FOR CONTRACT No.: 10-0S1904
PROJECT ID: 1000000233

INFORMATION HANDOUT

MATERIALS INFORMATION

1. FOUNDATION REPORT FOR WEIGHT STATION MESSAGE SIGNS SANTA NELLA PLATFORM SCALE FACILITIES, DATED SEPTEMBER 26, 2008

2. ADDENDUM TO FOUNDATION REPORT FOR WEIGHT STATION MESSAGE SIGNS SANTA NELLA PLATFORM SCALE FACILITIES, DATED OCTOBER 2, 2008

3. ASBESTOS AND LEAD-CONTAINING PAINT SURVEY, SANTA NELLA WEIGH STATION, MERCED COUNTY, CALIFORNIA, DATED AUGUST 2009

ROUTE: 5-Mer-5-23.1/24.0

State of California
Department of Transportation

Business, Transportation and Housing Agency

Memorandum

Flex your power!
Be energy efficient!

To: MR. JOE ESFANDIARY
Branch Chief
Structural Design Branch1
Office of Transpiration Architecture
Structure Design Services &
Earthquake Engineering
Division of Engineering Services

Attention: Chandra Bapat

Date: September 26, 2008

File: 10-MER-5-23.5
10-0S190
Santa Nella Scale
Facilities Upgrade

From: **DEPARTMENT OF TRANSPORTATION**
DIVISION OF ENGINEERING SERVICES
GEOTECHNICAL SERVICES – MS 5

Subject: Foundation Report for Weight Station Message Signs
Santa Nella Platform Scale Facilities

Introduction

Per your request, this report has been prepared to provide foundation recommendations regarding construction of the proposed two weight station message signs (WSMS) to be added to CalTrans Santa Nella Platform Scale Facilities located along I-5 in Merced County, California.

Based on the plans and details provided, we understand that the proposed WSMS will replace two existing CMS signs. The new WSMS will be located at stations 1218+40 and 1265+90. The following loads (at top of pile) have been provided for the proposed WSMS.

Axial, P	2.94	kips
Moment, M	171.6	kips-ft
Shear, V	9.14	kips

Pertinent Report and Investigation

The following documents and maps were reviewed to assist in the assessment of the subject site conditions:

- Terminous, CA 7.5-minute quadrangle, United States Geological Survey, 1978,
- Geology Map of California, Walker Lake Sheet, Scale 1:250,000 (1963), CDMG (Third Printing, 1992),
- California Seismic Hazard Map 1996, Caltrans, L. Mualchin, 1996,
- A Technical Report to Accompany the Caltrans-California Seismic Hazard Map, CalTrans, L. Mualchin, 1996,
- McCabe Road OC X-Mer-238-A Bridge No. 39-170, CalTrans, 1961,
- Foundation Report for McCabe Road Overcrossing Bridge No. 39-170 10-Mer-5, CalTrans,
- Whitworth Road OC X-Mer-238-A Bridge No. 39-171, CalTrans, 1961,
- Foundation Report for Whitworth Road Overcrossing Bridge No. 39-171 10-Mer-5, CalTrans

Physical Setting

The physical setting of the project site and surrounding area was reviewed to provide topography and drainage, man-made and natural features, and geology to aid in project design and construction planning. The information gathered during this review is disused below.

Topography and Drainage

The topography at the project area is essentially flat. The ground elevations at the proposed WSMS locations are approximately 164 to 167 feet above sea level, respectively. No drainage feature is observed in the immediate project areas.

Geology

The project site is in the southern portion of the Central Valley geomorphic province of California. The province is bordered to the north by Cascade and Klamath ranges; to the east by the granitic and metamorphic basement rocks which form the gently sloping western foothills of the Sierra Nevada range; to the south by the east-west trending Transverse ranges, and to the west by the structurally complex sedimentary and volcanic rock units of the Coast ranges.

The project site is primarily underlain by Quaternary (Pleistocene and Holocene) age Modesto Formation (Qm) consisting primarily of fine to medium grained fan-deposited sands and silts.

Seismicity

Based on the CalTrans' *California Seismic Hazard Map 1996*, the controlling fault for the site is the San Joaquin/s fault (SJS). This fault possesses a Maximum Credible Earthquake (MCE) with a moment magnitude, M_w, of 6½. The SJS is a relatively new earthquake source whose activities have been complied by Jennings (1994). The faulting style of SJS remains unknown or unpublished. The fault is located within approximately 1 mile (1½ kilometer) from the project site. Based on the referenced map, the peak bedrock acceleration (PBA) is estimated to be 0.6g at the site.

Subsurface Conditions

Field exploration was not performed at this time. The As-Built Logs of Test Borings (LOTB) of two existing bridges located at relatively close proximities to the proposed WSMS were utilized to generate subsurface conditions. LOTB of McCabe Road OC bridge (Bridge #39-170) was used for the proposed WSMS at 1218+40 (north bound). LOTB of Whitworth Road OC bridge (bridge #39-171) was used for the proposed WSMS at 1266+00 (south bound).

The full sized As-Built LOTBs of the two existing bridges which are to be incorporated in the project plans are being prepared by Geotechnical Services, Office of Geotechnical Support Branch D – Contracts, Graphics & Records, and will be forwarded when completed. Mrs. Irma Gamarra-Remmen of the Contracts, Graphics, & Records branch may be contacted directly for information on the LOTBs.

Soil Condition

Based on the As-Built LOTBs, the subsurface materials at the sites consist primarily of medium dense to very dense sands and gravels. The Standard Penetration Test (SPT) values recorded in these materials ranged from 12 blows per foot (bpf) to 50 blows for less than 6 inches of penetration.

Groundwater

The As-Built LOTBs indicate that groundwater was not encountered at the time of exploration. Historic data of groundwater level had been recorded from two groundwater-monitoring wells located in the vicinity of the proposed project site by Department of Water Resources (DWR) during the late 1950s to the early 1970s. No record of groundwater level is available at the site after 1975. The available data is presented in the following table.

Well No.	Location	GW Elev. (ft)	Original Ground Elev. (ft)	Date
09S08E24L001M	121.135 37.135	128 - 152	165	1959 - 1970
09S09E19E001M	121.031 37.138	128 - 149	159	1958 - 1972

Groundwater is not anticipated to affect the proposed construction.

Liquefaction

Due to the low potential of groundwater and the medium dense to very dense relative densities of the subsurface materials, liquefaction potential is considered low at the site.

Foundation Recommendations

Based on the referenced As-Built LOTBs, the subsurface soils at the proposed WSMS locations meet the minimum strength requirements stated in S116 of CalTrans Standard Plan, May 2006. Therefore, we expect that the drilled shaft (CIDH) foundation proposed in the Standard Plan S116 will be applicable to support the proposed WSMS. The minimum diameter of the CIDH foundation shown in the Standard Plan S116 for the Model 500 sign is 5.0 feet.

The following soil parameters are recommended for the subsurface materials at the site.

Soil Classification	Angle of Internal Friction, ϕ, (degree)	Cohesion, c, (psf)	Unit Weight, γ, (pcf)
Gravelly Sands (SP) Sandy Gravel (GP)	30	0	120

Foundation Construction Consideration

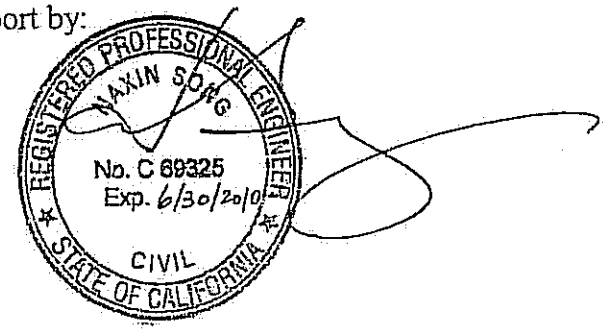
The referenced As-Built LOTBs indicate the presences of gravels, pebbles, and cobbles at the site. Therefore, difficult drilling may be encountered. Temporary casing may be needed.

The recommendations contained in this memorandum are based on specific project information regarding structure type, location, and design loads that have been provided. If any conceptual changes to the structure are proposed during final project design, the Office of Geotechnical Design – North should review those changes to determine if the foundation recommendations contained herein are still applicable.

If you have any questions or comments, please contact Thomas Song at (916) 227-1039 or John Huang at (916) 227-1037.

Qiang

Report by:



NAXIN THOMAS SONG, PE
Transportation Engineer
Office of Geotechnical Design – North
Branch E

c: R.E. Pending
Structure OE
PCE (E-copy)
DME (E-copy)
GDN File
GS File Room

State of California
Department of Transportation

Business, Transportation and Housing Agency

Memorandum

Flex your power!
Be energy efficient!

To: MR. JOE ESFANDIARY
Branch Chief
Structural Design Branch1
Office of Transpiration Architecture
Structure Design Services &
Earthquake Engineering
Division of Engineering Services

Date: October 2, 2008

File: 10-MER-5-23.5
10-0S190
Santa Nella Scale
Facilities Upgrade

Attention: Chandra Bapat

From: DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
GEOTECHNICAL SERVICES – MS 5

Subject: Addendum to Foundation Report for Weight Station Message Signs
Santa Nella Platform Scale Facilities

Introduction

This report addendum has been prepared to provide recommendations for the length of piles to be used to support the proposed two weight station message signs (WSMS) at Santa Nella Platform Scale Facilities located along I-5 in Merced County, California.

Previously, a foundation report titled "Foundation Report for Weight Station Message Signs, Santa Nella Platform Scale Facilities" dated September 26, 2006 was issued by this office, in which drilled shaft (CIDH) presented in the Standard Plan S116 (CalTrans, May 2006) was recommended to support the proposed WSMS.

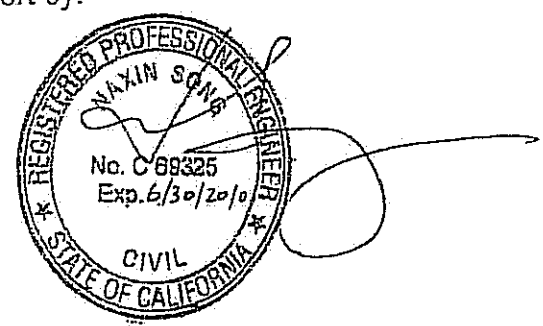
Subsequently, upon your request, this office has performed a lateral pile analysis to determine the minimum required pile length. A deflection tolerance at the pile top of 1 inch has been provided.

Based on our analysis, the CalTrans standard S116 CIDH with a minimum diameter of 5 feet and a minimum length of 22 feet will be applicable to support the proposed WSMS.

This report is an addendum to the aforementioned previous foundation report. All conditions and recommendations contained in the previous report will apply.

If you have any questions or comments, please contact Thomas Song at (916) 227-1039 or John Huang at (916) 227-1037.

Report by:



NAXIN THOMAS SONG, PE
Transportation Engineer
Office of Geotechnical Design -- North
Branch E

c: R.E. Pending
Structure OE
PCE (E-copy)
DME (E-copy)
GDN File
GS File Room

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY

PREPARED FOR:

CALIFORNIA DEPARTMENT OF TRANSPORTATION – DISTRICT 6
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FRESNO, CALIFORNIA 93726

Caltrans

PREPARED BY:

GEOCON CONSULTANTS, INC.
3160 GOLD VALLEY DRIVE, SUITE 800
RANCHO CORDOVA, CALIFORNIA 95742

GEOCON

GEOCON PROJECT NO. S9200-06-79
TASK ORDER NO. 79

AUGUST 2009

GEOCON
CONSULTANTS, INC.
GEOTECHNICAL ■ ENVIRONMENTAL ■ MATERIALS

Project No. S9200-06-79
August 26, 2009

Mr. Ken Doran, Task Order Manager
Caltrans District 6
2015 E. Shields Avenue, Suite 100
Fresno, California 93726

Subject: SANTA NELLA WEIGHT STATION (SOUTHBOUND)
MERCED COUNTY, CALIFORNIA
CONTRACT NO. 06A1141
TASK ORDER NO. 79, EA NO. 10-0S1900
ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

Dear Mr. Doran:

In accordance with California Department of Transportation Contract No. 06A1141 and Task Order No. 79, we have performed an asbestos and lead-containing paint (LCP) survey of the subject facility in Merced County, California. The scope of services included surveying the scale house office building for suspect asbestos-containing materials and LCP, collecting bulk samples, collecting background (pre-renovation) asbestos air samples, and submitting the samples to laboratories for analyses.

The accompanying report summarizes the services performed and laboratory analysis.

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

Please contact us if you have questions concerning the contents of this report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.

for David A. Watts, CAC
Senior Project Scientist

John E. Juhrend, PE, CEG
Project Manager

DAW:JEJ:jaj

(1 + 1 CD) Addressee

TABLE OF CONTENTS

ASBESTOS AND LEAD-CONTAINING PAINT SURVEY REPORT

1.0 INTRODUCTION

This asbestos and lead-containing paint (LCP) survey report was prepared by Geocon Consultants, Inc. under Caltrans Contract No. 06A1141, Task Order No. 79 (TO-79).

1.1 Project Description

The project consists of the Santa Nella Weight Station (Southbound) on Interstate 5 in Merced County, California. We performed asbestos and LCP survey activities on the scale house office building at the project location. We also collected background (pre-renovation) asbestos air samples. The project location is depicted on the Vicinity Map, Figure 1, and Site Plan, Figure 2.

1.2 General Objectives

The primary purpose of the scope of services outlined in TO-79 was to determine the presence and quantity of asbestos construction materials, deteriorated LCP, and airborne asbestos (fiber) levels at the project location prior to renovation activities. The information obtained from this investigation will be used by Caltrans for waste profiling, determining California Occupational Safety and Health Administration (Cal/OSHA) applicability, and coordinating asbestos and LCP disturbance activities.

> *It was <u>not</u> Geocon's intent during this inspection to conduct an evaluation of lead-based paint hazards in accordance with U.S. Department of Housing and Urban Development (HUD) guidelines.*

2.0 BACKGROUND

2.1 Asbestos

The *Code of Federal Regulations (CFR),* 40 CFR 61, Subpart M, National Emissions Standards for Hazardous Air Pollutants (NESHAP) and Federal Occupational Safety and Health Administration (FED OSHA) classify asbestos-containing material (ACM) as any material or product that contains *greater than* 1% asbestos. Nonfriable ACM is classified by NESHAP as either Category I or Category II material defined as follows:

- **Category I** – asbestos-containing packings, gaskets, resilient floor coverings, and asphalt roofing products.
- **Category II** – all remaining types of nonfriable asbestos-containing material not included in Category I that when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

Regulated asbestos-containing material (RACM), a hazardous waste when friable, is classified as any manufactured material that contains *greater than* 1% asbestos by dry weight *and* is:

- Friable (can be crumbled, pulverized, or reduced to powder by hand pressure); or
- Category I material that has become friable; or
- Category I material that has been subjected to sanding grinding, cutting or abrading; or
- Category II nonfriable material that has a high probability of becoming crumbled, pulverized, or reduced to a powder during demolition or renovation activities.

Activities that disturb materials containing *any* amount of asbestos are subject to certain requirements of the Cal/OSHA asbestos standard contained in Title 8, CCR Section 1529. Typically, removal or disturbance of more than 100 square feet of material containing more than 0.1% asbestos must be performed by a registered asbestos abatement contractor, but associated waste labeling is not required if the material contains 1% or less asbestos. When the asbestos content of a material exceeds 1%, virtually all requirements of the standard become effective.

Materials containing greater than 1% asbestos are also subject to NESHAP regulations (40 CFR Part 61, Subpart M). RACM (friable ACM and nonfriable ACM that will become friable during demolition operations) must be removed from structures prior to demolition. Certain nonfriable ACM and materials containing 1% or less asbestos may remain in structures during demolition; however, there are waste handling/disposal issues and Cal/OSHA work requirements that must be addressed. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

With respect to potential worker exposure, notification, and registration requirements, Cal/OSHA defines asbestos-containing construction material (ACCM) as construction material that contains greater than 0.1% asbestos (Title 8, CCR 341.6).

2.2 Lead Paint

Construction activities (including demolition) that disturb materials or paints containing *any* amount of lead are subject to certain requirements of the Cal/OSHA lead standard contained in Title 8, CCR, Section 1532.1. Deteriorated paint is defined by Title 17, CCR, Division 1, Chapter 8, §35022 as a surface coating that is cracking, chalking, flaking, chipping, peeling, non-intact, failed, or otherwise separated from a component. Demolition of a deteriorated LCP component would require waste characterization and appropriate disposal. Intact LCP on a component is currently accepted by most landfill facilities; however, contractors are responsible for segregating and characterizing waste streams prior to disposal.

For a solid waste containing lead, the waste is classified as California hazardous when: 1) the total lead content equals or exceeds the respective Total Threshold Limit Concentration (TTLC) of 1,000 milligrams per kilogram (mg/kg); or 2) the soluble lead content equals or exceeds the respective

Soluble Threshold Limit Concentration (STLC) of 5 milligrams per liter (mg/l) based on the standard Waste Extraction Test (WET). A waste has the potential for exceeding the lead STLC when the waste's total lead content is greater than or equal to ten times the respective STLC value since the WET uses a 1:10 dilution ratio. Hence, when total lead is detected at a concentration greater than or equal to 50 mg/kg, and assuming that 100 percent of the total lead is soluble, soluble lead analysis is required. Lead-containing waste is classified as "Resource, Conservation, and Recovery Act" (RCRA) hazardous, or Federal hazardous, when the soluble lead content equals or exceeds the Federal regulatory level of 5 mg/l based on the Toxicity Characteristic Leaching Procedure (TCLP).

The above regulatory criteria are based on chemical concentrations. Wastes may also be classified as hazardous based on other criteria such as ignitability; however, for the purposes of this investigation, toxicity (i.e., lead concentrations) is the primary factor considered for waste classification since waste generated during the construction activities would not likely warrant testing for ignitability or other criteria. Waste that is classified as either California hazardous or RCRA hazardous requires management as a hazardous waste.

Potential hazards exist to workers who remove or cut through LCP coatings during demolition. Dust containing hazardous concentrations of lead may be generated during scraping or cutting materials coated with lead-containing paint. Torching of these materials may produce lead oxide fumes. Therefore, air monitoring and/or respiratory protection may be required during the demolition of materials coated with LCP. Guidelines regarding regulatory provisions for construction work where workers may be exposed to lead are presented in the Title 8, CCR, Section 1532.1.

2.3 Architectural Drawings and Previous Survey Activities

Architectural drawings or previous survey reports for the project were not available for our review.

3.0 SCOPE OF SERVICES

Mr. David Watts, a California-Certified Asbestos Consultant (CAC), certification No. 98-2404 (expiration September 16, 2010), and Certified Lead Paint Inspector/Assessor and Project Monitor with the California Department of Public Health (DPH), certification numbers I-1734 and M-1734 (expiration December 4, 2010), performed the asbestos and LCP survey at the project location on July 9, 2009.

3.1 Asbestos

Suspect ACM were grouped into homogeneous areas with representative samples randomly collected from each. In addition, each potential ACM was evaluated for friability. A total of fifteen bulk asbestos samples representing seven material types were collected.

Our procedures for inspection and sampling in accordance with TO-79 are discussed below:

- Collected bulk asbestos samples after first wetting friable material with a light mist of water. The samples were then cut from the substrate and transferred to a labeled container. Note that when multiple samples were collected, the sampling locations were distributed throughout the homogeneous area (spaces where the material was observed).
- Relinquished bulk asbestos samples under chain-of-custody protocol to EMSL Analytical, Inc., a California-licensed and Caltrans-approved subcontractor, for asbestos analysis in accordance with United States Environmental Protection Agency (EPA) Test Method 600/R-93/116 using polarized light microscopy (PLM). EMSL Analytical, Inc. is a laboratory accredited by the National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program (NIST-NVLAP) for bulk asbestos fiber analysis. The laboratory analyses were requested on a standard turn-around-time.

Sample group identification numbers, material descriptions, approximate quantities, friability assessments, and photo references are summarized on Table 1. Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

3.2 Lead Paint

Two bulk paint samples were collected from suspect LCP observed at the project location. Our sampling procedures in accordance with TO-79 are discussed below:

- Collected bulk samples of suspect LCP using techniques presented in HUD guidelines. In addition, the painted areas were evaluated for evidence of deterioration such as flaking or cracking.
- Relinquished bulk LCP samples under chain-of-custody protocol to Advanced Technology Laboratories, a California-licensed and Caltrans-approved subcontractor, for lead analysis in accordance with EPA Test Method 6010B. Advanced Technology Laboratories is accredited by the DPH for lead analysis. The laboratory analysis was requested on a standard turn-around-time.

Paint sample identification numbers, descriptions, and photo references are summarized on Table 2. Approximate sample locations are presented on Figure 2. Materials represented by the samples collected are shown in the attached photographs.

3.3 Background Air Sampling

We collected interior and exterior background area air samples at the subject site using high volume air sampling pumps. Three-piece, 25-millimeter (mm), mixed-cellulose ester, 0.8-micron filter cassettes were used to collect asbestos air samples from locations at the subject site. A total of four background air samples (one interior and three exterior) were collected. Air sample cassettes were positioned on tripods approximately 5 feet above ground level. A floating ball rotometer was used to calibrate each sampling pump at the beginning and end of the sample collection period. Sample locations consisted of:

- Sample No. BG1 – scale house building interior;
- Sample No. BG2 – scale house building northeast exterior;
- Sample No. BG3 – scale house building west exterior; and
- Sample No. BG4 – scale house building southeast exterior.

The air samples were delivered under chain-of-custody protocol to EMSL and analyzed on a standard turn-around-time by phase contrast microscopy (PCM) in accordance with National Institute of Occupational Safety and Health (NIOSH) Method 7400. Two field blanks and a lab blank were submitted with the background air samples.

Air sample identification numbers, locations, and photo references are summarized on Table 3. The approximate sample locations are presented on Figure 2. Air sample locations are shown in the attached photographs.

4.0 INVESTIGATIVE RESULTS

4.1 Asbestos Analytical Results

Chrysotile asbestos at a concentration of 5% was detected in samples representing approximately 20 square feet of nonfriable asphalt roofing mastic.

Chrysotile asbestos at a concentration of 2% was detected in samples representing joint compound associated with approximately 250 square feet of friable gypsum board wall systems used throughout the office building. The composite asbestos content (gypsum board and joint compound) was less than (<) 0.25% using PLM point count analysis (400 points).

Asbestos was not detected in the remaining samples collected during our survey. A summary of the analytical laboratory test results for asbestos is presented on Table 1. Reproductions of the laboratory reports and chain-of-custody documentation are presented in Appendix A.

4.2 Paint Analytical Results

A sample representing approximately 40 square feet of peeling and flaking white paint used on the exterior of the office building exhibited a total lead concentration of 830 mg/kg, a soluble (WET) lead concentration of 28 mg/l, and a TCLP lead concentration of 0.75 mg/l.

A sample representing approximately 5 square feet of deteriorated light blue exterior paint exhibited a total lead concentration of 35 mg/kg.

A summary of the analytical laboratory test results for paint is presented on Table 2. Reproductions of the laboratory reports and chain-of-custody documentation are presented in Appendix A.

4.3 Background Air Sampling Analytical Results

Laboratory analytical results for each background air sample were less than the laboratory reporting limit of 0.005 fibers per cubic centimeter (f/cc).

5.0 RECOMMENDATIONS

Based on our findings, we recommend the following:

5.1 Asbestos

NESHAP regulations do not require that the asbestos-containing roofing mastic (a Category I nonfriable/nonhazardous material) or gypsum board systems identified during our survey be removed prior to renovation activities or treated as hazardous waste. However, the disturbance of these materials is still covered by the Cal/OSHA asbestos standard (Title 8, CCR Section 1529). Geocon recommends that a licensed and certified asbestos abatement contractor perform activities that would disturb the asbestos-containing materials. Contractors are responsible for informing the landfill of the contractor's intent to dispose of asbestos-containing waste. Some landfills may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

We also recommend written notification to contractors (that will be conducting renovation or related activities) and scale house employees of the presence of asbestos (i.e., provide the contractor[s] and employees with a copy of this report and a list of asbestos removed by a licensed contractor[s] during subsequent abatement activities). Contractors not trained for asbestos work should be instructed not to disturb asbestos.

In accordance with the San Joaquin Valley Unified Air Pollution Control District, Rule 4002, written notification is required ten working-days prior to commencement of *any* demolition activity (whether asbestos is present or not). In accordance with Title 8, CCR 341.9, written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain asbestos-related work.

5.2 Lead Paint

Deteriorated white paint identified on the exterior of the office building during our survey would be classified as California hazardous waste based on lead content. As such, the deteriorated paint must be removed and disposed of prior to renovation, demolition, or other activities that would disturb it. The contractor should be required to use personnel who have lead-related construction certification as supervisors or workers, as appropriate, from the California DPH for LCP removal work. Loose and peeling/flaking paints with hazardous lead levels require removal prior to demolition for waste segregation purposes: to separate potentially hazardous waste (Category III concentrated lead such as loose paint, paint sludge, vacuum debris, and vacuum filters) from non-hazardous demolition debris (Category II intact lead-painted architectural components such as doors, windows, framework, cladding, and trim). Category I waste is low lead waste (typically non-hazardous) such as construction materials, filtered wash water, and plastic sheeting. Contractors are responsible for informing the

landfill of the contractor's intent to dispose of RCRA waste, California hazardous waste, and/or architectural components containing intact LCP. Some landfills may require additional waste characterization. Contractors are responsible for segregating and characterizing waste streams prior to disposal.

Deteriorated lead-containing light blue paint identified during our survey would not be classified as a California or Federal hazardous waste based on lead content.

Geocon recommends that all paints at the project location be treated as lead-containing for purposes of determining the applicability of the Cal/OSHA lead standard during any future maintenance, renovation, and demolition activities. This recommendation is based on LCP sample results and the fact that lead was a common ingredient of paints manufactured before 1978 and is still an ingredient of some industrial paints. In accordance with Title 8, CCR, Section 1532.1(p), written notification to the nearest Cal/OSHA district office is required at least 24 hours prior to certain lead-related work.

5.3 Background Air

The reported airborne asbestos levels for the background area air samples are well below the United States Environmental Protection Agency reoccupancy limit following asbestos abatement of 0.01 f/cc. Based on these results, we conclude that asbestos-containing construction materials at the subject site have not caused increased exposure to airborne asbestos.

6.0 REPORT LIMITATIONS

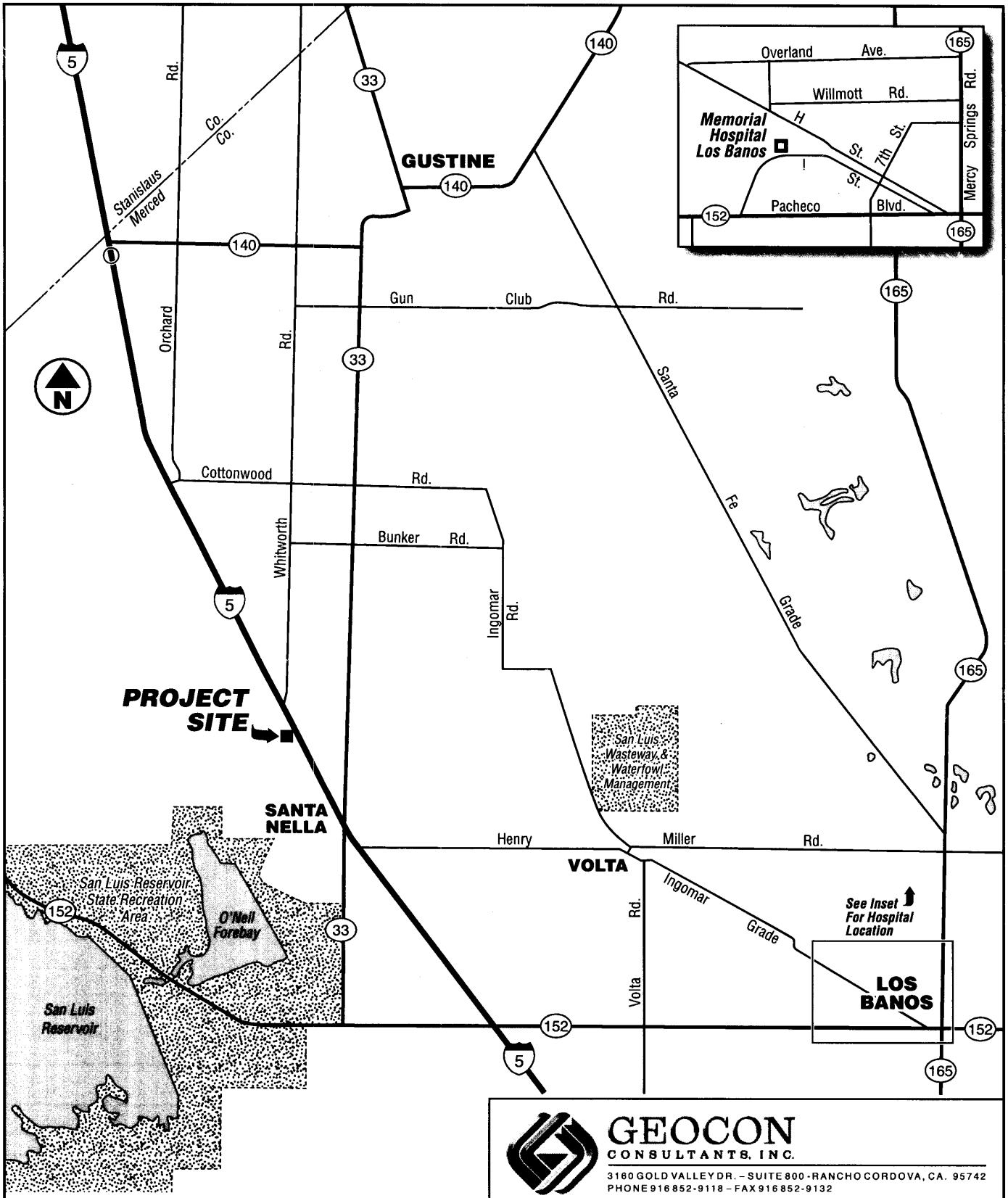
This asbestos and LCP survey was conducted in conformance with generally accepted standards of practice for identifying and evaluating asbestos and LCP in structures. The survey addressed only the structure identified in Section 1.1. Due to the nature of structure surveys, asbestos and LCP use, and laboratory analytical limitations, some ACM or LCP at the project location may not have been identified. Spaces such as cavities, voids, crawlspaces, and pipe chases may have been concealed to our investigator. Previous renovation work may have concealed or covered spaces or materials or may have partially demolished materials and left debris in inaccessible areas. Additionally, renovation activities may have partially replaced ACM with indistinguishable non-ACM. Asbestos and/or LCP may exist in areas of the structures that were not accessible or sampled in conjunction with this TO.

During renovation or demolition operations, suspect materials may be uncovered which are different from those accessible for sampling during this assessment. Personnel in charge of renovation/demolition should be alerted to note materials uncovered during such activities that differ substantially from those included in this or previous assessment reports. If suspect ACM and/or LCP are found, additional sampling and analysis should be performed to determine if the materials contain asbestos or lead.

This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report and will require an update to reflect additional information obtained.

This report is not a comprehensive site characterization and should not be construed as such. The findings 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 be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

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



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CONSULTANTS, INC.
3160 GOLD VALLEY DR. – SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 – FAX 916 852-9132

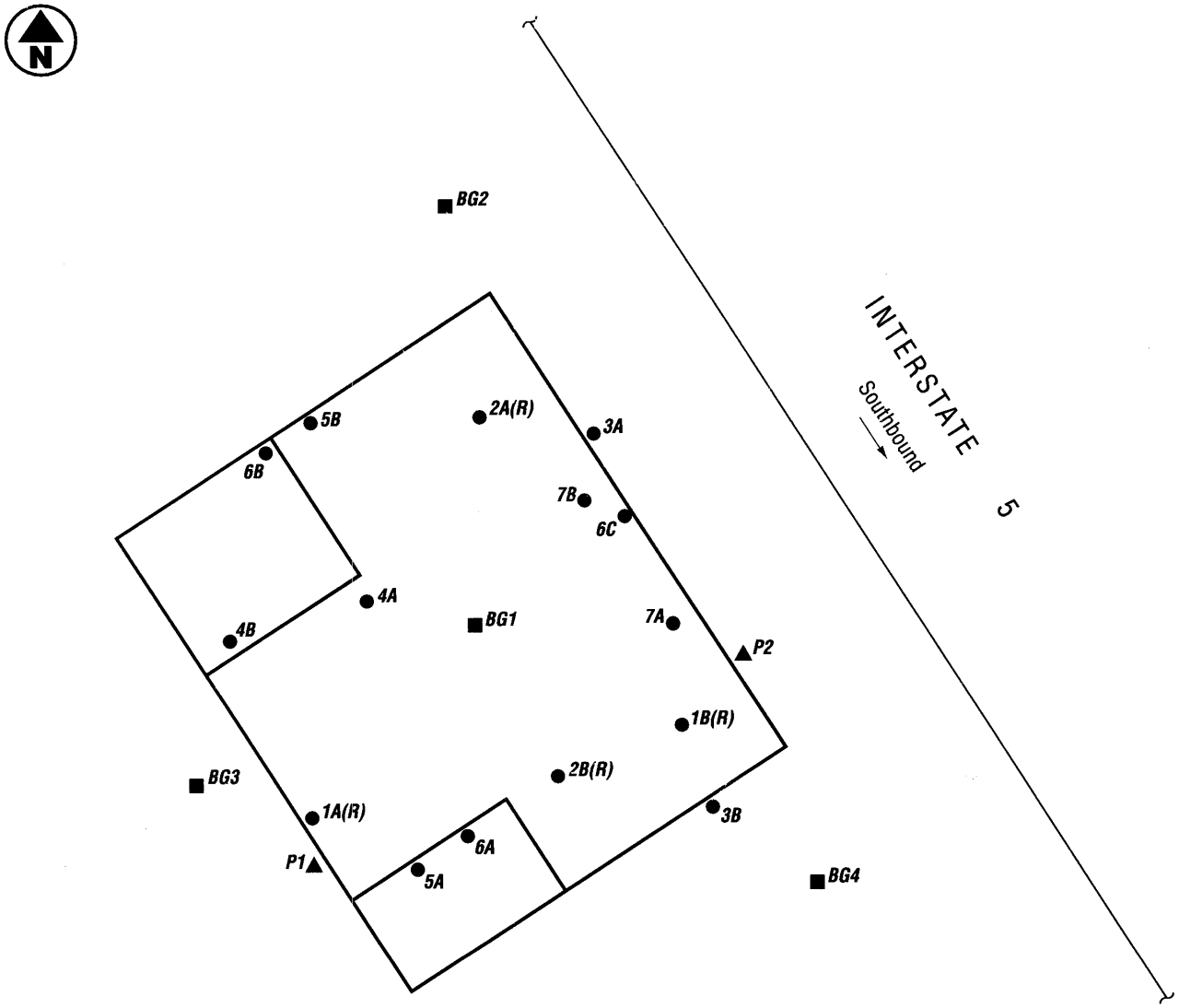
Santa Nella Weight Station (Southbound)

Merced County, California

VICINITY MAP

GEOCON Proj. No. S9200-06-79

Task Order No. 79 | August 2009 | Figure 1



SCALE APPROXIMATE

LEGEND:

- ● Approximate Asbestos Sample Location
- ▲ Approximate Paint Sample Location
- ■ Approximate Air Sample Location
- *(R)* Roof

GEOCON
CONSULTANTS, INC.
3160 GOLD VALLEY DR. – SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 – FAX 916 852-9132

Santa Nella Weight Station (Southbound)		
Merced County, California	**SITE PLAN**	
GEOCON Proj. No. S9200-06-79		
Task Order No. 79	August 2009	Figure 2

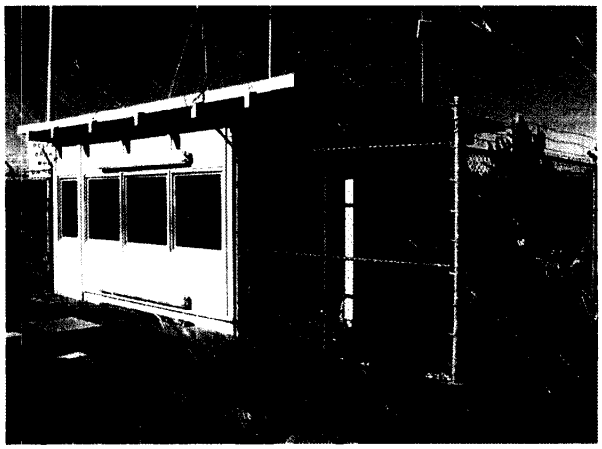


Photo 1 – Scale house office building

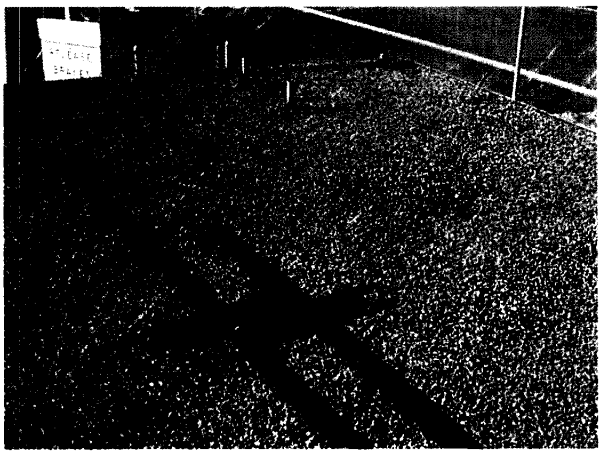


Photo 2 – Roof

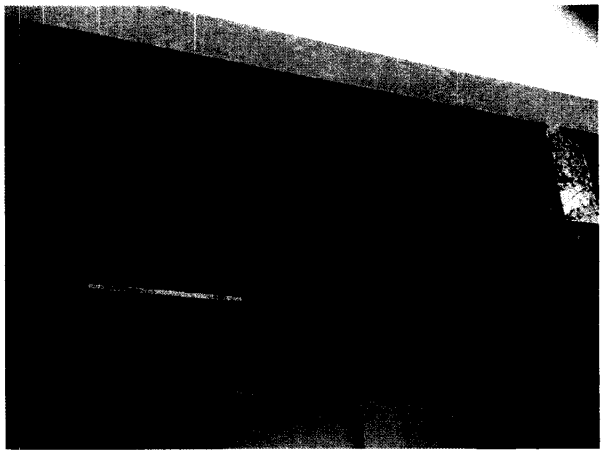


Photo 3 – Deteriorated exterior paint

GEOCON
CONSULTANTS, INC.
3160 GOLD VALLEY DR - SUITE 800 - RANCHO CORDOVA, CA 95742
PHONE 916.852.9118 - FAX 916.852.9132

PHOTOGRAPHS 1, 2 & 3		
Santa Nella Weight Station (Southbound) Merced County, California		
S9200-06-79		August 2009

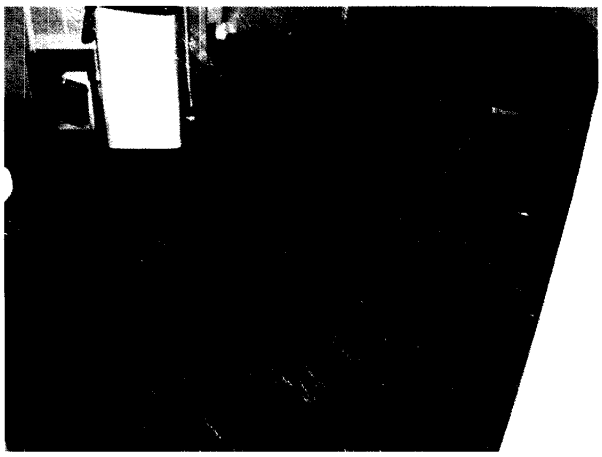


Photo 4 – Interior

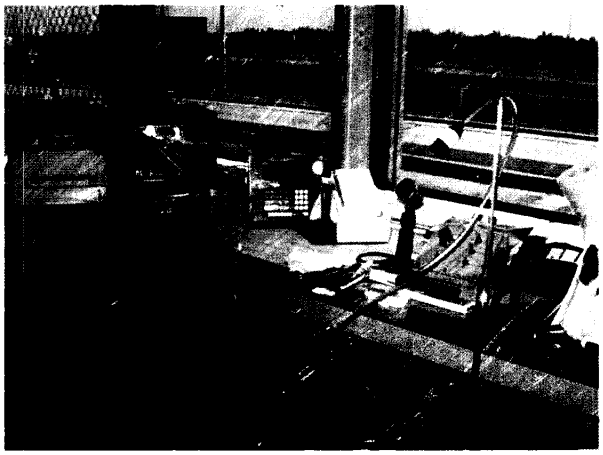


Photo 5 – Interior background air sample location

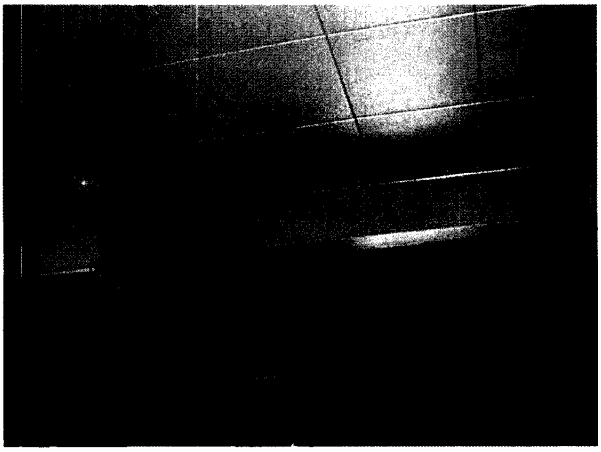


Photo 6 – Acoustic ceiling tile

GEOCON
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PHOTOGRAPHS 4, 5 & 6		
Santa Nella Weight Station (Southbound) Merced County, California		
S9200-06-79		August 2009

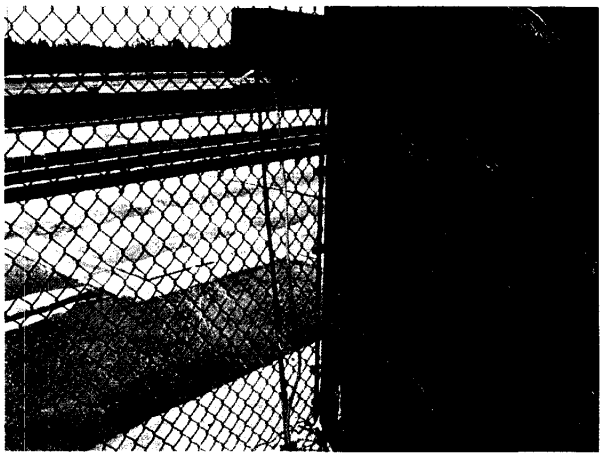

Photo 7 – Exterior background air sample location (northeast)

Photo 8 – Exterior background air sample location (west)

Photo 9 – Exterior background air sample location (southeast)

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CONSULTANTS, INC.
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PHOTOGRAPHS 7, 8 & 9		
Santa Nella Weight Station (Southbound) Merced County, California		
S9200-06-79		August 2009

TABLE 1
SUMMARY OF ASBESTOS ANALYTICAL RESULTS
SANTA NELLA WEIGHT STATION (SOUTHBOUND)
CALTRANS CONTRACT 06A1141, TASK ORDER NO. 79, EA 10-0S1900
MERCED COUNTY, CALIFORNIA

Polarized Light Microscopy (PLM) - EPA Test Method 600/R-93/116

Sample Group No.	Description of Material	Approximate Quantity	Friable	Site Photos	Asbestos Content
1	Asphalt roofing roll	NA	NA	2	ND
2	**Asphalt roofing mastic**	**20 square feet**	**No**	**2**	**5%**
3	Textured exterior paints (multi-layer)	NA	NA	3	ND
4	Floor tile	NA	NA	4	ND
5	Base coving	NA	NA	4 and 5	ND
6	**Gypsum board systems**	**250 square feet**	**Yes**	**4, 5, and 6**	**<0.25%* (GB/JC comp)**
7	Ceiling tile	NA	NA	6	ND

Notes:

NA = Not applicable (no asbestos detected)

ND = Not detected

* Material analyzed using PLM Point Count Methodology (400 points)

GB/JC comp = Gypsum board and joint compound composite

EMSL Analytical, Inc
2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577
Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

Attn: **David Watts**
Geocon Consultants
6671 Brisa Street
Livermore, CA 94550
Fax: (925) 371-5915 Phone: (925) 371-5900
Project: **S9200-06-79, Santa Nella WE, SB, Merced Co.**

Customer ID: GECN21
Customer PO: S9200-06-79
Received: 07/22/09 9:00 AM
EMSL Order: 090905871

EMSL Proj: S9200-06-**
Analysis Date: 7/26/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
1A-Asphalt Roofing Roll *090905871-0001*		Black Non-Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (other)	**None Detected**
1B-Asphalt Roofing Roll *090905871-0002*		Black Non-Fibrous Heterogeneous	10% Cellulose	90% Non-fibrous (other)	**None Detected**
2A-Asphalt Roofing Mastic *090905871-0003*		Black/Silver Non-Fibrous Heterogeneous		95% Non-fibrous (other)	**5% Chrysotile**
2B-Asphalt Roofing Mastic *090905871-0004*		Black/Silver Non-Fibrous Heterogeneous		95% Non-fibrous (other)	**5% Chrysotile**
3A-Textured Paint *090905871-0005*		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
3B-Textured Paint *090905871-0006*		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)

Alan Tahran (12)
Jason Mcgriff (14)

Baojia Ke, Laboratory Manager
or other approved signatory

Due to magnification limitations inherent in PLM, asbestos fibers in dimensions below the resolution capability of PLM may not be detected. Samples reported as <1% or none detected may require additional testing by TEM to confirm asbestos quantities. The above test report relates only to the items tested and may not be reproduced in any form without the express written approval of EMSL Analytical, Inc. EMSL's liability is limited to the cost of analysis. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client.Samples received in good condition unless otherwise noted.

Samples analyzed by EMSL Analytical, Inc San Leandro 2235 Polvorosa Ave , Suite 230, San Leandro CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

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Received: 07/22/09 9:00 AM
EMSL Order: 090905871

EMSL Proj: S9200-06-**
Analysis Date: 7/26/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
4A-Floor Tile *090905871-0007*		Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4A-Mastic *090905871-0007A*		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4A-Floor Tile *090905871-0007B*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4A-Mastic *090905871-0007C*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4B-Floor Tile *090905871-0008*		Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4B-Mastic *090905871-0008A*		Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected
4B-Floor Tile *090905871-0008B*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	None Detected

Analyst(s)

Alan Tahran (12)
Jason Mcgriff (14)

Baojia Ke, Laboratory Manager
or other approved signatory

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Customer ID: GECN21
Customer PO: S9200-06-79
Received: 07/22/09 9:00 AM
EMSL Order: 090905871

EMSL Proj: S9200-06-**
Analysis Date: 7/26/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
4B-Mastic *090905871-0008C*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
5A-Base Coving *090905871-0009*		Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-Mastic *090905871-0009A*		Tan Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
5B-Base Coving *090905871-0010*		Blue Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
5B-Mastic *090905871-0010A*		White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
6A-Gypsum Board System *090905871-0011*		White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	**None Detected**
6A-Joint Compound *090905871-0011A*		Tan Non-Fibrous Homogeneous		98% Non-fibrous (other)	**2% Chrysotile**

Analyst(s)

Alan Tahran (12)
Jason Mcgriff (14)

Baojia Ke, Laboratory Manager
or other approved signatory

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6671 Brisa Street
Livermore, CA 94550
Fax: (925) 371-5915 Phone: (925) 371-5900
Project: **S9200-06-79, Santa Nella WE, SB, Merced Co.**

Customer ID: GECN21
Customer PO: S9200-06-79
Received: 07/22/09 9:00 AM
EMSL Order: 090905871
EMSL Proj: S9200-06-**
Analysis Date: 7/26/2009

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

			Non-Asbestos		Asbestos
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Type
6B-Gypsum Board System *090905871-0012*		White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	**None Detected**
6B-Joint Compound *090905871-0012A*		Tan Non-Fibrous Homogeneous		98% Non-fibrous (other)	**2% Chrysotile**
6C-Gypsum Board System *090905871-0013*		White Fibrous Heterogeneous	20% Cellulose	80% Non-fibrous (other)	**None Detected**
6C-Joint Compound *090905871-0013A*		Tan Non-Fibrous Homogeneous		98% Non-fibrous (other)	**2% Chrysotile**
7A-Ceiling Tile *090905871-0014*		Tan Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	**None Detected**
7B-Ceiling Tile *090905871-0015*		Tan Fibrous Homogeneous	95% Cellulose	5% Non-fibrous (other)	**None Detected**

Analyst(s)
Alan Tahran (12)
Jason Mcgriff (14)

Baojia Ke, Laboratory Manager
or other approved signatory

THIS IS THE LAST PAGE OF THE REPORT.

EMSL Analytical, Inc
2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577
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Attn: **David Watts**
Geocon Consultants
6671 Brisa Street
Livermore, CA 94550
Fax: (925) 371-5915 Phone: (925) 371-5900
Project: **S9200-06-79, Santa Nella WE, SB, Merced Co.**

Customer ID: GECN21
Customer PO: S9200-06-79
Received: 07/22/09 9:00 AM
EMSL Order: 090905871

EMSL Proj: S9200-06-**
Analysis Date: 7/30/2009

Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using 400 Point Count Procedure.

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
6A-Gypsum Board System, JC, Composite *090905871-0011B*		White Fibrous Heterogeneous		100.00% Non-fibrous (other)	**<0.25% Chrysotile**
6B-Gypsum Board System, JC, Composite *090905871-0012B*		White Fibrous Heterogeneous		100.00% Non-fibrous (other)	**<0.25% Chrysotile**
-Gypsum Board System, JC, Composite *090905871-0013B*		White Fibrous Heterogeneous		100.00% Non-fibrous (other)	**<0.25% Chrysotile**

Analyst(s)

Rui Cindy Geng (3)

Baojia Ke, Laboratory Manager
or other approved signatory

Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc San Leandro 2235 Polvorosa Ave , Suite 230, San Leandro CA NVLAP Lab Code 101048-3, MA AA000201, WA C2007

THIS IS THE LAST PAGE OF THE REPORT.

Chain of C[illegible]ly Form

Project No.: 9200-06-79 Client Name: GEOCON Analyze sample sets until posit[illegible] ☐ Yes ☒ No

Report Results to: D. WATTS Office Location: LIVERMORE, CA Analytical Fee (per sample): $PLM Date(s) Inspected: 21 July 2009

Consultants Ph. #: (925) 371-5906 Consultants Fax #: (925) 371-5915 Other Comments: STD TAT

Site Name: SANTA NELLA WE Building No. 5B Site Address: MERCED CO.

Material Code	Sample Number: Site No.	Sample Number: Bldg. No.	Sample Number: Material Link No.	Samples Collected: A	B	C	D	E	F	G	H	I	J	K	Not Sampled	Material Description
			1	X	X											ASPHALT ROOFING R11
			2	X	X											" " MASTIC
			3	X	X											TEXTURED PAINT
			4	X	X											FLOOR TILE
			5	X	X											BASE COVING
			6	X	X	X										GYPSUM BOARD SYSTEMS
			7	X	X											CEILING TILE

Relinquished by: Print Name: D. WATTS Signature: [signature] Date/Time: 21 July 2009 1500 Received by: Print Name: Signature: FED EX Date/Time: 21 July 2009 1500

Relinquished by: Print Name: Signature: Date/Time: 7/22/09 @9:00 FIE Received by: Print Name: Signature: Date/Time:

Flooring
- CFT = Ceramic floor tile grout/mastic (M)
- F = Floor material-Generic(M)
- FMAS = Floor mastic(M)
- FT = Vinyl composite tile floor (M)
- FS = Vinyl composite sheet floor (M)
- FLC = Floor leveling compound (M)
- TERR = Terrazzo flooring (M)

Wall/Ceiling/Other
- ACOU = Textured acoustical (sprayed) (S)
- BBM = Baseboard mastic (M)
- CM = Ceiling (unspecified type) (M)
- CS = Ceiling (unspecified type) (S)
- CP = Ceiling panel - Lay-in (M)
- CMAS = Ceiling mastic (M)
- CT = Ceiling tile - Splined or nailed (M)
- CTG = Ceiling tile - Glued (M)
- CWT = Ceramic wall tile grout & mastic(M)
- DEBM = Debris (unspecified) (M),
- DEBS = Debris (unspecified) (S)
- DEBT = Debris (unspecified) (TSI)
- DOOR = Door core insulation - Fire door (M)
- OFM = Other friable material (M)
- OFS = Other friable material (S)
- ONFM = Other nonfriable material (M)
- ONFS = Other nonfriable materials (S)
- PL = Plaster (wall or ceiling) (S)
- SHR = Sheetrock (no joint compound) (M)
- SHRJC = Sheetrock with joint compound (M)
- STUC = Stucco (S)
- FP = Structural fireproofing (S)
- TRAN = Transite panel (M)
- TX = Surface texturing on walls/ceiling (S)
- WM = Wall (unspecified type) (M)
- WS = Wall (unspecified type) (S)
- WT = Wall tile - Splined or nailed (M)
- WTG = Wall tile - Glued on (M)

Piping/TSI
- PI = Fitting insulation (type not specified) (TSI)
- PICHW = Fitting - Chilled water system (TSI)
- PICON = Fitting - Condensate (TSI)
- PIDCW = Fitting - Domestic cold water (TSI)
- PIDHW = Fitting - Domestic hot water (TSI)
- PIHHW = Fitting - Heating hot water (TSI)
- PISTM = Fitting - Steam (TSI)
- DI = Duct insulation (TSI)
- DTAPE = HVAC - Duct joint tape/compound (M)
- DFLEX = HVAC - Flexible duct/flex duct joint (M)
- DFLUE = Mech. equipment - Flue insulation (TSI)
- MGSKT = Mech. equipment-Gasket (M)
- MTANK = Mech. equipment-Tank insulation (TSI)
- PI = Pipe insulation (type not specified) (TSI)
- PICHW = Pipe insulation-Chilled water system-(TSI)
- PICON = Pipe insulation-Condensate (TSI)
- PIDCW = Pipe insulation-Domestic cold water (TSI)
- PIDHW = Pipe insulation-Domestic hot water (TSI)
- PIHHW = Pipe insulation-Heating hot water (TSI)
- PISTM = Pipe insulation-Steam (TSI)
- PTRAN = Pipe-Transite (M)

Roofing
- RF = Roofing material (M)
- RFAG = Asphalt and gravel (M)
- RFAT = Asphalt roof tile (M)
- RFFLS = Flashing (M)
- RFFLT = Felt material (M)
- RFMAS = Penetration mastic (M)
- RFROL = Rolled sheet type (M)
- RTRAN = Transite shingle (M)

(M) = Miscellaneous material
(S) = Surfacing material
(TSI) = Thermal System Insulation

15

July 16, 2009

Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106354

RE: SANTA NELLA WS, S9200-06-79

Attention: Dave Watts

Enclosed are the results for sample(s) received on July 13, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

Sincerely,

for Eddie F. Rodriguez
Laboratory Director

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *16-Jul-09*

CLIENT: Geocon Consultants, Inc. **Lab Order:** 106354
Project: SANTA NELLA WS, S9200-06-79

Lab ID: 106354-001 **Collection Date:** 7/9/2009 9:04:00 AM
Client Sample ID: P1 **Matrix:** PAINT CHIPS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_090716A	QC Batch: 56577			PrepDate:	7/14/2009	Analyst: **SRB**
Lead	830	4.0		mg/Kg	1	7/16/2009 12:28 PM

Lab ID: 106354-002 **Collection Date:** 7/9/2009 9:11:00 AM
Client Sample ID: P2 **Matrix:** PAINT CHIPS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS						
	EPA 3050B			**EPA 6010B**		
RunID: ICP6_090716A	QC Batch: 56577			PrepDate:	7/14/2009	Analyst: **SRB**
Lead	35	8.0		mg/Kg	1	7/16/2009 12:29 PM

Qualifiers:

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

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

CHAIN OF CUSTODY RECORD

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

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: _____

Method of Transport: Client ☐ ATL ☐ CA OverN ☐ FEDEX ☐ Other: UPS

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

Client: GEOCON
Attn: D. WATTS
Address: 6671 BRISA ST
City LIVERMORE State CA Zip Code 94550
TEL: (925) 371-5900
FAX: (") " -5915

Project Name: SANTA RELLA WS Project #: 59200-06-79 Sampler: (Printed Name) D. WATTS (Signature)

Relinquished by: (Signature and Printed Name)	Date: 7/9/2009	Time: 1200	Received by: (Signature and Printed Name)	Date: 7/9/2009 Time: 1205
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name) UPS	Date: 7/13/09 Time: 9:30
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date: Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr/Submitter:
D. WATTS (Print Name) 9 July 2009 (Date)
(Signature)

Send Report To:
Attn: _____
Co: SEE "CLIENT"
Address _____
City _____ State _____ Zip _____

Bill To:
Attn: _____
Co: _____
Address _____
City _____ State _____ Zip _____

Special Instructions/Comments: PAINT (Pb)
ANTICIPATE SOLUBLE REQUESTS

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

Storage Fees (applies when storage is requested):
- Sample : $2.00 / sample / mo (after 45 days)
- Records : $1.00 / ATL workorder / mo (after 1 year)

Circle or Add Analysis(es) Requested

SPECIFY APPROPRIATE MATRIX

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

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample I.D. / Location	Date	Time	8081A (Pesticides)	8082 (PCB)	8260B (Volatiles)	8270C (BNA)	6010B (Total Metal) — Pb	8015B (GRO) / 8020 (BTEX)	8015B (DRO)	8021 (BTEX)	TITLE 22 / CAM 17 (6010 / 7000)	SOIL	WATER	GROUND WATER	WASTEWATER	PAINT CHIPS	TAT	Container(s) #	Container(s) Type	PRESERVATION	REMARKS
	166354-001	P1	7/9/09	0904					X									X	STD	1	Bg P		WHITE EXT/INT
	↓ 002	P2	↓	0911					X									X	↓	1	Bg P		BLUE EXT/INT

• TAT starts 8 a.m. following day if samples received after 3 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

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

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

July 24, 2009

Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
NELAP No.: 02107CA
NEVADA.: CA-401
CSDLAC No.: 10196

Workorder No.: 106354

RE: SANTA NELLA WS, S9200-06-79

Attention: Dave Watts

Enclosed are the results for sample(s) received on July 13, 2009 by Advanced Technology Laboratories . The sample(s) are tested for the parameters as indicated in the enclosed chain of custody in accordance with the applicable laboratory certifications.

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

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

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

Sincerely,

Eddie F. Rodriguez
Laboratory Director

CLIENT: Geocon Consultants, Inc.
Project: SANTA NELLA WS, S9200-06-79
Lab Order: 106354

CASE NARRATIVE

Analytical Comments for Method 7420

Dilution was necessary for sample 106354-001A, due to sample matrix.

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *24-Jul-09*

CLIENT:	Geocon Consultants, Inc.	**Client Sample ID:**	P1
Lab Order:	106354	**Collection Date:**	7/9/2009 9:04:00 AM
Project:	SANTA NELLA WS, S9200-06-79	**Matrix:**	PAINT CHIPS
Lab ID:	106354-001A		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION (STLC)						
	WET			**WET/ EPA 7420**		
RunID: AA2_090721A	QC Batch: 56673			PrepDate:	7/17/2009	Analyst: IL
Lead	28	2.5		mg/L	10	7/21/2009 09:42 AM

Qualifiers:

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

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

Advanced Technology Laboratories

Date: 24-Jul-09

CLIENT: Geocon Consultants, Inc.
Work Order: 106354
Project: SANTA NELLA WS, S9200-06-79

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_ST

Sample ID: MB-56673A	SampType: MBLK	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/17/2009	RunNo: 110970
Client ID: PBS	Batch ID: 56673	TestNo: WET/ EPA 74 WET		Analysis Date: 7/21/2009	SeqNo: 1746912

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

Sample ID: LCS-56673	SampType: LCS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/17/2009	RunNo: 110970
Client ID: LCSS	Batch ID: 56673	TestNo: WET/ EPA 74 WET		Analysis Date: 7/21/2009	SeqNo: 1746913

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.152	0.25	5.000	0	103	80	120				

Sample ID: 106306-012A-DUP	SampType: DUP	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/17/2009	RunNo: 110970
Client ID: ZZZZZZ	Batch ID: 56673	TestNo: WET/ EPA 74 WET		Analysis Date: 7/21/2009	SeqNo: 1746918

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.463	0.25						0.4415	4.83	20	

Sample ID: 106306-012A-MS	SampType: MS	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/17/2009	RunNo: 110970
Client ID: ZZZZZZ	Batch ID: 56673	TestNo: WET/ EPA 74 WET		Analysis Date: 7/21/2009	SeqNo: 1746919

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.919	0.25	5.000	0.4415	110	80	120				

Sample ID: 106306-012A-MSD	SampType: MSD	TestCode: 7420_ST	Units: mg/L	Prep Date: 7/17/2009	RunNo: 110970
Client ID: ZZZZZZ	Batch ID: 56673	TestNo: WET/ EPA 74 WET		Analysis Date: 7/21/2009	SeqNo: 1746920

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	5.868	0.25	5.000	0.4415	109	80	120	5.919	0.873	20	

Qualifiers:

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

Rachelle Arada

From: David Watts [watts@geoconinc.com]
Sent: Friday, July 17, 2009 6:35 AM
To: Rachelle Arada; Katherine Roura
Cc: Diane Galvan; Carmen Aguila
Subject: FW: Results/EDD - SANTA NELLA WS (106354)

WET on P1...std tat...thanks.

From: Diane Galvan [mailto:Diane@atlglobal.com]
Sent: Thursday, July 16, 2009 6:11 PM
To: watts@geoconinc.com
Cc: livermore@geoconinc.com
Subject: Results/EDD - SANTA NELLA WS (106354)

Hi Dave,

Here are the results and Excel EDD.

Thanks,

Diane Galvan
Project Coordinator

Advanced Technology Laboratories
www.atlglobal.com
Tel: (562) 989-4045 ext. 238
Fax: (562) 989-4040

July 31, 2009

Dave Watts
Geocon Consultants, Inc.
6671 Brisa Street
Livermore, CA 94550
TEL: (925) 371-5900
FAX: (925) 371-5915

ELAP No.: 1838
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CSDLAC No.: 10196

Workorder No.: 106354

RE: SANTA NELLA WS, S9200-06-79

Attention: Dave Watts

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

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

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

Sincerely,

Eddie F. Rodriguez
Laboratory Director

Advanced Technology Laboratories

ANALYTICAL RESULTS

Print Date: *31-Jul-09*

CLIENT: Geocon Consultants, Inc. **Lab Order:** 106354
Project: SANTA NELLA WS, S9200-06-79

Lab ID: 106354-001 **Collection Date:** 7/9/2009 9:04:00 AM
Client Sample ID: P1 **Matrix:** PAINT CHIPS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
LEAD BY ATOMIC ABSORPTION (TCLP)						
	EPA3010A			**EPA 1311/ 7420**		
RunID: AA2_090728A	QC Batch: 56916				PrepDate: 7/28/2009	Analyst: IL
Lead	0.75	0.25		mg/L	1	7/28/2009 01:35 PM

Qualifiers:

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

CLIENT: Geocon Consultants, Inc.
Work Order: 106354
Project: SANTA NELLA WS, S9200-06-79

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: MB-56916A	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/28/2009	RunNo: 111216
Client ID: PBS	Batch ID: 56916	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 7/28/2009	SeqNo: 1752487

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

Sample ID: MB-56892A TCLP	SampType: MBLK	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/28/2009	RunNo: 111216
Client ID: PBS	Batch ID: 56916	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 7/28/2009	SeqNo: 1752488

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

Sample ID: LCS-56916	SampType: LCS	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/28/2009	RunNo: 111216
Client ID: LCSS	Batch ID: 56916	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 7/28/2009	SeqNo: 1752489

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	0.976	0.25	1.000	0	97.6	80	120				

Sample ID: 106423-012A-MS	SampType: MS	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/28/2009	RunNo: 111216
Client ID: ZZZZZZ	Batch ID: 56916	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 7/28/2009	SeqNo: 1752492

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.134	0.25	2.500	1.492	106	70	130				

Sample ID: 106423-012A-MSD	SampType: MSD	TestCode: 7420_TC	Units: mg/L	Prep Date: 7/28/2009	RunNo: 111216
Client ID: ZZZZZZ	Batch ID: 56916	TestNo: EPA 1311/ 74 EPA3010A		Analysis Date: 7/28/2009	SeqNo: 1752493

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	4.104	0.25	2.500	1.492	104	70	130	4.134	0.735	20	

Qualifiers:

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

CLIENT: Geocon Consultants, Inc.
Work Order: 106354
Project: SANTA NELLA WS, S9200-06-79

ANALYTICAL QC SUMMARY REPORT

TestCode: 7420_TC

Sample ID: **106528-001A-DUP** SampType: **DUP** TestCode: **7420_TC** Units: **mg/L** Prep Date: **7/28/2009** RunNo: **111216**
Client ID: **ZZZZZZ** Batch ID: **56916** TestNo: **EPA 1311/ 74 EPA3010A** Analysis Date: **7/28/2009** SeqNo: **1752495**

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

Qualifiers:

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

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

Diane Galvan

From: David Watts [watts@geoconinc.com]
Sent: Monday, July 27, 2009 10:04 AM
To: Diane Galvan
Subject: RE: Additional Results/EDD - SANTA NELLA WS (106354)

tclp please...std tat

EMSL Analytical, Inc
2235 Polvorosa Ave , Suite 230, San Leandro, CA 94577
Phone: (510) 895-3675 Fax: (510) 895-3680 Email: milpitaslab@emsl.com

RECEIVED
JUL 29 2009
By

Attn: **David Watts**
Geocon Consultants
6671 Brisa Street
Livermore, CA 94550
Fax: (925) 371-5915 Phone: (925) 371-5900
Project: **S9200-06-79, Santa Nella WS**

Customer ID: GECN21
Customer PO: S9200-06-79
Received: 07/22/09 9:00 AM
EMSL Order: 090905870
EMSL Proj: S9200-06-**
Analysis Date: 7/23/2009

Fiber Count by Phase Contrast Microscopy (PCM), NIOSH 7400 Method, Revision 3, Issue 2, 8/15/94

Sample	*Location*	*Sample Date*	*Volume (liters)*	*Fibers*	*Fields*	*LOD (f/b/cc)*	*Fibers/ mm²*	*Fibers/ cc*	*Notes*
BG 1 *090905870-0001*	Background, Interior	7/21/2009	505.00	<5.5	100	0.005	<7.01	<0.005	
BG 2 *090905870-0002*	Background, NE Exterior	7/21/2009	505.00	<5.5	100	0.005	<7.01	<0.005	
BG 3 *090905870-0003*	Background, W Exterior	7/21/2009	505.00	<5.5	100	0.005	<7.01	<0.005	
BG 4 *090905870-0004*	Background, SE Exterior	7/21/2009	505.00	<5.5	100	0.005	<7.01	<0.005	
FB 1 *090905870-0005*	Field Blank	7/21/2009		<5.5	100		<7.01		Field Blank
FB 2 *090905870-0006*	Field Blank	7/21/2009		<5.5	100		<7.01		Field Blank
LB *090905870-0007*	Lab Blank	7/21/2009		<5.5	100		<7.01		Field Blank

The results reported have been blank corrected as applicable.

Analyst(s)
Aaron Ellis (7)

Baojia Ke, Laboratory Manager
or other approved signatory

Limit of detection is 7 fibers/mm². Interlaboratory Sr values: 5-20 fibers = 0.35, 21-50 fibers = 0.30, 51-100 fibers = 0.20. The laboratory is not responsible for data reported in fibers/cc, which is dependent on volume collected by non-laboratory personnel. This report relates only to the samples reported above. This report may not be reproduced, except in full, without written approval by EMSL. Results have been blank corrected as applicable. Samples received in good condition unless otherwise noted.
Samples analyzed by EMSL Analytical, Inc San Leandro 2235 Polvorosa Ave , Suite 230, San Leandro CA MA AA000201

THIS IS THE LAST PAGE OF THE REPORT.

90905870

Chain of Custody

Asbestos Lab Services

EMSL Analytical, Inc.
Suite 230
2235 Polvorosa Ave
San Leandro,
CA 94577
Phone: (510) 895-3675 (888) 455-3675
Fax: (510) 895-3680
http://www.emsl.com

Please print all information legibly.

Client Sample # (s) BG1 - LB Total Samples #: 7

Relinquished: [illegible] Date: 21 July 2009 Time: 1500

Received: FED EX Date: 21 July 2009 Time: 1500

Relinquished: Date: Time:

Received: [signature] Date: 7/22/09 Time: 9:00 F/E

SAMPLE NUMBER	SAMPLE DESCRIPTION/LOCATION	VOLUME (if applicable)
BG1	BACKGROUND (INTERIOR)	505 LITERS
2	(NE EXT)	
3	(W EXT)	
4	(SE EXT)	
FB1	FIELD BLANK	NA
2		
LB	LAB BLANK	