AERIALLY-DEPOSITED LEAD SURVEY
INTERSTATE 5 AND GENESEE AVENUE
SAN DIEGO, CALIFORNIA

PREPARED FOR:
Kimley-Horn and Associates, Inc.
517 Fourth Avenue, Suite 301
San Diego, California 92101

PREPARED BY:
Ninyo & Moore
Geotechnical and Environmental Sciences Consultants
5710 Ruffin Road
San Diego, California 92123

January 9, 2008
Project No. 105256005

January 9, 2008
Project No. 105256005

Mr. Mike Ross
Kimley-Horn and Associates, Inc.
517 Fourth Avenue, Suite 301
San Diego, California 92101

Subject: Aerially-Deposited Lead Survey
Interstate 5 and Genesee Avenue
San Diego, California

Reference: Ninyo & Moore, 2005, Draft Aerially-Deposited Lead Assessment, Interstate 5 and Genesee Avenue, San Diego, California: dated April 26.

Dear Mr. Ross:

Ninyo & Moore is pleased to submit this report for the evaluation of aerially-deposited lead in soil at the above-referenced site. This report was prepared in general accordance with our proposal P-5956D, dated October 31, 2007, and your authorization to proceed.

We appreciate the opportunity to be of continued service to Kimley-Horn and Associates, Inc. on this project.

Sincerely,
NINYO & MOORE

John D. Willis
Senior Project Environmental Scientist

W. Scott Snyder, P.G. 7356, HG. 748
Principal Geologist

JDW/WSS/gg

Distribution: (1) Addressee

TABLE OF CONTENTS

Page

1. INTRODUCTION 1
2. PURPOSE 1
3. SCOPE OF WORK 1
4. SITE ASSESSMENT ACTIVITIES 2
   - 4.1. Soil Sampling Rationale 2
   - 4.2. Site Safety 2
   - 4.3. Permits and Notifications 2
   - 4.4. Soil Sampling Activities 2
5. SOIL HANDLING CRITERIA 3
6. ANALYTICAL TESTING AND DISCUSSION 3
   - 6.1. Total Lead 3
   - 6.2. Soluble Lead - Citric Acid Extractant 4
   - 6.3. pH 4
   - 6.4. Equipment Rinsate Blanks 4
7. CONCLUSIONS 4
   - 7.1. On-Site Reuse 4
   - 7.2. Off-Site Reuse or Disposal 5
   - 7.3. Handling 5
   - 7.4. Other Considerations 6
8. LIMITATIONS 6

Figures

Figure 1 – Site Location Map
Figure 2 – Boring Location Map

Tables

Table 1 – Summary of Soil Sample Analytical Results
Table 2 – Statistical Analysis of Total Lead Results
Table 3 – Statistical Analysis of Soluble Lead Results

Appendix

Appendix A – Laboratory Analytical Reports and Chain-of-Custody Records

1. INTRODUCTION

Ninyo & Moore has performed an aerially deposited lead (ADL) survey along the Sate of California Department of Transportation (Department) Interstate 5 right-of-way and along Genesee Avenue, in the city and county of San Diego, California (Figure 1), in general accordance with our proposal P-5956D, dated October 31, 2007. The project area is approximately 9,500 feet long, and includes the portion of Interstate 5 extending from the Sorrento Valley Road interchange to the north and La Jolla Village Drive northbound on-ramp/southbound off-ramp to the south.

2. PURPOSE

The purpose of this assessment was to evaluate lead concentrations in soil along the northbound and southbound shoulders, and the on- and off-ramps within the site boundaries. The assessment was used to evaluate worker health and safety issues during construction and the potential for reuse and disposal of the soil during grading activities.

3. SCOPE OF WORK

Based upon the project purpose, our scope of work included the following tasks:

- preparation of a site-specific health and safety plan (HSP);
- coordination with Department Environmental Engineering personnel to select soil sample locations;
- acquisition of an Encroachment Permit from the Department for the soil sampling activities in the highway right-of-way;
- collection of soil samples using a four-inch diameter hand auger at depths of 1, 2, and 3 feet below ground surface (bgs);
- analyses of soil samples for total lead using United States Environmental Protection Agency (USEPA) test method 6010B and for soluble lead using the California waste extraction test (WET) with citric acid as the extractant;
- statistical analysis of lead results including calculation of confidence intervals to estimate the 90 and 95 upper confidence levels (UCLs); and
- preparation of this report presenting our methodology, findings, and conclusions.

4. SITE ASSESSMENT ACTIVITIES

Ninyo & Moore conducted sampling activities in general accordance with our October 31, 2007 proposal. The following sections describe the site assessment activities.

4.1. Soil Sampling Rationale

Prior to field activities, 30 proposed boring locations were selected throughout the proposed excavation envelope. This included placement of proposed borings at varying distances from the traveled lanes, with samples collected at depths up to 3 feet bgs.

4.2. Site Safety

Ninyo & Moore's field activities were performed in accordance with the site-specific HSP, which outlines specific safety procedures and equipment that were used during this project. The HSP was on site during all field activities, and field personnel working on this project reviewed and signed it prior to the commencement of field activities. No incidents were reported during field activities.

4.3. Permits and Notifications

Because soil sampling activities were performed within the Department right-of-way, a Standard Encroachment Permit Application was submitted to the Department. A project-specific Water Pollution Control Plan and a description of the proposed traffic control procedures were included with the application. In accordance with the Encroachment Permit 11-07-6SV-0566, the Department Inspector was notified of the field schedule prior to initiating work.

4.4. Soil Sampling Activities

On December 3 and 4, 2007, Ninyo & Moore personnel advanced 30 soil borings, using the hand auger method. One soil sample was collected at each of the 30 soil boring locations from a randomly selected depth of 1, 2, or 3 feet bgs. Soil sample containers consisted of glass jars with Teflon-lined, screw-type lids, which were sealed and labeled. The samples were then stored in a chilled ice chest and delivered to Calscience Environmental Laboratories, Inc., in Garden Grove,

California, a state-certified laboratory, for analytical testing. Proper chain-of-custody procedures were followed during sample transport. The boring locations are shown on Figure 2.

5. SOIL HANDLING CRITERIA

Off-site disposal and on-site reuse are the two generally accepted options for the management of soil generated during Department construction activities. Title 22 of the California Code of Regulations (CCR) establishes a total threshold limit concentration (TTLC) for total lead at 1,000 milligrams per kilogram (mg/kg) and a soluble threshold limit concentration (STLC) at 5 milligrams per liter (mg/ℓ) for soluble lead for California hazardous waste classification.

Currently, on-site reuse of soil contaminated with lead at concentrations such that it is considered a hazardous waste within the Department right-of-way is subject to the conditions of Variance No. 00-H-VAR-06 (Variance), dated September 22, 2000, with updates, which was issued by the California Environmental Protection Agency, Department of Toxic Substances Control (DTSC).

It should be noted that, for on-site reuse, the Department typically uses the 90% upper confidence level (UCL_{90}) to estimate the mean concentration of an environmental contaminant in soil. For off-site disposal, the Department typically uses the UCL_{95} to estimate the mean concentration of a contaminant in soil.

6. ANALYTICAL TESTING AND DISCUSSION

The following sections provide a summary of the analytical testing, and a discussion of our findings.

6.1. Total Lead

Each of the 30 soil samples collected for this study were analyzed for total lead by USEPA test method 6010B (Table 1). Total lead concentrations reported ranged from 6.89 mg/kg to 81.5 mg/kg. None of the samples exceeded the Variance threshold for reuse (1,496 mg/kg) or the Title 22 TTLC threshold of 1,000 mg/kg. Statistical parameters (e.g., mean, standard

deviation, UCL_{90}, and UCL_{95} are presented on Table 2. Laboratory analytical reports and chain-of-custody records are presented as Appendix A.

6.2. Soluble Lead - Citric Acid Extractant

Each of the 30 soil samples were also tested for soluble lead by the WET method. Soluble lead concentrations reported ranged from non-detect to 4.9 mg/ℓ. None of the samples analyzed contained soluble lead above 5 mg/ℓ, the soluble lead criteria for California hazardous waste classification. Statistical parameters (e.g., mean, standard deviation, UCL_{90}, and UCL_{95} are presented on Table 3. Laboratory analytical reports and chain-of-custody records are presented as Appendix A.

6.3. pH

Ten of the 30 soil samples were tested for pH. The pH results ranged from 4.28 to 7.49. The results are presented on Table 1. Laboratory analytical reports and chain-of-custody records are presented as Appendix A.

6.4. Equipment Rinsate Blanks

During each day of sampling, equipment rinsate blanks were collected from sampling equipment as a quality control measure, and analyzed for lead by USEPA method 6010B. All rinsate blank samples were non-detect for lead. Laboratory analytical reports and chain-of-custody records are presented as Appendix A.

7. CONCLUSIONS

Based on the criteria presented in Section 5, the following conclusions are provided:

7.1. On-Site Reuse

The UCL_{90} for total lead was calculated to be 30.19 mg/kg, below the Title 22 TTLC threshold of 1,000 mg/kg. The UCL_{90} for soluble lead by the WET was calculated to be 1.13 mg/ℓ, be-

low the Title 22 STLC threshold of 5 mg/ℓ. The soil is therefore considered non-hazardous. The soil is suitable for reuse as fill material, and should be handled in accordance with Department specifications for reuse of soil containing lead at non-hazardous levels.

This conclusion is consistent with the results of the previous ADL assessment for this area, which reported a UCL_{90} for total lead of 142.81 mg/kg, also less than the Title 22 TTLC threshold of 1,000 mg/kg (Ninyo & Moore, 2005).

7.2. Off-Site Reuse or Disposal

The UCL_{95} for total lead was calculated as being 31.65 mg/kg, which does not exceed the Title 22 TTLC threshold of 1,000 mg/kg. The UCL_{95} for soluble lead by the CA-WET was calculated as being 1.22 mg/ℓ, which does not exceed the Title 22 STLC threshold of 5 mg/ℓ. This material is considered non-hazardous waste containing elevated concentrations of lead, and should be handled, managed, transported, and disposed as such. The soil may be considered a waste by the Regional Water Quality Control Board, and may therefore be subject to waste discharge requirements if reused off site. If the material is reused at a construction project outside the Caltrans right-of-way, the reuse shall comply with the requirements in Section 7-1.13 of the Caltrans Standard Specifications. The material may also be disposed of at an appropriately permitted Class II or Class III commercial landfill, in accordance with the requirements of the receiving facility.

This conclusion is consistent with the results of the previous ADL assessment for this area, which reported a UCL_{95} for total lead of 149.66 mg/kg, also less than the Title 22 TTLC threshold of 1,000 mg/kg (Ninyo & Moore, 2005).

7.3. Handling

Concentrations of lead in soil at the site represent a potential threat to the health of site workers performing earthwork activities and to the public. Lead in its elemental form is a heavy, ductile, soft gray metal. The National Institute of Occupational Safety and Health has established the permissible exposure limit for lead at 0.05 milligrams per meters cubed (mg/m^3) in air based on

an 8-hour time-weighted average; the Immediately Dangerous to Life and Health exposure limit is 100 mg/m^3. Because of the potential hazard from exposure to lead-contaminated soil and other potential hazards, a Site Health and Safety Plan and a Community Health and Safety Plan should be prepared by a Certified Industrial Hygienist (CIH). In addition, site workers who may be potentially exposed to chemical hazards during the project should have completed a training program meeting the requirements of 29 Code of Federal Regulations (CFR) 1910.120 and 8 CCR 1532.1 The plans developed by the CIH should include a hazard analysis, describe dust control measures, air monitoring, signage, work practices, emergency response plans, personal protective equipment, decontamination, and documentation.

7.4. Other Considerations

It is Ninyo & Moore's understanding that the Department is currently seeking guidance regarding the reuse of lead-impacted soil from the California Regional Water Quality Control Board, San Diego Region. The conclusions drawn from this interaction may supplant the conclusions presented in this report. We recommend that prior to reusing soil at the site, the user of this report contact the Department for the most recent guidelines.

8. LIMITATIONS

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard-of-care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report. Variations in site conditions may exist and conditions not observed or described in this report may be encountered during subsequent activities. Please also note that this study did not include an evaluation of geotechnical conditions or potential geologic hazards.

Ninyo & Moore's opinions and recommendations regarding environmental conditions, as presented in this report, are based on limited subsurface assessment and chemical analysis. Further assessment of potential adverse environmental impacts from past on-site and/or nearby use of hazardous

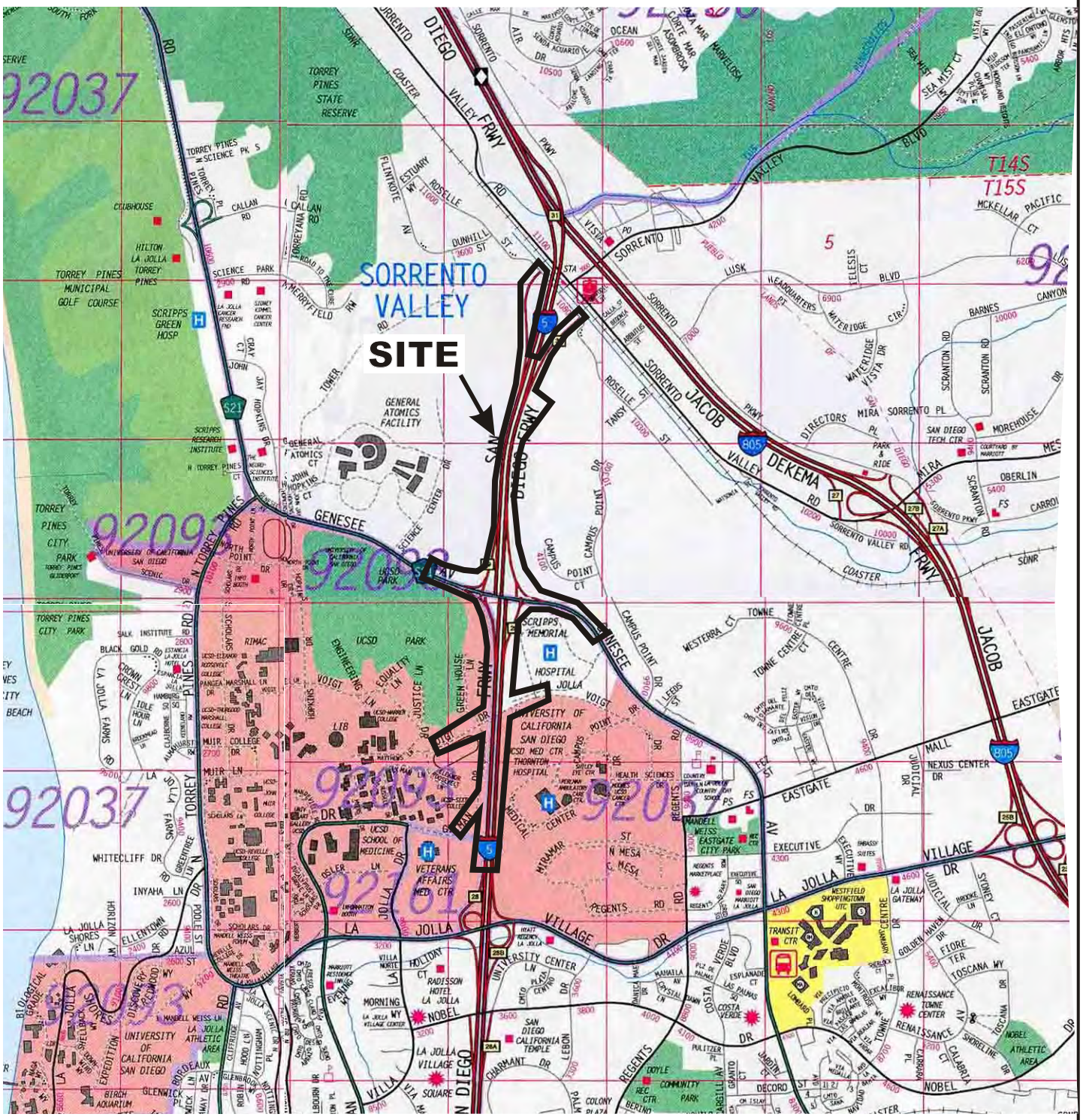
materials may be accomplished by a more comprehensive assessment. The samples collected and used for testing, and the observations made, are believed to be representative of the area(s) evaluated; however, conditions can vary significantly between sampling locations. Variations in soil and/or groundwater conditions will exist beyond the points explored in this evaluation.

The environmental interpretations and opinions contained in this report are based on the results of laboratory tests and analyses intended to detect the presence and concentration of specific chemical or physical constituents in samples collected from the subject site. The testing and analyses have been conducted by an independent laboratory which is certified by the State of California to conduct such tests. Ninyo & Moore has no involvement in, or control over, such testing and analysis. Ninyo & Moore, therefore, disclaims responsibility for any inaccuracy in such laboratory results.

Our conclusions, recommendations, and opinions are based on an analysis of the observed site conditions. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information, or has questions regarding content, interpretations presented, or completeness of this document.

This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.



REFERENCE: 2005 THOMAS GUIDE FOR SAN DIEGO COUNTY, STREET GUIDE AND DIRECTORY,

0 2400 4800

APPROXIMATE SCALE IN FEET

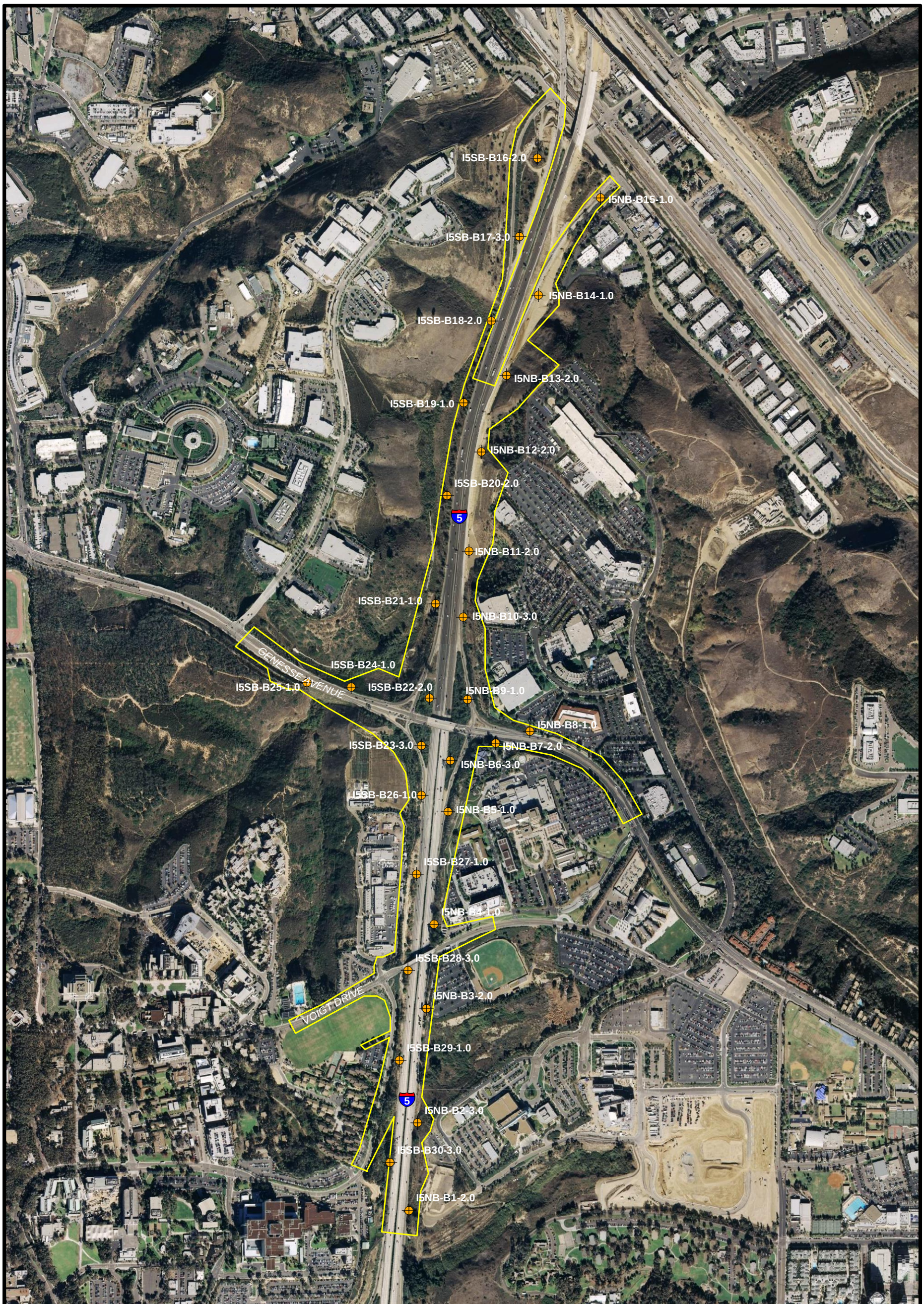
N

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Map © Rand McNally, R.L.07-S-129

105256005 slm fig 1

Ninyo & Moore	SITE LOCATION MAP	FIGURE
PROJECT NO. / DATE	INTERSTATE 5 AND GENESSE AVENUE INTERCHANGE SAN DIEGO, CALIFORNIA	1
105256005 / 1/08		



SOURCE: GOOGLE EARTH AERIAL IMAGE, SANGIS FEATURE CLASS

LEGEND

- APPROXIMATE LOCATION OF SOIL BORING
- APPROXIMATE PROJECT BOUNDARY

N

APPROXIMATE SCALE IN FEET

800 400 0 800 Feet

NOTE: ALL DIMENSIONS, DIRECTIONS, AND LOCATIONS ARE APPROXIMATE

Ninyo & Moore		BORING LOCATION MAP	FIGURE
PROJECT NO.	DATE	INTERSTATE 5 AND GENESEE AVENUE INTERCHANGE SAN DIEGO, CALIFORNIA	2
105256005	1/08		

Table 1 - Summary of Soil Sample Analytical Results

Sample ID	Depth (feet)	Total Lead (mg/kg)	Soluble Lead (mg/ℓ)	pH
I5NB-B1-2.0	2.0	6.89	ND	6.66
I5NB-B2-3.0	3.0	8.57	0.110	NA
I5NB-B3-2.0	2.0	16.8	0.302	NA
I5NB-B4-1.0	1.0	15.1	0.417	NA
I5NB-B5-1.0	1.0	32.8	0.731	5.70
I5NB-B6-3.0	3.0	19.0	2.40	NA
I5NB-B7-2.0	2.0	13.4	0.551	NA
I5NB-B8-1.0	1.0	13.4	0.268	NA
I5NB-B9-1.0	1.0	81.5	3.61	NA
I5NB-B10-3.0	3.0	62.3	1.43	5.85
I5NB-B11-2.0	2.0	20.0	0.417	6.76
I5NB-B12-2.0	2.0	71.8	0.208	NA
I5NB-B13-2.0	2.0	11.2	0.316	NA
I5NB-B14-1.0	1.0	20.4	0.390	7.32
I5NB-B15-1.0	1.0	34.0	2.43	NA
I5SB-B16-2.0	2.0	10.3	0.544	NA
I5SB-B17-3.0	3.0	16.5	0.123	4.28
I5SB-B18-2.0	2.0	16.5	0.109	NA
I5SB-B19-1.0	1.0	32.7	0.772	NA
I5SB-B20-2.0	2.0	18.7	1.17	NA
I5SB-B21-1.0	1.0	12.9	0.104	7.49
I5SB-B22-2.0	2.0	12.9	0.108	NA
I5SB-B23-3.0	3.0	17.8	0.303	NA
I5SB-B24-1.0	1.0	7.88	0.171	7.25
I5SB-B25-1.0	1.0	15.4	0.239	NA
I5SB-B26-1.0	1.0	10.1	0.110	5.42
I5SB-B27-1.0	1.0	76.8	4.90	NA
I5SB-B28-3.0	3.0	42.5	2.67	NA
I5SB-B29-1.0	1.0	27.3	0.564	5.55
I5SB-B30-3.0	3.0	12.0	0.148	NA

Notes:
mg/kg = milligrams per kilogram
mg/ℓ = milligrams per liter
NA = no analysis was performed for this parameter
ND = not detected above the laboratory reporting limit
Total lead analyzed by EPA test method 6010B
Soluble lead analyzed following the Waste Extraction Test using citric acid as the extractant

Table 2 - Statistical Analysis of Total Lead Results

Sample ID	Result (mg/kg)
I5NB-B1-2.0	6.9
I5NB-B2-3.0	8.6
I5NB-B3-2.0	16.8
I5NB-B4-1.0	15.1
I5NB-B5-1.0	32.8
I5NB-B6-3.0	19.0
I5NB-B7-2.0	13.4
I5NB-B8-1.0	13.4
I5NB-B9-1.0	81.5
I5NB-B10-3.0	62.3
I5NB-B11-2.0	20.0
I5NB-B12-2.0	71.8
I5NB-B13-2.0	11.2
I5NB-B14-1.0	20.4
I5NB-B15-1.0	34.0
I5SB-B16-2.0	10.3
I5SB-B17-3.0	16.5
I5SB-B18-2.0	16.5
I5SB-B19-1.0	32.7
I5SB-B20-2.0	18.7
I5SB-B21-1.0	12.9
I5SB-B22-2.0	12.9
I5SB-B23-3.0	17.8
I5SB-B24-1.0	7.9
I5SB-B25-1.0	15.4
I5SB-B26-1.0	10.1
I5SB-B27-1.0	76.8
I5SB-B28-3.0	42.5
I5SB-B29-1.0	27.3
I5SB-B30-3.0	12.0

n	30	
mean	25.25	
variance	441.17	
stdev	20.65	
df	29	
st err mean	3.77	
t value	1.311	
st err * t	4.94	
Upper 90% CI	**30.19**	**mg/kg**

t value	1.699
st err * t	6.41
Upper 95% CI	**31.65 mg/kg**

Table 3 - Statistical Analysis of Soluble Lead Results

Sample ID	Result (mg/ℓ)
I5NB-B1-2.0	0.05
I5NB-B2-3.0	0.11
I5NB-B3-2.0	0.302
I5NB-B4-1.0	0.417
I5NB-B5-1.0	0.731
I5NB-B6-3.0	2.4
I5NB-B7-2.0	0.551
I5NB-B8-1.0	0.268
I5NB-B9-1.0	3.61
I5NB-B10-3.0	1.43
I5NB-B11-2.0	0.417
I5NB-B12-2.0	0.208
I5NB-B13-2.0	0.316
I5NB-B14-1.0	0.39
I5NB-B15-1.0	2.43
I5SB-B16-2.0	0.544
I5SB-B17-3.0	0.123
I5SB-B18-2.0	0.109
I5SB-B19-1.0	0.772
I5SB-B20-2.0	1.17
I5SB-B21-1.0	0.104
I5SB-B22-2.0	0.108
I5SB-B23-3.0	0.303
I5SB-B24-1.0	0.171
I5SB-B25-1.0	0.239
I5SB-B26-1.0	0.11
I5SB-B27-1.0	4.9
I5SB-B28-3.0	2.67
I5SB-B29-1.0	0.564
I5SB-B30-3.0	0.148

Notes:
The non-detect result for sample ID I5NB-B1-2.0 was entered as being equal to one-half the reporting limit

n	30
mean	0.86
variance	1.49
stdev	1.16
df	29
st err mean	0.21
t value	1.311
st err * t	0.28
Upper 90% CI	**1.13 mg/l**

t value	1.699
st err * t	0.36
Upper 95% CI	**1.22 mg/l**

APPENDIX A

LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY RECORDS

Calscience Environmental Laboratories, Inc.

December 13, 2007

John Willis
Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123-1013

Subject: **Calscience Work Order No.: 07-12-0349**
Client Reference: I-5 & Genessee / 105256005

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/5/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Virendra R Patel

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5NB-B1-2.0	**07-12-0349-1-A**	**12/03/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	6.89	0.500	1		mg/kg

I5NB-B2-3.0	**07-12-0349-2-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	8.57	0.500	1		mg/kg

I5NB-B3-2.0	**07-12-0349-3-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	16.8	0.500	1		mg/kg

I5NB-B4-1.0	**07-12-0349-4-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	15.1	0.500	1		mg/kg

I5NB-B5-1.0	**07-12-0349-5-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	32.8	0.500	1		mg/kg

I5NB-B6-3.0	**07-12-0349-6-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	19.0	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5NB-B7-2.0	**07-12-0349-7-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	13.4	0.500	1		mg/kg

I5NB-B8-1.0	**07-12-0349-8-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	13.4	0.500	1		mg/kg

I5NB-B9-1.0	**07-12-0349-9-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	81.5	0.500	1		mg/kg

I5NB-B10-3.0	**07-12-0349-10-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	62.3	0.500	1		mg/kg

I5NB-B11-2.0	**07-12-0349-11-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	20.0	0.500	1		mg/kg

I5NB-B12-2.0	**07-12-0349-12-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	71.8	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5NB-B13-2.0	**07-12-0349-13-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	11.2	0.500	1		mg/kg

I5NB-B14-1.0	**07-12-0349-14-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	20.4	0.500	1		mg/kg

I5NB-B15-1.0	**07-12-0349-15-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	34.0	0.500	1		mg/kg

Method Blank	**097-01-002-10,170**	**N/A**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L09**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Equip-01	**07-12-0349-16-B**	**12/05/07**	**Aqueous**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L06**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.0100	1		mg/L

Method Blank	**097-01-003-7,786**	**N/A**	**Aqueous**	**ICP 5300**	**12/06/07**	**12/07/07**	**071206L06**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.0100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	T22.11.5.All
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5NB-B1-2.0	**07-12-0349-1-A**	**12/03/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/L

I5NB-B2-3.0	**07-12-0349-2-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	0.110	0.100	1		mg/L

I5NB-B3-2.0	**07-12-0349-3-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	0.302	0.100	1		mg/L

I5NB-B4-1.0	**07-12-0349-4-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	0.417	0.100	1		mg/L

I5NB-B5-1.0	**07-12-0349-5-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	0.731	0.100	1		mg/L

I5NB-B6-3.0	**07-12-0349-6-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	2.40	0.100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123-1013

Date Received:	12/05/07
Work Order No:	07-12-0349
Preparation:	T22.11.5.All
Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5NB-B7-2.0	**07-12-0349-7-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	0.551	0.100	1		mg/L

I5NB-B8-1.0	**07-12-0349-8-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	0.268	0.100	1		mg/L

I5NB-B9-1.0	**07-12-0349-9-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	3.61	0.100	1		mg/L

I5NB-B10-3.0	**07-12-0349-10-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	1.43	0.100	1		mg/L

I5NB-B11-2.0	**07-12-0349-11-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	0.417	0.100	1		mg/L

I5NB-B12-2.0	**07-12-0349-12-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	0.208	0.100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	T22.11.5.All
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5NB-B13-2.0	**07-12-0349-13-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	0.316	0.100	1		mg/L

I5NB-B14-1.0	**07-12-0349-14-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	0.390	0.100	1		mg/L

I5NB-B15-1.0	**07-12-0349-15-A**	**12/05/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	2.43	0.100	1		mg/L

Method Blank	**097-05-006-3,856**	**N/A**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L15**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	N/A
		Method:	SM 4500 H+ B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Equip-01	**07-12-0349-16-B**	**12/05/07**	**Aqueous**	**PH 1**	**N/A**	**12/05/07**	**71205PHD1**

Parameter	Result	RL	DF	Qual	Units
pH	8.10	0.01	1		pH units

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	N/A
		Method:	EPA 9045D

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5NB-B1-2.0	**07-12-0349-1-A**	**12/03/07**	**Solid**	**PH 4**	**12/06/07**	**12/06/07**	**71206PHD2**

Parameter	Result	RL	DF	Qual	Units
pH	6.66	0.01	1		pH unit

I5NB-B5-1.0	**07-12-0349-5-A**	**12/05/07**	**Solid**	**PH 4**	**12/06/07**	**12/06/07**	**71206PHD2**

Parameter	Result	RL	DF	Qual	Units
pH	5.70	0.01	1		pH unit

I5NB-B10-3.0	**07-12-0349-10-A**	**12/05/07**	**Solid**	**PH 4**	**12/06/07**	**12/06/07**	**71206PHD2**

Parameter	Result	RL	DF	Qual	Units
pH	5.85	0.01	1		pH unit

I5NB-B11-2.0	**07-12-0349-11-A**	**12/05/07**	**Solid**	**PH 4**	**12/06/07**	**12/06/07**	**71206PHD2**

Parameter	Result	RL	DF	Qual	Units
pH	6.76	0.01	1		pH unit

I5NB-B14-1.0	**07-12-0349-14-A**	**12/05/07**	**Solid**	**PH 4**	**12/06/07**	**12/06/07**	**71206PHD2**

Parameter	Result	RL	DF	Qual	Units
pH	7.32	0.01	1		pH unit

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
I5NB-B1-2.0	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206S09**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	95	92	75-125	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-12-0400-2	**Aqueous**	**ICP 5300**	**12/06/07**	**12/07/07**	**071206S06**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	93	96	84-120	4	0-7	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	T22.11.5.All
		Method:	EPA 6010B

Project I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
I5NB-B9-1.0	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210S15**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	97	111	75-125	8	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	N/A
		Method:	SM 4500 H+ B

Project: I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
07-12-0302-2	**Aqueous**	**PH 1**	**N/A**	**12/05/07**	**71205PHD1**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
pH	6.64	6.64	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	N/A
		Method:	EPA 9045D

Project: I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
07-12-0456-4	**Solid**	**PH 4**	**12/06/07**	**12/06/07**	**71206PHD2**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
pH	6.44	6.43	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Ninyo & Moore		Date Received:	N/A
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-10,170	**Solid**	**ICP 5300**	**12/06/07**	**071206-I-09**	**071206L09**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	25.0	25.0	100	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Ninyo & Moore		Date Received:	N/A
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-7,786	**Aqueous**	**ICP 5300**	**12/06/07**	**12/07/07**	**071206L06**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	98	96	80-120	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Ninyo & Moore		Date Received:	N/A
5710 Ruffin Road		Work Order No:	07-12-0349
San Diego, CA 92123-1013		Preparation:	T22.11.5.All
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-05-006-3,856	**Solid**	**ICP 5300**	**12/11/07**	**071210-I-15**	**071210L15**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	5.00	5.06	101	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-12-0349

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 12-3-07

Page 1 of 2

LABORATORY CLIENT: Nunyo & Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP: 92123

TEL: 858-576-1000 E-MAIL: jwillis@nunyoandmoore.com

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☐ _____

SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: I-5 & Gleason / 1052576005

PROJECT CONTACT: John Willis

SAMPLER(S): (PRINT) Matt Fuller

COELT LOG CODE ☐☐☐☐

P.O. NO.:

COOLER RECEIPT 1 2 0 3 4 9

TEMP= _____ °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C7-C36) or (C7-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	Total lead	pH	Wet (lead)
1	ISNB-B1-2.0		12-3-07	0948	soil	01																X	X	X
2	ISNB-B2-3.0			1000																		X		X
3	ISNB-B3-2.0			1010																		X		X
4	ISNB-B4-1.0			1022																		X		X
5	ISNB-B5-1.0			1036																		X	X	X
6	ISNB-B6-3.0			1045																		X		X
7	ISNB-B7-2.0			1100																		X		X
8	ISNB-B8-1.0			1130																		X		X
9	ISNB-B9-1.0			1145																		X		X
10	ISNB-B10-3.0			1200																		X	X	X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Matt Fuller	CEL	12-5-7	1115
	Stan Cenora (CEL)	12-5-7	1545

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

10/01/07 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 12-3-07

Page 2 of 2

LABORATORY CLIENT: Ninyo & Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP: 92123

TEL: 858-576-1000 E-MAIL: JWillis@Ninyoandmoore.com

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☐ _____

SPECIAL INSTRUCTIONS:

CLIENT PROJECT NAME / NUMBER: I54 Genessee / 105256005

PROJECT CONTACT: John Willis

SAMPLER(S): (PRINT) Matt Fuller

COELT LOG CODE ☐☐☐☐

P.O. NO.:

1 2 0 3 4 9

COOLER RECEIPT TEMP= ____ °C

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C7-C36) or (C7-C44)	TPH (____)	BTEX / MTBE (8260B) or (____)	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+ ____	total lead	pH	WET (lead)
11	ISNB-B11-2.0		12-3-07	1320	Soil	01																X	X	X
12	ISNB-B12-2.0		↓	1330	↓	↓																X		X
13	ISNB-B13-2.0			1340																		X		X
14	ISNB-B14-1.0			1400																		X	X	X
15	ISNB-B15-1.0			1410																		X		X
16	Equip-01			1500	H_2O	02																X	X	

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Matt Fuller	CEL	12-5-7	1115
	Shannon Ca	12-5-7	1545

DISTRIBUTION: White with final report, Green and Yellow to Client.
Please note that pages 1 and 2 of 2 of our T/Cs are printed on the reverse side of the Green and Yellow copies respectively.

10/01/07 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 0 7 - 1 2 - 0 3 4 9

Cooler 1 of 1

SAMPLE RECEIPT FORM

CLIENT: Hunger + Moore DATE: 12-5-7

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

- ____ Chilled, cooler with temperature blank provided.
- ____ Chilled, cooler without temperature blank.
- ✓ Chilled and placed in cooler with wet ice.
- ____ Ambient and placed in cooler with wet ice.
- ____ Ambient temperature.
- 3.3 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

- ____ °C Temperature blank.
- ____ °C IR thermometer.
- ____ Ambient temperature.

Initial: [signature]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact) : ____ Not Present: ✓

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: [signature]

COMMENTS:

Calscience Environmental Laboratories, Inc.

December 13, 2007

John Willis
Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123-1013

Subject: **Calscience Work Order No.: 07-12-0350**
Client Reference: I-5 & Genessee / 105256005

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/5/2007 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Virendra R Patel

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5SB-B16-2.0	**07-12-0350-1-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	10.3	0.500	1		mg/kg

I5SB-B17-3.0	**07-12-0350-2-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	16.5	0.500	1		mg/kg

I5SB-B18-2.0	**07-12-0350-3-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	16.5	0.500	1		mg/kg

I5SB-B19-1.0	**07-12-0350-4-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	32.7	0.500	1		mg/kg

I5SB-B20-2.0	**07-12-0350-5-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	18.7	0.500	1		mg/kg

I5SB-B21-1.0	**07-12-0350-6-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	12.9	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5SB-B22-2.0	**07-12-0350-7-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	12.9	0.500	1		mg/kg

I5SB-B23-3.0	**07-12-0350-8-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	17.8	0.500	1		mg/kg

I5SB-B24-1.0	**07-12-0350-9-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	7.88	0.500	1		mg/kg

I5SB-B25-1.0	**07-12-0350-10-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	15.4	0.500	1		mg/kg

I5SB-B26-1.0	**07-12-0350-11-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	10.1	0.500	1		mg/kg

I5SB-B27-1.0	**07-12-0350-12-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	76.8	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5SB-B28-3.0	**07-12-0350-13-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	42.5	0.500	1		mg/kg

I5SB-B29-1.0	**07-12-0350-14-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	27.3	0.500	1		mg/kg

I5SB-B30-3.0	**07-12-0350-15-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	12.0	0.500	1		mg/kg

Method Blank	**097-01-002-10,171**	**N/A**	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206L10**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.500	1		mg/kg

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Equip-02	**07-12-0350-16-A**	**12/04/07**	**Aqueous**	**ICP 5300**	**12/06/07**	**12/07/07**	**071206L13**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.0100	1		mg/L

Method Blank	**097-01-003-7,787**	**N/A**	**Aqueous**	**ICP 5300**	**12/06/07**	**12/07/07**	**071206L13**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.0100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123-1013

Date Received:	12/05/07
Work Order No:	07-12-0350
Preparation:	T22.11.5.All
Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5SB-B16-2.0	**07-12-0350-1-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	0.544	0.100	1		mg/L

I5SB-B17-3.0	**07-12-0350-2-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	0.123	0.100	1		mg/L

I5SB-B18-2.0	**07-12-0350-3-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	0.109	0.100	1		mg/L

I5SB-B19-1.0	**07-12-0350-4-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	0.772	0.100	1		mg/L

I5SB-B20-2.0	**07-12-0350-5-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	1.17	0.100	1		mg/L

I5SB-B21-1.0	**07-12-0350-6-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	0.104	0.100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	T22.11.5.All
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5SB-B22-2.0	**07-12-0350-7-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	0.108	0.100	1		mg/L

I5SB-B23-3.0	**07-12-0350-8-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	0.303	0.100	1		mg/L

I5SB-B24-1.0	**07-12-0350-9-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	0.171	0.100	1		mg/L

I5SB-B25-1.0	**07-12-0350-10-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	0.239	0.100	1		mg/L

I5SB-B26-1.0	**07-12-0350-11-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	0.110	0.100	1		mg/L

I5SB-B27-1.0	**07-12-0350-12-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	4.90	0.100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123-1013

Date Received: 12/05/07
Work Order No: 07-12-0350
Preparation: T22.11.5.All
Method: EPA 6010B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5SB-B28-3.0	**07-12-0350-13-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	2.67	0.100	1		mg/L

I5SB-B29-1.0	**07-12-0350-14-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	0.564	0.100	1		mg/L

I5SB-B30-3.0	**07-12-0350-15-A**	**12/04/07**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	0.148	0.100	1		mg/L

Method Blank	**097-05-006-3,857**	**N/A**	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210L16**

Parameter	Result	RL	DF	Qual	Units
Lead	ND	0.100	1		mg/L

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	N/A
		Method:	SM 4500 H+ B

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
Equip-02	**07-12-0350-16-A**	**12/04/07**	**Aqueous**	**PH 1**	**N/A**	**12/05/07**	**71205PHD1**

Parameter	Result	RL	DF	Qual	Units
pH	8.04	0.01	1		pH units

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	N/A
		Method:	EPA 9045D

Project: I-5 & Genessee / 105256005

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Instrument	Date Prepared	Date Analyzed	QC Batch ID
I5SB-B17-3.0	**07-12-0350-2-A**	**12/04/07**	**Solid**	**PH 4**	**12/06/07**	**12/06/07**	**71206PHD2**

Parameter	Result	RL	DF	Qual	Units
pH	4.28	0.01	1		pH unit

I5SB-B21-1.0	**07-12-0350-6-A**	**12/04/07**	**Solid**	**PH 4**	**12/06/07**	**12/06/07**	**71206PHD2**

Parameter	Result	RL	DF	Qual	Units
pH	7.49	0.01	1		pH unit

I5SB-B24-1.0	**07-12-0350-9-A**	**12/04/07**	**Solid**	**PH 4**	**12/06/07**	**12/06/07**	**71206PHD2**

Parameter	Result	RL	DF	Qual	Units
pH	7.25	0.01	1		pH unit

I5SB-B26-1.0	**07-12-0350-11-A**	**12/04/07**	**Solid**	**PH 4**	**12/06/07**	**12/06/07**	**71206PHD2**

Parameter	Result	RL	DF	Qual	Units
pH	5.42	0.01	1		pH unit

I5SB-B29-1.0	**07-12-0350-14-A**	**12/04/07**	**Solid**	**PH 4**	**12/06/07**	**12/06/07**	**71206PHD2**

Parameter	Result	RL	DF	Qual	Units
pH	5.55	0.01	1		pH unit

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
I5SB-B19-1.0	**Solid**	**ICP 5300**	**12/06/07**	**12/06/07**	**071206S10**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	81	123	75-125	18	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123-1013

Date Received: 12/05/07
Work Order No: 07-12-0350
Preparation: EPA 3010A Total
Method: EPA 6010B

Project I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
07-12-0376-1	**Aqueous**	**ICP 5300**	**12/06/07**	**12/07/07**	**071206S13**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	95	97	84-120	1	0-7	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	T22.11.5.All
		Method:	EPA 6010B

Project I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
I5SB-B24-1.0	**Solid**	**ICP 5300**	**12/06/07**	**12/11/07**	**071210S16**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Lead	102	100	75-125	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	N/A
		Method:	SM 4500 H+ B

Project: I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
07-12-0302-2	**Aqueous**	**PH 1**	**N/A**	**12/05/07**	**71205PHD1**

Parameter	Sample Conc.	DUP Conc	RPD	RPD CL	Qualifiers
pH	6.64	6.64	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Duplicate

Ninyo & Moore		Date Received:	12/05/07
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	N/A
		Method:	EPA 9045D

Project: I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Prepared:	Date Analyzed:	Duplicate Batch Number
07-12-0456-4	**Solid**	**PH 4**	**12/06/07**	**12/06/07**	**71206PHD2**

Parameter	Sample Conc	DUP Conc	RPD	RPD CL	Qualifiers
pH	6.44	6.43	0	0-25	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Ninyo & Moore		Date Received:	N/A
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-10,171	**Solid**	**ICP 5300**	**12/06/07**	**071206-I-10**	**071206L10**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	25.0	24.8	99	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Ninyo & Moore		Date Received:	N/A
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-7,787	**Aqueous**	**ICP 5300**	**12/07/07**	**071206-I-13**	**071206L13**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	0.500	0.483	97	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

Ninyo & Moore		Date Received:	N/A
5710 Ruffin Road		Work Order No:	07-12-0350
San Diego, CA 92123-1013		Preparation:	T22.11.5.All
		Method:	EPA 6010B

Project: I-5 & Genessee / 105256005

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-05-006-3,857	**Solid**	**ICP 5300**	**12/11/07**	**071210-I-16**	**071210L16**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Lead	5.00	4.90	98	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 07-12-0350

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
H	Sample received and/or analyzed past the recommended holding time.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
N	Nontarget Analyte.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
U	Undetected at the laboratory method detection limit.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.

☐ SoCal Laboratory
7440 Lincoln Way
Garden Grove, CA 92841-1427
(714) 895-5494

☐ NorCal Service Center
5063 Commercial Circle, Suite H
Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 12-4-07

Page 1 of 2

LABORATORY CLIENT: Ninyo and Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP: 92123

TEL: 858-576-1000 E-MAIL: Jwillis@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: I-5 & Genessee / 105256005

PROJECT CONTACT: John Willis

P.O. NO.: 12 0350

SAMPLER(S): (PRINT) Matt Fuller

COELT LOG CODE ☐☐☐☐

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING FORMS ☐ COELT EDF ☐

SPECIAL INSTRUCTIONS:

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (g)	TPH (d) or (C7-C36) or (C7-C44)	TPH ( )	BTEX / MTBE (8260B) or ( )	VOCs (8260B)	Oxygenates (8260B)	Encore Prep (5035)	SVOCs (8270C)	Pesticides (8081A)	PCBs (8082)	PNAs (8310) or (8270C)	T22 Metals (6010B/747X)	Cr(VI) [7196A or 7199 or 218.6]	VOCs (TO-14A) or (TO-15)	TPH (g) [TO-3]+	Total Lead	Lead by Wet	pH
1	ISSB-B16-2.0		12-4-07	0855	Soil	01																X	X	
2	ISSB-B17-3.0		"	0905	"	01																X	X	X
3	ISSB-B18-2.0		"	0925	"																	X	X	
4	ISSB-B19-1.0		"	0941																		X	X	
5	ISSB-B20-2.0		"	1000																		X	X	
6	ISSB-B21-1.0		"	1037																		X	X	X
7	ISSB-B22-2.0		"	1100																		X	X	
8	ISSB-B23-3.0		"	11:20																		X	X	
9	ISSB-B24-1.0		"	11:40																		X	X	X
10	ISSB-B25-1.0		"	12:00																		X	X	

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Matt Fuller	CEL	12-5-7	1115
		12-5-7	1545

DISTRIBUTION: White with final report, Green and Yellow to Client.
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Concord, CA 94520-8577
(925) 689-9022

CHAIN OF CUSTODY RECORD

Date 12-4-07

Page 2 of 2

LABORATORY CLIENT: Nungo and Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP: 92123

TEL: 858-576-1000 E-MAIL: JWILLIS@N-myoandmoore.com

CLIENT PROJECT NAME / NUMBER: I-5 & Genesee / 1052516005

PROJECT CONTACT: John Willis

P.O. NO.: 12035

SAMPLER(S): (PRINT) Matt Fuller

COELT LOG CODE ☐☐☐☐

COOLER RECEIPT TEMP= °C

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

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11	ISSB-B26-1.0		12/4/07	1310	soil	01																X	X	X
	~~ISSB-B27-1.0~~			1320																				
12	ISSB-B27-1.0		12/4/07	1320	soil	01																X	X	
13	ISSB-B28-3.0			1328																		X	X	
14	ISSB-B29-1.0			1345																		X	X	X
15	ISSB-B30-3.0			1420																		X	X	
16	Equip-02			1500	H_2O	02																X		X

Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
Matt Fuller	CEL	12-5-7	1145
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:
	Sten Lomo CEL	12-5-7	1545
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:

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10/01/07 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 0 7 - 1 2 - 0 3 5 0

Cooler 1 **of** 1

SAMPLE RECEIPT FORM

CLIENT: Yunzo + Moore **DATE:** 12-5-7

TEMPERATURE - SAMPLES RECEIVED BY:

CALSCIENCE COURIER:

_____ Chilled, cooler with temperature blank provided.
_____ Chilled, cooler without temperature blank.
✓ Chilled and placed in cooler with wet ice.
_____ Ambient and placed in cooler with wet ice.
_____ Ambient temperature.

3.3 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

_____ °C Temperature blank.
_____ °C IR thermometer.
_____ Ambient temperature.

Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Present: ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sampler's name indicated on COC	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers and volume for analyses requested	✓		
Proper preservation noted on sample label(s)			✓
VOA vial(s) free of headspace.			✓
Tedlar bag(s) free of condensation			✓

Initial: [illegible]

COMMENTS: