
	94/1108-061	HA24-3	11/8	1159										X	X	S							C	1	G		
	-062	HA26-1		1212										X		S								1	G		
	-063	HA26-2		1216										X	X	S								1	G		
	-064	HA26-3		1227										X		S								1	G		
	-065	HA26-4		1240										X		S								1	G		
	-066	HA25-1		1235										X		S								1	G		
	-067	HA25-2		1240										X		S								1	G		
	-068	HA27-1		1200										X		S								1	G		
	-069	HA27-2		1211										X	X	S								1	G		
	-070	HA28-1		1249										X		S								1	G		

Sample Archive/Disposal: [ ] Laboratory Standard [ ] Other [ ] Return To:

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays • TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

Yellow to inorganic, Pink to sample control, Gold to submitter

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4922 D.O. # _____
P.O.#: _____
Logged By: BS Date: 11/8 Time: 5pm

Method of Transport: Walk-in [X] Courier [ ] UPS [ ] FED. EXP. [ ] ATL [ ]

Sample Condition Upon Receipt:
CHILLED Y[X] N[ ] SEALED Y[ ] N[X] SEAL INTACT Y[ ] N[X] PRESERVED Y[ ] N[X] CONTR. LOT # _____
CONTAINER INTACT Y[X] N[ ] # OF SPLS MATCH COC Y[X] N[ ] * HAZARDOUS FEE Y[ ] N[ ] HEADSPACE(VOA) Y[ ] N[ ] COOLER TEMP °C _____ (2-6)

Client: Beacon Environmental
Address: 6970 Flanders Drive
City San Diego State CA Zip Code 92121
TEL: (619) 558 6100
FAX: (619) 505 8437

Project Name: LA5 PM 26.7/30.4 Project #: 8600-06-07-4 Sampler: (Printed Name) Margot Lane (Signature) Margot Lane

Relinquished by: (Signature and Printed Name) _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Relinquished by: (Signature and Printed Name) _____ Received by: (Signature and Printed Name) _____ Date: _____ Time: _____

Relinquished by: (Signature and Printed Name) Margot Lane Received by: (Signature and Printed Name) D. Hill / M. Cruz Date: 11/8/94 Time: 4:10pm

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Margot Lane (Print Name) Date: 11.8.94
Margot Lane (Signature)

Special Instructions/Comments: DO 7420 TTLC ON ALL SAMPLES - FAX RESULTS - ON OUR GO AHEAD DO WET ON SAMPLES over 50 mg/kg
TAT 48 hrs

SHIP TO LAB: (SUB CONTRACT) _____ TEST _____ ATL # _____ DATE _____ CLIENT I.D. _____

SHIP TO LAB: (SUB CONTRACT) _____ TEST: _____ ATL #: _____ DATE: _____ CLIENT I.D. _____

SHIP TO LAB: (SUB CONTRACT) _____ TEST: _____ ATL #: _____ DATE: _____ CLIENT I.D. _____

Circle or Add Analysis(es) Requested: 601/8010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240/8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX(COMBINATION); 8015M TPHD (Diesel-GC); 418.1 (TPH-IR); Metals-Total (CAC-5010/7000); 7420 TTLC Lead STLC(PB)

CIRCLE APPROPRIATE MATRIX: SOIL/SOLID; WATER/LIQUID; SLUDGE/OIL; GAS/AIR; WIPE/FILTER; MULTIPHASE; OTHER

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s): #	Type	PRESERVATION	REMARKS
	94/108-071	HA28-2	11/8	1251	C	1	G		
	-072	HA28-3		1300		1	G		
	-073	HA28-4		1308		1	G		
	-074	HA29-1		1355		1	G		
	-075	HA29-2		1310		1	G		
	-076	HA30-1		1310		1	G		
	-077	HA30-2		1313		1	G		
	-078	HA30-3		1320		1	G		
	-079	HA30-4		1335		1	G		
	-080	HA31-1	V	1315		1	G		

QA/QC: RTNE [ ] RWQCB [ ] WIP [ ] NAVY [ ] CT [X] OTHER _____

Sample Archive/Disposal: [ ] Laboratory Standard [ ] Other _____ [ ] Return To: _____

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
• TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

$10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL

DISTRIBUTION: **White** with report, **Blue** with file folder, **Green** to organic, **Yellow** to inorganic, **Pink** to sample control, **Gold** to submitte

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4922 D.O. # ____
P.O.#: ____
Logged By: JE Date: 11/8 Time: 5pm

Method of Transport: Walk-in [X] Courier [ ] UPS [ ] FED. EXP. [ ] ATL [ ]

Sample Condition Upon Receipt:
CHILLED Y [X] N [ ] CONTAINER INTACT Y [X] N [ ]
SEALED Y [ ] N [X] # OF SPLS MATCH COC Y [X] N [ ]
SEAL INTACT Y [ ] N [X] * HAZARDOUS FEE Y [ ] N [ ]
PRESERVED Y [ ] N [X] HEADSPACE(VOA) Y [ ] N [ ]
CONTR. LOT # ____ COOLER TEMP °C ____ (2-6)

Client: Geocon Environmental
Address: 6970 Flanders DRIVE
City San Diego State CA Zip Code 92121
TEL: (619) 558 6100
FAX: (619) 558 8437

Project Name: LA5 PM 26.7/36.4 Project #: 8600-0607A Sampler: (Printed Name) Margot Lane (Signature) Margot Lane.

Relinquished by: (Signature and Printed Name) ____ Received by: (Signature and Printed Name) ____ Date: ____ Time: ____

Relinquished by: (Signature and Printed Name) ____ Received by: (Signature and Printed Name) ____ Date: ____ Time: ____

Relinquished by: (Signature and Printed Name) Margot Lane Received by: (Signature and Printed Name) Maribel Cruz 11/8/94 Time: 4:10pm

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Margot Lane Date: 11,8,94
Print Name: Margot Lane
Signature

Special Instructions/Comments: DO 7420 TILC ON ALL SAMPLES
- FAX RESULTS - ON OUR GO AHEAD DO LUFT ON SAMPLES OVER 50 mg/kg
TAT 48 hrs

SHIP TO LAB: (SUB CONTRACT) ____ TEST ____ ATL # ____ DATE: ____ CLIENT I.D. ____

SHIP TO LAB: (SUB CONTRACT) ____ TEST: ____ ATL #: ____ DATE: ____ CLIENT I.D. ____

SHIP TO LAB: (SUB CONTRACT) ____ TEST: ____ ATL #: ____ DATE: ____ CLIENT I.D. ____

Circle or Add Analysis(es) Requested: 601/8010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240/8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX(COMBINATION); 8015M TPH/D (Diesel-GC); 418.1 (TPH-IR); Metals-Total (CAC-6010/7000); STLC (Pb)

CIRCLE APPROPRIATE MATRIX: SOIL/SOLID; WATER/LIQUID; SLUDGE/OIL; GAS/AIR; WIPE/FILTER; MULTIPHASE; OTHER

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s): #	Type	PRESERVATION
	9411108-081	HA 31 -2	11/8	1335	C	1	G	
	-082	HA 32-1		1338		1	G	
	-083	HA 32-2		1345		1	G	
	-084	HA 32-3		1400		1	G	
	-085	HA 32-4		1410		1	G	
	-086	HA 33-1		1345		1	G	
	-087	HA 33-2		1410		1	G	
	-088	HA 34-1		1403		1	G	
	-089	HA 34-2		1410		1	G	
	-090	HA 34-3		1421		1	G	

QA/QC: RTNE [ ] RWQCB [ ] WIP [ ] NAVY [ ] CT [X] OTHER ____ REMARKS

Sample Archive/Disposal: [ ] Laboratory Standard [ ] Other ____ [ ] Return To: ____

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
• TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

DISTRIBUTION: White with report, Blue with file folder, Green to organic, Yellow to inorganic, Pink to sample control, Gold to submitter

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4922 D.O. #
P.O.#:
Logged By: JS Date: 11/8 Time: 500

Method of Transport: Walk-in X; Courier; UPS; FED. EXP.; ATL

Sample Condition Upon Receipt: CHILLED Y X N; SEALED Y N X; SEAL INTACT Y N X; PRESERVED Y N X; CONTR. LOT #; CONTAINER INTACT Y X N; # OF SPLS MATCH COC Y X N; * HAZARDOUS FEE Y N; HEADSPACE(VOA) Y N; COOLER TEMP °C (2-6)

Client: Geocon Environmental
Address: 6970 Flanders Drive
City San Diego State CA Zip Code 92121
TEL: (619) 558 6100
FAX: (619) 558 5437

Project Name: LA5 PM 26.7/36.4 Project #: 8600-06-07A Sampler: (Printed Name) Margot Lane (Signature) Margot Lane

Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Margot Lane Received by: (Signature and Printed Name) Date: 11/8/94 Time: 4:10 pm

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Margot Lane (Print Name) Date: 11.8.94
Margot Lane (Signature)

Special Instructions/Comments: DO 7420 TLC ON ALL Samples
- FAX RESULTS - ON OUR GO AHEAD DO WET ON SAMPLES OVER 50 mg/kg
TAT 48 hrs

SHIP TO LAB: (SUB CONTRACT) TEST ATL # DATE CLIENT I.D.
SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT I.D.
SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT I.D.

Circle or Add Analysis(es) Requested: 601/8010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240/8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX(COMBINATION); 8015M TPHD (Diesel-GC); 418.1 (TPH-IR); Metals-Total (CAC-6010/7000); 7420 TLC; STLC (15)

CIRCLE APPROPRIATE MATRIX: SOIL/SOLID; WATER/LIQUID; SLUDGE/OIL; GAS/AIR; WIPE/FILTER; MULTIPHASE; OTHER

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s): #	Type	PRESERVATION	REMARKS
	9411108-091	HA34-4	11/8	1430	C	1	G-T		
	-092	HA35-1		1445		1	P		Multi-Day
	-093	HA35-2		1430		1			
	-094	HA36-1		1435		1			
	-095	HA36-2		1445		1			
	-096	HA36-3		1459		1			
		~~HA36-4~~							
	-097	HA37-1		1440		1	P		
	-098	HA37-2		1500		1	P		
		HA							

QA/QC: RTNE; RWQCB; WIP; NAVY; CT X; OTHER

Sample Archive/Disposal: Laboratory Standard; Other; Return To:

TAT: A= Overnight ≤ 24 hr; B= Emergency Next workday; C= Critical 2 Workdays; D= Urgent 3 Workdays; E= Routine 7 Workdays
• TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL

DISTRIBUTION: White with report, Blue with file folder, Green to organic, Yellow to inorganic, Pink to sample control, Gold to submitter

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4931 D.O. # _____
P.O.#: _____
Logged By: RC Date: 11-9-94 Time: 4:45p

Method of Transport: Walk-in ☒ Courier ☐ UPS ☐ FED. EXP ☐ ATL ☐

Sample Condition Upon Receipt:

CHILLED	Y ☒	N ☐	CONTAINER INTACT	Y ☒	N ☐
SEALED	Y ☐	N ☒	# OF SPLS MATCH COC	Y ☒	N ☐
SEAL INTACT	Y ☐	N ☒	* HAZARDOUS FEE	Y ☐	N ☐
PRESERVED	Y ☐	N ☒	HEADSPACE(VOA)	Y ☐	N ☐
CONTR. LOT #	_____		COOLER TEMP °C	_____	(2-6)

Client: Geocon Environmental
Address: 6970 Flanders Drive
City: San Diego State: CA Zip Code: 92121
TEL: (619) 558 6100
FAX: (619) 558 6437

Project Name: LA5 PM 26.7/36.4 Project #: 8000-06-07A Sampler: (Printed Name) Margot Lane (Signature) Margot Lane

Relinquished by: (Signature and Printed Name) Margot Lane Received by: (Signature and Printed Name) Date: 11/9/94 Time:
Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: 11/09/94 Time: 2:30 PM

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Margot Lane (Print Name) Date: 11.9.94
Margot Lane (Signature)

Special Instructions/Comments: DO 7420 TTLC ON ALL SAMPLES - PLEASE FAX RESULTS - ON OUR GO AHEAD DO WET ON SAMPLES OVER 50 mg/kg TAT 48 hrs

SHIP TO LAB: (SUB CONTRACT) _____ TEST _____ ATL # _____ DATE _____ CLIENT I.D. _____
SHIP TO LAB: (SUB CONTRACT) _____ TEST: _____ ATL #: _____ DATE: _____ CLIENT I.D. _____
SHIP TO LAB: (SUB CONTRACT) _____ TEST. _____ ATL # _____ DATE: _____ CLIENT I.D. _____

Circle or Add Analysis(es) Requested: 601/8010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240/8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX(COMBINATION); 8015M TPHD (Diesel-GC); 418.1 (TPH-IR); Metals: Total (CAC-6010/7000); 7420 Lead TTLC

CIRCLE APPROPRIATE MATRIX: SOIL/SOLID; WATER/LIQUID; SLUDGE/OIL; GAS/AIR; WIPE/FILTER; MULTIPHASE; OTHER

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s): #	Type	PRESERVATION
	941109-024	HA38 - 1	11/9	0731	C	1	G	
	025	HA36 - 2		0759		1		
	026	HA36 - 3		0747		1		
	027	HA38 - 4		0801		1		
	028	HA39 - 1		0715		1		
	029	HA39 - 2		0725		1		
	030	HA40 - 1		0751		1		
	031	HA40 - 2		0807		1		
	032	HA40 - 3		0814		1		
	033	HA40 - 4		0822		1		

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☒ OTHER _____

REMARKS

Sample Archive/Disposal: ☐ Laboratory Standard ☐ Other _____ ☐ Return To: _____

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
• TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

DISTRIBUTION: **White** with report, **Blue** with file folder, **Green** to organic, **Yellow** to inorganic, **Pink** to sample control, **Gold** to submitter

CHAIN OF CUSTODY RECORD

Pg ___

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4931 D.O. # ____
P.O.#: ____
Logged By: ____ Date: 11-9-94 Time: 9:45

Walk-in ☒ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

CHILLED Y ☒ N ☐ CONTAINER INTACT Y ☒ N ☐
SEALED Y ☐ N ☒ # OF SPLS MATCH COC Y ☒ N ☐
SEAL INTACT Y ☐ N ☒ * HAZARDOUS FEE Y ☐ N ☐
PRESERVED Y ☐ N ☒ HEADSPACE(VOA) Y ☐ N ☐
CONTR. LOT # ____ COOLER TEMP °C ____ (2-6)

Client: Geocon Environmental
Address: 6970 Flanders Drive
City San Diego State Ca Zip Code 92121
TEL: 619 558-6100
FAX: 619 558-8437

Project Name: L.A.5 pm 36.7/36.4 Project #: 8600-06-07A
Sampler: (Printed Name) Doug Winchester (Signature)

Relinquished by: (Signature and Printed Name) Margaret Lane Margaret Lane
Received by: (Signature and Printed Name) Date: 11/9/94 Time:
Relinquished by: (Signature and Printed Name)
Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name)
Received by: (Signature and Printed Name) Lane Date: 11/09/94 Time: 12:30

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Margaret Lane Date: 11,9,94
Print Name
Margaret Lane
Signature

Special Instructions/Comments: Do 7420 TTLC on all samples
Please Fax results - on our [redacted] go ahead do wet on samples over 50 mg/kg
TAT 48 hrs

SHIP TO LAB: (SUB CONTRACT) ____ TEST: ____ ATL #: ____ DATE: ____ CLIENT I.D. ____
SHIP TO LAB: (SUB CONTRACT) ____ TEST: ____ ATL #: ____ DATE: ____ CLIENT I.D. ____
SHIP TO LAB: (SUB CONTRACT) ____ TEST: ____ ATL #: ____ DATE: ____ CLIENT I.D. ____

Circle or Add Analysis(es) Requested

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	601/8010 (Halogenated Volatiles-GC)	602/8020/BTEX (Aromatic Volatiles-GC)	608/8080 (Pesticides/PCB-GC)	624/8240/8260 (Volatiles-GC/MS)	625/8270 (BNA-GC/MS)	8015M TPHG/BTEX(COMBINATION)	8015M TPH/D (Diesel-GC)	418.1 (TPH-IR)	Metals-Total (CAC-6010/7000)	7420 Lead TTLC	CIRCLE APPROPRIATE MATRIX: SOIL/SOLID	WATER/LIQUID	SLUDGE/OIL	GAS/AIR	WIPE/FILTER	MULTIPHASE	OTHER	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	941109-034	HA41-1	11/9	0920										X	S							C.	1	ST		
	035	HA41-2		0935										X	S								1			
	036	HA42-1		0925										X	S								1			
	037	HA42-2		0930										X	S								1			
	038	HA42-3		0935										X	S								1			
	039	HA42-4		0940										X	S								1			
	040	HA43-1		0944										X	S								1			
	041	HA43-2		0953										X	S								1			
	042	HA44-1		0941										X	S								1			
	043	HA44-2	↓	0945										X	S							↓	1	↓		

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☑ OTHER ____

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other ____
☐ Return To: ____

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
• TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

$40.00 FEE PER HAZARDOUS SAMPLE DISPOSAL

DISTRIBUTION: White with report. Blue with file folder. Green to organic. Yellow to inorganic, Pink to sample control, Gold to submitter

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4931 D.O. #
P.O.#:
Logged By: DC Date: 11-9-94 Time: 4145

Method of Transport: Walk-in ☒ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt: CHILLED Y ☒ N ☐ | SEALED Y ☐ N ☒ | SEAL INTACT Y ☐ N ☒ | PRESERVED Y ☐ N ☒ | CONTR. LOT # | CONTAINER INTACT Y ☒ N ☐ | # OF SPLS MATCH COC Y ☐ N ☐ | * HAZARDOUS FEE Y ☐ N ☐ | HEADSPACE(VOA) Y ☐ N ☐ | COOLER TEMP °C (2-6)

Client: Ecocon Environmental
Address: 6970 Flanders Drive
City San Diego State CA Zip Code 92121
TEL: (619) 558-6100
FAX: (619) 555-8437

Project Name: LA 5 PM 26.7/36.4 Project #: 8CCD-16-03A Sampler: (Printed Name) Margret Lane (Signature) Margret Lane

Relinquished by: (Signature and Printed Name) Margret Lane Margret Lane Received by: (Signature and Printed Name) Date: 11/9/94 Time:
Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: Time:
Relinquished by: (Signature and Printed Name) Received by: (Signature and Printed Name) Date: 11/09 Time: 1230

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Margret Lane Date: 11.9.94
(Print Name) Margret Lane
Signature

Special Instructions/Comments: Do 7420 TPLC on all samples - please FAX Results - on over go ahead & WE.1 on samples over 50 mg/kg
TAT 48 hrs

SHIP TO LAB: (SUB CONTRACT) TEST ATL #: DATE CLIENT I.D.
SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT I.D.
SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT I.D.

Circle or Add Analysis(es) Requested: 601/8010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240/8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX(COMBINATION); 8015M TPHD (Diesel-GC); 418.1 (TPH-IR); Metals-Total (CAC-6010/7000); 7420 TPLC

CIRCLE APPROPRIATE MATRIX: MATRIX: SOIL/SOLID; WATER/LIQUID; SLUDGE/OIL; GAS/AIR; WIPE/FILTER; MULTIPHASE; OTHER

ITEM	LAB USE ONLY: Batch # / Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s): #	Type	PRESERVATION	REMARKS
	941109-044	HA44-3	11/09	0952	C	1	G,T		
	045	HA44-4		1005		1			
	046	HA45-1		0955		1			
	047	HA45-2		1010		1			
	048	HA46-1		1040		1			
	049	HA46-2		1041		1			
	—	~~HA46-3~~							
	—	~~HA46-4~~							
	050	HA47-1		1039	C	1	G,T		
	051	HA47-2		1045	C	1	G,T		

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☒ OTHER

Sample Archive/Disposal: ☐ Laboratory Standard ☐ Other ☐ Return To:

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
* TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

DISTRIBUTION: **White** with report. **Blue** with file folder. **Green** to organic, **Yellow** to inorganic, **Pink** to sample control, **Gold** to submitter.

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4971 D.O. #
P.O.#:
Logged By: SC Date: 11-9-94 Time: 4:45p

Method of Transport: Walk-in ☒ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt: CHILLED Y☒ N☐ CONTAINER INTACT Y☒ N☐ SEALED Y☐ N☒ COC/LABELS AGREE Y☒ N☐ SEAL INTACT Y☐ N☒ *HAZARDOUS FEE Y☐ N☐ PRESERVED Y☐ N☒ HEADSPACE(VOA) Y☐ N☐ CONTR. LOT # COOLER TEMP °C 2.8

Client: Beacon Environmental
Address: 6970 Flanders Dr.
City San Diego State CA Zip Code 92121
TEL: (619) 558-1001
FAX: (619) 558-6157

Project Name: LA5 26.7/36.4 Project #: 5160 06-07A Sampler: (Printed Name) Margot Lane (Signature) Margot Lane

Relinquished by: (Signature and Printed Name) Margot Lane / Margot Lane	Received by: (Signature and Printed Name)	Date: 11/9/-11	Time:
Relinquished by: (Signature and Printed Name)	Received by: (Signature and Printed Name)	Date:	Time:
Relinquished by: (Signature and Printed Name)	Received by: (Signature and Printed Name)	Date: 11/09	Time: 1230

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Margot Lane (Print Name) Date: 11.9.94
Margot Lane (Signature)

Special Instructions/Comments: DO 7420 TTLC.V - Please Fax on all samples.
Results - on our go ahead do WET on samples over 50 mg/kg.
TAT 48 hr

SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT I.D.
SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT I.D.
SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT I.D.

Circle or Add Analysis(es) Requested: 601/8010 (Halogenated Volatiles-GC); 602/8020/BTEX (Aromatic Volatiles-GC); 608/8080 (Pesticides/PCB-GC); 624/8240/8260 (Volatiles-GC/MS); 625/8270 (BNA-GC/MS); 8015M TPHG/BTEX(COMBINATION); 8015M TPH/D (Diesel-GC); 418.1 (TPH-IR); Metals-Total (GAC-6010/7000); 7420 TTLC

CIRCLE APPROPRIATE MATRIX: MATRIX: SOIL/SOLID; WATER/LIQUID; SLUDGE/OIL; GAS/AIR; WIPE/FILTER; MULTIPHASE; OTHER; TAT

PRESERVATION

Q A / Q C: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☒ OTHER

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	Container(s): #	Type	REMARKS
	941109-052	HA47-3	11/9	1053	1	G/T	
	053	HA47-4		1104	1		
	054	HA48-1		1058	1		
	055	HA48-2		1116	1		
	056	HA49-1		1110	1		
	057	HA49-2		1115	1		
	058	HA49-3		1117	1		
	059	HA49-4		1130	1	V	
	—	~~HA50-1~~					
	—	~~HA50-2~~					—

Sample Archive/Disposal: ☐ Laboratory Standard ☐ Other ☐ To:

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays • TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

HAZARDOUS SAMPLE DISPOSAL DISTRIBUTION: White

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(310) 989-4045 • FAX (310) 989-4040

FOR LABORATORY USE ONLY:

Batch #: 4931 D.O. #:
P.O.#:
Logged By: PL Date: 11-9-94 Time: 4:45

Method of Transport: Walk-in ☒ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt

CHILLED	Y ☒	N ☐	CONTAINER INTACT	Y ☒	N ☐
SEALED	Y ☐	N ☒	# OF SPLS MATCH COC	Y ☒	N ☐
SEAL INTACT	Y ☐	N ☒	* HAZARDOUS FEE	Y ☐	N ☐
PRESERVED	Y ☐	N ☒	HEADSPACE(VOA)	Y ☐	N ☐
CONTR. LOT #			COOLER TEMP °C		(2-6)

Client: Geocon Environmental
Address:
City State Zip Code
TEL: (619) 558-6100
FAX: (619) 558-9437

Project Name: LA 5 PM 26.7/36.4 Project #: 08600-06-17A Sampler: (Printed Name) Doug Winchester (Signature)

Relinquished by: (Signature and Printed Name) Margaret Line Margaret Line
Received by: (Signature and Printed Name) Date: 11/9/94 Time:

Relinquished by: (Signature and Printed Name)
Received by: (Signature and Printed Name) Date: Time:

Relinquished by: (Signature and Printed Name)
Received by: (Signature and Printed Name) Date: 11/09 Time: 1230

Unless otherwise requested, all samples will be disposed 60 days after receipt.

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Doug Winchester Date: 11/9/94
Print Name
Doug Winchester
Signature

Special Instructions/Comments: Please Fax results

48 HR T.A.T.

SHIP TO LAB: (SUB CONTRACT) TEST: ATL #: DATE: CLIENT I.D.

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Circle or Add Analysis(es) Requested

CIRCLE APPROPRIATE MATRIX

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	601/8010 (Halogenated Volatiles-GC)	602/8020/BTEX (Aromatic Volatiles-GC	608/8080 (Pesticides/PCB-GC)	624/8240/8260 (Volatiles-GC/MS)	625/8270 (BNA-GC/MS)	8015M TPHG/BTEX(COMBINATION)	8015M TPH/D (Diesel-GC)	418.1 (TPH-IR)	Metals-Total (CAC-6010/7000)	MATRIX: SOIL/SOLID	WATER/LIQUID	SLUDGE/OIL	GAS/AIR	WIPE/FILTER	MULTIPHASE	OTHER	TAT	Container(s) #	Type	PRESERVATION	REMARKS
	941109-060	S-1	11/9/94	0935						X				S							C	1	G	J	
	061	S-2	11/9/94	0937						X				S							C	1	G	T	

QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☑ OTHER

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other
☐ Return To:

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays
• TAT starts 8 a.m. following day if samples received after 3 p.m.

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

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

DISTRIBUTION: White with report Blue with file folder Green to organic Yellow to inorganic Pink to sample control Gold to submitter

APPENDIX D

APPENDIX D

ESTIMATED VOLUME CALCULATIONS FOR EACH DEPTH SAMPLED

40 boreholes have been excavated at Site 1 by GEC.
5 boreholes have been excavated at Site 2 by GEC.
4 boreholes have been excavated at Site 3 by GEC.

Site 1

Distance between each borehole is estimated to be approximately 150 feet.

Total site length sampled is approximately 6,000 feet (1829 meters).

A shoulder or median width of 12 feet was used in each calculation.

70 percent of the soil along the site length is impacted with lead greater than 1,000 mg/kg or than the STLC (5 mg/kg) to a depth of approximately 0.5 feet bgs. The volume calculation indicates an estimated volume of soil impacted with lead to 0.5 feet bgs is approximately 1,213 tons.

(70% of site length) X (median width) X (depth) X (1 cubic yard per 27 cubic feet) =

(6,000 ft) X (70%) (12 ft) X (0.5 ft) X (1 cubic yard per 27 cubic feet) = 933 cubic yards (714 cubic meters)

Using a conversion factor of 1.3 tons/cubic yard:

(1.3 tons/cubic yards) X (933 cubic yards) = 1,213 tons of soil

Approximately 70 percent of the soil along the site length is impacted with lead greater than 1,000 mg/kg or than the STLC to a depth of approximately 1.5 feet bgs. The volume calculation indicates an estimated volume of soil impacted with lead to 1.5 feet bgs is approximately 3,640 ton.

(6,000 ft) X (70%) X (12 ft) X (1.5 ft) X (1 cubic yard/27 cubic feet) = 2,800 cubic yards (2,141 cubic meters)

(2,800 cubic yards) X (1.3 tons/ cubic yard) = 3,640 tons of soil

APPENDIX D (Continued)

Approximately 50 percent of the soil along the site length is impacted with lead greater than 1,000 mg/kg or than the STLC to a depth of approximately 3 feet bgs. The volume calculation indicates an estimated volume of soil impacted with lead to 3 feet bgs is approximately 5,200 tons.

(6,000 ft) X (50%) X (12 ft) X (3 ft) X (1 cubic yard/27 cubic feet) = 4,000 cubic yards (3,058 cubic meters)

(4,000 cubic yards) X (1.3 tons/ cubic yard) = 5,200 tons of soil

Approximately 40 percent of the soil along the site length is impacted with lead great r than 1,000 mg/kg or than the STLC to a depth of approxi tely 5 feet bgs. The volume calculation indicates estimated volume of soil impacted with l to 5 feet bgs is approximately 6,933 tons.

(6,000 ft) X (40%) X (12 ft) X (5 ft) X (1 cubic yard/27 cubic feet) = 5,333 cubic yards (4,078 cubic meters)

(5,333 cubic yards) X (1.3 tons/ cubic yard) = 6,933 tons of soil

CIDH Estimated Volume Calculations

Assuming one borehole every 5 feet or 1,200 holes.

Site length of proposed soundwall is approximately 6,000 feet.

Depth of each boring is approximately 15 feet.

Radius of each boring 7 inches (Diameter is 14 inches)

Therefore the estimated volume is:

(Pi) X (Radius squared) X (Depth) X (1 cubic yard per 27 cubic feet) = X

(3.14) X (.339) X (15 feet) X (1 cubic yard per 27 cubic feet) = 0.59 cubic yards
= .45 cubic meters

(0.59 cubic yards) X (1,200 Locations) = 710 cubic yards

(1.35 tons/cubic yards) X (710 cubic yards) = 959 tons of soil
= 543 cubic meters

The volume calculations used for the determination of impacted volumes at a depth of 2 feet bgs for Site 1 followed the same format as the volume calculations presented above and were based upon the following assumptions.

100% of the soil at Site 1 is impacted to 0.5 feet bgs.

70% of the soil at Site 1 is impacted from 0.5 to 2 feet bgs.

- Depth of the proposed shoulder widening/soundwall excavation activities is 2 feet.

- Width of the proposed shoulder widening/soundwall construction activities is 12 feet.

Site 2

Distance between each borehole is estimated to be approximately 300 feet.

Total site length sampled is approximately 1,300 feet (396 meters).

A shoulder or median width of 12 feet was used in each calculation.

80 percent of the soil along the site length is impacted with lead greater than 1,000 mg/kg or than the STLC (5 mg/kg) to a depth of approximately 0.5 feet bgs. The volume calculation indicates an estimated volume of soil impacted with lead to 0.5 feet bgs is approximately 300 tons.

(80% of site length) X (median width) X (depth) X (1 cubic yard per 27 cubic feet) =

(1,300 ft) X (80%) (12 ft) X (0.5 ft) X (1 cubic yard per 27 cubic feet) = 231 cubic yards (177 cubic meters)

Using a conversion factor of 1.3 tons/cubic yard:

(1.3 tons/cubic yards) X (231 cubic yards) = 300 tons of soil

Approximately 40 percent of the soil along the site length is impacted with lead greater than 1,000 mg/kg or than the STLC to a depth of approximately 1.5 feet bgs. The volume calculation indicates an estimated volume of soil impacted with lead to 1.5 feet bgs is approximately 451 tons.

(1,300 ft) X (40%) X (12 ft) X (1.5 ft) X (1 cubic yard/27 cubic feet) = 347 cubic yards (265 cubic meters)

(247 cubic yards) X (1.3 tons/ cubic yard) = 451 tons of soil

Approximately 50 percent of the soil along the site length is impacted with lead greater than 1,000 mg/kg or than the STLC to a depth of approximately 3 feet bgs. The volume calculation indicates an estimated volume of soil impacted with lead to 3 feet bgs is approximately 1,127 tons.

(1,300 ft) X (50%) X (12 ft) X (3 ft) X (1 cubic yard/27 cubic feet) = 867 cubic yards (663 cubic meters)

(867 cubic yards) X (1.3 tons/ cubic yard) = 1,127 tons of soil

Approximately 50 percent of the soil along the site length is impacted with lead greater than 1,000 mg/kg or than the STLC to a depth of approximately 5 feet bgs. The volume calculation indicates an estimated volume of soil impacted with lead to 5 feet bgs is approximately 1,878 tons.

(1,300 ft) X (50%) X (12 ft) X (5 ft) X (1 cubic yard/27 cubic feet) = 1,444 cubic yards (1,104 cubic meters)

(1,444 cubic yards) X (1.3 tons/ cubic yard) = 1,878 tons of soil

The volume calculations used for the determination of impacted volumes at a depth of 2 feet bgs for Site 2 followed the same format as the volume calculations presented above and were based upon the following assumptions.

- 100% of the soil at Site 2 is impacted to 0.5 feet bgs.
- 40% of the soil at Site 2 is impacted from 0.5 to 2 feet bgs.
- Depth of the proposed CHP excavation activities is 2 feet.
- Width of the proposed CHP Area construction activities is 12 feet.

Site 3

Distance between each borehole is estimated to be approximately 300 feet.

Total site length sampled is approximately 600 feet (183 meters).

A shoulder or median width of 12 feet was used in each calculation.

100 percent of the soil along the site length is impacted with lead greater than 1,000 mg/kg or than the STLC (5 mg/kg) to a depth of approximately 0.5 feet bgs. The volume calculation indicates an estimated volume of soil impacted with lead to 0.5 feet bgs is approximately 173 tons.

(100% of site length) X (median width) X (depth) X (1 cubic yard per 27 cubic feet) =

(600 ft) X (100%) (12 ft) X (0.5 ft) X (1 cubic yard per 27 cubic feet) = 133 cubic yards (102 cubic meters)

Using a conversion factor of 1.3 tons/cubic yard:

(1.3 tons/cubic yards) X (231 cubic yards) = 173 tons of soil

Approximately 25 percent of the soil along the site length is impacted with lead greater than 1,000 mg/kg or than the STLC to a depth of approximately 1.5 feet bgs. The volume calculation indicates an estimated volume of soil impacted with lead to 1.5 feet bgs is approximately 130 tons.

(600 ft) X (25%) X (12 ft) X (1.5 ft) X (1 cubic yard/27 cubic feet) = 100 cubic yards (76 cubic meters)

(100 cubic yards) X (1.3 tons/ cubic yard) = 130 tons of soil

Approximately 50 percent of the soil along the site length is impacted with lead greater than 1,000 mg/kg or than the STLC to a depth of approximately 5 feet bgs. The volume calculation indicates an estimated volume of soil impacted with lead to 5 feet bgs is approximately 867 tons.

(600 ft) X (50%) X (12 ft) X (5 ft) X (1 cubic yard/27 cubic feet) = 667 cubic yards (510 cubic meters)

(667 cubic yards) X (1.3 tons/ cubic yard) = 867 tons of soil

The volume calculations used for the determination of impacted volumes at a depth of 2 feet bgs for Site 3 followed the same format as the volume calculations presented above and were based upon the following assumptions.

- 100% of the soil at Site 3 is impacted to 0.5 feet bgs.
- 25% of the soil at Site 3 is impacted from 0.5 to 2 feet bgs.
- Depth of the proposed differential elevation lane widening excavation activities is 2 feet.
- Width of the proposed differential elevation lane widening activities is 12 feet.