Correia Middle School Sports Complex Project
Draft EIR

Appendix B1

Draft Preliminary Environmental Assessment

Prepared by Ninyo & Moore

April 12, 2006

DRAFT PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT
CORREIA MIDDLE SCHOOL
4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PREPARED FOR:
San Diego Unified School District
Program Management Unit
Maintenance & Operations Center
4860 Ruffner Street
San Diego, California 92111-1522

PREPARED BY:
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April 12, 2006
Project No. 105338029

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Mr. Loren Chico
San Diego Unified School District
Program Management Unit
Maintenance & Operations Center
4860 Ruffner Street
San Diego, California 92111-1522

Subject: Draft Preliminary Environmental Assessment Report
Correia Middle School
4302 Valeta Street
San Diego, California 92106

Dear Mr. Chico:

In accordance with your request, Ninyo & Moore has prepared a Preliminary Environmental Assessment (PEA) Report for the Correia Middle School Site located at 4302 Valeta Street in the city and county of San Diego, California. The attached PEA Report documents previous investigations of the environmental conditions at the site, as well as the results of the investigation performed by Ninyo & Moore in December 2005.

We appreciate the opportunity to be of service to you on this project. Should you have any questions, please contact us at your convenience.

Respectfully submitted,
NINYO & MOORE

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Project Geologist

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This Preliminary Environmental Assessment (PEA) has been prepared in accordance with the California Education Code, for the Correia Middle School Site at 4302 Valeta Street in San Diego, California, and was prepared by Ninyo & Moore on behalf of the San Diego Unified School District in a manner consistent with the level of care and skill ordinarily exercised by professional geologists and environmental scientists. This PEA report was prepared under the technical direction of the undersigned personnel.

NINYO & MOORE

Sree Gopinath, P.E.
Principal Engineer

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LIST OF ACRONYMS

APN	Assessor's Parcel Number
BEP	Bis-2(ethylhexyl)Phthalate
bgs	Below ground surface
Cal/EPA	California Environmental Protection Agency
Calscience	Calscience Environmental Laboratories, Inc.
CEC	California Education Code
COC	Contaminant of Concern
COPC	Contaminant of Potential Concern
CSM	Conceptual Site Model
DTSC	Department of Toxic Substances Control
EDR	Environmental Data Resources
EPA	Environmental Protection Agency
ESA	Environmental Site Assessment
HA	Hydrologic Area
HHSE	Human Health Screening Evaluation
HSP	Health and Safety Plan
IDW	Investigation-Derived Wastes
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LDC	Laboratory Data Consultants
LEA	Local Enforcement Agency
LUST	Leaking Underground Storage Tank
mg/kg	Milligrams per kilogram
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MSL	Mean Sea Level
OCP	Organochlorine Pesticides
OSHA	Occupational Safety and Health Administration
PAH	Polynuclear Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PEA	Preliminary Environmental Assessment
QA/QC	Quality Assurance/Quality Control
QA	Quality Assurance
QC	Quality Control
RI/FS	Remedial Investigation/Feasibility Study
RWQCB	San Diego Regional Water Quality Control Board
SDUSD	San Diego Unified School District
SOPs	Standard Operating Procedures
SSI	Supplementary Site Investigation
SVOC	Semi-volatile Organic Compound
USA	Underground Service Alert
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey

EXECUTIVE SUMMARY

Ninyo & Moore was retained by the San Diego Unified School District (SDUSD) to prepare a Preliminary Environmental Assessment (PEA) report for Correia Middle School in San Diego, California (Figure 1). The site is located at 4302 Valeta Street, and has been occupied by Correia Middle School since its construction in 1958. The site property consists of school buildings located on the northeastern portion of the property and athletic fields on the southwestern portion of the property. A baseball field with grass turf is located on the western side of the athletic field and fill comprised of decomposed granite covering the surface on the eastern side.

The objectives of the assessment were (1) to evaluate if the contamination in surface soils in Study Area 1 present an imminent or substantial endangerment to the site receptors; and (2) to determine if the slopes in Study Area 2 could be sufficiently characterized such that planned erosion control measures could commence under a separate Removal Action Workplan. This PEA report was prepared in accordance with the Department of Toxic Substances Control (DTSC) guidelines, as presented in the PEA Guidance Manual (January 1994, second printing June 1999).

The PEA field assessment, including soil sampling and analysis, was conducted in December 2005 in accordance with the DTSC-approved work plan, dated December 13, 2005. PEA field activities were completed in areas of the site where suspected burn materials were mixed with clean fill, specifically the athletic fields and sloped areas bordering the athletic fields. The following is a summary of the site background and the PEA field activities:

- Various assessments, which included collection of samples for analysis, were previously conducted at the site by Kleinfelder, and the City of San Diego. Results indicated lead above the DTSC action level of 255 milligrams per kilogram (mg/kg) in 6 of 72 samples analyzed, and elevated arsenic concentrations in several of the samples.

- Based on these results, DTSC performed step-out sampling in the southwestern corner of the athletic field where lead was detected at a concentration of 2,650 mg/kg at a depth of 0.5 feet below ground surface (bgs) and collected additional samples along the west facing slopes where lead was encountered at a concentration of 69,100 mg/kg at a depth of 2.5 feet bgs. The DTSC investigation results indicated that the elevated concentrations of lead were limited in extent.

- In a meeting between SDUSD and DTSC representatives, it was agreed to perform further site characterization to evaluate whether an imminent and substantial endangerment to human health from site contamination exists, and to assess whether planned erosion control measures for the fill slopes along Valeta Street and Famosa Boulevard could proceed under a separate Removal Action Workplan (RAW). DTSC approved the workplan to perform a Preliminary Environmental Assessment on December 14, 2005.

- As agreed, the site was divided into three distinct study areas. Study Area 1 consists mainly of the educational areas within the fenced boundaries of the site. Study Area 2 consists of the

slopes located on the southern and eastern portions of the site adjacent to Famosa Boulevard and Valeta Street. The slope located on the western boundary of the site adjacent to Cleator Community Park is designated as Study Area 3, which was not assessed during the PEA.

- Lead was not detected above the DTSC action level of 255 mg/kg in surface samples (within the top 1.0 foot) in Study Areas 1 and 2.

- Arsenic concentrations in surface samples collected from Study Areas 1 and 2 indicate that they are generally within the range of background arsenic concentrations measured in formational material at the site, or are representative of ambient conditions in imported surface material from off site sources. Elevated concentrations of arsenic in burn material were consistent with elevated concentrations of lead in samples obtained from deeper portions of the fill.

- The results of the surface sampling program indicated that an imminent and substantial endangerment to site receptors does not exist from the potentially complete exposure pathways of surface soil ingestion, dermal contact, and inhalation of fugitive dust.

- The fill characterization program indicated incidence of secondary burn deposits mixed in with deeper portions of the fill. The shallowest incidence of burn ash was encountered at a depth of 4.5 feet in NM-B19, which had a lead concentration of 1,010 mg/kg. The only other sample with elevated lead concentration was in B-8 (69,100 mg/kg) at a depth of 2.5 feet, which had an arsenic concentration of 12.20 mg/kg.

- The burn deposits mixed with fill soils were generally characterized by elevated lead concentrations, detected polynuclear aromatic hydrocarbons, and dioxins/furans.

- A human health screening evaluation (HHSE) was performed for each Study Area using previous data, as well as the data collected during the subject investigation. Contaminants of potential concern (COPCs) were not encountered in surface soils in Study Area 1 or Study Area 2. The exposure pathways for COPCs encountered in deeper portions of the fill are considered incomplete. Therefore, the potential health risk to site receptors is considered insignificant.

- Equipment blanks collected from the site contained concentrations of analytes above the reporting limit; however, the concentrations detected were relatively low and likely had minimal effect, if any, on the sample concentrations.

- The laboratory analytical data was reviewed by Laboratory Data Consultants (LDC), a data validation specialist. LDC indicated the data reviewed were useable.

Based on the site history information, previous investigations, the results of the PEA field investigation, and the HHSE conducted, recommendations for further action are listed below.

- Prepare a Removal Action Workplan (RAW) report for Study Area 1 to use the existing ground surface in the fill areas as a cover to prevent exposure to burn materials and associated COPCs impacts.

- Prepare a separate RAW for Study Area 2 to facilitate the implementation of erosion control and slope stability plans.

1. INTRODUCTION

This document presents the Preliminary Environmental Assessment (PEA) report for Correia Middle School at 4302 Valeta Street, in the city and county of San Diego, California (site) (Figure 1). This PEA report is being submitted by Ninyo & Moore on behalf of the San Diego Unified School District (SDUSD).

1.1. Preliminary Environmental Assessment Objectives

SDUSD has requested Department of Toxic Substances Control (DTSC) oversight to ensure that the PEA activities are being completed in accordance with the DTSC's PEA Guidance Manual and other relevant guidance documents. SDUSD is currently operating in compliance with a programmatic Memorandum of Agreement with the DTSC.

In general, the objectives of this PEA include:

- Compiling data from previous investigations;
- Performing an investigation to supplement the previous data;
- Evaluating if the contamination in surface soils in Study Area 1 presents an imminent or substantial endangerment to the site receptors; and
- Determining if the slopes in Study Area 2 could be sufficiently characterized such that the planned erosion control could commence under a separate Removal Action Workplan (RAW).

Based on information developed during the PEA, the DTSC will make an informed decision regarding potential risks at the site. Possible outcomes of the PEA decision include the requirement for further assessment through a Supplementary Site Investigation (SSI), further assessment through the Remedial Investigation/Feasibility Study (RI/FS) process, or preparation of a RAW if a non-emergency removal action, or a remedial action is proposed with a cost of less than $1,000,000 ($1 million).

1.2. Scope of Work

The scope of work for this PEA included the following:

- Additional site characterization to evaluate imminent threat to human health, characterize the fill, and supplement previously collected data;
- Compilation of data from the previous and current investigations;
- Human Health Screening Evaluation (HHSE);
- Quality Assurance/Quality Control (QA/QC) Program; and
- Reporting.

1.3. PEA Report Format

This PEA Report is organized in general accordance with the suggested format presented in Chapter 3 of the DTSC's PEA Guidance Manual (DTSC, 1994). This PEA Report contains the following sections:

- **Section 1** presents the Introduction, PEA Objectives, Scope of Work, and PEA Report Format;
- **Section 2** presents the Site Description of the school site;
- **Section 3** discusses Background Information, including site history and previous assessments;
- **Section 4** defines the Apparent Problem;
- **Section 5** discusses the Environmental Setting of the site;
- **Section 6** presents the Sampling Activities and Results;
- **Section 7** discusses the HHSE;
- **Section 8** discusses the Ecological Screening Evaluation;
- **Section 9** contains information pertaining to Public Participation;
- **Section 10** presents the Summary, Conclusions, and Recommendations of the PEA;
- **Section 11** discusses Limitations to the PEA; and

- **Section 12** lists the Selected References cited in the PEA Report.
- The tables and figures following the report text provide visual aids and tabulated data to supplement the report discussion.
- Appendices include supporting documentation to the report.

2. SITE DESCRIPTION

The site is located at 4302 Valeta Street, and has been occupied by Correia Middle School since its construction in 1958 (Figure 1). The site property consists of the school buildings located on the northeastern portion of the property and athletic fields on the southwestern portion of the property. A baseball field with grass turf is located on the western side of the athletic field and surface composed of decomposed granite fill covers the eastern side.

The site is bounded by a YMCA and residences to the north; Cleator Community Park to the west; Famosa Boulevard followed by undeveloped land to the south and residences to the south-east; and Valeta Street followed by residences to the east (Figure 2).

For the purposes of the PEA, the site was divided into three distinct study areas. Study Area 1 consists mainly of the educational areas within the fenced boundaries of the site. Study Area 2 consists of the slopes located on the southern and eastern portions of the site adjacent to Famosa Boulevard and Valeta Street. The slope located on the western boundary of the site adjacent to Cleator Community Park is designated as Study Area 3, the majority of which is owned and administered by the City of San Diego (Figure 2).

2.1. Site Identification

This section provides a summary of the general information regarding the school site.

- For the purposes of this document, the site will be referred to as the "site," or "Correia Middle School."

- The designated contact for this project is Mr. Loren Chico, Civil Engineer for the SDUSD Facilities Management Program Management Unit, located at 4860 Ruffner Street, San Diego, California 92111-1522; Telephone number: (858) 573-5731; Fax number: (858) 496-1772.

- According to the County of San Diego, Assessor's Office, the Assessor's Parcel Number (APN) associated with the site is 449-110-03-00. The site boundaries are shown in Figure 2 of this report.

- Based on a review of the United States Geological Survey (USGS) 7.5-minute topographic series, Point Loma, California quadrangle map, the site is in the south half of the southwest quarter of Section 30, Township 16 South, Range 3 West of the San Bernardino Baseline and Meridian. The geographic coordinates of the center of the site are approximately 3623424 feet North and 478254 feet East (North American Datum of 1983 [NAD 83]).

- According to information obtained from the County of San Diego Regional Economic Development Information website, the existing and planned land use of the site is identified as "Junior High Schools and Middle Schools."

2.2. Site Maps and Photographs

Illustrations of the site and site vicinity are shown in Figures 1 and 2, which include a site location map and site vicinity map. Site photographs taken during the September 14, 2005 site walk and photographs of the field work completed for this PEA are presented in Appendix A.

3. BACKGROUND INFORMATION AND PREVIOUS ASSESSMENTS

The following sections discuss the background information for the site.

3.1. Site Status and Historical Site Information

The school is constructed on a mesa with cut and fill slopes. The east-northeast and west-southwest areas of the site, including the slopes were filled in with material cut from other portions of the site. According to a 1958 site plan prepared by Clyde Hufbauer Architects, miscellaneous dumped material was reported to be mixed with the fill soil used in the ath-

letic field areas during construction. The grading plan and historical aerial photographs are presented in Appendix B.

The City of San Diego Solid Waste Local Enforcement Agency (LEA) has indicated that several historic disposal sites were located in the vicinity of Correia Middle School and Cleator Community Park. These disposal sites included the Sunset Cliffs Burn Site, which has not yet been located by the LEA. It is believed that debris from the Sunset Cliffs Burn Site or another nearby disposal site was mixed in with fill soil during construction of the school site.

SDUSD proposed to install a new fire main across the athletic fields and through the suspected fill area to connect with the water main located in Famosa Boulevard. During a site walk conducted in February 2003 by Kleinfelder and the LEA, indicators of burn material (fused glass and ceramic shards) were observed along the slopes adjacent to Famosa Boulevard as well as the sloped area between the site's athletic fields and Cleator Community Park. Based on the visual observations during the site walk, the LEA issued a cease and desist order to SDUSD to restrict them from installing the fire main pipeline in the proposed configuration. SDUSD redesigned the pipeline route to connect to an alternate location in Valeta Street. Thus, the suspected fill area was not disturbed as a result of the pipeline project. In addition, the LEA required site assessments to evaluate the nature and extent of the landfill material, including surface sampling, drilling of borings to collect deeper samples, and the preparation of a Burn Ash Management Plan for the site. In a letter dated March 7, 2005, the LEA identified several environmental issues that required further clarification. Since June 2005, DTSC has been designated as the lead regulatory agency to address impacts from the burn material that may be present in fill material at the school site.

3.2. Site Vicinity Land Use

The site vicinity consists of residences and a community park. The adjacent properties to the north, east, and south, beyond the streets that surround the site, are occupied by single-family and multi-family residential structures. A public park is located adjacent to the west

of the site. The Famosa Slough, a 37-acre wetland between Ocean Beach and the San Diego Sports Arena, is located adjacent to the northeast of the site, beyond Famosa Boulevard.

3.3. Previous Assessments

3.3.1. "Phase I Environmental Site Assessment"

A *Draft Phase I Environmental Site Assessment, Correia Junior High School, 4302 Valeta Street, San Diego, California*, was prepared by Kleinfelder and dated March 7, 2002 (Kleinfelder, 2002a). The Phase I Environmental Site Assessment (ESA) report was prepared to determine if any recognized environmental conditions were associated with the site; however, the report was not finalized or reviewed by DTSC.

The draft Phase I ESA summarized the environmental history of the site, including a former incinerator and leaking underground storage tank (LUST) case. According to the report, the former incinerator was located on the west central portion of the site (Figure 2). Based on interviews conducted for the Phase I ESA, the incinerator was used to burn school trash consisting of paper products. The burned material was placed in a barrel that was transported and disposed of off-site by the local municipal waste management company. The former incinerator was constructed on asphalt concrete, and regulatory records reviewed did not indicate any hazards associated with its operation.

A former underground storage tank (UST) was located on the northwestern portion of the site (Figure 2). During file review conducted for the Phase I ESA, a Report of Underground Storage Tank Removal (Woodword-Clyde, 1988) was reviewed. The report documented the tank removal, and reported that during the excavation of the tank, soil was separated based on visual observations and organic vapor readings. The highest concentration of total recoverable petroleum hydrocarbons (TRPH) was 12,000 mg/kg, which was taken in the vicinity of the fill pipe. Contaminated soil was disposed of off-site, and the case was issued regulatory closure by the Department of Environmental Health (DEH).

The report mentions the imported fill material as indicated on a 1958 grading plan; however, no recommendations were made for assessment of the material. Upon review of the Environmental Data Resources (EDR) report included in the draft report, the report concluded that it was unlikely offsite sources had impacted the site based on distances from the site, direction of groundwater flow, and/or the nature of the releases.

3.3.2. "Summary Report of Eroded Slope Review"

The *Summary Report of Eroded Slope Review, Correia Junior High School, 4302 Valeta Street, San Diego, California*, was prepared by Kleinfelder and dated March 7, 2002 (Kleinfelder, 2002b). Three soil borings were drilled and two dynamic cone penetration soundings were performed to evaluate the subsurface conditions in the sloped areas and soil samples were collected for geotechnical laboratory testing. Fill soils reportedly ranged in the borings from approximately 12 feet to 39 feet blow ground surface (bgs). The borings indicate that the fill soil was built over alluvial deposits that overlie the Bay Point Formation. Based on the information obtained from the laboratory testing and the dynamic cone penetration soundings, the slope stability was assessed, and recommendations were offered for slope repairs, protective coverings, and retaining walls.

3.3.3. "Report of Preliminary Site Assessment of Surface Soils"

The *Report of Preliminary Site Assessment of Surface Soils, Correia Middle School, San Diego, California*, was prepared by Kleinfelder and dated March 10, 2003 (Kleinfelder, 2003a). The purpose of the assessment was to collect surface samples in areas where aged glass and ceramic shards were visually observed, and to visually assess whether elevated metal concentrations exist that would warrant an immediate removal action. Sixteen surface soil samples were collected on the sloped portion of the site in areas where glass and ceramic shards were observed, and analyzed for Title 22 Metals (Figure 3). In addition, four background samples were collected for comparison of metals concentrations.

Analytical results indicated that one sample exceeded the DTSC action level for lead of 255 milligrams per kilogram (mg/kg), and arsenic was reported in two samples exceeding the maximum arsenic concentration reported for the background soil samples. The analytical results from this assessment are summarized in Table 1 and Figure 3. Kleinfelder recommended further subsurface assessment, as well as a human health risk assessment.

3.3.4. "Cleator Community Park, Soil Sampling and Analysis Summary"

The City of San Diego conducted surface sampling at Cleator Community Park, located adjacent to Correia Middle School, and on the slopes west and south of the site based on information from the LEA indicating the presence of burn ash. The City of San Diego's objectives were to asses the surface soils due to the presence of sensitive receptors at the park. The results of the sampling are summarized in "Cleator Community Park, Soil Sampling and Analysis Summary," (City of San Diego, 2003). A total of 27 samples were collected from the slopes where burn ash and debris had been observed. The analytical results indicated that lead concentrations did not exceed 144 mg/kg and arsenic concentrations did not exceed 2.18 mg/kg in the samples analyzed. The analytical results from this assessment are summarized in Table 2 and Figure 4.

3.3.5. "Site Assessment Report"

The *Site Assessment Report, Correia Middle School, 4302 Valeta Street, San Diego, California*, was prepared by Kleinfelder and dated July 11, 2003 (Kleinfelder, 2003b). The objective of the assessment was to investigate the contamination in the fill soil at the site. Nine soil borings were drilled at the site in areas of the athletic field where fill soil is known to have been placed during the original construction of the school campus. According to the analytical results, Title 22 Metals were detected above the detection limits in soil samples collected with the exception of selenium. Lead concentrations exceeding DTSC's action level of 255 mg/kg ranged from 423 to 69,100 mg/kg in samples that were noted to contain burn ash material. Lead concentrations above the action level are present in the southwest and southeast portion of the site. Arsenic concentrations

ranged from 2.99 to 14.1 mg/kg; however, according to Kleinfelder, the arsenic concentrations did not exceed background levels for the area. Polynuclear aromatic hydrocarbons (PAHs) were not detected in any of the soil samples analyzed. Six samples analyzed for dioxins and furans contained concentrations above the reporting limit. Dioxins and furans are often formed as byproducts of combustion; therefore, the presence of these contaminants supports the interpretation that burned refuse are present on the site. The analytical results from this assessment are summarized in Tables 3 and 4, and shown on Figures 5 and 6.

The report indicated that burn ash and fill materials appear to be restricted to the southeast and southwest corners of the site. Burned waste, including burn ash, glass, and ceramic shards, as encountered in the Kleinfelder borings, were not associated with a particular area of fill or a distinct layer of fill, but were encountered in visually identifiable burn material or debris distributed in the fill portions of the site.

3.3.6. "Burn Ash Management Plan"

The Burn Ash Management Plan, dated July 19, 2004, was prepared by Kleinfelder (Kleinfelder, 2004) as requested by the LEA in anticipation of the rehabilitation of the site's sloped areas and the construction of a retaining wall along Famosa Boulevard and a portion of Valeta Street to facilitate erosion control. The LEA requires final cover, site security, and drainage and erosion control be implemented to minimize the exposure of the exposed solid waste to the public and discharge of eroded slope material in the storm water runoff.

The management plan describes the final cover design and installation to limit the public's exposure to the exposed burn ash. It proposed to construct a retaining wall at the base of the slopes along Famosa Boulevard and a portion of Valeta Street to provide slope stability and to minimize surface water runoff and erosion. The plan indicates that the slopes will be regraded and covered with imported fill soil, as necessary. In addition, it suggests that soil samples be collected when irrigation trenches are advanced; if levels

of lead are above the DTSC's target level, the soil will be excavated and disposed appropriately. Kleinfelder prepared a Community Health and Safety Plan to limit exposure of contaminants to workers and the community. The proposed final cover is described as a 2-foot thick layer of clean imported fill that will be placed over existing fill slopes. The plan indicates that vegetative cover will be placed over the clean fill to promote slope stability and erosion control. The management plan also describes a post-closure maintenance plan, which includes site security and on-site inspection and maintenance.

The Burn Ash Management Plan was reviewed by the LEA, and comments were issued in a letter dated March 7, 2005. However, DTSC has assumed the lead-agency role and is requesting further characterization of the site; therefore, the plan has not yet been implemented. The Burn Ash Management Plan (addressing the LEA comments) will be included as an appendix to the final remedial document requested by the DTSC, which will also be submitted to the LEA for review and approval prior to implementation.

3.3.7. DTSC Sampling

A surficial (i.e. 0.5-foot) elevated lead concentration (2,950 mg/kg) was documented in the Report of Preliminary Assessment (Kleinfelder, 2003a). DTSC subsequently conducted eight step-out samples in March 2005 to determine whether the area in the vicinity of this sample posed an immediate risk to public health and safety. Laboratory analyses indicated that the concentrations of lead in the step-out samples were below the DTSC action level of 255 mg/kg. Based on this information, DTSC determined that the area did not require immediate attention, and did not pose a threat to human health. The results are summarized in Table 5 and Figure 7.

3.3.8. LEA and DTSC Correspondence

Since 2003, the City of San Diego Solid Waste LEA has required additional site assessment to evaluate the nature and extent of the burn ash material, including the preparation of a Burn Ash Management Plan for the site. In a letter dated March 7,

2005, the LEA identified several environmental issues that required further clarification. A copy of the letter is included in Appendix C.

Since April 2005, following their step-out sampling and evaluation, DTSC has been designated as the lead regulatory agency to address the impacts from burn ash material present at the school site. However, based on a letter from the City of San Diego, dated April 29, 2005, the LEA will retain lead oversight responsibility for those portions of the burn ash at the site on City property (i.e., Cleator Community Park slope). A copy of the letter is included in Appendix C. The letter emphasizes the importance of communication between the various agencies to coordinate compliance objectives. As such, a site visit and meeting were held on September 14, 2005 between DTSC, LEA, SDUSD, and Ninyo & Moore to discuss the objectives for the site. Following the presentation and discussion of previous site assessment data by Ninyo & Moore, DTSC determined that a PEA would be necessary to further characterize the site.

4. APPARENT PROBLEM

Based on historical information and data collected from previous investigations, it appears that fill material at the site was mixed with burn material during site construction. These secondary burn deposits mixed in with the fill are characterized by elevated, and sometimes hazardous, concentrations of metals, particularly lead, dioxins/furans, and PAHs. Based on the presence of these materials and the contaminants associated with the materials, there is a potential health risks to receptors.

4.1. Chemicals of Concern

The COPCs at the site include metals, particularly lead, PAHs, and dioxins/furans, which are characteristic of waste found at burn sites/deposits. Other sources of contamination were not identified, and therefore, additional COPCs are not likely to be present at the site.

4.2. Conceptual Site Model

A Conceptual Site Model (CSM) was prepared to assess potential source and release mechanisms that could create pathways of exposure to sensitive receptors (human and biota) at the site. The CSM is attached to this PEA report as Figure 8 and is discussed in Section 7.

5. ENVIRONMENTAL SETTING

The following sections discuss the environmental setting of the site, including factors related to soil, water, and air pathways for exposures to the COPCs.

5.1. Factors Related to Soil Pathways

The following sections describe the factors related to soil pathways at the site.

5.1.1. Site Accessibility

Access to exposed soil on the slopes is currently limited by temporary safety fencing, installed as an interim erosion control measure. The athletic fields are currently utilized by employees and students at the site.

5.1.2. Ground Surface

The presence of ground surface cover can reduce the exposure of residents and students to the COPCs. Currently, the northern portions of the site are covered by buildings, concrete, and asphalt pavement, which eliminate pathways of exposure to site COPCs.

The athletic fields, turf, and decomposed granite surfaces have exposed soil in both the cut and fill areas. The fill areas represent potentially complete exposure pathways. The cut areas are less likely to be contaminated, and therefore, are unlikely to represent complete exposure pathways; however, a small potential exists. The slopes are currently exposed; however, interim erosion control measures have been implemented to minimize erosion and exposure to the slopes.

5.1.3. Site Topography

Based on a review of the USGS, Point Loma quadrangle map, the site is situated at an elevation of approximately 60 feet above mean sea level (MSL). Drainage on the northern and eastern portions of the site is toward the north-northeast, and drainage on the southern and western portion of the site is toward the south-southwest.

5.1.4. Site Geology and Soil Type

The following section summarizes the geology underlying the site.

5.1.4.1. Fill

Based on the PEA activities, sediments encountered during drilling activities consisted of coarse- to fine-grained sand, silty sand and sandy silt. Soil samples collected at the site indicated depth of fill materials ranging from 5 and 45 feet below ground surface (bgs). The fill materials appeared to be disturbed Bay Point Formation with pockets where mixed with debris, glass, and evidence of burn ash material was generally encountered in the deeper fill materials (equal to or greater than 5.0 feet bgs).

5.1.4.2. Baypoint Formation

Materials of the late Pleistocene Quaternary-age Bay Point Formation have been mapped underlying the site (Kennedy and Peterson 1975). Deposits of the Bay Point Formation are described generally as poorly consolidated, fine-to medium-grained, pale brown fossiliferous sandstone.

5.2. Factors Related to Water Pathways

The following sections describe the factors related to water pathways at the site.

5.2.1. Site Hydrogeologic Setting

Based on our limited site reconnaissance and review of the USGS, Point Loma quadrangle map, named natural surface water bodies, such as streams, rivers, ponds, and lakes, are not situated on the site. The Famosa Slough, a wetland, is situated adjacent to the northeast of the site.

The nearest watercourses are the Famosa Slough and San Diego River, approximately 0.25 miles to the northeast of the site. Based on a review of available hydrogeologic documents from the California Regional Water Quality Control Board (RWQCB), San Diego Region, and the California Department of Water Resources, the site is located in the Point Loma Hydrologic Area (HA), within the Pueblo San Diego Hydrologic Unit of the San Diego Basin. There are currently no existing beneficial uses of groundwater identified by the RWQCB in the Point Loma HA. In addition, groundwater in the area has been excepted from municipal supply.

5.2.2. Climate

The climate within the San Diego Coastal Plain may be generally categorized as Mediterranean, with warm, dry summers and mild winters. Most of the rainfall within San Diego County falls primarily from November through March. Average rainfall for San Diego is approximately 10 inches, according to the National Weather Service.

5.3. Surface Water and Groundwater Pathways

The following sections discuss the surface water and groundwater pathways at the site.

5.3.1. Surface Water

There is no documentation of historical hazardous substance releases to surface waters from the site. No bodies of surface water are currently present at or adjacent to the site, and therefore, surface water sampling was not conducted as part of this PEA. Surface drainage from the site's building area appears to flow west towards Cleator Community Park and south into storm drains along the northern perimeter of the athletic fields. Sur-

face drainage from the athletic fields generally flows toward the south and east into storm drain inlets in the athletic field and east parking lot. Surface water runoff resulting from precipitation that has not infiltrated into the site will flow into the street and into the storm drain system. The storm drain system will carry the runoff to buffer ponds adjacent to the Famosa Slough, the nearest surface water body, approximately 0.25 miles to the northeast. It is unlikely that drainage potentially affected by possible contamination at the site would reach these surface water bodies in sufficient quantities to affect them due to storm water infrastructure and due to dilution with other surface water runoff.

5.3.2. Groundwater

During the PEA activities, groundwater was encountered at approximately 48 feet bgs at the top of the slope at the northeast corner of the athletic field, and at 14 feet bgs at the bottom of the slope along Famosa Boulevard. However, groundwater levels can fluctuate due to seasonal variations, groundwater withdrawal or injection, and other factors. Based on the local and regional topography, groundwater in the site vicinity is anticipated to flow toward either the north-northeast or west-southwest.

The site COPCs are located in the fill portions of the site well above groundwater and therefore, the pathway to impact groundwater is incomplete. In addition, the site COPCs are not readily soluble, making it less likely to be transported in the dissolved phase. Based on these factors, impacts to groundwater and groundwater as a potential pathway were eliminated from further consideration.

5.4. Factors Related to Air Pathways

According to the Phase I ESA, there is no documentation of historical hazardous substance releases to the atmosphere and of known toxic air emission sources at the site. Information provided by the San Diego Air Pollution Control District for the Phase I ESA indicates that facilities with the potential to emit air contaminants are not located within approximately one-quarter mile of the site. Based on this information, air pathways, with the exception of

inhalation of dust, was eliminated from further consideration as a potential exposure pathway.

6. SAMPLING ACTIVITIES AND RESULTS

The following sections describe the rationale for sampling activities, strategy, methodology and handling, decontamination procedures, management of investigation-derived waste (IDW), analytical program, and sample results. The results from this assessment were used in the HHSE to evaluate the potential health risk to receptors at the school site (Section 7).

6.1. Background

Previous environmental assessments have been conducted on the site as described in Section 3.3. The sampling program for this PEA supplemented the previous sampling activities by collecting a representative number of soil samples to evaluate the health risk from surface soil in Study Area 1, and to characterize the fill slopes in Study Area 2. Since a majority of Study Area 3 is owned and administered by the City of San Diego, this area was not assessed as part of the PEA activities.

6.2. Summary of Activities

The following presents a discussion of the activities performed and sampling procedures.

6.2.1. Health & Safety Plan

In accordance with Ninyo & Moore's Standard Operating Procedures (SOPs) and Occupational Safety and Health Administration (OSHA) requirements, a project-specific Health and Safety plan (HSP) was prepared. The HSP outlined the on-site organization and responsibilities of field personnel and presented a discussion of the hazards associated with soil contaminated with metals, PAHs, and dioxins/furans. The HSP was kept at the site during all field activities. Field personnel reviewed and signed copies of the employee acknowledgment and field health and safety meeting forms, which are included in the HSP.

Since the field sampling activities utilized hand tools and a drill rig to collect soil samples, significant amounts of dust were not generated. For this reason, no air monitoring instruments were utilized during the collection of soil samples.

6.2.2. Boring Permit

A permit for the drilling of nine borings at the site was obtained from the DEH for the borings expected to extend past 20 feet bgs. A copy of the approved boring permit is included in Appendix D. Ninyo & Moore notified the DEH two days prior to conducting subsurface site assessment activities. In addition, a 60-Day Report was prepared for the borings that exceeded 20 feet bgs and/or encountered groundwater during drilling, and submitted to the DEH on February 24, 2006.

6.2.3. Traffic Control Permit

Ninyo & Moore obtained an approved traffic control permit with the City of San Diego, dated December 9, 2005, for sidewalk and parking lane closures Valeta Street and Famosa Boulevard. A copy of the approved traffic control permit is included in Appendix D.

6.2.4. Boring Clearance

Underground Service Alert (USA), a public utility locating service, was notified 48 hours prior to fieldwork. USA notifies utility companies that own/operate subsurface lines in the vicinity of the excavation locations. The utility companies did not indicate a potential conflict with the proposed sampling locations.

6.2.5. Geophysical Survey

On December 16, 2005, Southwest Geophysics, Inc. investigated each proposed exploratory boring location at the site to evaluate and mark potential buried utilities or other subsurface anomalies. A combination of electromagnetic induction, magnetometry, and ground penetrating radar was utilized. Some borings were relocated based on the presence of utilities or anomalies detected.

6.2.6. Sample Identification

All soil sample identification began with 'NM' to designate the samples as those collected by Ninyo & Moore, to prevent confusion with the samples collected by others. Surface soil samples were assigned with the identifier 'S' followed by a sequential number to uniquely identify the sample followed by the depth (e.g., NM-S1-0.5). Soil samples collected from the borings were assigned with the identifier 'B' followed by a sequential number to uniquely identify the sample followed by the depth of the sample (e.g., NM-B10-1.0). Hand auger samples were assigned with the identifier 'HA' followed by a sequential number to uniquely identify the sample followed by the depth of the sample (e.g., NM-HA1-0.5).

Field duplicate split samples submitted to the laboratory were assigned a number that consisted of "DUP," followed by a sequential number to uniquely identify the sample (e.g., DUP-01). Equipment blank samples were assigned a number that consisted of "EB," followed by a sequential number to uniquely identify the sample (e.g., EB-01).

6.2.7. Sample Locations

This section describes the sampling and analysis strategy for the study areas at the site.

6.2.7.1. Study Area 1

The fill area located on the eastern portion of Study Area 1 was divided into 100-by 100-foot grids, and samples were collected from the center of each grid, or partial grid, at 0.5-foot bgs. To assess the fill area located on the western portion of Study Area 1, a surface sample (i.e., 0.5-foot bgs) was collected every 100 linear feet. In addition, borings were drilled in both the eastern and western fill areas to supplement the previous data and further characterize the fill. Four deeper (e.g., 10-19 feet bgs) borings (NM-B11, NM-B12, NM-B13, and NM-B15) were drilled in the eastern portion of Study Area 1, and two deeper (e.g., 15-17 feet bgs) borings (NM-B16 and NM-B19) were drilled in the western portion of Study Area 1 (Figure 9).

To further assess the cut/fill boundaries estimated from the grading plans, borings were advanced on either side of the estimated boundaries to determine whether the material was cut or fill. Specifically, four borings (NM-B10, NM-B11, NM-B14, and NM-B15) were advanced along the cut/fill boundary on the eastern portion of the study area, and four borings (NM-B16, NM-B17, NM-B18, and NM-B19) were advanced along the cut/fill boundary on the western portion of the study area. Additionally, one boring (NM-B29) was advanced to 5.0 feet bgs in the vicinity of the school buildings to confirm this is a cut area (Figure 9).

The northern portion of Study Area 1, consisting primarily of the school buildings, has been excluded from the assessment due to the fact that it is a cut area and covered with buildings and/or pavement such that there are no complete exposure pathways. The playing fields located in the cut area on the southern portion of Study Area 1 were assessed to determine whether the surface soil in this area contains COPCs. The area was divided into 150-by-150-foot grids, and samples were collected from the center of each grid, or partial grid, at 0.5-foot bgs (Figure 9). A wider spacing of sample locations was selected since the area is in cut and COPCs were considered unlikely to be present.

6.2.7.2. Study Area 2

Fourteen borings were advanced to a maximum of 50 feet bgs in Study Area 2 to assess COPCs and depth of fill along the slope (Figure 10). Four borings (NM-B20, NM-B22, NM-B25, and NM-B27) were advanced at the top of the slope to depths ranging from 10 to 50 feet bgs. Five borings (NM-B21, NM-B23, NM-B24, NM-B26, and NM-B28) were advanced at the bottom of the slope to depths ranging from 10 to 18 feet bgs. The borings were advanced until visual observation of the samples indicated formational or native material.

Due to access issues for a drill rig, a hand auger was utilized to advance five borings within the sloped areas along Famosa Boulevard and Valeta Street (Figure 10). The hand auger borings ranged in depth from 0.5 to 1.5 feet bgs.

6.2.8. Sample Collection Procedures

This section describes the sample collection and decontamination procedures used during field sampling activities.

6.2.8.1. Study Area 1

The surface samples in Study Area 1 were collected using either a trowel or a hand auger to the target depth (e.g., 0.5 foot). Borings to assess the cut/fill boundaries were collected at the surface (e.g., 0.5 foot) and at 5.0 foot intervals in each boring location within Study Area 1 (except B11 which was continuous core), unless visual observations indicated the presence of burn ash material, in which case, samples were collected at the depth of the material. Boring logs are presented in Appendix E.

Soil samples were collected by placing the materials into glass jars with Teflon-lines lids. The samples were placed on ice in a cooler at a temperature of 4 degrees Celsius (°C). After collection, the samples were transported to Calscience Environmental Laboratories (Calscience) for chemical analyses under standard chain-of-custody procedures.

6.2.8.2. Study Area 2

Continuous sample cores were collected from the borings advanced with a drill rig at the top and bottom of the slope within Study Area 2 with either a continuous core sampler or SPT sampler. The borings were advanced until the samples were indicative of formational material, which ranged from 10 to 45 feet bgs. Soil samples were collected at 5.0 foot intervals unless visual observations indicated the presence of burn ash material, in which case, samples were collected at the depth of the material. Boring logs are presented in Appendix E.

Hand auger samples were collected from the middle of the slopes within Study Area 2 to a maximum depth of 1.5 feet. Samples were collected at the surface (e.g., 0.5 foot) and the maximum depth of the hand auger boring.

Soil samples were collected by placing materials from the continuous core sampler or hand auger borings into glass jars with Teflon-lined lids. The samples were placed on ice in a cooler at a temperature of 4°C. After collection, the samples were transported to Calscience for chemical analyses under standard chain-of-custody procedures.

6.2.8.3. Decontamination Procedures

Drilling and sampling equipment were decontaminated using a high temperature, high pressure wash system, and/or a three-step wash and rinse that utilized phosphate-free detergent and potable water solution followed by potable and distilled water rinses.

6.2.8.4. Collection of Field Equipment Blank Samples

A field blank, consisting of distilled water poured over the sampling equipment (e.g., continuous core sampler), was collected for each day of field sampling. The field blank was collected to document the condition of sampling equipment. The samples were immediately dispensed into appropriate laboratory-supplied containers, labeled with pertinent information, and placed in a cooler for transport by courier to Calscience.

6.2.9. Investigation Derived Waste Disposal

Soil cuttings and decontamination fluids generated from field activities were placed into twenty-four properly labeled 55-gallon drums, and stored in a pre-selected, on-site location pending disposal at a permitted facility. One composite soil sample and one composite water sample were collected from the drums, and submitted to Calscience for lead analysis by the soluble threshold leaching concentration test in accordance with

Environmental Protection Agency (EPA) method 6010B and PAH analysis by EPA method 8310. Based on the analytical results, the solid waste was classified as California-hazardous, and the decontamination fluids drum was classified as non-hazardous waste. The drums were disposed of by Ocean Blue Environmental at Crosby and Overton of Long Beach, California, waste manifests are included as Appendix F. Gloves and miscellaneous trash remaining from the site sampling activities were stored in plastic bags and disposed of as municipal waste.

6.3. Variances from the Field Sampling Plan

The PEA was performed in general accordance with the PEA Work Plan. Notable variances are listed below.

- Due to the density of the material, some of the samples collected from the drill rig were Standard Penetration Test samples due to lack of recovery with the continuous core sampler. A DTSC representative was on site during the field activities and approved of the alternate method.

- Borings NM-B10 and NM-B11 were relocated due to inaccessibility of the drill rig in the proposed locations. The new locations are depicted on Figure 9.

- Boring NM-B19, which was assumed to be in a cut area based on grading plans, had indications of fill material to 14 feet bgs. Therefore, NM-B18 was relocated to the east of NM-B19 (Figure 9) in attempt to define the cut/fill boundary in the western portion of Study Area 1. NM-B18 showed fill material to 5.0 feet bgs; however, due to time constraints, an additional boring was not drilled east of NM-B18 to determine the extent of the fill in this area (Figure 9).

- Boring NM-B14, which was assumed to be in a cut area based on grading plans, indicated fill material to 19 feet bgs. However, due to time constraints, an additional boring was not drilled west of NM-B14 to determine the extent of the fill in this area (Figure 9).

6.4. Analytical Program and Results

The following sections describe the analytical program and results.

6.4.1. Analytical Program

The analytical testing was performed in general accordance with the PEA Work Plan. One hundred thirty-eight samples, including duplicates and field blanks, were collected from the 20 boring locations, 5 hand auger locations, and 27 surface sample locations (Figures 9 and 10). All of the samples were analyzed for lead and arsenic by EPA method 6010B.

If lead concentrations exceeded the DTSC action level of 255 mg/kg or the samples indicated the presence of burn ash based on visual observations, the samples were also analyzed for Title 22 Metals by EPA method 6010B/7471A and polynuclear aromatic hydrocarbons by EPA method 8310. In addition, three samples with indicators of burn ash as described above or containing the highest lead concentrations were analyzed for dioxins/furans in accordance with EPA method 8290.

6.4.2. Analytical Results

The following section presents a summary of the soil analytical results.

6.4.2.1. Metals

Lead was detected in one soil sample at a concentration above the DTSC's action level of 255 milligrams per kilogram (mg/kg) in one boring in Study Area 1. Sample NM-B19-4.5 contained a concentration of 1,010 mg/kg. The remaining borings and the surface samples collected from Study Area 1 did not contain lead concentrations above the action level. The highest arsenic concentration in Study Area 1 was 17.9 mg/kg, which coincided with the high lead concentrations in NM-B19. With the exception of this sample, arsenic concentrations ranged from 1.89 to 15.6 mg/kg.

Lead was detected in soil samples at concentrations above DTSC's action level of 255 mg/kg in four borings (NM-B20, NM-B22, NM-B24, and NM-B25) in Study Area 2, ranging from 311 to 11,700 mg/kg at depths ranging from 4.5 to 17.5 feet

bgs. The remaining samples collected from Study Area 2 did not indicate lead concentrations above the action level. The highest arsenic concentration in Study Area 2 was 17.3 mg/kg, which coincided with the highest lead concentration in NM-B22-11.5. With the exception of this sample, arsenic concentrations ranged from 1.12 to 12.5 mg/kg. A summary of metals sample results is presented in Table 6 and on Figures 11 through 13. Copies of laboratory reports are presented in Appendix G.

Since a majority of the site fill is comprised of the native formational material, arsenic concentrations of samples obtained from the Bay Point Formation were compiled to evaluate the mean, maximum, and 95 percent upper confidence limit of the mean (UCL) as representing "background" concentrations of arsenic (Table 7). The arsenic concentrations in these samples ranged from 1.12 to 6.52 mg/kg. The mean concentration was calculated as 4.0 mg/kg and the 95% UCL was calculated as 4.67 mg/kg.

A majority of the concentrations of arsenic in the surface soil in Study Area 1 (14 out of 27 samples with concentrations less than 9 mg/kg) are consistent with the background concentrations of arsenic at the site. The outliers ranging from 9.24 to 12.6 mg/kg may represent ambient conditions of the imported surface material. This conclusion is supported by the observation that these samples do not contain burn materials, have low lead concentrations (below 50 mg/kg), and some of these samples are located in the cut areas of the site.

6.4.2.2. Polynuclear Aromatic Hydrocarbons and Dioxins/Furans

Only samples exceeding the DTSC-action level of 255 mg/kg were submitted for PAH and dioxins/furans analysis. Since none of the surface samples indicated burn material or had lead concentrations exceeding 255 mg/kg, they were not analyzed for PAHs or dioxins/furans.

Concentrations of PAHs were detected in the nine samples submitted for analysis and dioxins and furans were detected in the three samples submitted for analysis. A summary of the PAH results is presented in Table 8 and on Figure 14 and the dioxins/furans results expressed as total equivalent concentrations of 2,3,7,8-tetrachlorodibenzodioxin (TCDD) are presented in Table 9 and on Figure 15. Copies of the laboratory reports are presented in Appendix G.

6.4.3. Discussion of Analytical Results

The results were consistent with field observations of samples collected from the surface soils, and borings, which indicated the following:

- Impacts to the site were the results of burn material from off-site sources mixed with fill during site construction in the late 1950s.
- The primary COPCs are characteristic of burn material and include metals (primarily lead), PAHs, and dioxins/furans.
- The burn material mixed in with fill with COPC impacts were generally observed in deeper portions of the fill (equal to or greater than 5.0 feet bgs).
- Surface samples in Study Area 1 were below DTSC's action level and generally consistent with the naturally occurring concentrations of arsenic at the site.
- Concentrations of arsenic in surface samples are either consistent with background concentrations of the site formational materials (which is the source of a majority of the site fill) or represent ambient concentrations associated with surface fill material obtained from other sources. These surface arsenic concentrations range up to 12.xx mg/kg.
- Investigation of Study Area 2 indicated fill characteristics similar to Study Area 1 with burn materials mixed in with fill occurring at depths of 5 feet or greater.

Summaries of analytical results are provided in Tables 6 through 9 and laboratory reports are presented in Appendix G.

6.5. Quality Assurance and Quality Control Measures

An integral part of the sampling and analysis plan is the QA/QC program to ensure the reliability and compatibility of data generated during the PEA activities. During the PEA investigation, a variety of data was collected. Field QC data consisted of equipment blanks and field duplicates.

6.5.1. Evaluation of Field QC Data

Five field-split duplicate samples and six equipment blank samples were collected and analyzed for metals and PAHs by a fixed-based laboratory for QA/QC purposes during the PEA. Total lead and arsenic concentrations for primary samples and their duplicates were below the 100 percent relative difference that is typically specified for soil samples analyzed for metals. Trip blanks were not collected because volatile organic compounds are not of concern at the site.

Samples EB-01 through EB-06 were identified as equipment blanks. Concentrations of analytes were detected in the equipment blanks; however, due to the low concentrations detected, it is unlikely that sample equipment significantly affected the sample concentrations (Table 10).

6.5.2. Laboratory Data Validation

Laboratory Data Consultants (LDC), a subcontractor specializing in the evaluation and validation of laboratory data, was contracted to perform a review of the Calscience data using EPA Level III protocols. Laboratory parameters reviewed by LDC included data completeness, percent surrogate recovery, holding times, matrix spike/matrix spike duplicates, laboratory control standards, and method blank results.

Data validation for metals, which was analyzed by EPA test method 6010B, was prepared for samples submitted to the laboratory. All of the soil samples associated with SDG 05-12-1347 (lead) and SDG 05-12-1443 (lead) were assigned 'UJ' or 'J' qualifiers due to matrix spike/matrix spike duplicate (MS/MSD) recoveries that were above the QC limits. Since the laboratory control sample and laboratory control sample du-

plicate (LCS/LCSD) were within the allowable recovery range, the laboratory preparation and analysis were in control, no further action was warranted. Based on the relatively small margin by which the MS/MSD were out of control, the data are considered useable.

Equipment blank samples EB1-02 (silver and vanadium), EB1-04 (arsenic), EB1-05 (silver, thallium, vanadium), EB1-06 (arsenic, silver, thallium, vanadium) were assigned 'U' qualifiers due to contaminant concentrations in the initial, continuing, preparation, and equipment blanks. In addition, soil samples NM-B23 (15.0), NM-B17 (1.5-2.0), DUP-05, and NM-B24 (4.5-5.5) for lead were assigned 'U' qualifiers due to contaminant concentrations in the initial, continuing, preparation, and equipment blanks. Since the laboratory control sample and laboratory control sample duplicate LCS/LCSD and MS/MSD were within the allowable recovery range, the laboratory preparation and analysis were in control, no further action was warranted and the data are considered usable. Copies of the data validation packages are included in Appendix H.

Data validation for PAHs, which were analyzed by EPA test method 8310, respectively, was prepared for samples submitted to the laboratory. Two soil samples (NM-B22-6.0 and NM-B22-11.5) associated with SDG 05-12-1443 were assigned 'UJ' or 'J' qualifiers due to either continuing calibration percent difference or MS/MSD recoveries that were below the QC limits. Since the laboratory control sample and LCS/LCSD were within the allowable recovery range, the laboratory preparation and analysis were in control, no further action was warranted, and based on the relatively small margin by which the MS/MSD were out of control, the data are considered useable. Copies of the data validation packages are included in Appendix H.

Data validation for dioxins/furans, which were analyzed by EPA test method 8290, was prepared for samples submitted to the laboratory. Samples NM-B19(4.5-5.0) and NM-B22-11.5 associated with SDG 05-12-1348 and SDG 05-12-1343, respectively, were assigned 'UJ' and 'J' qualifiers due to exceeding technical holding times. Based on the

relatively small amount of time by which the technical holding times were exceeded, the data are considered usable. Copies of the data validation packages are included in Appendix H.

7. HUMAN HEALTH SCREENING EVALUATION

This section evaluates the COPCs at the site from previous and current investigations, reviews the CSM described in Section 4.2 for potentially complete exposure pathways, and evaluates the risk to site receptors from COPCs for the potentially complete exposure pathways. Even if the exposure pathways are evaluated to be incomplete at the site, consistent with DTSC's guidance on HHSE, this evaluation consists of five major steps described below.

Exposure Pathways and Media of Exposure:

This step includes reviewing the CSM to evaluate the exposure pathways, the media of exposure, and the receptor populations. The CSM describes the sources of contamination, the release mechanism, the transport mechanism, the transport media, the exposure point, the routes of exposure, and the receptor population for the possible pathways of contaminant exposure. The model discriminates potentially complete pathways from incomplete pathways for the various routes of exposure.

Exposure Concentrations and Chemicals:

This step describes the chemical groups identified through the previous site investigations, evaluates the physical and chemical characteristics of the individual compounds used in the exposure assessment, and provides the rationale for including or excluding chemical groups or individual compounds from the HHSE process.

Toxicity Values:

This step compiles the relevant and significant human toxicity of the selected individual compounds from various sources.

Risk Characterization Summary:

This step integrates the results of the exposure assessment and the toxicity assessment to quantify the risk and hazard from the chemical groups or compounds screened in the previous steps for potentially complete exposure pathways. The risk and hazard is summed for all chemical groups or compounds for the corresponding exposure pathway.

Uncertainty Analysis:

This step summarizes the basic assumptions and uncertainties of the HHSE.

7.1. Exposure Pathways and Media of Concern

As discussed in the preceding sections, the site is developed as a middle school and is comprised of landscape (including playgrounds, athletic fields, and vegetated and bare slopes), hardscape (concrete and asphalt pavements, sidewalk), and buildings. The receptor population includes school children, faculty, and staff. However, based on DTSC guidance, the land use of the site was assumed to be residential regardless of the actual proposed use and zoning and the receptor population was assumed to be a child and adult in a residential setting.

A complete exposure pathway for COPCs on a site requires four elements: chemical sources, migration routes (i.e., environmental transport), an exposure point for contact (i.e., soil, air or water; or collectively, "media"), and human exposure routes (i.e. oral, dermal, inhalation). A pathway is not considered to be complete unless all four elements are present. The CSM (Figure 8) shows the relationship between the contaminant sources, exposure pathways, and potential receptors for the site. The source-pathway-receptor relationships provide the basis for the quantitative exposure assessment. Only those complete source-pathway-receptor relationships were included in the toxicity assessment and risk characterization steps.

Based on the discussion of soil, air, and groundwater pathways in Section 5, the potentially complete exposure pathways for this HHSE were evaluated as:

- inhalation of airborne dust from contaminated surface soil,
- incidental ingestion of COPCs in surface soil, and
- dermal absorption of COPCs from direct contact with surface soil.

For the inhalation of airborne dust pathway, erosion of contaminated surface soil particles is the release mechanism, wind dispersion of the airborne particles is the transport mechanism,

and the ambient air at the site is the exposure media. The exposure point is indoor or outdoor air, where the receptor can potentially inhale the contaminated particles.

For incidental ingestion or dermal absorption of contaminated soil, direct contact is the release and transport mechanism, and the exposure point is the location where the receptor is exposed to the contaminated soil.

7.2. Chemical Groups and Exposure Concentrations

The source of contamination has been evaluated as burn material from off-site sources, mixed in with fill material (generally originating from formational materials at the site) to construct the filled portions of the site. The burn material was observed at depths of approximately 5 feet, or deeper, in the fill portions of the site. The burn materials, as observed in the borings, were consistently identified as dark brown to black in color, in a soil matrix with fused glass, wires, and miscellaneous debris. Photographs of the material are shown in Appendix A and the borings logs in Appendix F.

The COPCs related to the burn material were generally consistent where burn materials were encountered and consist of elevated metals, specifically lead, PAHs, and dioxins/furans. The metals exceeding background and/or ambient conditions attributable to the burn material include antimony, arsenic, barium, beryllium, cadmium, copper, mercury, molybdenum, nickel, silver, and zinc. The carcinogenic PAHs (c-PAHs) in the benzo(a)pyrene family detected in the burn material consist of benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, indeno(1,2,3-c,d)pyrene, and chrysene. Other PAHs detected were naphthalene, fluoranthene, phenanthrene, anthracene, and pyrene. The highest dioxins/furans concentration in sample B-7 at 5 feet bgs (Kleinfelder 2003), was calculated as 5.99 x 10-5 mg/kg TEC of 2,3,7,8-TCDD.

It is important to note that the burn materials, evidenced by both visual observations and lead concentrations, were not observed in the upper 12 inches of soil, with the exception of surface sample S16 at 0.5 feet in the southwest corner of the athletic field collected and analyzed by Kleinfelder in March 2003. This location was further sampled and analyzed by

DTSC in April 2005, which indicated that the elevated lead was confined to the location sampled. In addition, burn materials were not observed in the upper 4 to 5 feet of soil, with the exception of a sample collected at 2.5 feet bgs in boring B-8 by Kleinfelder in May 2003. This area was additionally characterized by DTSC in April 2005 and Ninyo & Moore in December 2005, the results of which indicated that the elevated lead concentration was confined to the area sampled by Kleinfelder. Based on the evidence from the various investigations and the grid surface sampling by Ninyo & Moore in December 2005, it is concluded that COPC impacts from burn materials are not present in the surface soils; therefore, the potential exposure pathways for soil ingestion, dermal contact, and dust inhalation from site COPCs are incomplete.

The arsenic concentrations in samples obtained from the site formational materials ranged from 1.12 to 6.52 mg/kg. The mean concentration was calculated as 4.0 mg/kg, the 95% UCL was calculated as 4.67 mg/kg, and the maximum concentration is 6.52 mg/kg. A majority of the surface samples (55 out of 62) collected from the top 12 inches in Study Areas 1 and 2, indicate arsenic concentrations consistent with these background concentrations (i.e., within 10 mg/kg). In 7 of the 62 samples, the concentrations exceeded 10 mg/kg, up to 16.3 mg/kg. These impacts are not attributable to burn material from visual observations and the low lead concentrations (lead was 12.1 mg/kg in the sample with arsenic at 16.3 mg/kg). These outlier arsenic concentrations may be representative of the imported surface fill material and are considered as ambient concentrations for this study.

Based on the conclusion that burn material, and associated COPCs impacts, are not in surface soils at the site, and that the exposure pathways for COPCs in surface soil are incomplete, the health risk to site receptors is considered less than significant, provided the existing surface cover is maintained at the site and burn materials and the associated COPC impacts are not exposed.

7.3. Toxicity Values

The toxicity values for the COPCs were obtained from the following sources in the order of priority listed:

- California Environmental Protection Agency's Toxic Criteria Database, and
- United States Environmental Protection Agency's Integrated Risk Information Systems.

Since the exposure pathways are considered incomplete, the toxicity values were not used to quantify a cancer risk or hazard index.

7.4. Risk Characterization Summary

Since the exposure pathways at the site are considered incomplete, the cancer and non-cancer intake dosage and the corresponding cancer risk and hazard indices were not calculated for the site.

7.5. Uncertainty Analysis

It is difficult to accurately predict future exposures and consequent risks from those exposures. There will be uncertainties in the evaluation of COPCs at the site, their occurrence and distribution, the exposure assessment, and the estimate of risk. The occurrence and distribution of burn material and COPCs at the site is based on historical information and several phases of investigation. The majority of information is indicative of an incomplete exposure pathway for COPCs in surface soil; however since there is no pattern of COPC distribution in the fill (unlike uniform or point source releases), there is a possibility of the presence of COPCs in areas that have not been sampled. The uncertainty of COPC impacts in surface soil is low because the COPC impacts are generally incident with burn material, which is readily identifiable.

8. ECOLOGICAL SCREENING EVALUATION

The purpose of an ecological screening evaluation is to provide a qualitative evaluation of the potential risk to non-human receptors from the COPCs at the site. An ecological risk evaluation was not conducted for the site because the site is located in a fully developed urban setting, occupied by residential structures, and does not maintain natural resources required to support wildlife habitats.

9. PUBLIC PARTICIPATION

In accordance with DTSC guidance, a mailing list was compiled of residences within the line-of-site. The PEA work plan was distributed to information repositories (Point Loma public library and Ocean Beach public library) located within the vicinity of the site A public notification of the PEA sampling activities was distributed to the residents, indicating the dates and nature of PEA sampling activities, as well as the locations to review the work plan. In addition, notification was sent to public officials and agencies with an interest in the activities at the site. Because the site conditions necessitated the preparation of this PEA report, SDUSD will comply with the public participation requirements as published in California Education Code (CEC) Section 17213.1(a)(6)(A). This may include the preparation of public notices to inform the surrounding community and DTSC representatives of the public review, comment period, and hearing after the final PEA report is submitted. The public notices will be prepared and distributed in accordance with the DTSC guidance and in accordance with AB 2644.

10. SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

This section provides a summary of findings, conclusions, and recommendations.

10.1. Summary of Findings and Conclusions

The objectives of this PEA included the following:

- Compiling data from previous investigations
- Performing an investigation to supplement the previous data

- Assessing the concentration and general extent of contamination that may be present in soil at the site; and
- Estimating the potential threat to public health and the environment based on a risk analysis.

The PEA field assessment, including soil sampling and analysis, was conducted in December 2005. PEA field activities were completed in areas of the site where suspected burn materials were mixed with fill primarily obtained from the site, specifically the athletic fields and sloped areas bordering the athletic fields. The following is a summary of the results of the PEA field activities:

- Various assessments, which included collection of samples for analysis, were previously conducted at the site by Kleinfelder, and the City of San Diego. Results indicated lead above the DTSC action level of 255 milligrams per kilogram (mg/kg) in 6 of 72 samples analyzed, and elevated arsenic concentrations in several of the samples.
- Based on these results, DTSC performed step-out sampling in the southwestern corner of the athletic field where lead was detected at a concentration of 2,650 mg/kg at a depth of 0.5 feet below ground surface (bgs) and collected additional samples along the west facing slopes where lead was encountered at a concentration of 69,100 mg/kg at a depth of 2.5 feet bgs. The DTSC investigation results indicated that the elevated concentrations of lead were limited in extent.
- In a meeting between SDUSD and DTSC representatives, it was agreed to perform further site characterization to evaluate whether an imminent and substantial endangerment to human health from site contamination exists, and to assess whether planned erosion control measures for the fill slopes along Valeta Street and Famosa Boulevard could proceed under a separate Removal Action Workplan (RAW). DTSC approved the workplan to perform a Preliminary Environmental Assessment on December 14, 2005.
- As agreed, the site was divided into three distinct study areas. Study Area 1 consists mainly of the educational areas within the fenced boundaries of the site. Study Area 2 consists of the slopes located on the southern and eastern portions of the site adjacent to Famosa Boulevard and Valeta Street. The slope located on the western boundary of the site adjacent to Cleator Community Park is designated as Study Area 3, which was not assessed during the PEA.
- Lead was not detected above the DTSC-action level of 255 mg/kg in surface samples (within the top 1.0 foot) in Study Areas 1 and 2.

- Arsenic concentrations in surface samples collected from Study Areas 1 and 2 indicate that they are generally within the range of background arsenic concentrations measured in formational material at the site, or are representative of ambient conditions in imported surface material from off site sources. Elevated concentrations of arsenic in burn material were consistent with elevated concentrations of lead in samples obtained from deeper portions of the fill.

- The results of the surface sampling program indicated that an imminent and substantial endangerment to site receptors does not exist from the potentially complete exposure pathways of surface soil ingestion, dermal contact, and inhalation of fugitive dust.

- The fill characterization program indicated incidence of secondary burn deposits mixed in with deeper portions of the fill. The shallowest incidence of burn ash was encountered at a depth of 4.5 feet in NM-B19, which had a lead concentration of 1,010 mg/kg. The only other sample with elevated lead concentration was in B-8 (69,100 mg/kg) at a depth of 2.5 feet, which had an arsenic concentration of 12.20 mg/kg.

- The burn deposits mixed with fill soils were generally characterized by elevated lead concentrations, detected polynuclear aromatic hydrocarbons, and dioxins/furans.

- A HHSE was performed for each Study Area using previous data, as well as the data collected during the subject investigation. COPCs were not encountered in surface soils in Study Area 1 or Study Area 2. The exposure pathways for COPCs encountered in deeper portions of the fill are considered incomplete. Therefore, the potential health risk to site receptors is considered insignificant.

- Equipment blanks collected from the site contained concentrations of analytes above the reporting limit; however, the concentrations detected were relatively low and likely had minimal effect, if any, on the sample concentrations.

- The laboratory analytical data was reviewed by Laboratory Data Consultants (LDC), a data validation specialist. LDC indicated the data reviewed were useable.

10.2. Recommendations for Further Action

Based on the site history information, previous investigations, the results of the PEA field investigation, and the HHSE conducted, recommendations for further action are listed below.

- Prepare a Removal Action Workplan (RAW) report for Study Area 1 to use the existing ground surface in the fill areas as a cover to prevent exposure to burn materials and associated COPCs impacts.

- Prepare a separate RAW for Study Area 2 to facilitate the implementation of erosion control and slope stability plans.

11. 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. Please note that this study did not include an evaluation of geotechnical conditions or possible geologic hazards.

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 the content, interpretations presented, or completeness of this document.

Our conclusions and opinions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site can 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 report is intended exclusively for use by the San Diego Unified School District. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than those noted is undertaken at said parties' sole risk.

12. SELECTED REFERENCES

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Table 1 - Previous Soil Analytical Results in mg/kg
(Kleinfelder, March 2003)

Sample ID	Depth (ft)	Date Sampled	Arsenic	Lead
B1	0.5	12-Feb-03	0.96	12.6
B2	0.5	12-Feb-03	1.52	2.3
B3	0.5	12-Feb-03	2.65	8.7
B4	0.5	12-Feb-03	2.23	2.3
S1	0.5	12-Feb-03	0.74	2.1
S2	0.5	12-Feb-03	1.60	14.4
S3	0.5	12-Feb-03	2.17	3.6
S4	0.5	12-Feb-03	1.34	7.1
S5	0.5	12-Feb-03	12.60	44.5
S6	0.5	12-Feb-03	0.92	10.7
S7	1.0	12-Feb-03	1.67	3.1
S8	1.0	12-Feb-03	1.60	2.3
S9	1.0	12-Feb-03	1.48	24.9
S10	1.0	12-Feb-03	1.61	2.9
S11	1.0	12-Feb-03	0.93	60.5
S12	1.0	12-Feb-03	1.53	13.8
S13	0.5	12-Feb-03	1.75	8.0
S14	0.5	12-Feb-03	1.29	4.0
S15	0.5	12-Feb-03	2.03	21.9
S16	0.5	12-Feb-03	6.02	2650.0

Notes:
ft - feet below ground surface
mg/kg - milligrams per kilogram

Table 2 - Previous Soil Analytical Results in mg/kg
(City of San Diego, March 2003)

Sample ID	Depth (ft)	Date Sampled	Arsenic	Lead
CL-S-01-0.5	0.5	13-Mar-03	1.41	14.5
CL-S-02-2.75	2.75	13-Mar-03	NA	ND
CL-S-03-0.5	0.5	13-Mar-03	2.18	ND
CL-S-04-1	1.0	13-Mar-03	NA	ND
CL-S-05-0.5	0.5	13-Mar-03	1.00	ND
CL-S-06-1.5	1.5	13-Mar-03	NA	ND
CL-S-07-0.5	0.5	13-Mar-03	1.87	37.1
CL-S-08-1.75	1.75	13-Mar-03	NA	38.3
CL-S-09-0.5	0.5	13-Mar-03	1.44	48.0
CL-S-10-1	1.0	13-Mar-03	NA	ND
CL-S-11-0.5	0.5	13-Mar-03	1.40	ND
CL-S-12-1.75	1.75	13-Mar-03	NA	ND
CL-S-13-0.5	0.5	13-Mar-03	ND	ND
CL-S-14-2	2.0	13-Mar-03	NA	ND
CL-S-15-0.5	0.5	13-Mar-03	ND	ND
CL-S-16-1	1.0	13-Mar-03	NA	ND
CL-S-17-0.5	0.5	13-Mar-03	1.88	ND
CL-S-18-2	2.0	13-Mar-03	NA	ND
CL-S-19-0.5	0.5	13-Mar-03	1.64	144.0
CL-S-20-0.5	0.5	13-Mar-03	NA	26.4
CL-S-21-3	3.0	13-Mar-03	1.43	ND
CL-S-22-0.5	0.5	13-Mar-03	NA	24.4
CL-S-23-0.5	0.5	13-Mar-03	1.46	29.7
CL-S-24-3.5	3.5	13-Mar-03	NA	10.3
CL-S-25-0.5	0.5	13-Mar-03	1.17	ND
CL-S-26-0.5	0.5	13-Mar-03	NA	ND
CL-S-27-2.0	2.0	13-Mar-03	1.75	ND

Notes:
ft - feet below ground surface
mg/kg - milligrams per kilogram
ND - not detected above method detection limit
NA - not analyzed

Table 3 - Previous Soil Analytical Results in mg/kg (Kleinfelder, May 2003)

Sample ID	Depth (ft)	Date Sampled	Arsenic	Lead
B1	5.0	17-May-03	4.93	2.52
B1	10.0	17-May-03	4.39	4.49
B1	20.0	17-May-03	8.61	423
B1dup	20.0	17-May-03	5.88	251
B1	30.0	17-May-03	3.55	2.23
B2	2.5	17-May-03	5.12	87.9
B2	5.0	17-May-03	5.15	11
B2	10.0	17-May-03	5.52	40.7
B2	20.0	17-May-03	3.87	2.91
B2	22.0	17-May-03	4.97	4.25
B3	5.0	17-May-03	14.10	653
B3	10.0	17-May-03	5.57	6.66
B3	15.0	17-May-03	6.23	4.65
B4	5.0	17-May-03	3.75	6.08
B4	10.0	17-May-03	4.42	2.32
B5	5.0	17-May-03	4.73	24.7
B5 dup	5.0	17-May-03	7.99	41.1
B5	10.0	17-May-03	3.51	15.3
B5	14.0	17-May-03	4.65	2.25
B6	5.0	17-May-03	2.99	0.989
B6	9.0	17-May-03	7.79	2.35
B7	3.0	17-May-03	6.26	3.77
B7	5.0	17-May-03	9.61	469
B7	10.0	17-May-03	6.29	7.15
B8	2.5	17-May-03	12.20	69100
B8	5.0	17-May-03	5.78	106
B9	5.0	17-May-03	6.55	4.65
B9	10.0	17-May-03	4.28	3.72
B9	20.0	17-May-03	5.54	2.61

Notes:
ft - feet below ground surface
mg/kg - milligrams per kilogram

Table 4 - Previous Dioxins/Furans Analytical Results in Soil (pg/g) (Kleinfelder, May 2003)

Sample ID	B1	B2	B2	B3	B7	B8
Depth (ft)	20	2.5	20	5	5.0	2.5
Date Sampled	17-May-03	17-May-03	17-May-03	17-May-03	17-May-03	17-May-03
TEC (2,3,7,8-TCDD)	1.27E+01	4.47E+00	5.15E-03	3.86E+00	5.99E+01	2.03E+01

Notes:
ft - feet below ground surface
pg/g - picograms per gram
TEC - total equivalent concentration
ND = not detected

Table 5 - Previous Soil Analytical Results in mg/kg (DTSC, April 2005)

Sample ID	Sample Depth (ft)	Date Sampled	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Silver	Vanadium	Zinc
RA01	0.5	20-Apr-05	ND	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	50	130
RA02	0.5	20-Apr-05	ND	47	ND	ND	ND	ND	ND	25	ND	ND	ND	48	160
RA03	0.5	20-Apr-05	ND	60	ND	ND	ND	ND	ND	ND	ND	ND	ND	62	120
RA04	0.5	20-Apr-05	ND	51	ND	ND	ND	ND	ND	120	ND	ND	ND	54	320
RA05	0.5	20-Apr-05	ND	140	ND	ND	ND	ND	27	29	ND	ND	ND	59	600
RA06	0.5	20-Apr-05	ND	76	ND	ND	30	ND	ND	56	ND	ND	ND	59	2000
RA07	0.5	20-Apr-05	ND	100	ND	ND	ND	ND	43	37	ND	ND	ND	50	1200
RA08	0.5	20-Apr-05	ND	93	ND	ND	ND	ND	ND	ND	ND	ND	ND	43	93

Notes:
ft - feet below ground surface
mg/kg - milligrams per kilogram
ND = not detected above method detection limit

Table 6 - Soil Analytical Results - Detected Metals (mg/kg)

Sample ID	Sample Depth (ft)	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Silver	Vanadium	Zinc
STUDY AREA 1															
NM-B10	1.0	2.97	--	--	--	--	--	--	3.68	--					
NM-B11	1.0	4.76	--	--	--	--	--	--	4.7	--	--	--	--	--	--
	5.0	1.89	--	--	--	--	--	--	2.7	--	--	--	--	--	--
	10.0	2.8	--	--	--	--	--	--	2.42	--	--	--	--	--	--
NM-B12	0.5-1.0	2.29	--	--	--	--	--	--	3.31	--	--	--	--	--	--
	6.0-6.5	3.52	--	--	--	--	--	--	6.9	--	--	--	--	--	--
	10.0-10.5	4.27	--	--	--	--	--	--	4.46	--	--	--	--	--	--
	16.0-16.5	6.32	--	--	--	--	--	--	3.29	--	--	--	--	--	--
NM-B13	1.0-1.5	3.52	--	--	--	--	--	--	2.54	--	--	--	--	--	--
	5.0-5.5	2.4	--	--	--	--	--	--	2.34	--	--	--	--	--	--
	10.5-11.0	4.54	--	--	--	--	--	--	9.94	--	--	--	--	--	--
	15.5-16.0	3.36	--	--	--	--	--	--	3.9	--	--	--	--	--	--
NM-B14	0.5-1.0	3.37	--	--	--	--	--	--	4.37	--	--	--	--	--	--
	6.5-7.0	4.42	--	--	--	--	--	--	2.97	--	--	--	--	--	--
NM-B15	1.0-1.5	3.64	--	--	--	--	--	--	5.93	--	--	--	--	--	--
	4.5-5.0	3.25	--	--	--	--	--	--	3.67	--	--	--	--	--	--
	9.5-10.0	2.82	--	--	--	--	--	--	3.49	--	--	--	--	--	--
	14.5-15.0	7.25	--	--	--	--	--	--	4.37	--	--	--	--	--	--
	18.5-19.0	5.95	--	--	--	--	--	--	3.08	--	--	--	--	--	--
NM-B16	1.5-2.0	5.55	--	--	--	--	--	--	172	--	--	--	--	--	--
	4.5-5.0	6.88	--	--	--	--	--	--	6.28	--	--	--	--	--	--
	9.5-10.0	7.06	--	--	--	--	--	--	3.45	--	--	--	--	--	--
	14.5-15.0	6.56	--	--	--	--	--	--	2.59	--	--	--	--	--	--
NM-B17	1.5-2.0	6.19	--	--	--	--	--	--	1.33	--	--	--	--	--	--
	4.5-5.0	4.65	--	--	--	--	--	--	3.31	--	--	--	--	--	--
DUP-05		4.15	--	--	--	--	--	--	2.13	--	--	--	--	--	--
NM-B18	0.5-1.0	3.93	--	--	--	--	--	--	28.7	--	--	--	--	--	--
	4.5-5.0	6.17	--	--	--	--	--	--	3.2	--	--	--	--	--	--
NM-B19	2.0-2.5	6.69	--	--	--	--	--	--	188	--	--	--	--	--	--
	4.5-5.0	17.9	350	<0.250	1.91	22.1	6.28	692	**1010**	<0.0835	1.16	22.1	1.47	26.7	682
	9.5	3.03	--						63.5	--	--	--	--	--	--
	17.0	3.09	--	--	--	--	--	--	3.42	--	--	--	--	--	--
NM-B29	0.5-1.0	4.14	--	--	--	--	--	--	4.4	--	--	--	--	--	--
	4.5-5.5	4.67	--	--	--	--	--	--	3.22	--	--	--	--	--	--
NM-S1	0.5	9.3	--	--	--	--	--	--	10.3	--	--	--	--	--	--
NM-S2	0.5	9.76	--	--	--	--	--	--	6.49	--	--	--	--	--	--
NM-S3	0.5	11	--	--	--	--	--	--	5.71	--	--	--	--	--	--
NM-S4	0.5	7.38	--	--	--	--	--	--	21.9	--	--	--	--	--	--
NM-S5	0.5	8.48	--	--	--	--	--	--	4.71	--	--	--	--	--	--
NM-S6	0.5	10.7	--	--	--	--	--	--	8.48	--	--	--	--	--	--
NM-S7	0.5	5.75	--	--	--	--	--	--	5.93	--	--	--	--	--	--
NM-S8	0.5	7.6	--	--	--	--	--	--	9.1	--	--	--	--	--	--
NM-S9	0.5	9.94	--	--	--	--	--	--	12.2	--	--	--	--	--	--
NM-S10	0.5	9.47	--	--	--	--	--	--	27	--	--	--	--	--	--
NM-S11	0.5	9.63	--	--	--	--	--	--	21.4	--	--	--	--	--	--

Table 6 - Soil Analytical Results - Detected Metals (mg/kg)

Sample ID	Sample Depth (ft)	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Silver	Vanadium	Zinc
NM-S12	0.5	8.1	--	--	--	--	--	--	7.83	--	--	--	--	--	--
NM-S13	0.5	8.28	--	--	--	--	--	--	7.47	--	--	--	--	--	--
NM-S14	0.5	10.7	--	--	--	--	--	--	2.45	--	--	--	--	--	--
DUP-01		10.2	--	--	--	--	--	--	3.39	--	--	--	--	--	--
NM-S15	0.5	9.54	--	--	--	--	--	--	8.22	--	--	--	--	--	--
DUP-02		6.91	--	--	--	--	--	--	5.76	--	--	--	--	--	--
NM-S16	0.5	8.74	--	--	--	--	--	--	19	--	--	--	--	--	--
NM-S17	0.5	9.89	--	--	--	--	--	--	7.86	--	--	--	--	--	--
NM-S18	0.5	8.7	--	--	--	--	--	--	8.25	--	--	--	--	--	--
NM-S19	0.5	8.34	--	--	--	--	--	--	6.45	--	--	--	--	--	--
NM-S20	0.5	6.3	--	--	--	--	--	--	12.2	--	--	--	--	--	--
NM-S21	0.5	14.6	--	--	--	--	--	--	16.4	--	--	--	--	--	--
DUP-03		14.1	--	--	--	--	--	--	37	--	--	--	--	--	--
NM-S22	0.5	7.8	--	--	--	--	--	--	17.5	--	--	--	--	--	--
NM-S23	0.5	12.6	--	--	--	--	--	--	7.96	--	--	--	--	--	--
NM-S24	0.5	7.65	--	--	--	--	--	--	8.81	--	--	--	--	--	--
NM-S25	0.5	9.24	--	--	--	--	--	--	18	--	--	--	--	--	--
NM-S26	0.5	15.6	--	--	--	--	--	--	12.3	--	--	--	--	--	--
DUP-04		15.4	--	--	--	--	--	--	12.3	--	--	--	--	--	--
NM-S27	0.5	7.9	--	--	--	--	--	--	12.9	--	--	--	--	--	--
STUDY AREA 2															
NM-B20	1.0	5.09	--	--	--	--	--	--	14.8	--	--	--	--	--	--
	5.0	3.76	--	--	--	--	--	--	17.8	--	--	--	--	--	--
	11.0	6.29	--	--	--	--	--	--	33.6	--	--	--	--	--	--
	15.0	9.45	601	0.401	4.48	40.5	12.8	727	**486**	0.314	1.49	37.7	6.31	73.3	1480
	20.0	3.66	--	--	--	--	--	--	5.45	--	--	--	--	--	--
	25.0	9.53	--	--	--	--	--	--	5.56	--	--	--	--	--	--
	30.0	6.18	--	--	--	--	--	--	2.08	--	--	--	--	--	--
NM-B21	1.0	6.39	--	--	--	--	--	--	24.2	--	--	--	--	--	--
	5.0	11	--	--	--	--	--	--	7.05	--	--	--	--	--	--
	10.0	6.52	--	--	--	--	--	--	2.47	--	--	--	--	--	--
	12.5	5.62	--	--	--	--	--	--	2.56	--	--	--	--	--	--
NM-B22	1.0	5.37	--	--	--	--	--	--	5.54	--	--	--	--	--	--
	6.0	9.32	143	0.229	2.18	16.6	6.8	125	**311**	0.0685	0.439	14.1	0.802	29.6	395
	11.5	17.3	405	0.243	2.44	31.7	7.9	282	**11700**	0.351	1.12	21	3.17	41.6	663
	15.0	6.58	--	--	--	--	--	--	54.6	--	--	--	--	--	--
	25.0	3.96	--	--	--	--	--	--	14	--	--	--	--	--	--
	32.5	4.16	--	--	--	--	--	--	65.2	--	--	--	--	--	--
	40.0	5.23	--	--	--	--	--	--	4.56	--	--	--	--	--	--
	45.0	3.42	--	--	--	--	--	--	2.79	--	--	--	--	--	--
NM-B23	0-1.0	16.3	--	--	--	--	--	--	12.1	--	--	--	--	--	--
	5.0	3.07	--	--	--	--	--	--	3.95	--	--	--	--	--	--
	8.5-9.0	3.82	--	--	--	--	--	--	36.9	--	--	--	--	--	--
	12.0	2.72	--	--	--	--	--	--	17.7	--	--	--	--	--	--
	15.0	1.12	--	--	--	--	--	--	2.3	--	--	--	--	--	--

Table 6 - Soil Analytical Results - Detected Metals (mg/kg)

Sample ID	Sample Depth (ft)	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Silver	Vanadium	Zinc
NM-B24	0-1	6.2	--	--	--	--	--	--	229	--	--	--	--	--	--
	4.5-5.5	6.64	--	--	--	--	--	--	**426**	--	--	--	--	--	--
	8.5-9.5	4.16	--	--	--	--	--	--	7.94	--	--	--	--	--	--
	13-14	12.5	--	--	--	--	--	--	**617**	--	--	--	--	--	--
	15-16	4.29	--	--	--	--	--	--	2.67	--	--	--	--	--	--
NM-B25	1.0	3.36	--	--	--	--	--	--	5.91	--	--	--	--	--	--
	5.0	6.02	--	--	--	--	--	--	11.2	--	--	--	--	--	--
	9.0	2.77	--	--	--	--	--	--	2.43	--	--	--	--	--	--
	17.5	11.1	174	<0.250	0.723	11.3	4	495	**730**	0.209	0.406	13.1	0.829	22.9	281
	20.0	3.31	--	--	--	--	--	--	2.79	--	--	--	--	--	--
	25.0	3.03	--	--	--	--	--	--	14.3	--	--	--	--	--	--
	30.0	3.8	--	--	--	--	--	--	4.48	--	--	--	--	--	--
	35.0	5.82	--	--	--	--	--	--	60.6	--	--	--	--	--	--
	40.0	3.93	--	--	--	--	--	--	2.87	--	--	--	--	--	--
	45.0	2.97	--	--	--	--	--	--	1.76	--	--	--	--	--	--
	50.0	1.79	--	--	--	--	--	--	0.986	--	--	--	--	--	--
NM-B26	1.0-2.0	7.12	--	--	--	--	--	--	4.09	--	--	--	--	--	--
	2.0-3.0	3.62	--	--	--	--	--	--	17.9	--	--	--	--	--	--
	7.0-8.0	5.31	--	--	--	--	--	--	16.9	--	--	--	--	--	--
	11.0-12.0	3.57	--	--	--	--	--	--	10.7	--	--	--	--	--	--
	13.0-14.0	3.96	--	--	--	--	--	--	2.8	--	--	--	--	--	--
	15.0-16.0	2.37	--	--	--	--	--	--	3.91	--	--	--	--	--	--
NM-B27	1.0	6.81	--	--	--	--	--	--	18.8	--	--	--	--	--	--
	5.0	4.47	--	--	--	--	--	--	15.8	--	--	--	--	--	--
	10.0	1.9	--	--	--	--	--	--	10.8	--	--	--	--	--	--
NM-B28	0-1.0	4.71	--	--	--	--	--	--	4.28	--	--	--	--	--	--
	3.0-4.0	3.58	--	--	--	--	--	--	20.1	--	--	--	--	--	--
	5.0-6.0	4.12	--	--	--	--	--	--	3.24	--	--	--	--	--	--
NM-HA1	0.5	3.99	--	--	--	--	--	--	4.89	--	--	--	--	--	--
NM-HA2	0.5	5.09	--	--	--	--	--	--	152	--	--	--	--	--	--
	1.5	5.55	--	--	--	--	--	--	188	--	--	--	--	--	--
NM-HA3	0.5	6.21	--	--	--	--	--	--	51.8	--	--	--	--	--	--
	1.0	5.65	--	--	--	--	--	--	30.8	--	--	--	--	--	--
NM-HA4	0.5	5.75	--	--	--	--	--	--	117	--	--	--	--	--	--
	1.5	5.37	--	--	--	--	--	--	104	--	--	--	--	--	--
NM-HA5	0.5	5.42	--	--	--	--	--	--	9.86	--	--	--	--	--	--
	1.5	4.26	--	--	--	--	--	--	32	--	--	--	--	--	--

Notes:
ft - feet below ground surface
mg/kg = milligrams per kilogram
-- = not analyzed
BOLD indicates a sample exceeding the DTSC action level of 255 mg/kg

Table 7 - Arsenic Concentrations in Formational Material (mg/kg)

Sample ID	Sample Depth (ft)	Arsenic
NM-B10	1.0	2.97
NM-B11	10.0	2.8
NM-B12	16.0-16.5	6.32
NM-B13	15.5-16.0	3.36
NM-B14	6.5-7.0	4.42
NM-B17	1.5-2.0	6.19
	4.5-5.0	4.65
NM-B19	17.0	3.09
NM-B29	4.5-5.5	4.67
NM-B20	30.0	6.18
NM-B21	10.0	6.52
	12.5	5.62
NM-B22	45.0	3.42
NM-B23	15.0	1.12
NM-B24	15-16	4.29
NM-B25	45.0	2.97
	50.0	1.79
NM-B27	10.0	1.9
NM-B28	5.0-6.0	4.12

Notes:
ft - feet below ground surface
mg/kg = milligrams per kilogram

Table 8 - Soil Analytical Results - Detected PAHs (ug/kg)

Sample ID	Naphthalene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo (a) Anthracene	Chrysene	Benzo (b) Fluoranthene	Benzo (a) Pyrene	Indeno (1,2,3-c,d) Pyrene
NM-B19 (4.5-5.0)	61	35	5	ND	21	16	79	52	150	69
NM-B20-15.0	ND	8.8	2.2	12	16	5	20	10	17	11
NM-B22-6.0	ND	9.3	ND	5	17	ND	8	ND	9.9	ND
NM-B22-11.5	ND	23	6.3	ND	10	11	25	24	47	38
NM-B22-32.5	ND	5.2	ND	8.3	ND	ND	6.8	3.8	ND	4.4
NM-B24 (4.5-5.5)	ND	3.4	ND	9.8	ND	ND	6	ND	5.9	ND
NM-B24 (13-14)	ND	15	9.1	24	ND	ND	16	16	16	ND
NM-B25-17.5	ND	35	9.4	ND	ND	ND	250	82	290	130
NM-B25-35.0	ND	ND	ND	ND	ND	3	130	ND	ND	6.7

Notes:
PAH = polynuclear aromatic hydrocarbons
µg/kg = micrograms per kilogram
ND = Not detected at or above the reporting limit

Table 9 - Soil Analytical Results - Dioxins/Furans (pg/g)

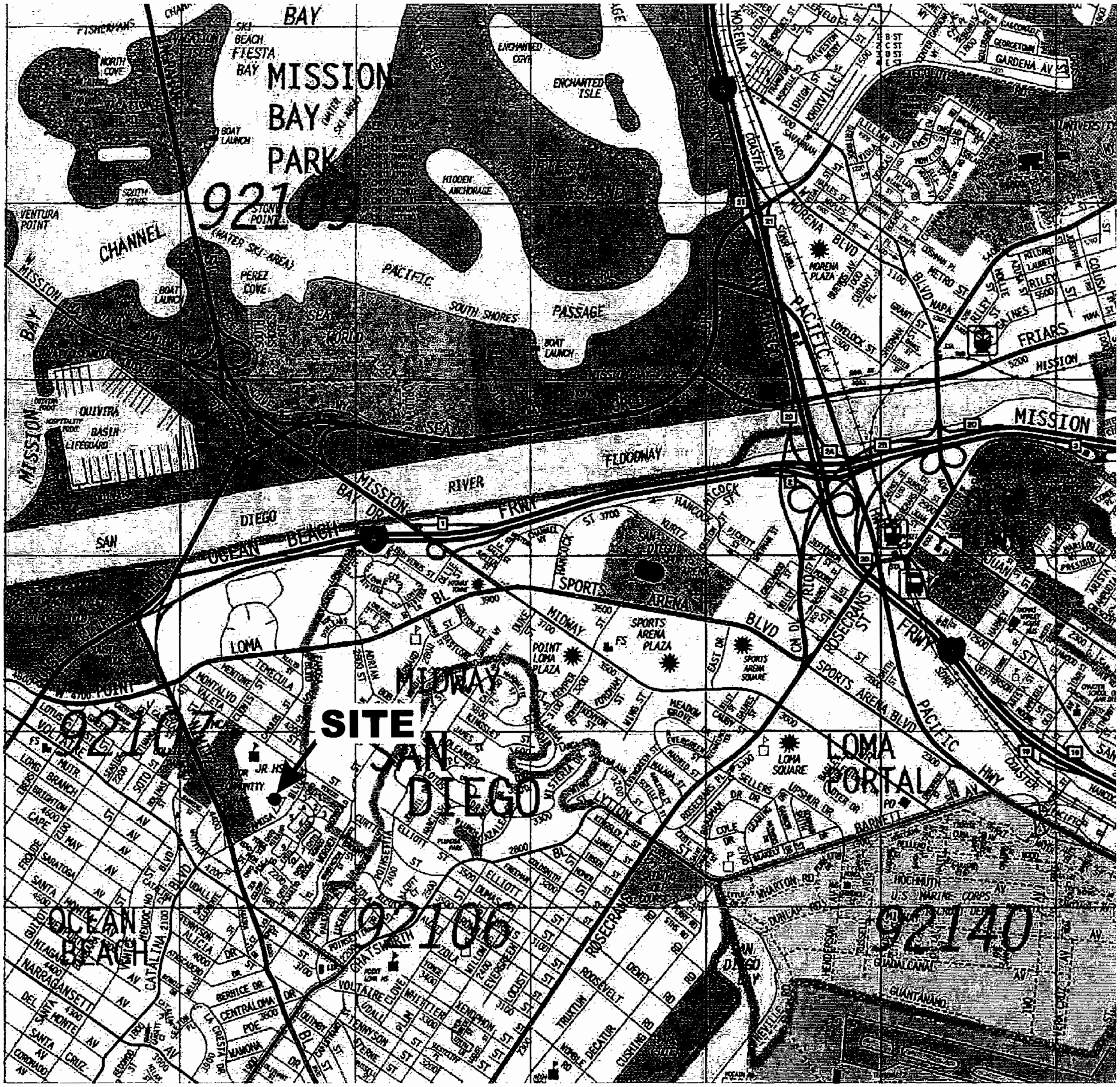
Sample ID	NM-B19(4.5-5.0)	NM-B22- 11.5	NM-B26 (7.0-8.0)
TEC (2,3,7,8-TCDD)	5.01E+01	2.55E+01	2.27E-01

Notes:
ND = Not detected at or above the reporting limit
TEC - total equivalent concentration
pg/g = picograms per gram

Table 10 - Summary of Field Blank Sample Analytical Results

Sample ID	Metals (mg/ℓ)						PAHs (ug/ℓ)
	Arsenic	Barium	Lead	Silver	Thallium	Vanadium	Naphthalene
EBl-01	ND	--	ND	--	--	--	0.71
EBl-02	ND	--	0.0111	--	--	--	--
EBl-03	ND	--	ND	--	--	--	ND
EBl-04	0.00355	--	ND	--	--	--	ND
EBl-05	ND	0.000921	ND	0.000763	0.0054	0.000741	ND
EBl-06	0.00485	ND	ND	0.000853	0.000676	0.0041	ND

Notes:
PAHs = polynuclear aromatic hydrocarbons
mg/ℓ = milligrams per liter
µg/ℓ = micrograms per liter
-- = not analyzed
ND = not detected at the reporting limit



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

0 2400 4800

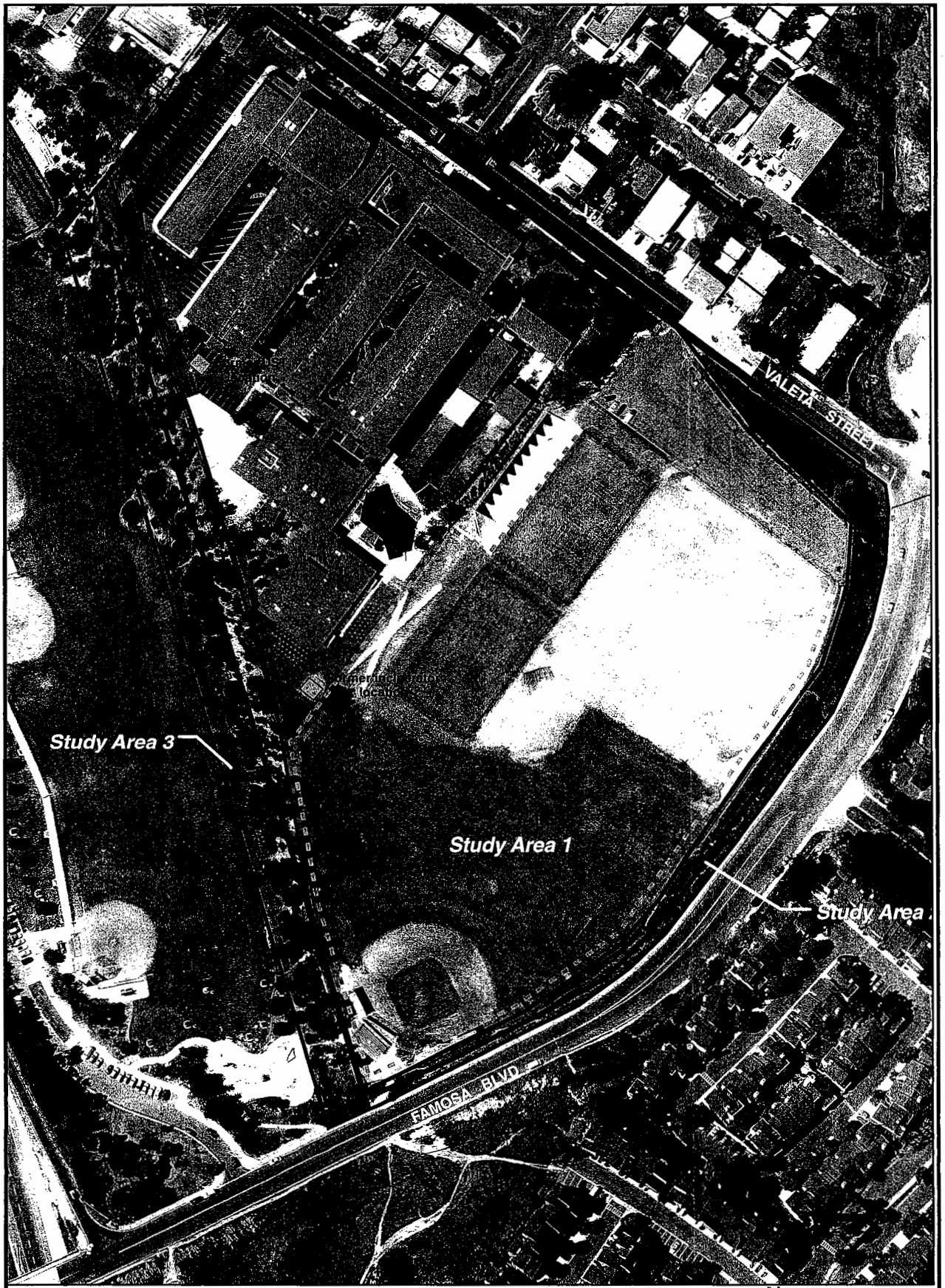
APPROXIMATE SCALE IN FEET

N

NOTE: ALL DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE.

Ninyo & Moore		SITE LOCATION MAP	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	1
105338029	4/06		

105338029 slm fig 1.cdr



Legend

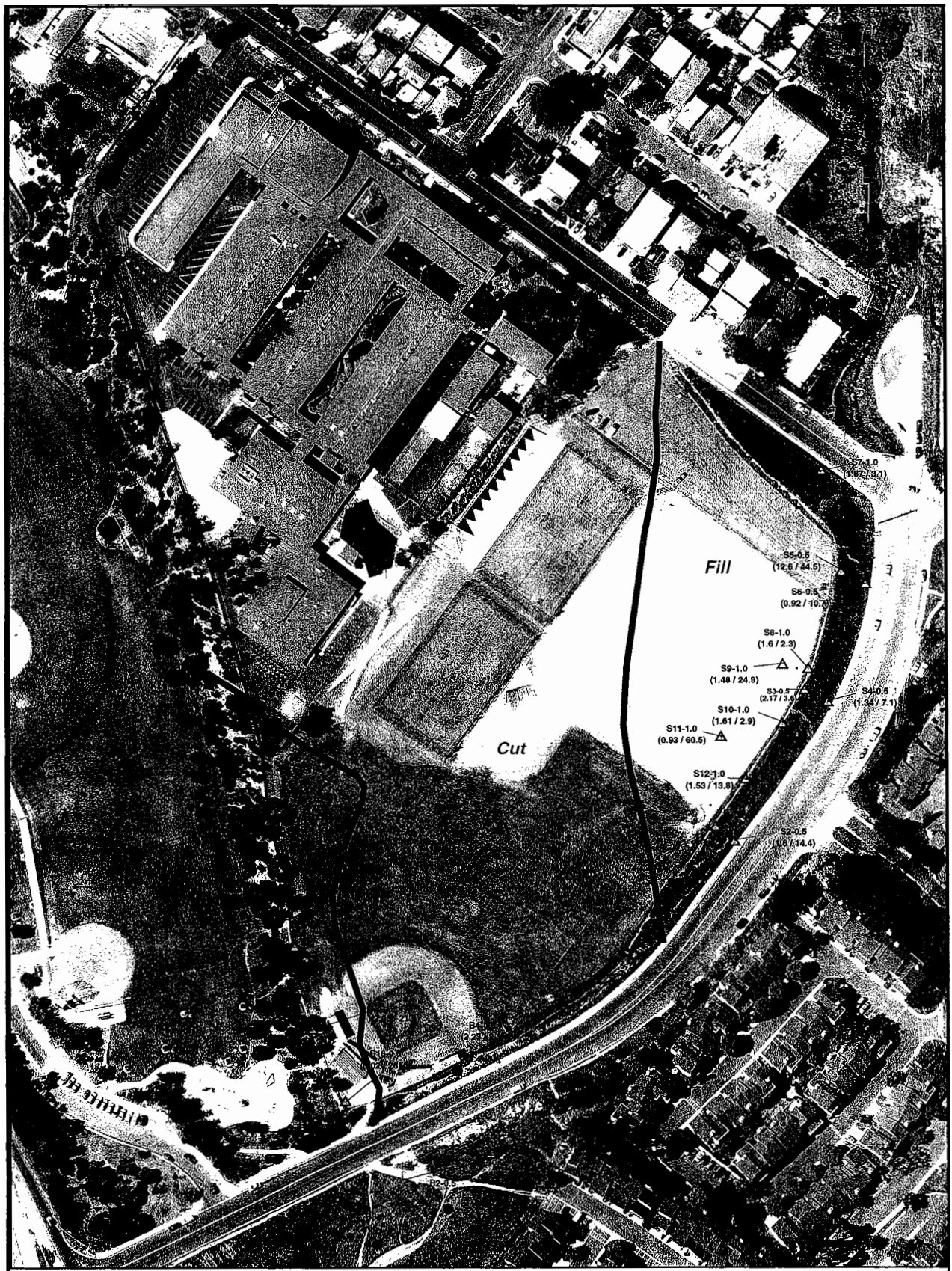
- Approximate location of study area
- Site boundary
- Approximate sampling boundary of Study Area 1

N

0 60 120 240 Feet

Ninyo & Moore		STUDY AREAS	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	2
105338029	4/06		

Source: Aerial Photograph April 2004-105338029_Fig2.mxd



Legend

B-4 ● Approximate location of background sample (Kleinfelder, March 2003)

S-16 △ Approximate location of surface sample (Kleinfelder, March 2003)

▭ Approximate location of cut/fill boundary projected from grading plan (1958), Kleinfelder (2003), and current study

Sample ID — Depth of Sample(Feet)
B4-0.5
(2.23/2.3)
Arsenic Results (mg/kg) — Lead Results (mg/kg)

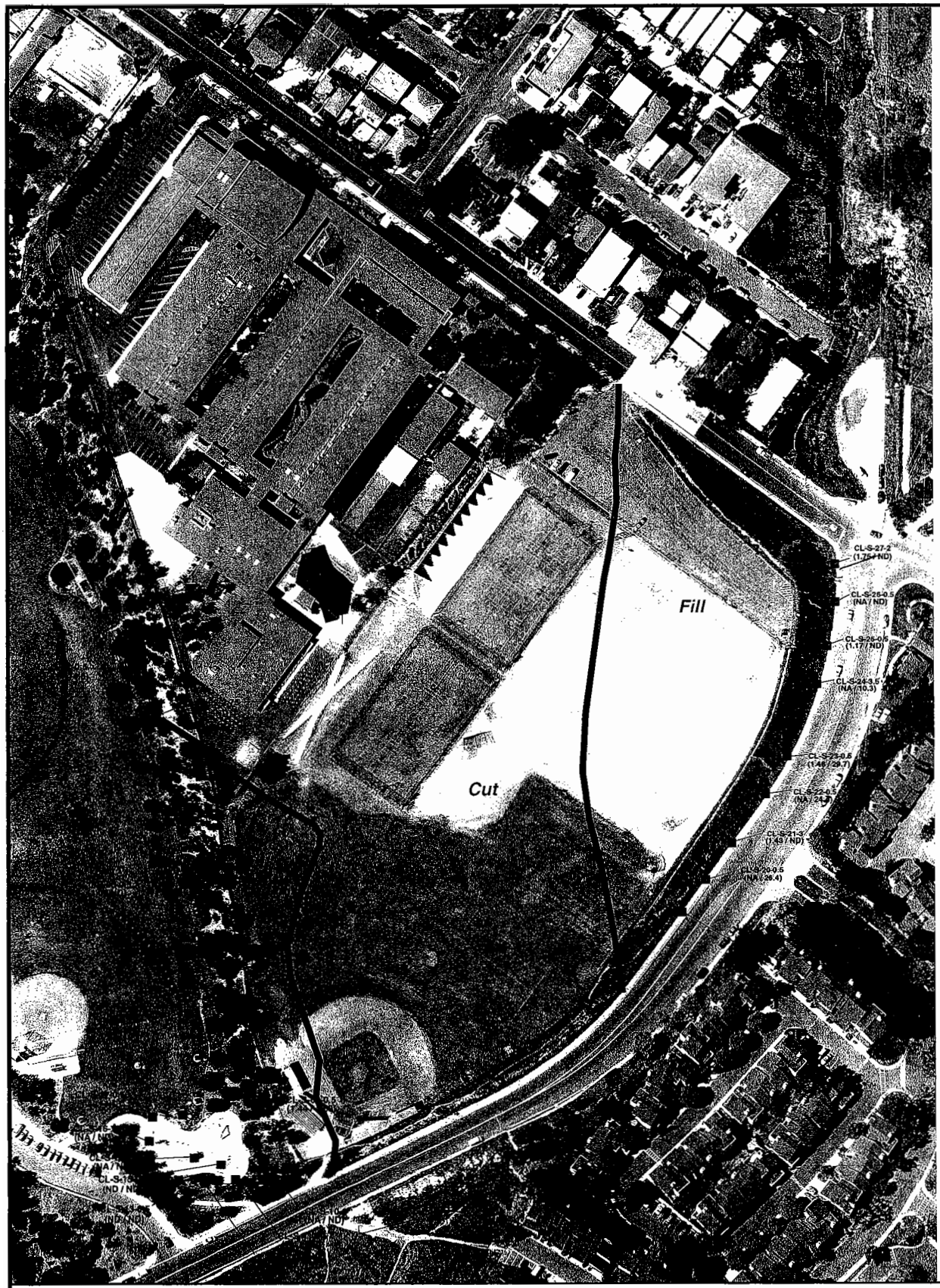
N

0 60 120 240 Feet

NOTES:
mg/kg - milligrams per kilogram

Source: Aerial Photograph April 2004-105338029_Fig3.mxd

Ninyo & Moore		PREVIOUS LEAD AND ARSENIC ANALYTICAL RESULTS (KLEINFELDER, MARCH 2003)	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	3
105338029	4/06		



Legend

S-26 ■ Approximate location of soil sample (City of San Diego, March 2003)

▭ Approximate location of cut/fill boundary projected from grading plan (1958), Kleinfelder (2003), and current study

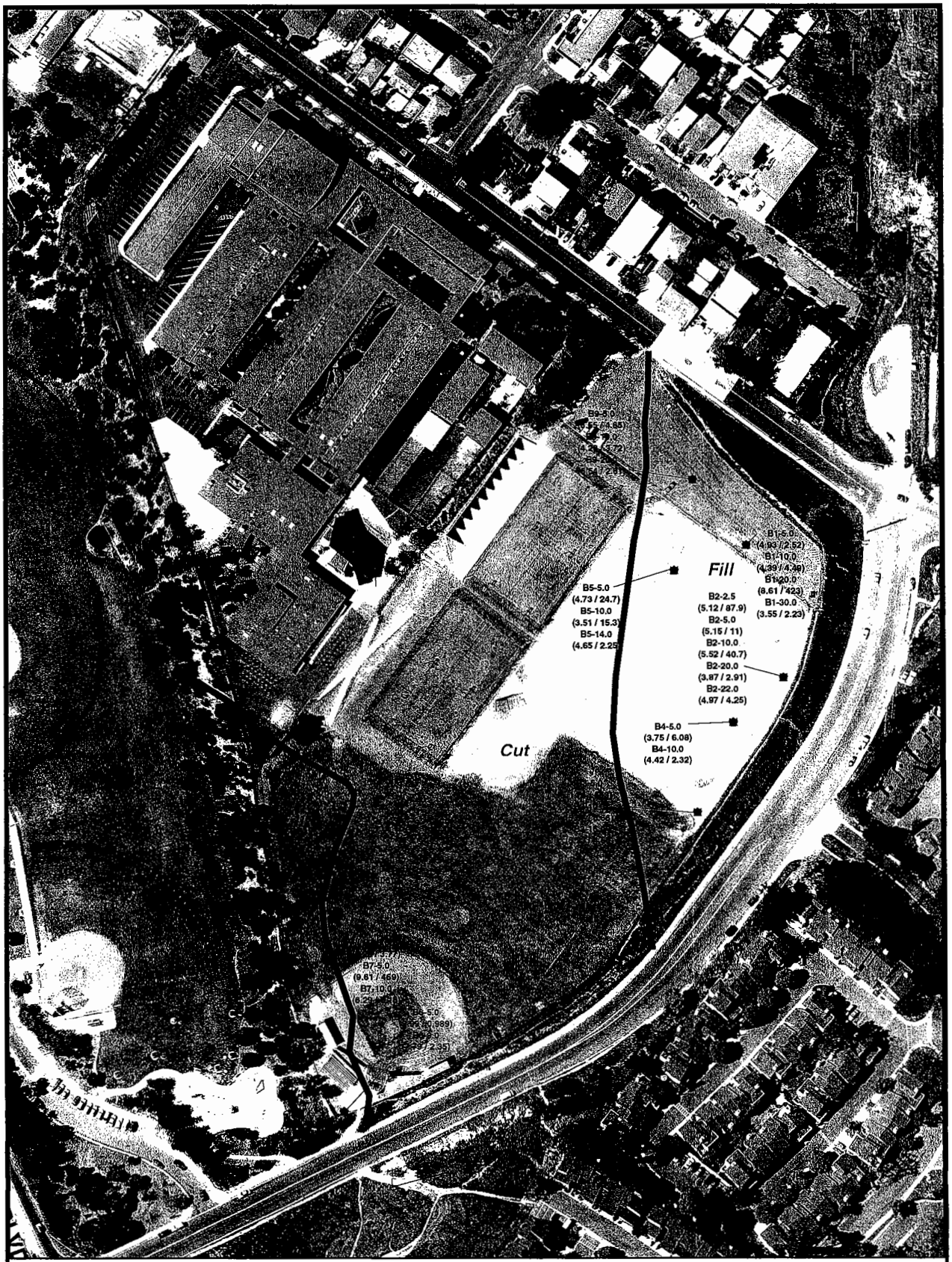
Sample ID → CL-S-25-0.5 ← Depth of Sample(Feet)
(1.17/ND)
Arsenic Results (mg/kg) ← → Lead Results (mg/kg)

N

0 60 120 240 Feet

NOTES:
mg/kg - milligrams per kilogram
ND - not detected
NA - not analyzed
Source: Aerial Photograph April 2004-105338029_Fig4.mxd

Ninyo & Moore		PREVIOUS LEAD AND ARSENIC ANALYTICAL RESULTS (CITY OF SAN DIEGO, MARCH 2003)	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	4
105338029	4/06		



Legend

B-9 Approximate boring location (Kleinfelder, May 2003)

Approximate location of cut/fill boundary projected from grading plan (1958), Kleinfelder (2003), and current study

Sample ID — Depth of Sample(Feet)
B5-5.0
(4.73/24.7)
Arsenic Results (mg/kg) — Lead Results (mg/kg)

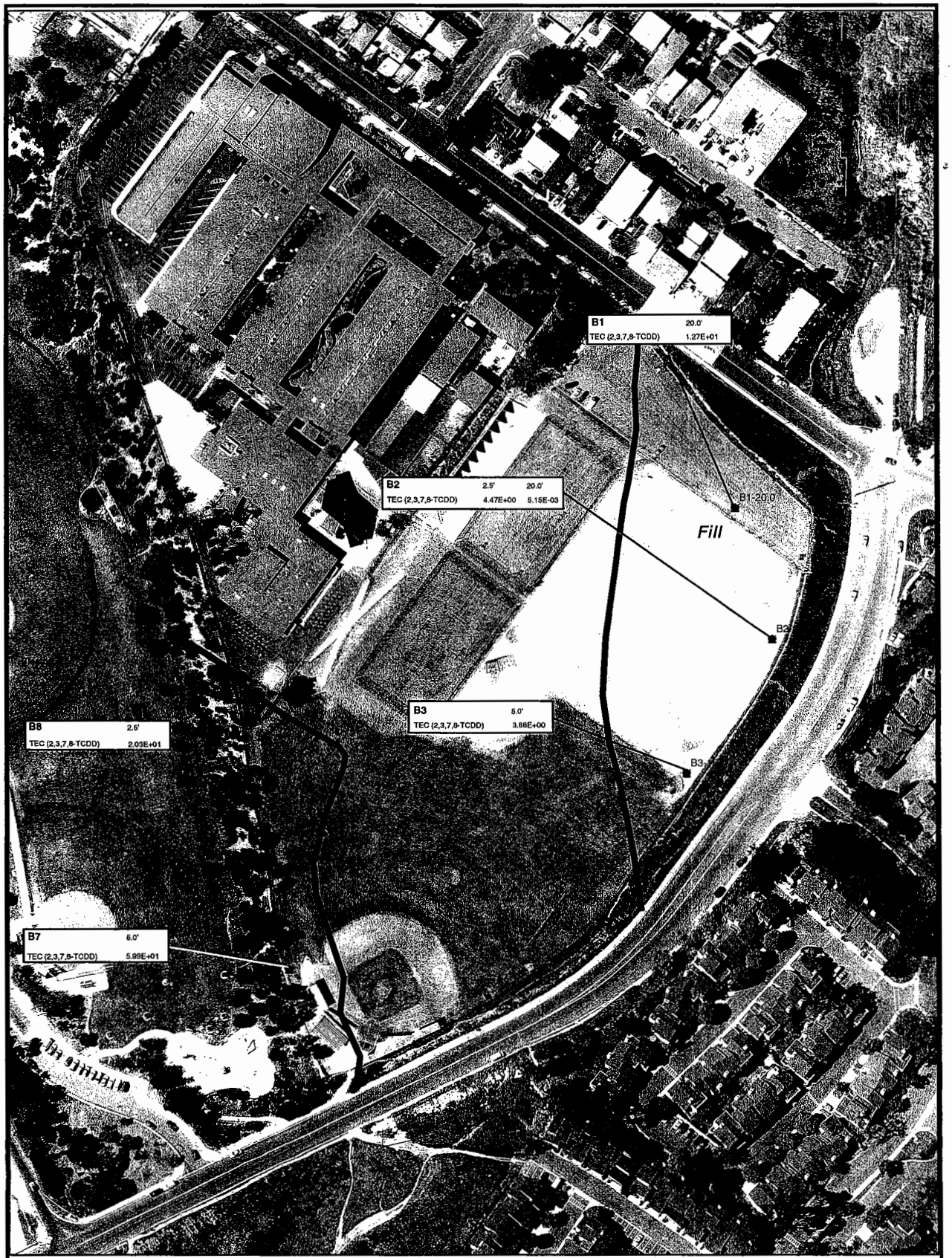
N

0 60 120 240 Feet

NOTES:
mg/kg - milligrams per kilogram

Source: Aerial Photograph April 2004-105338029_Fig5.mxd

Ninyo & Moore		PREVIOUS LEAD AND ARSENIC ANALYTICAL RESULTS (KLEINFELDER, MAY 2003)	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	5
105338029	4/06		



Legend

B-9 Approximate boring location (Kleinfelder, May 2003)

Approximate location of cut/fill boundary projected from grading plan (1958), Kleinfelder (2003), and current study

NOTE:
TEC - total equivalent concentration
pg/g - picograms per gram
ND - not detected

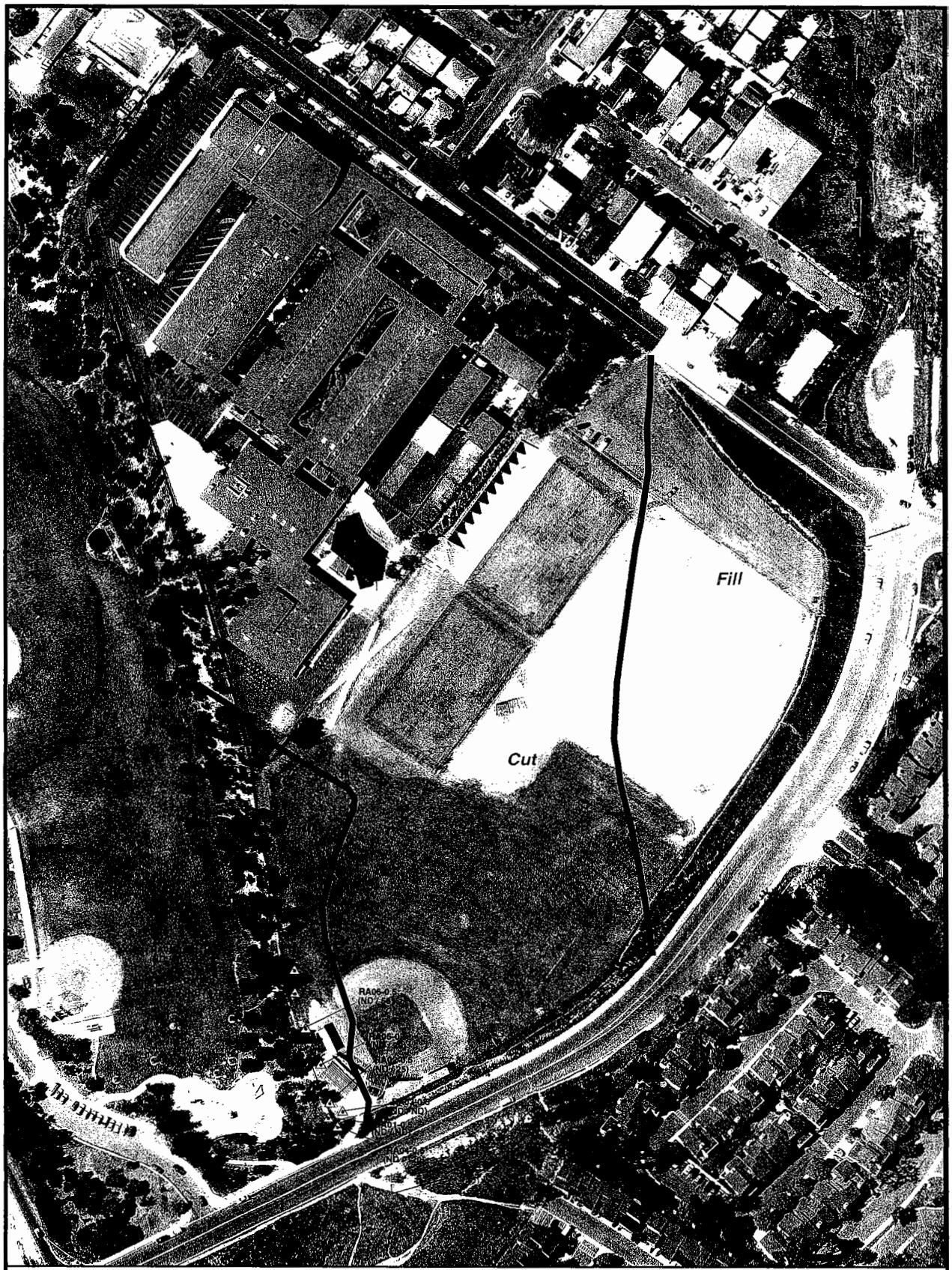
Sample ID — Depth(Feet)
B7 5.0'
TEC (2,3,7,8-TCDD) 5.99E+00
Analytes — Results (pg/g)

N

0 60 120 240 Feet

Ninyo & Moore		PREVIOUS DIOXIN/FURAN ANALYTICAL RESULTS (KLEINFELDER, MAY 2003)	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	6
105338029	4/06		

Source: Aerial Photograph April 2004-105338029_Fig6.mxd



Legend

RA08 Approximate location of soil sample (DTSC, March 2005)

Approximate location of cut/fill boundary projected from grading plan (1958), Kleinfelder (2003), and current study

Sample ID — Dpeth of Sample(Feet)
RA07-0.5
(ND / 37)
Arsenic Results (mg/kg) — Lead Results (mg/kg)

N

0 60 120 240 Feet

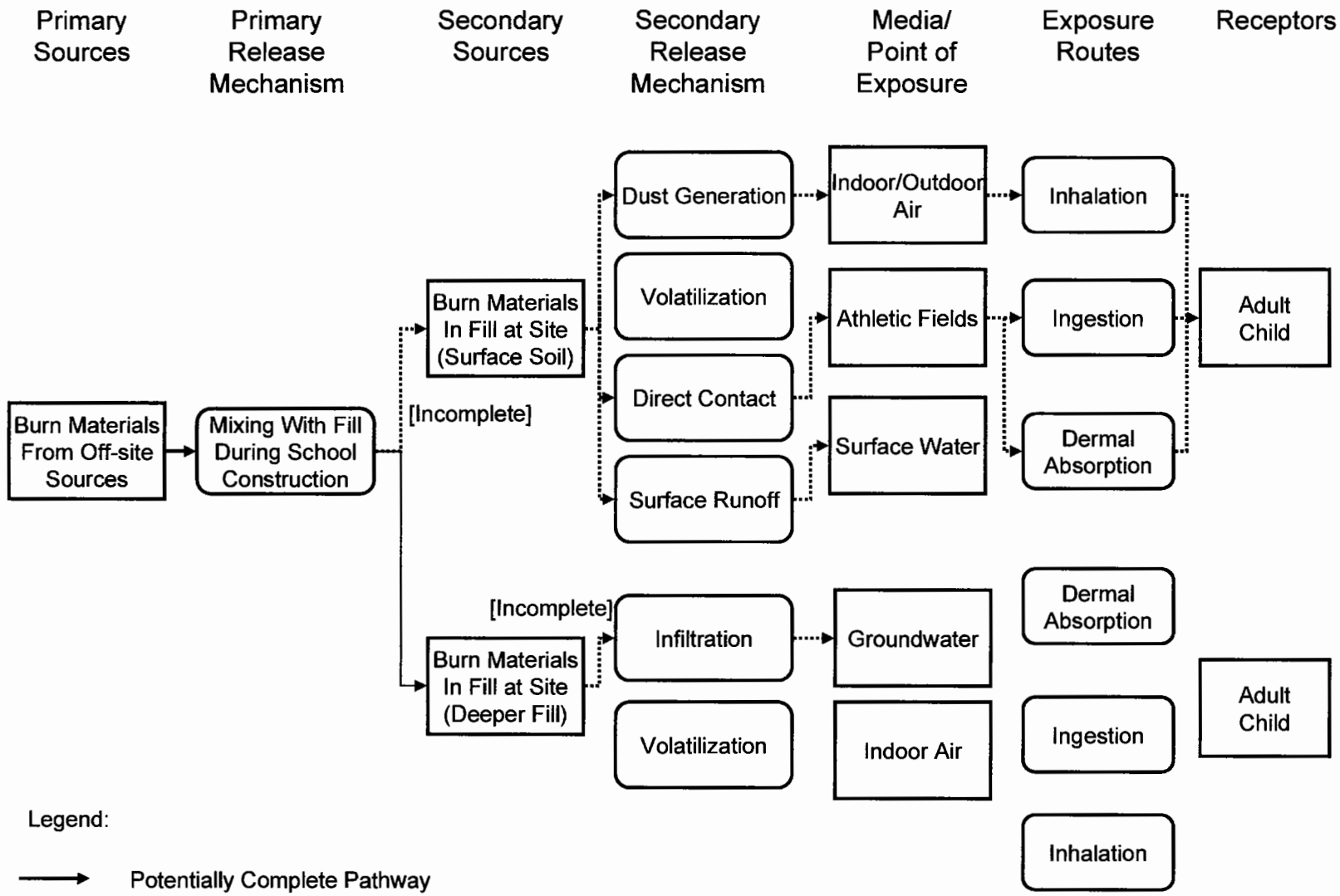
NOTES:
mg/kg - milligrams per kilogram
ND - not detected

Source: Aerial Photograph April 2004-105338029_Fig7.mxd

Ninyo & Moore		PREVIOUS LEAD AND ARSENIC ANALYTICAL RESULTS (DTSC, MARCH 2005)	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	7
105338029	4/06		

Conceptual Site Exposure Model

Human Health Risk Pathways



Legend:

→ Potentially Complete Pathway

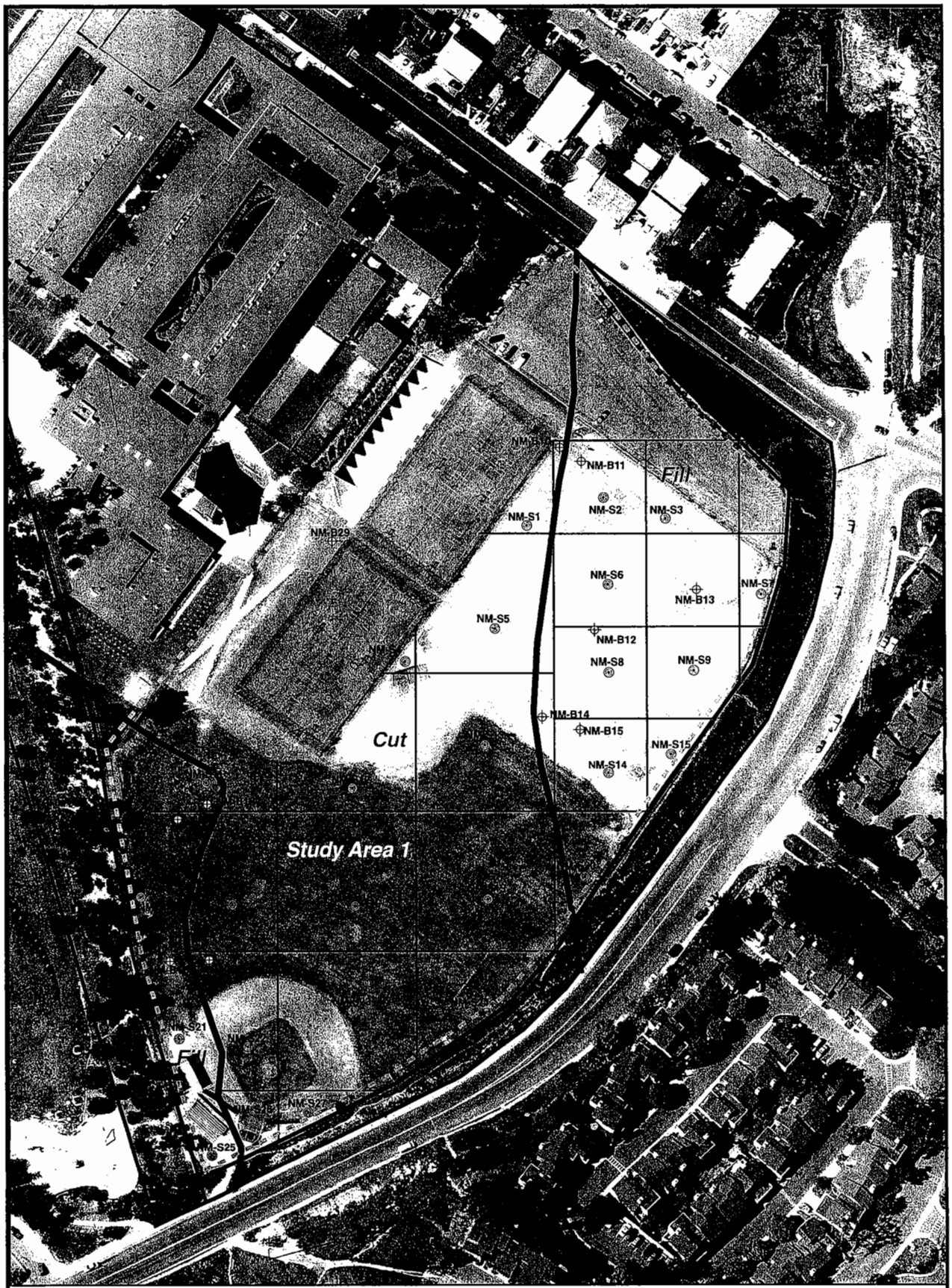
⋯→ Incomplete Pathway

[No Arrow] No Pathway

Ninyo & Moore

FIGURE 8

105338032 F



Legend

NM-S27 Surface sample location

NM-B19 Continuous core boring location

Approximate sampling boundary of Study Area 1

Sampling grid

Approximate location of study area

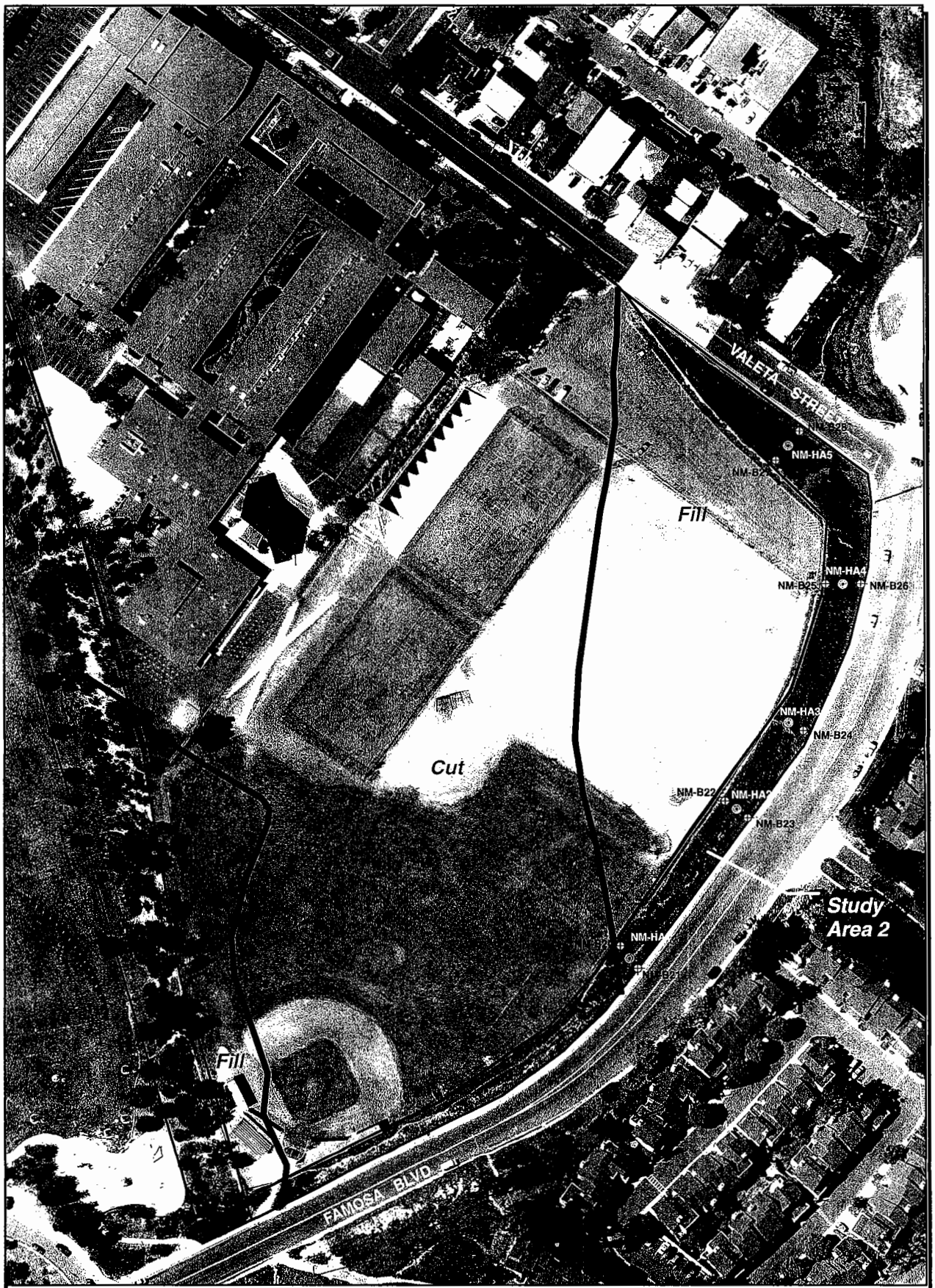
Approximate location of cut/fill boundary projected from grading plan (1958), Kleinfelder (2003), and current study

N

0 50 100 200 Feet

Ninyo & Moore		STUDY AREA 1 SAMPLING LOCATIONS	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	9
105338029	4/06		

Source: Aerial Photograph April 2004-105338029_Fig9.mxd



Legend

NM-HA5 — Hand auger boring location

NM-B28 — Continuous core boring location

Approximate location of study area

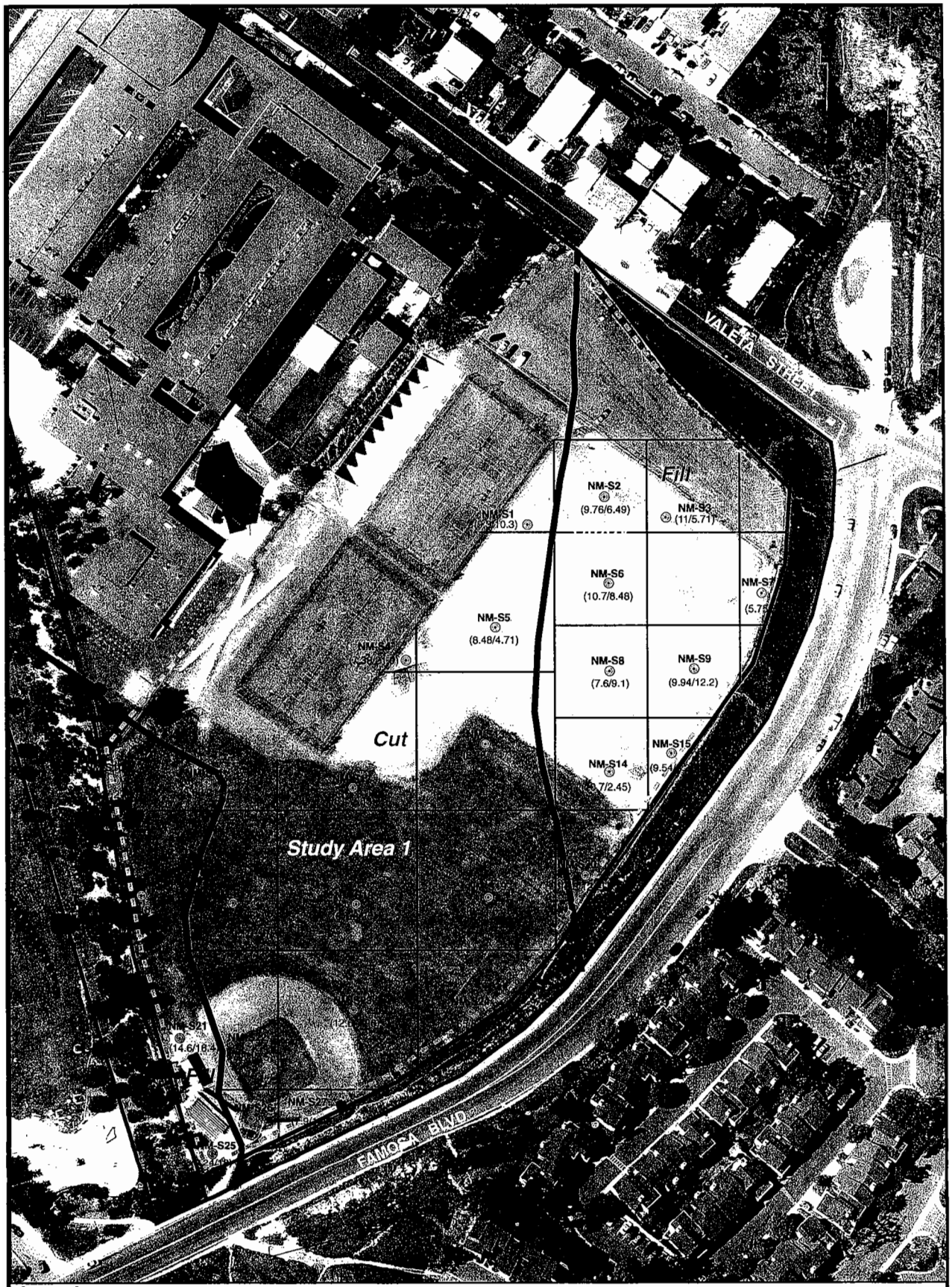
Approximate location of cut/fill boundary projected from grading plan (1958), Kleinfelder (2003), and current study

N

0 50 100 200 Feet

Ninyo & Moore		STUDY AREA 2 SAMPLING LOCATIONS	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	10
105338029	4/06		

Source: Aerial Photograph April 2004-105338029_Fig10.mxd



Legend

NM-S27 Surface sample location

Approximate sampling boundary of Study Area 1

Sampling grid

Approximate location of study area

Approximate location of cut/fill boundary projected from grading plan (1958), Kleinfelder (2003), and current study

NOTE:
mg/kg - milligrams per kilogram

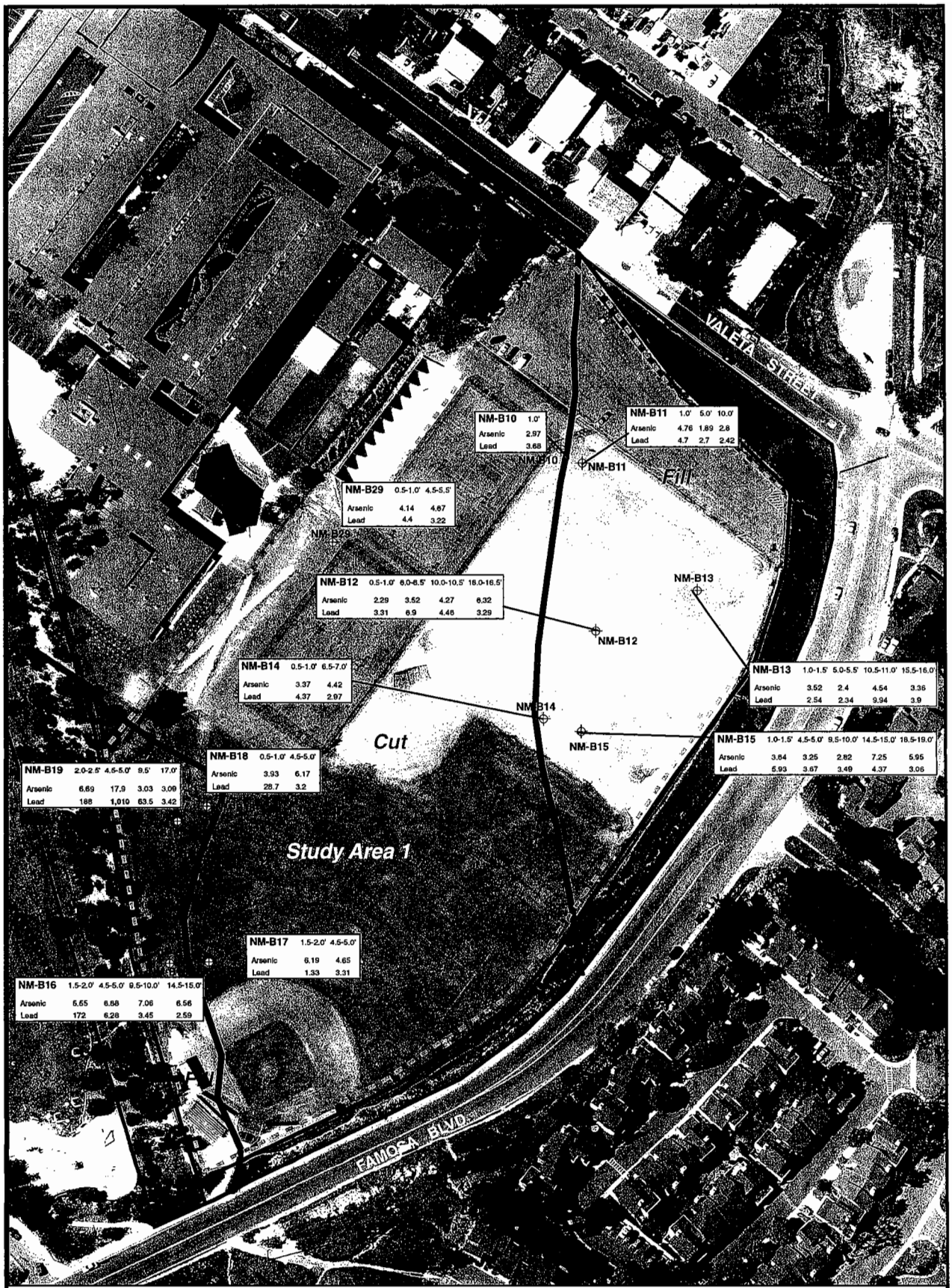
Sample ID → NM-S24
(7.65/8.81)
Arsenic results (mg/kg) — Lead results (mg/kg)

N

0 50 100

Source: Aerial Photograph April 2004-105338029_Fig11.mxd

Ninyo & Moore		STUDY AREA 1 SURFACE SAMPLE LEAD AND ARSENIC ANALYTICAL RESULTS	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	11
105338029	4/06		



Legend

NM-B29 — Continuous core boring location

Approximate sampling boundary of Study Area 1

Approximate location of study area

Approximate location of cut/fill boundary projected from grading plan (1958), Kleinfelder (2003), and current study

NOTE:
All results in milligrams per kilogram (mg/kg)

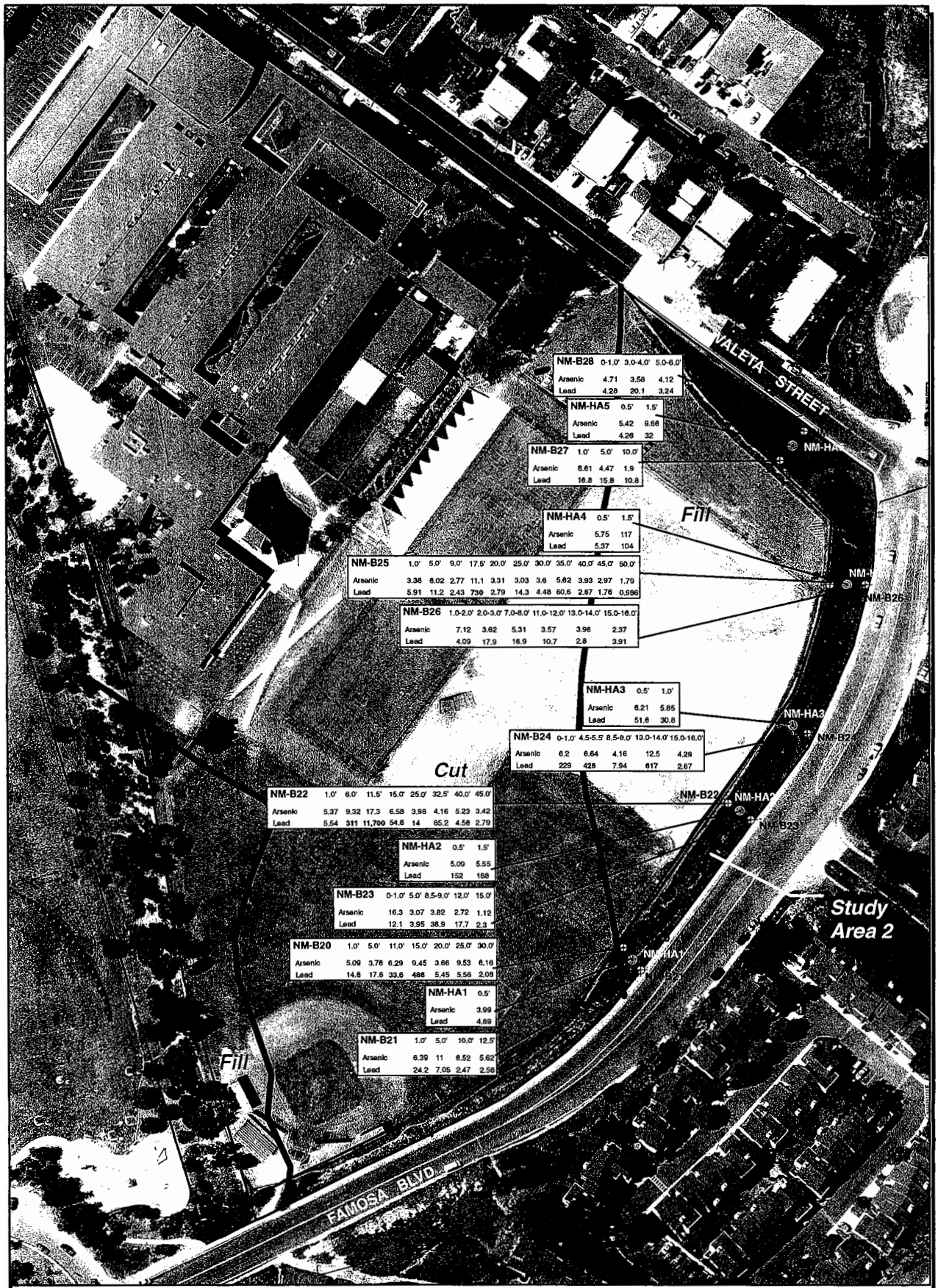
Sample ID → NM-B17 1.5-2.0' 4.5-5.0' ← Depth(Feet)
Arsenic 6.19 4.65
Lead 1.33 3.31
Analyte → ← Results (mg/kg)

N

0 50 100

Source: Aerial Photograph April 2004-105338029_Fig7.mxd

Ninyo & Moore		STUDY AREA 1 SAMPLE LEAD AND ARSENIC ANALYTICAL RESULTS	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	12
105338029	4/06		



Legend

NM-HA5 — Hand auger boring location

NM-B28 — Continuous core boring location

Approximate location of study area

Approximate location of cut/fill boundary projected from grading plan (1958), Kleinfelder (2003), and current study

NOTE:
mg/kg - milligrams per kilogram

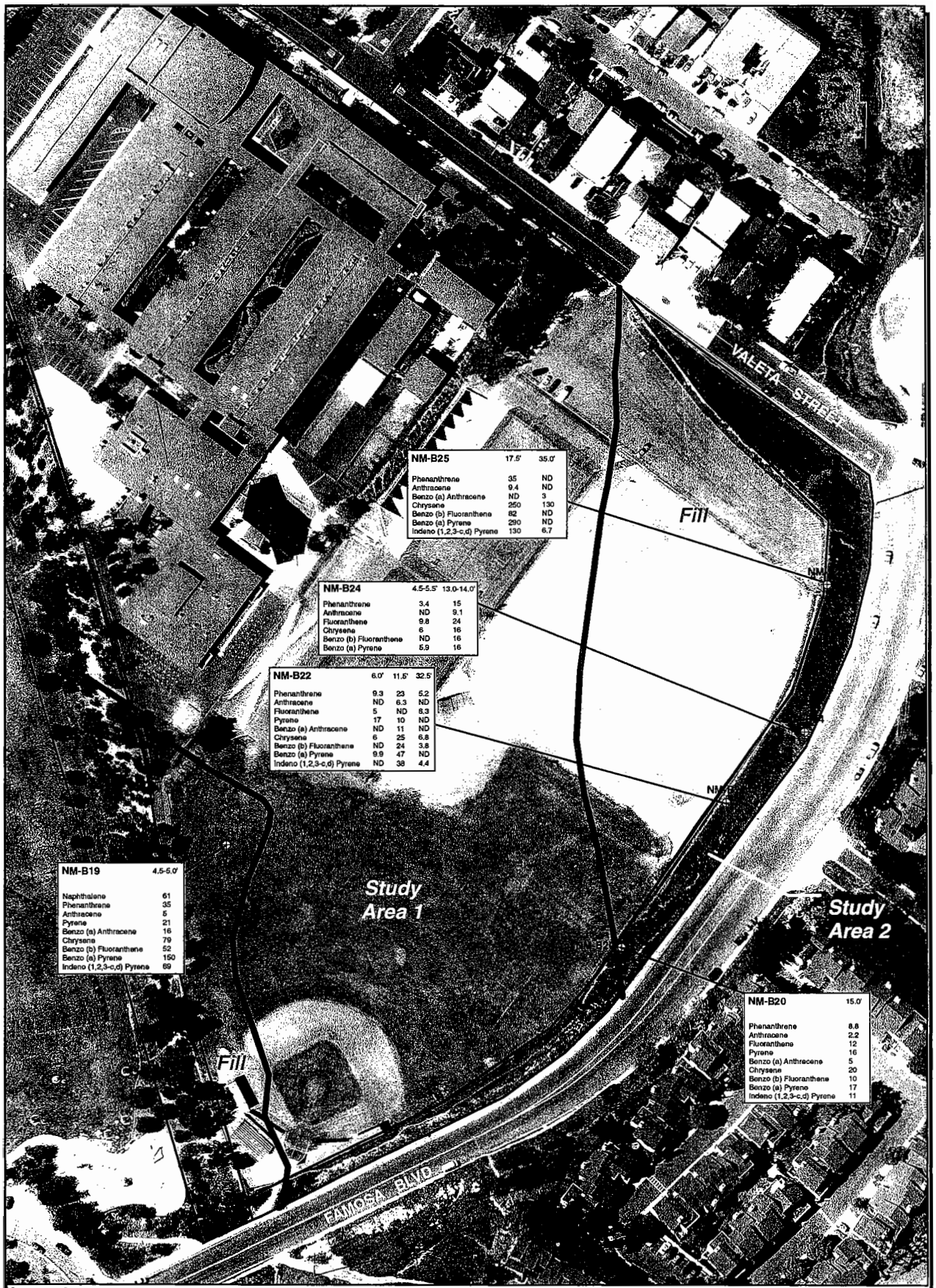
Sample ID → NM-HA3 0.5' 1.0' ← Depth(Feet)
Arsenic 6.21 5.85
Lead 51.8 30.8
Analyte → ← Results (mg/kg)

N

0 50 100

Source: Aerial Photograph April 2004-105338029_Fig13.mxd

Ninyo & Moore		STUDY AREA 2 SAMPLE LEAD AND ARSENIC ANALYTICAL RESULTS	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	13
105338029	4/06		



Legend

NM-B25 — Continuous core boring location

NOTE:
ug/kg - micrograms per kilogram
PAH - Polynuclear Aromatic Hydrocarbons
ND - not detected

Approximate location of study area

Approximate location of cut/fill boundary projected from grading plan (1958), Kleinfelder (2003), and current study

Sample ID → NM-B19 4.5-5.0' ← Depth(Feet)

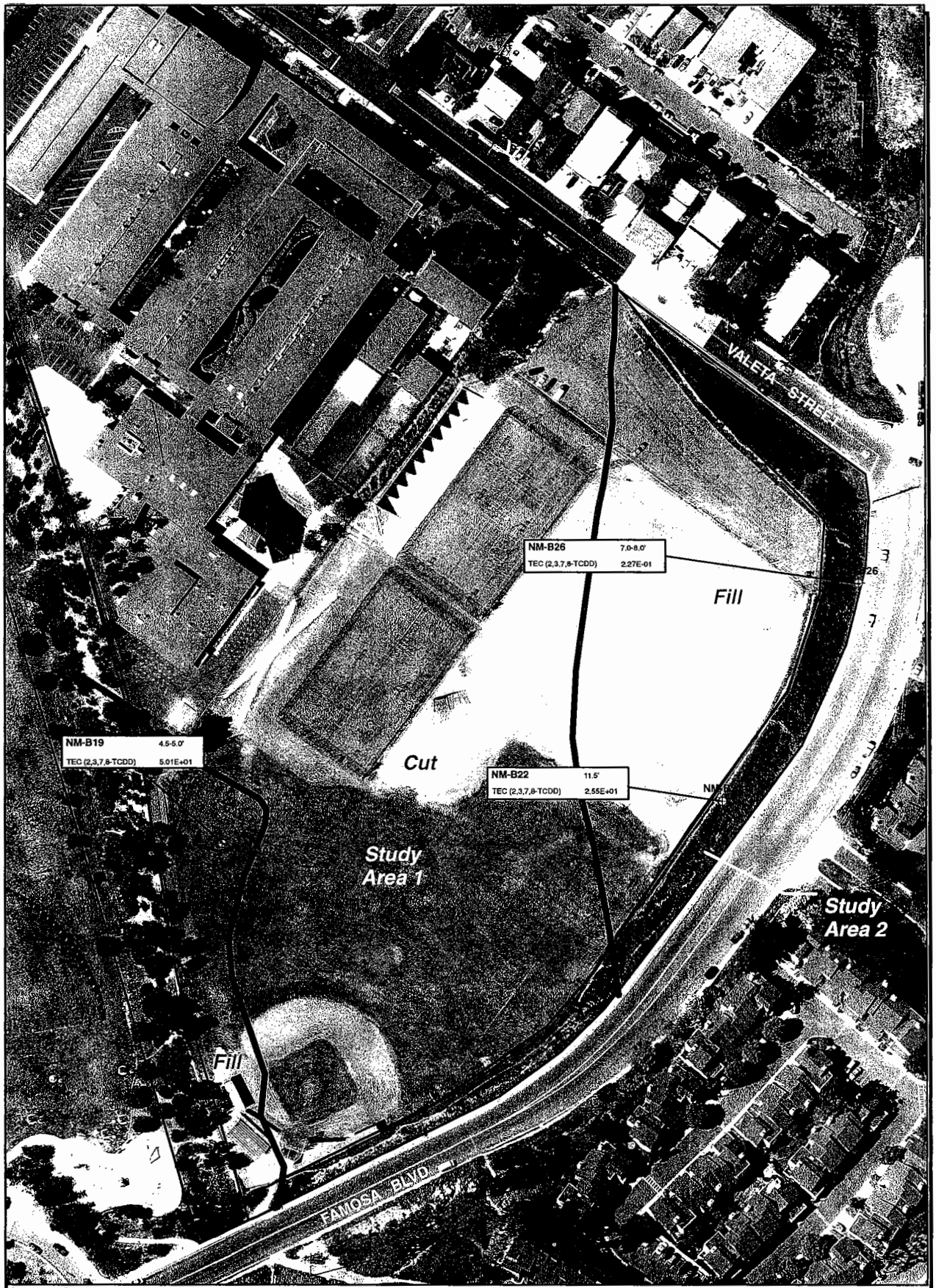
Analytes	Results (ug/kg)
Naphthalene	61
Phenanthrene	35
Anthracene	5
Pyrene	21
Benzo (a) Anthracene	16

N

0 50 100

Source: Aerial Photograph April 2004-105338029_Fig14.mxd

Ninyo & Moore		DETECTED PAH ANALYTICAL RESULTS	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	14
105338029	4/06		



Legend

NM-B26 Continuous core boring location

NOTE:
TEC - total equivalent concentration
pg/g - picograms per gram
ND - not detected

Approximate location of study area

Approximate location of cut/fill boundary projected from grading plan (1958), Kleinfelder (2003), and current study

Sample ID → NM-B19 4.5-5.0' ← Depth(Feet)
TEC (2,3,7,8-TCDD) 5.01E+01
Analytes → ← Results (ug/kg)

N

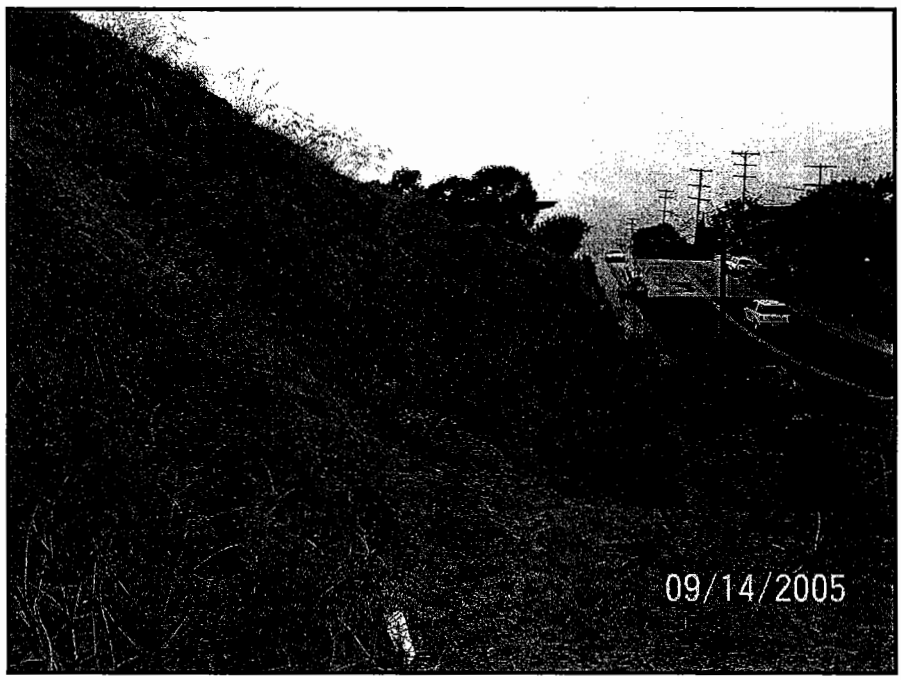
0 50 100 FEET

Source: Aerial Photograph April 2004-105338029_Fig16.mxd

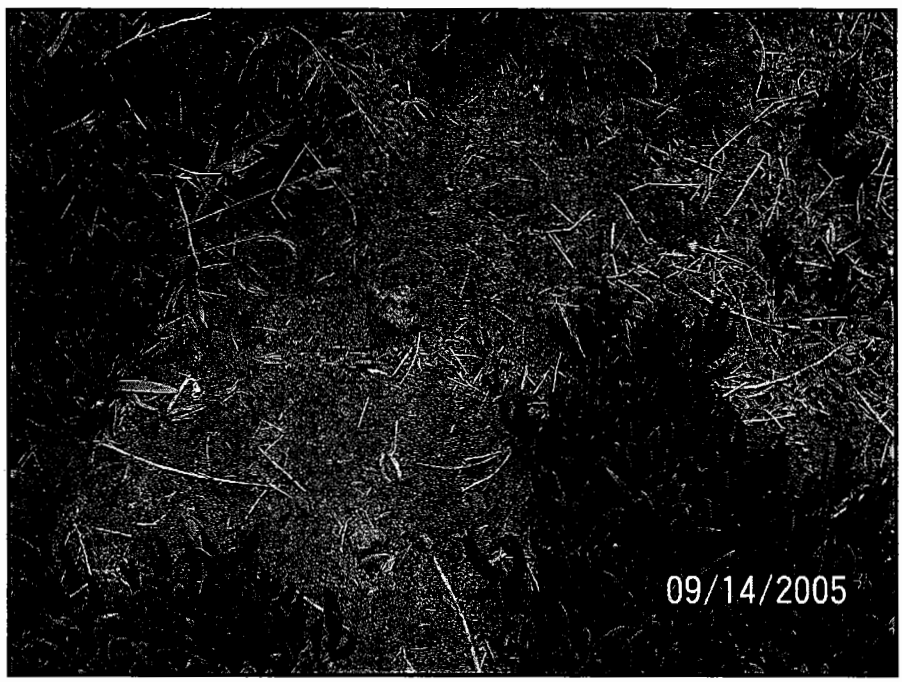
Ninyo & Moore		DIOXINS/FURANS ANALYTICAL RESULTS	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	15
105338029	4/06		

APPENDIX A

SITE PHOTOGRAPHS



Photograph No. 1: **View of slope along Valeta Street, taken during the initial site walk.**

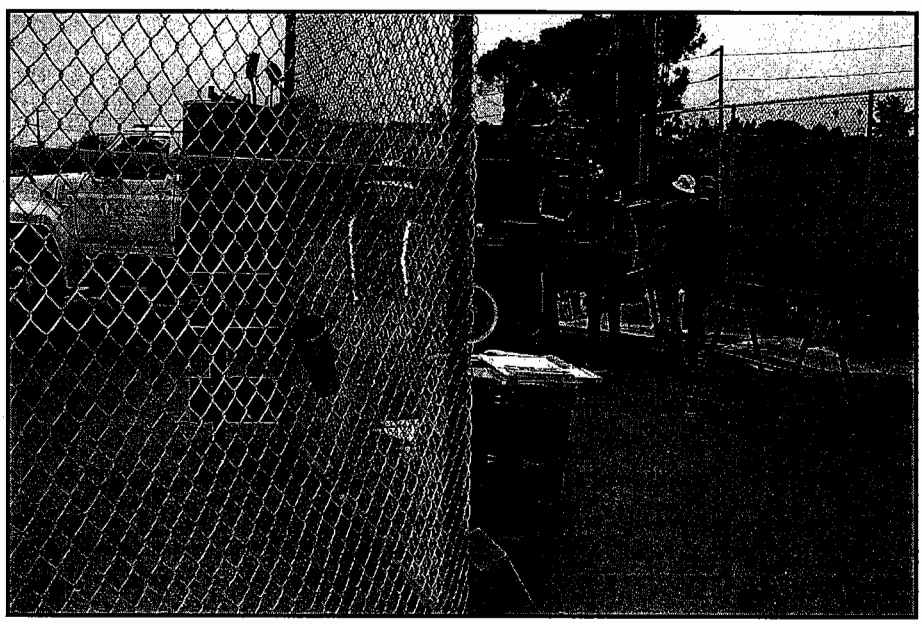


Photograph No. 2: **Slope along Famosa Boulevard, where visual observations indicated debris such as fused glass, taken during initial site walk.**

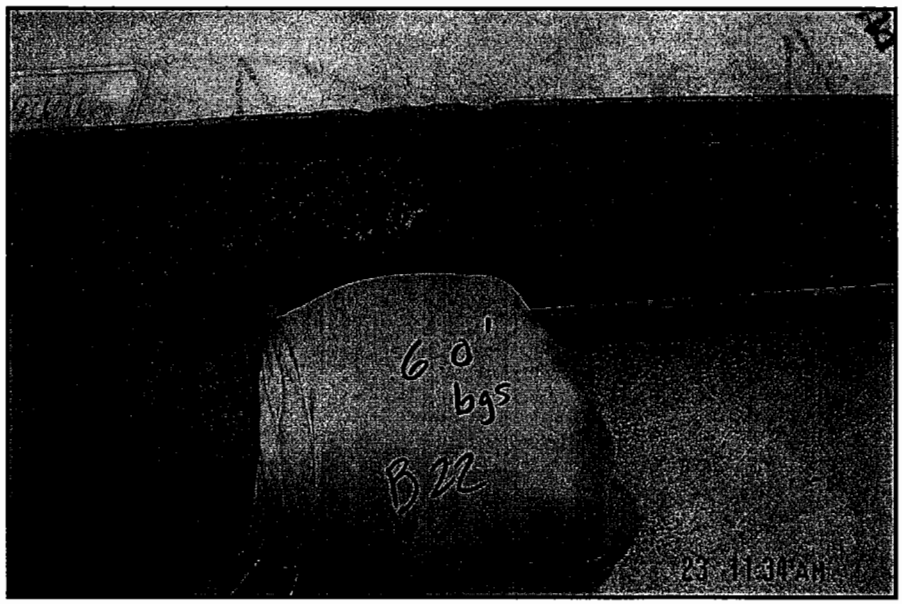
Photograph No. 3: **View of drilling activities at boring B-24.**

Photograph No. 4: **View of boring B-19 at 5.0 feet below ground surface. Visual observations indicated the presence of burn ash with glass fragments.**

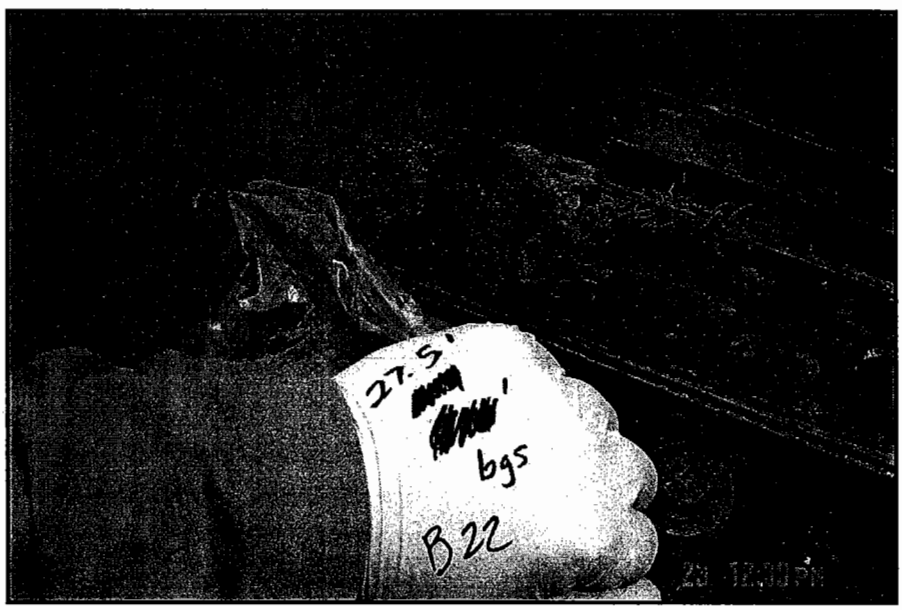
Photograph No. 5: **View of hand auger activities.**



Photograph No. 6: **View of drilling activities conducted on the athletic fields.**



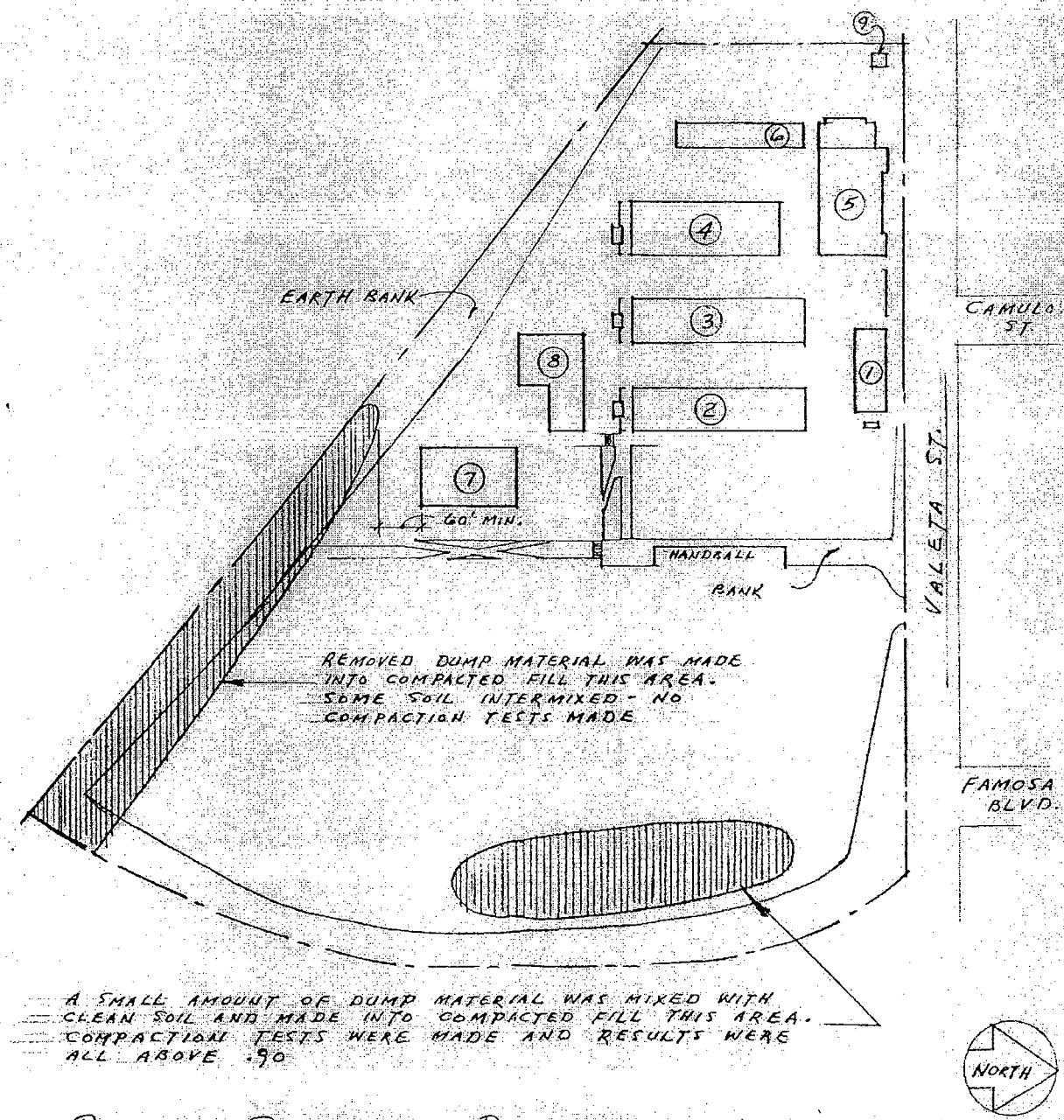
Photograph No. 7: **View of boring B-22 at 6.0 feet below ground surface. Visual observations indicated the presence of burn ash with glass fragments.**



Photograph No. 8: **View of boring B-22 at 11.5 feet below ground surface. Visual observations indicated the presence of burn ash with glass fragments.**

APPENDIX B

1958 GRADING PLAN AND HISTORICAL AERIAL PHOTOGRAPHS



PLAN SHOWING DISPOSITION OF EXCAVATED DUMP MATERIAL DESCRIBED IN CHANGE ORDER #1

CLYDE HUFBAUER • ARCHITECT
1975 FIFTH AVENUE - SAN DIEGO 1, CALIFORNIA

Clyde Hufbauer

CHANGE SHEET

Appl. # 16004

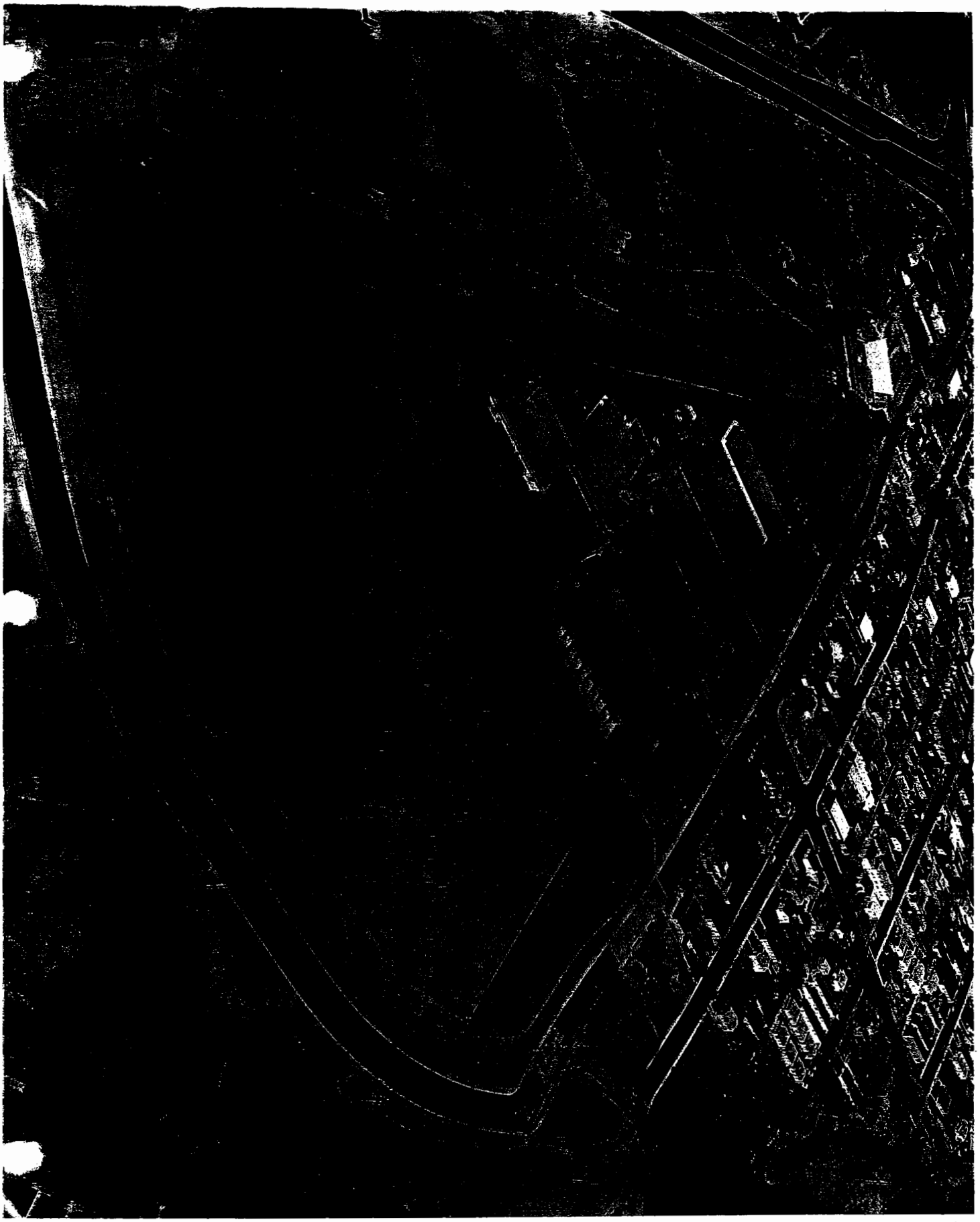
COLLIER JUNIOR HIGH SCHOOL
VALETA ST. AT CAMULOS ST., SAN DIEGO
SAN DIEGO UNIFIED SCHOOL DISTRICT

DATE FEB. 11, 1958

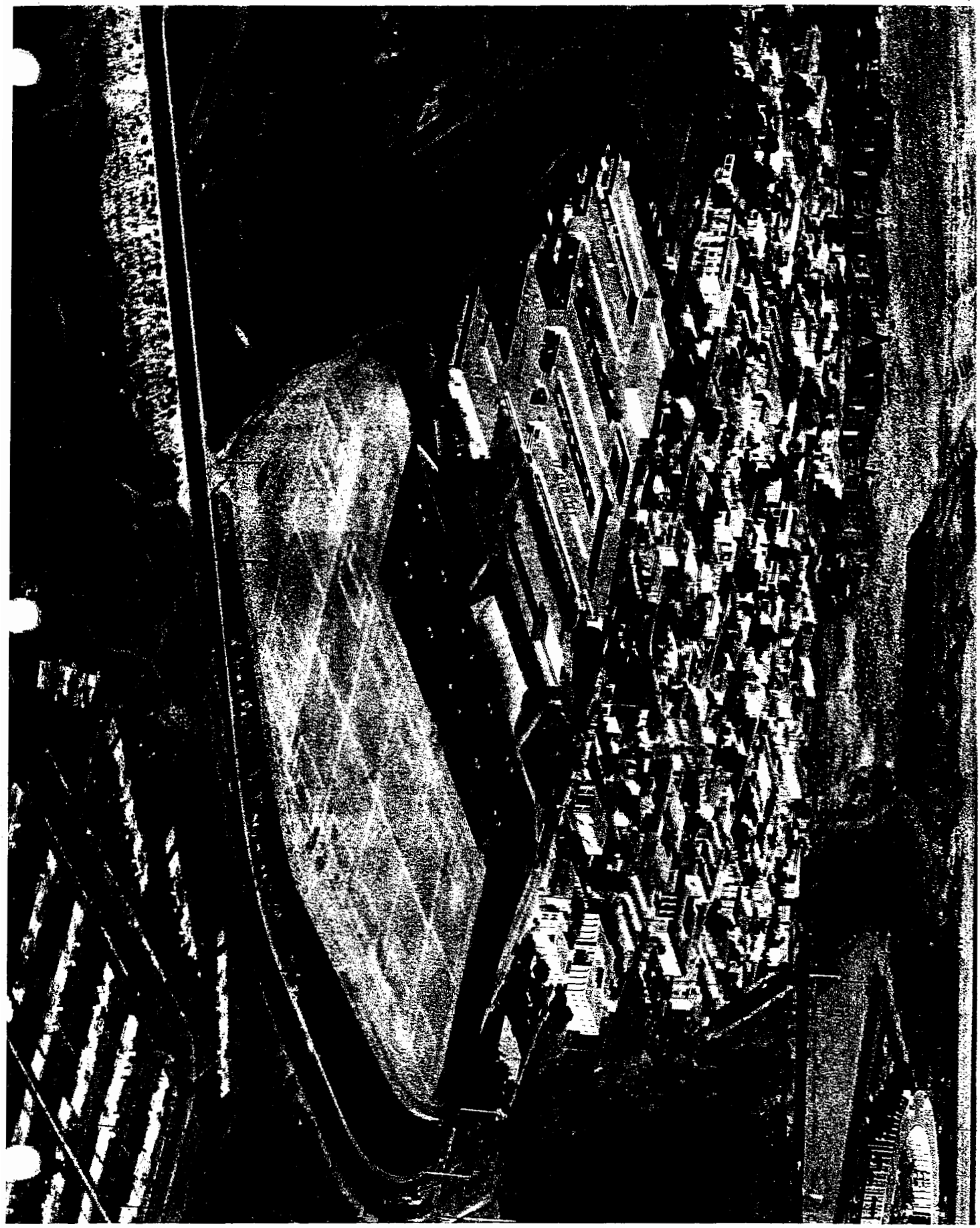
MICROFILMED
FEB 03 1986

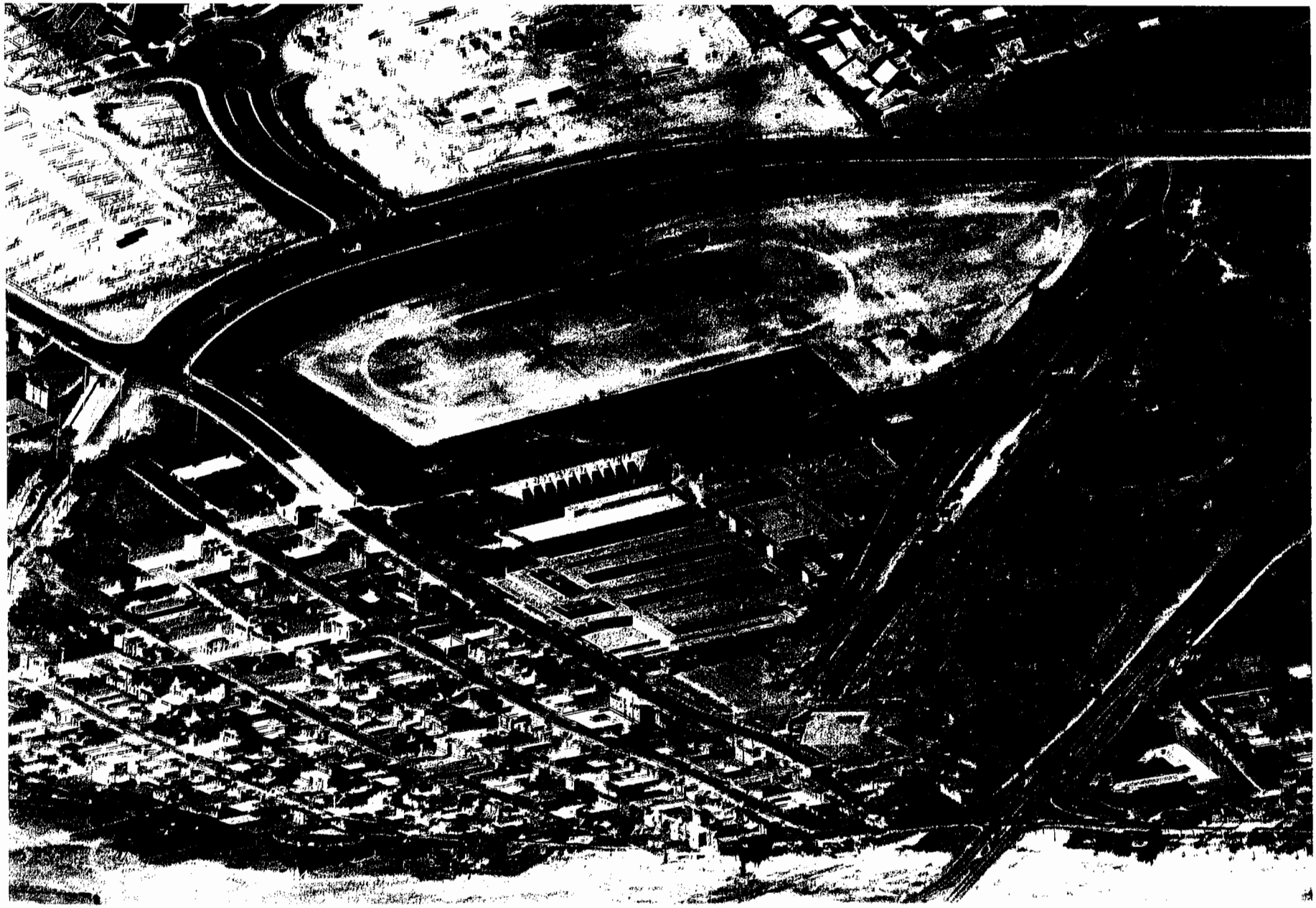
MAR.- 1956 1956-2 COLLIER PARK

SEPT. - 1957 COLLIER JR. HIGH SITE



NOV - 1963 Collier Jr.





Loc. 304

CORREIA JR. HIGH

10/88

APPENDIX C

CITY OF SAN DIEGO CORRESPONDENCE

Jim Bray

THE CITY OF SAN DIEGO

April 29, 2005

Mr. Peter Garcia
Department of Toxic Substance Control
Site Mitigation and Brownfields Reuse Program
School Property Evaluation and Clean-up Division
5796 Corporate Avenue
Cypress, CA 90630-4732

Subject: Famosa Boulevard Secondary Deposit Site (SWIS # 37-AB-0014)

Dear Mr. Garcia:

The City of San Diego Solid Waste Local Enforcement Agency (LEA) would like to thank you for your participation in the April 13, 2005 meeting to discuss the Famosa Boulevard Secondary Deposit Site (Site). Present at the meeting were representatives from the City of San Diego Environmental Services Department (ESD), City Park and Recreation Department (P&R), and the San Diego Unified School District (SDUSD), as well as LEA staff. The purpose of the meeting was to provide your agency an overview of the Site and a summary of the various investigations and proposals, with the intent of determining which regulatory agency should be the lead for future actions. At the conclusion of the meeting, the consultant to SDUSD provided you with their four Assessment Reports. A copy of the ESD investigation was also provided to you by the LEA for your agency's review.

In a follow-up telephone conversation on April 20, 2005, you advised me that Department of Toxic Substance Control (DTSC) staff has reviewed the various reports provided, conducted a site visit, and collected eight surface soil samples from the Site. You also stated that there is no evidence of an immediate risk to public health and safety. Based on DTSC's evaluation to date, it was concluded that DTSC will assume lead oversight responsibility for that portion of the burn ash at the Site on SDUSD property (i.e., Correia Junior High School), while the LEA will retain lead oversight responsibility for those portions of the burn ash at the Site on City property. As a result, any current or future SDUSD project that potentially impacts the burn ash at the Site will now need to be reviewed and approved by the DTSC before proceeding. However, any current or future City project that potentially impacts the burn ash at the Site will continue to be reviewed and approved by the LEA before proceeding.

DIVERSITY BRINGS US TOGETHER

Solid Waste Local Enforcement Agency (LEA) • Development Services
1010 Second Avenue, Suite 600, MS 606L • San Diego, CA 92101-4998
Tel (619) 533-3688 Fax (619) 533-3689

As we've discussed, it is very important that our agencies work closely together to coordinate compliance objectives for the Site. It is also vital that the City (ESD, P&R, etc.) and the SDUSD communicate effectively to ensure the long-term integrity and maintenance of the Site. The LEA is committed to working with all involved parties to promote the timely, comprehensive, cost-effective, and environmentally sound resolution of the issues.

Please call me at (619) 533-3695 or Rebecca LaFreniere at (619) 533-3694, if you have any questions regarding the Site or this letter.

Again, thank you for your participation and assistance in this matter.

Sincerely,

Victoria L. Gallagher, REHS, MPH
Program Manager
Solid Waste LEA

cc: John Odermatt, RWQCB
Glen Gundert, SDUSD
Daryl Hernandez, SDUSD
Glenn Young, CIWMB
Brad Penick, CIWMB
Kelly Broughton, DSD/LDR
Sylvia Castillo, ESD
David Wells, ESD
Mary Ngai, P&R
Michael Neumeyer, LEA City Attorney

THE CITY OF SAN DIEGO

March 7, 2005

Mr. Glen Gundert
San Diego Unified School District
Facilities Management
4860 Ruffner Street
San Diego, CA 92111-1522

Ms. Sylvia Castillo
City of San Diego
Environmental Services Department,
9601 Ridgehaven Court, MS: 1103A
San Diego, CA 92123

Subject: Compliance Plan (Burn Ash Management Plan), Famosa Secondary Deposit Site

Dear Mr. Gundert and Ms. Castillo:

The purpose of this letter is to provide comments on the proposed Compliance Plan (Burn Ash Management Plan) submitted by San Diego Unified School District (SDUSD), and to request additional information from both SDUSD and the City of San Diego Environmental Services Department (City) on the Famosa Secondary Deposit burn ash site.

The City of San Diego and the SDUSD were notified on October 9, 2003, that the slopes between Cleator Park and Correia Middle School and Famosa Boulevard and Correia Middle School had exposed solid waste and are in violation of California Code of Regulation Title 27 (27CCR) Sections 21140 Final Cover, 21135 Site Security and 20830 Drainage and Erosion Control. Both parties were directed to submit a compliance plan and implementation schedule addressing the violation by December 1, 2003, and a postclosure maintenance plan by February 2, 2004. In addition, verification of property ownership and identified property boundary lines was requested by November 15, 2003.

Property ownership was in dispute and eventually resolved identifying both parties as having partial ownership of the slopes as acknowledged in a September 14, 2004, City of San Diego Environmental Services Department (City) correspondence to San Diego City Schools.

Independent of the property ownership dispute, SDUSD proposed a slope stabilization/retaining wall with a maintenance plan to address the identified violations on the slope between Famosa Boulevard and Correia Middle School.

The City of San Diego Solid Waste Local Enforcement Agency (LEA) has reviewed the following documents associated with the compliance proposal at the Correia Middle School from the SDUSD: *Burn Ash Management Plan, Correia Middle School, 4302 Valeta Street, San Diego, California* dated November 23, 2004 and a response matrix to the LEA comment letter dated October 1, 2004. The Burn Ash Management Plan includes the Postclosure Maintenance Plan, Community Health and Safety Plan and Boyle Engineering Corporation Design Plans. Concurrently, previous documents submitted to the LEA by SDUSD include: *Report of Preliminary Site Assessment of Surface Soils, Correia Middle School,* dated March 10, 2003, and *Site Assessment Report, Correia Middle School*, dated July 11, 2003. The City of San Diego ESD submitted *Cleator Community Park Soil Sampling and Analysis Summary* dated May 9, 2003.

The LEA has completed its review of the SDUSD Compliance Proposal. While we can support the project concept as described in the Plan for the slopes along Famosa Boulevard and Valeta Street, the following concerns about the burn ash site must be satisfactorily addressed prior to the project moving forward:

1. One of the conclusions of the *Report of Preliminary Site Assessment of Surface Soils (Preliminary Report*) was: "Although elevated concentrations of arsenic and lead were detected, the surface soil conditions do not appear to present an eminent threat to human health or the environment. However, further assessment of these areas is recommended." The *Preliminary Report* goes on to recommend that data from subsequent subsurface soil samples should be used to conduct a human health risk assessment. In the subsequent *Site Assessment Report*, subsurface soil samples also revealed the presence of burn ash, but no conclusion about potential health risks were made. Please provide a health risk assessment for the site using all of the data collected to date and any additional sampling that may be required in order to yield a valid conclusion.

2. One SDUSD surface soil sample (#S16) showed lead concentration of 2,650 mg/kg, which exceeds the Department of Toxic Substance Control (DTSC) Department's screening criteria for lead in soil at school sites of 255 mg/kg. All of the other 19 surface soil samples were below the screening criteria for lead. In addition, the 27 surface soil samples analyzed by the City were below the screening criteria for lead. Please address the significance of sample #S16 with respect to potential health risks. As discussed in the past by SDUSD, the LEA is in agreement that additional sampling in the immediate area of #S16 is warranted.

3. The SDUSD surface soil sampling indicated levels of arsenic above the EPA residential Preliminary Remediation Goal (rPRG) for arsenic, which is 0.39 mg/kg, in each of the twenty samples analyzed, although only 2 samples exceeded the maximum arsenic

reported for the background samples. The City surface soil sampling indicated levels of arsenic above the EPA rPRG for arsenic in 11 samples analyzed and was consistent with or below SDUSD background levels of arsenic. Please provide additional information about the background levels of arsenic in the area of the site, including a copy of the references listed in the report.

4. The *Preliminary Report* Table 1 identifies elevated levels of mercury however there is no discussion in the body of the report. Please provide a discussion of the significance of the elevated mercury levels that are shown in Table 1.

5. The *Site Assessment Report* identifies Dioxins, specifically 2,3,7,8-TCDD, in 5 of 6 soils samples. Please provide a discussion of the significance of the presence of Dioxins.

6. It is evident that burn ash is present in two discreet areas on SDUSD and City property. Based on all boring logs generated during the past activities, provide a site plan identifying thickness of cover soils over burn ash materials for entire site.

The following are detailed comments on the Burn Ash Management Plan:

Text:

1. Page 3 of 19, Ninth line from top of page
   Please correct typo "materialsw".

2. Page 10 of 19, First bullet
   Please correct typo "regarding" to "regrading".

3. Page 13 of 19, Section 3.1.7.3, third line
   Please correct typo "3.61.7.2" to "3.1.7.2".

4. Page 12 of 19
   Within 60 days of completion of construction/improvement activities, provide As-Built construction documents and slope stability analysis report referenced on this page.

Appendix A

1. Page ii of v, signature page
   Please provide appropriate signatures.

2. Page iii of v, Table of Contents
   Section 1.5 page number is in ERROR. Please correct formula. It also appears that the text of the plan does not contain a section 1.5. Revise accordingly.

3. Page 5 of 29, Section 2.3, lines 1 and 2
   Please correct typo "CAR" with "CFR".

Appendix B

1. Sheet 2 of 20, Grading and Geotechnical Specification Number 1
   Update reference to Burn Ash Management Plan with current version. Sheet 2 currently references an earlier version dated July 19, 2004.

On February 28, 2005, SDUSD forwarded a brief outline of a City proposal to address the condition of the slope between Cleator Community Park and Correia Middle School that included installation of jute matting and posting of "Keep Off Slopes" signs. The LEA has not received this proposal directly from the City and requests a meeting with the City and SDUSD to discuss the proposal.

The LEA has consulted with California Integrated Waste Management Board (CIWMB) staff regarding this site and in accordance with the *Protocol For Burn Dump Site Investigation and Characterization* guidance document dated June 30, 2003, will request a consultation with the California Department of Toxic Substances Control (DTSC).

Should you have any questions, please contact me at (619) 533-3695.

Sincerely,

Victoria L. Gallagher, REHS, MPH
Program Manager
Local Enforcement Agency

cc: Glenn Young, CIWMB
Peter Garcia, DTSC
Brian McDaniels, RWQCB
David Wells, City of San Diego ESD - Environmental Protection Division, MS 1103A
Andy Guyer, Area Manager, City of San Diego Park and Recreation Department, MS 32
Jim Bray, San Diego Unified School District
Daryl Hernandez, Essential Management Services
Debra Bevier, City Attorney

APPENDIX D

BORING PERMIT AND TRAFFIC CONTROL PERMIT

DP 12/19

PERMIT #LMON103639
A.P.N. #449-110-03-00
EST #H00132

COUNTY OF SAN DIEGO
DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION

RECEIVED
DEC 19 2005
NINYO & MOORE

SOIL BORING CONSTRUCTION PERMIT

SITE NAME: CORREIA MIDDLE SCHOOL

SITE ADDRESS: 4302 VALETA ST, SAN DIEGO, CA 92107

PERMIT FOR: **9 BORINGS**

PERMIT APPROVAL DATE: DECEMBER 15, 2005

PERMIT EXPIRES ON: APRIL 14, 2006

RESPONSIBLE PARTY: SAN DIEGO UNIFIED SCHOOL DISTRICT

PERMIT CONDITIONS:

1. **Contact Rebecca LaFreniere with the City of San Diego Solid Waste Enforcement Agency at (619) 533-3694 prior to commencing drilling activities.**

2. All borings must be sealed from the bottom of the boring to the ground surface with an approved sealing material as specified in California Well Standards Bulletin 74-90, Part III, Section 19.D. **Drill cuttings are not an acceptable fill material.**

3. Placement of any sealing material at a depth greater than 30 feet must be done using the tremie method.

4. All borings must be destroyed within 24 hours of drilling.

5. All water and soil resulting from the activities covered by this permit must be managed, stored and disposed of as specified in the SAM Manual in Section 5, E- 4. (**http://www.sdcounty.ca.gov/deh/lwq/sam/manual_guidelines.html**). In addition, drill cuttings must be properly handled and disposed in compliance with the Stormwater Best Management Practices of the local jurisdiction.

6. **This site is known to have had a release of hazardous substances. As such, all soil and water must undergo a waste determination for proper management and disposal. The waste determination may require laboratory analysis for contaminants known or suspected to be present on site.**

7. Within 60 days of completing work, submit a well construction report, including all well and/or boring logs and laboratory data to the Well Permit Desk. This report must include all items required by the SAM Manual, Section 5, Pages 6 & 7.

8. This office must be given 48-hour notice of any drilling activity on this site and advanced notification of drilling cancellation. Please contact the Well Permit Desk at 338-2339.

APPROVED BY: M Crystal DATE: 12/15/2005
MARISUE CRYSTAL

NOTIFIED: 12/15/05 msc

DEH:SAM-9075 (4/03)

COUNTY OF SAN DIEGO

DEPARTMENT OF ENVIRONMENTAL HEALTH
1255 Imperial Avenue, 3rd Floor
San Diego, CA 92101
(619)338-2228

RECEIPT NUMBER: 05-95636
Cashier: MALCANTA

APN: 449-110-03-00
DATE ISSUED: 14-DEC-2005
PERMIT: LMON T103639
SCOPE: SOIL BORING
SITE ADDRESS: 4302 VALETA ST
SUBDIVISION:
CITY: San Diego, CA 92107

PARCEL OWNER: SAN DIEGO UNIFIED SCHOOL DISTRI
ADDRESS: PUBLIC AGENCY
CITY/STATE/ZIP: , 00000

PERMIT OWNER:
ADDRESS:
CITY/STATE/ZIP:

Fees Calculated 12 Months Back

Date	Fee Code	Description	Paid to Date	This Receipt	Balance Due
13-DEC-2005	6LW26--EHO	SOIL BORING	$0.00	$185.00	$0.00
13-DEC-2005	6LW26-ZCRO	FISCAL YEAR 05/06 ONE-TIME 10% CREDIT	$0.00	-$18.50	$0.00
13-DEC-2005	6LWAB--EHO	ADDITIONAL SOIL BORING	$0.00	$400.00	$0.00
13-DEC-2005	6LWAB-ZCRO	FISCAL YEAR 05/06 ONE-TIME 10% CREDIT	$0.00	-$40.00	$0.00
		Totals:		$526.50	$0.00

Payment Code	Description	Amount
CHECK	95540	$526.50

Tendered:	$526.50
Change:	$0.00
Balance Due:	$0.00

work to begin 12/17. Please expedite if possible

RECEIVED
2005 DEC 9 AM 8:42
MAILROOM

PERMIT APPLICATION GROUNDWATER AND VADOSE MONITORING WELLS AND EXPLORATORY OR TEST BORINGS

OFFICE USE ONLY
PERMIT LMON # 103639
SAM CASE # H00132 closed
DATE RECEIVED: 12-9-05
FEE PAID: $526.50
CHECK # 95540

A. RESPONSIBLE PARTY SAN DIEGO UNIFIED SCHOOL DISTRICT Phone 858-573-5733
(The person, persons, or company responsible for the construction, maintenance, and destruction of the proposed borings and/or wells.)
Mailing Address 4860 Ruffner Street City SAN DIEGO State CA Zip 92111
Contact Person GLEN GUNDERT Phone 858-573-5733 Ext. ____ Fax ____

B. SITE ASSESSMENT PROJECT NUMBER – IF APPLICABLE # ____

C. CONSULTING FIRM Nowyo & MOORE
Mailing Address 5710 Ruffin Road City SAN Diego State CA Zip 92123
Registered Professional SREE GOPINATH Registration # 57987 (~~PG~~) RCE
Contact Person LAUREN HEDGES Phone 858-576-1000 Ext. 858-576-1000 Fax 858-576-9600

D. DRILLING COMPANY TRI-COUNTY DRILLING, INC. C57# 547737
Contact Name Tim Duddie
Mailing Address 9631 Candida Street City San Diego State CA Zip 92126-
Phone 858-271-0099 Fax 858-271-0233

E. CONSTRUCTION INFORMATION

TYPE OF WELLS/ BORINGS TO BE CONSTRUCTED

	#
☐ Groundwater	___
☐ Vadose	___
☒ Boring	9
☐ Other	___

NUMBER OF WELLS TO BE DESTROYED

☐ ___

MATERIALS TO BE USED

CASING
Not Applicable X
Type ____
Gauge ____
Diameter ____
Well Screen Size ____
Filter Pack ____

SEAL/BORING BACKFILL
☐ Neat Cement
☒ Cement & Bentonite
☐ Sand-Cement
☐ Bentonite
☐ Other
Borehole diameter 8"

Drilling Method
☒ Auger
☐ Mud Rotary
☐ Percussion
☐ Air Rotary
☐ Other

PROPOSED CONSTRUCTION
Estimated groundwater depth: 130 ft.
Estimated depth of boring 30 ft.

Concrete surface seal	0 to 3
Annular seal	____ to ____
Bentonite transition seal	3 to 30
Filter Pack	____ to ____
Perforation	____ to ____

NOTE:
Attach a well construction diagram for wells with multiple completions

I agree to comply with the requirements of the current Site Assessment and Mitigation Manual, and with all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring construction and destruction.

DRILLER'S SIGNATURE [signature] DATE 12/7/05

Within 60 days of completion, I will furnish the Monitoring Well Permit Desk with a complete and accurate well/boring log. I will certify the design and construction or destruction of the well/borings in accordance with the permit application.

PG/RCE SIGNATURE [signature] DATE 12/7/05

3475

F. SITE INFORMATION

1. **ASSESSOR'S PARCEL NUMBER** 44 91100 300
   Site Name Correia Middle School
   Site Address 4302 Valeta Street City San Diego Zip 92107

   PROPERTY OWNER SAN DIEGO UNIFIED SCHOOL DISTRICT
   Phone 858-573-5733 Ext. Fax
   Mailing Address 4860 Ruffner St City San Diego State CA Zip 92111

   NUMBER OF WELLS 9 **TYPE OF WELLS** Soil Borings

2. **ASSESSOR'S PARCEL NUMBER** _____
   Site Name _____
   Site Address _____ City _____ Zip _____

   PROPERTY OWNER _____
   Phone _____ Ext. _____ Fax _____
   Mailing Address _____ City _____ State _____ Zip _____

   NUMBER OF WELLS _____ **TYPE OF WELLS** _____

3. **ASSESSOR'S PARCEL NUMBER** _____
   Site Name _____
   Site Address _____ City _____ Zip _____

   PROPERTY OWNER _____
   Phone _____ Ext. _____ Fax _____
   Mailing Address _____ City _____ State _____ Zip _____

   NUMBER OF WELLS _____ **TYPE OF WELLS** _____

4. **ASSESSOR'S PARCEL NUMBER** _____
   Site Name _____
   Site Address _____ City _____ Zip _____

   PROPERTY OWNER _____
   Phone _____ Ext. _____ Fax _____
   Mailing Address _____ City _____ State _____ Zip _____

   NUMBER OF WELLS _____ **TYPE OF WELLS** _____

Permit Fees In Effect for July 1, 2005 - June 30, 2006

G. FEES (in effect beginning July 1, 2005, through June 30, 2006)

The County Board of Supervisors authorized a *10% credit, for the Fiscal Year ending June 30, 2006,* to be applied to the Department of Environmental Health customers. This credit is being provided to qualified fee-based programs that have contributed to the cost reduction/cost containment/cost avoidance efforts initiated by the Department. This *fee adjustment, for the Fiscal Year ending June 30, 2006,* is applicable to fees and permits due and/or obtained during this period. The 10% is not applicable to enforcement fees or fees relating to non-compliance of permit regulations.

ACTIVITY	FEE SCHEDULE FEE -- ONE-TIME FISCAL YEAR 10% CREDIT	AMOUNT
Permit for Well Installations Only (Groundwater Monitoring Wells, Vadose, Vapor Extraction Wells)	**$185.00 for the first monitoring well** **$185.00 – 10% <$18.50> =**	1 x $166.50 $_____
Permit for Well Maintenance Inspection **(Valid for three years)**	**$100.00 for first well maintenance inspection** **$100.00 – 10% <$10.00> =**	1 x $ 90.00 $_____
Each Additional New Well	**$160.00 for each additional well installation** **$160.00 – 10% <$16.00> =** **$ 30.00 for each additional well maintenance inspection** **$ 30.00 – 10% <$ 3.00> =**	_____ x $144.00 $_____ _____ x $ 27.00 $_____
Permit for Borings Only *(CPT's, Hydropunch, Geoprobes, Temporary Well Points, etc.)*	**$185.00 for the first boring** **$185.00 – 10% <$18.50> =** **$ 50.00 for each additional boring** **$ 50.00 – 10% <$ 5.00> =**	1 x $166.50 $ 166.50 8 x $ 45.00 $ 360.00
Permit for **Well Destructions Only**	**$185.00 for the first destruction** **$185.00 – 10% <$18.50> =** **$120.00 for each additional destruction** **$120.00 – 10% <$12.00> =**	1 x $166.50 $_____ _____ x $108.00 $_____
Permit for any Combination of Well Installations, Borings, & Destructions ***(except UST backfill permit)*** **Permit for any Combination of Well Installations, Borings, & Destructions** ***(except UST backfill permit)***	**The first activity will be $185.00.** **$185.00 – 10% <$18.50> =** **Additional activities will be as follows:** **$160.00 for each additional well** **$160.00 – 10% <$16.00> =** **$100.00 for first well maintenance inspection** **$100.00 – 10% <$10.00> =** **$ 30.00 for each additional well maintenance inspection** **$ 30.00 – 10% <$ 3.00> =** **$ 50.00 for each additional boring** **$ 50.00 – 10% <$ 5.00> =** **$120.00 for each well destruction** **$120.00 – 10% <$12.00> =**	1 x $166.50 $_____ _____ x $144.00 $_____ 1 x $ 90.00$_____ _____ x $ 27.00 $_____ _____ x $ 45.00 $_____ _____ x $108.00 $_____
	TOTAL COST OF PERMIT	$ 526.50
Permit for Underground Storage Tank Monitoring System in Backfill *(i.e. Enhanced Leak Detection)*	(Flat Fee) **$320.00 – 10% <$32.00> =**	**$288.00**

H. QUESTIONNAIRE: Please answer all applicable questions completely. ***For well destructions, complete only #1 below and submit any required supportive documentation.***

1. If wells are to be destroyed, provide a description of method of destruction: Backfill by Tremie method with hydrated bentonite from 30' bgs (or total depth) to 0.5' bgs. From 0.5' bgs with Quikcrete concrete as surface completion.
2. What is the purpose of the well/boring investigation?

   ☒ a. Part of an ongoing site assessment case in which DEH or another government regulator is the lead agency. (for DTSC)

   ☐ b. Part of a Phase I investigation for property ownership transfer or: _____

   ☐ c. Geotechnical investigation for proposed construction, land stabilization or:

   ☐ d. Other: _____

3. What procedures will be used to prevent the well/boring from providing an avenue to contamination during construction?
   Decontaminate before well construction (Augers & samplers/all downhole items)
4. What field procedures will be utilized to determine if contamination exists?
   PID readings @ borehole & head space at sample locations
5. What procedures will be used to determine whether samples will be sent for laboratory testing or archiving?
   Soil classification/stratification and pid testing
6. What constituents will be monitored and tested (Include EPA Laboratory Test Methods to be used)?
   Lead & Arsenic by 6010B, title 22 metals by 6010B/7471A, PAH by 8270C & Dioxins by 8290.
7. How will samples be transported and preserved? Preserved by 4°C temp. control, shipped by laboratory supplied courier.
8. What sampling methods will be used? Continuous coring with split spoon sampler
9. Are you proposing a variation from the methods and/or procedures presented in the requirements for the construction or destruction of Vadose and Groundwater Monitoring Wells (Current SAM Manual Requirements)? If yes, specify these variations and include a well construction diagram and all required supporting documentation. Refer to the SAM Manual Appendix B for monitoring well guidelines (http://www/sdcounty.ca.gov/deh/lwq/sam/monitoring_well.html). :Yes ☐ No ☒

   _____

10. Are you proposing a variation in drilling and destruction of soil borings from the methods and/or procedures specified in the current SAM manual? If yes, specify these variations and *include a destruction diagram.*
    Yes ☐ No ☒

    _____

11. What procedures will be used to ensure that the drilling equipment will introduce no contamination?
    Steam clean augers before downhole drilling, triple decon on sampling equipment
12. What methods will be used to clean sampling equipment? Triple decon.; scrub brush with liquinox soap, tap water rinse and final rinse with distilled water.
13. What cleaning method will be used to clean casing and screen prior to installation? N/A.

    _____

County of San Diego

GARY W. ERBECK
DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
LAND AND WATER QUALITY DIVISION
P.O. BOX 129261, SAN DIEGO, CA 92112-9261
619-338-2222/FAX 619-338-2315/1-800-253-9933
www.sdcounty.ca.gov/deh/lwq

RICHARD HAAS
ASSISTANT DIRECTOR

RECEIVED
2005 DEC 12 AM 11 57
MAILROOM

PROPERTY OWNER RESPONSIBILITY ACKNOWLEDGEMENT

Proposed locations for subsurface work:

Property Address: 4302 Valeta St, San Diego 92107

Assessor's Parcel Number (APN): 449-110-03-00

I, ~~Glen Gundert~~ William Dos Santos, owner of the property/properties listed above, give my permission to Ninyo & Moore (consulting company, contractor) to conduct the following work at the locations stated above.

☐ Install _____ monitoring wells ☐ Destroy _____ monitoring wells ☒ Drill 9 soil borings

The person who causes to have a monitoring well installed or an existing well destroyed on this property is defined as the *Responsible Party*. San Diego County Code, Section 67.424, states that: "Monitoring wells shall be maintained to meet construction or destruction standards. If a monitoring well does not meet construction or destruction standards, the *Responsible Party* must repair, reconstruct or destroy the monitoring well so it meets the standards. The property owner, if different than the *Responsible Party*, must take the necessary actions to repair, reconstruct or destroy the monitoring well so it meets the standards if the *Responsible Party* does not complete the necessary actions."

A soil boring is used specifically to sample soil and, because there are construction and destruction standards, is included in the definition of a monitoring well even though no maintenance is required. These standards are outlined in the County of San Diego Site Assessment and Mitigation (SAM) Manual and the State of California Well Standards Bulletin 74-90.

I understand that Sree Gopinath (registered professional) of Ninyo & Moore (consulting company) and an authorized signer for Tri-County Drilling (drilling company) have submitted a signed application to the Department of Environmental Health in which they have agreed to complete the above-stated work according the requirements of the current SAM Manual, all ordinances and laws of the County of San Diego and the State of California pertaining to well/boring construction and destruction.

I also understand that if either the registered professional and/or the licensed drilling company should fail in their responsibilities as defined in San Diego County Code, Section 67.424, I, as the property owner, must take the necessary actions to repair, reconstruct or destroy the monitoring well so it meets the standards if the Responsible Party does not complete the necessary actions.

The scope of work covered by this Acknowledgement will expire one year from the date of the property owner's signature below. If an extension of time beyond one year is required to complete the proposed drilling activities or additional work is proposed, a new Property Owner Responsibility Agreement will be required.

Property Owner Signature: [signature] Date: 12/9/05

Print Name: WILLIAM A. DOS SANTOS Title: DIRECTOR, M&O

Company: SAN DIEGO UNIFIED SCHOOL DISTRICT

Mailing Address: 4860 RUFFNER ST., SAN DIEGO, CA 92111

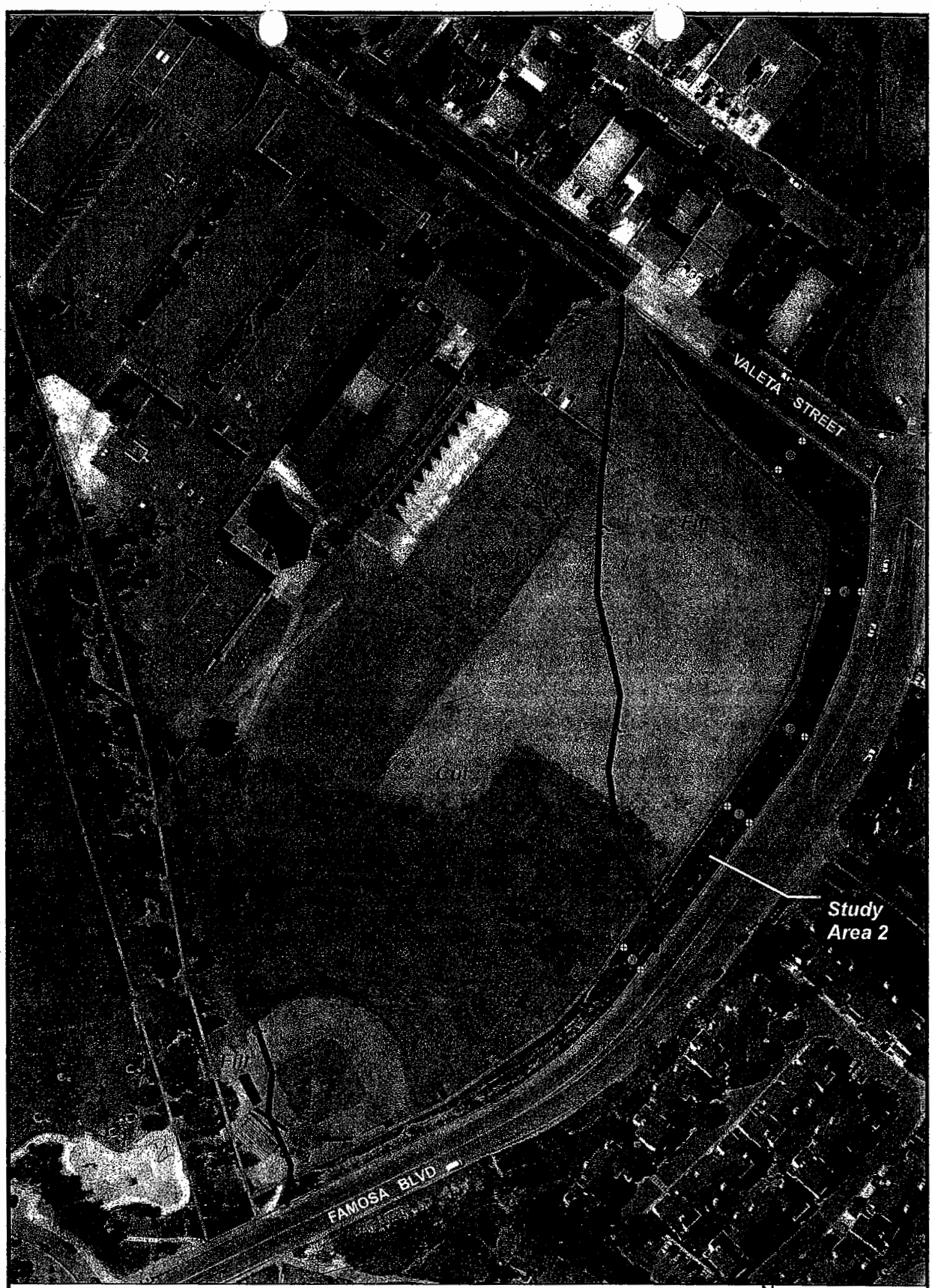
Legend

● Approximate location of Correia Middle School

N

0 2,500 5,000 10,000 Feet

Ninyo & Moore		SITE LOCATION MAP	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	1
105338029	11/05		



Legend

- Proposed hand auger boring location
- Proposed continuous core boring location
- Approximate location of cut/fill boundary
- Approximate location of study area

N

0 50 100 200 Feet

Ninyo & Moore		STUDY AREA 2 PROPOSED SAMPLING LOCATIONS	FIGURE
PROJECT NO.	DATE	CORREIA MIDDLE SCHOOL SAN DIEGO, CALIFORNIA	4
105338029	11/05		

Source: Aerial Photograph April 2004-105338029_Fig4.mxd

TCP #	4	3	8	9	8	Start Date	12	19	05	End Date	12	23	05
TCP #						Start Date				End Date			
TCP #						Start Date				End Date			

[redacted]

THE CITY OF SAN DIEGO

TRAFFIC CONTROL PLAN/PERMIT
Development Services Department
1222 First Avenue • San Diego, CA 92101
(619) 446-5150
Fax (619) 446-5489

Work Hour: From: 8.30AM M To 3.30PM M ☐ Continuous ☐ Night Work ☐ Others W.O #

Address/Project Street	Cross Street	Cross Street	T.B. #
4303 VALETA ST	FAMOSA BL	CAMULOS ST	1 2 6 8 - B 6

Posted Speed Limit	Width/Depth of Trench	Approach Speed	Taper Length	Cones' Spacing	Signs' Spacing
25 MPH			25'	25'	150'

Contractor/Applicant's Name	Address	Project Contact Name	Telephone	Fax
NINYO & MOORE	4860 RUFFNER ST City, State, Zip SAN DIEGO CA.92111	LAUREN HEDGES	(858)576-1000	

ACTIVITY TYPE

- ☐ STREET CLOSURE
- ☐ TRAVEL LANE CLOSURE
- ☐ TURN LANE CLOSURE
- ☒ PARKING LANE CLOSURE
- ☐ BIKE LANE CLOSURE
- ☒ SIDEWALK CLOSURE
- ☐ PEDESTRIAN BARRICADE
- ☐ DETOUR
- ☐ FLAGGING
- ☐ BUS STOPS
- ☐ DUMPSTER
- ☐ TRENCHING
- ☐ PARKING METERS
- ☐ FIBER OPTIC
- ☐ _____

STREET CLASSIFICATION

- ☐ EXPRESSWAY
- ☐ FOUR-LANE MAJOR STREET
- ☐ THREE-LANE COLLECTOR
- ☐ CUL-DE-SAC
- ☐ ALLEY
- ☐ SIX-LANE PRIMARY ARTERIAL/MAJOR STREET
- ☐ FOUR-LANE COLLECTOR
- ☐ TWO-LANE COLLECTOR
- ☐ LOCAL RESIDENTIAL

REQUIREMENTS:

1. Traffic control plans shall conform to the latest edition of: City of San Diego Standard Drawings, Appendix A; Caltrans Manual of Traffic Controls for Construction and Maintenance Work Zones; and Standard Specifications for Public Works Construction, including Regional Supplement Amendments and City of San Diego Supplement Amendments.
2. The contractor is responsible for restoring the street back to satisfactory condition including, but is not limited to, paving, striping, markings, signs and traffic signal loop detectors within five (5) calendar days of completion of work at affected intersection or roadway segment.
3. The City Traffic Engineer reserves the right to cancel these traffic control plans in operation and to make any changes as field conditions warrant.
4. Trenches shall be backfilled or steel plated during non-working hours. Steel plates shall have asphaltic concrete berm on the edges. All dirt, dust, and debris shall be removed from street at end of each day and at the end of the job. Streets shall be in drivable condition at all times.
5. Any work that causes traffic safety risk or excessive congestion may be shut down by City Traffic Engineers, City Inspection, or the Police Department.
6. All travel lanes shall be of 11 feet wide minimum, except if adjacent to bike lanes, unless otherwise approved by the City Traffic Engineers.
7. Warning (W) series signs used in work zones shall be black on orange reflectorized background.
8. Cones and pylons shall have reflectorized sleeves for night work.
9. If parking is allowed in advance warning area, advance warning signs shall be mounted on high level devices.
10. The contractor shall post tow-away/no parking signs twenty-four (24) hours in advance and shall bag parking meters (where applicable).
11. Traffic control plans must be submitted in person a minimum of five (5) working days prior to the start of work within the public right-of-way.
12. Extension must be submitted in person two (2) WORKING DAYS IN ADVANCE OF PERMIT EXPIRATION.
13. Work days are Monday through Friday. No work on Saturdays, Sundays, or holidays unless approved and noted in "comments".

THE CONTRACTOR SHALL NOTIFY ALL AFFECTED AGENCIES FIVE (5) WORKING DAYS PRIOR TO STARTING WORK.

POLICE DEPARTMENT DISPATCH	(619) 531-2000
FIRE DEPARTMENT DISPATCH	(858) 573-1300
ENVIRONMENTAL SERVICES	(858) 492-5060
SAN DIEGO TRANSIT	(619) 238-0100 EXT. 424
STREET DIVISION – TRAFFIC SIGNALS	(619) 527-7500
UNDERGROUND SERVICE ALERT	(800) 422-4133

ORIGINAL PERMIT MUST BE KEPT AT ALL TIMES ON JOB SITE

APPROVED TRAFFIC CONTROL PERMIT

APPLICANT IS RESPONSIBLE FOR FULL AND COMPLETE REPRESENTATION OF THE ACTUAL ROAD CONDITIONS SHOWN ON THIS PLAN INCLUDING, BUT NOT LIMITED TO EXISTING STRIPING, SIGNING, SIDEWALKS, AND BIKE LANES.

AGENT OF CITY TRAFFIC ENGINEER: SL DATE 12/9/05

PRINTED NAME: GARY EVANS PHONE (619)441-3330

SIGNATURE: Gary Evans DATE 12/9/05

AGENT ☐ OWNER ☐ CONTRACTOR ☒ SIGN/BARRICADE CO. ☐ OTHERS

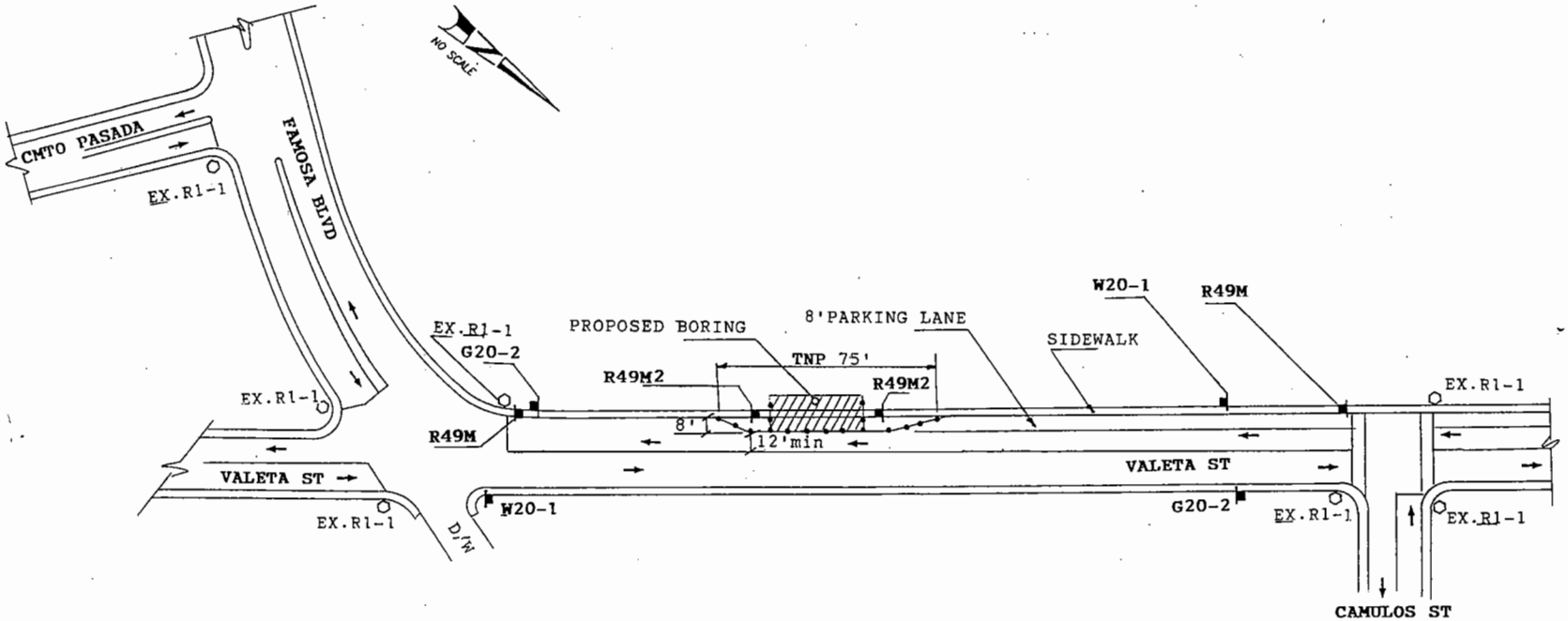
DESCRIPTION	APPROVED BY	DATE
FIRST EXTENSION		
SECOND EXTENSION		

COMMENTS:

REFERENCE TCP #:

SEE ATTACHED PLANS

Revised 03-09-05 avp



TYPICAL CONSTRUCTION SIGNS

LEGEND: •CONE SIGN WORK AREA TRAFFIC DIRECTION FLASHING ARROW SIGN SIGNALIZED INTERSECTION FLAGGER BARRICADE ←NP→ TEMPORARY NO PARKING

	POSTED SPEED LIMIT:	TAPER LENGTH:	SIGN SPACING:	CONE SPACING:	
	25 MPH	25'	150'	25'	

TRAFFIC CONTROL PLAN

PLANS APPROVED BY:

DRAWN BY: GARY EVANS
1-800-321-5285
HUDSON SAFE-T-LITE RENTALS
777 GABLE WAY
EL CAJON, CA 92020

CONTRACTOR:

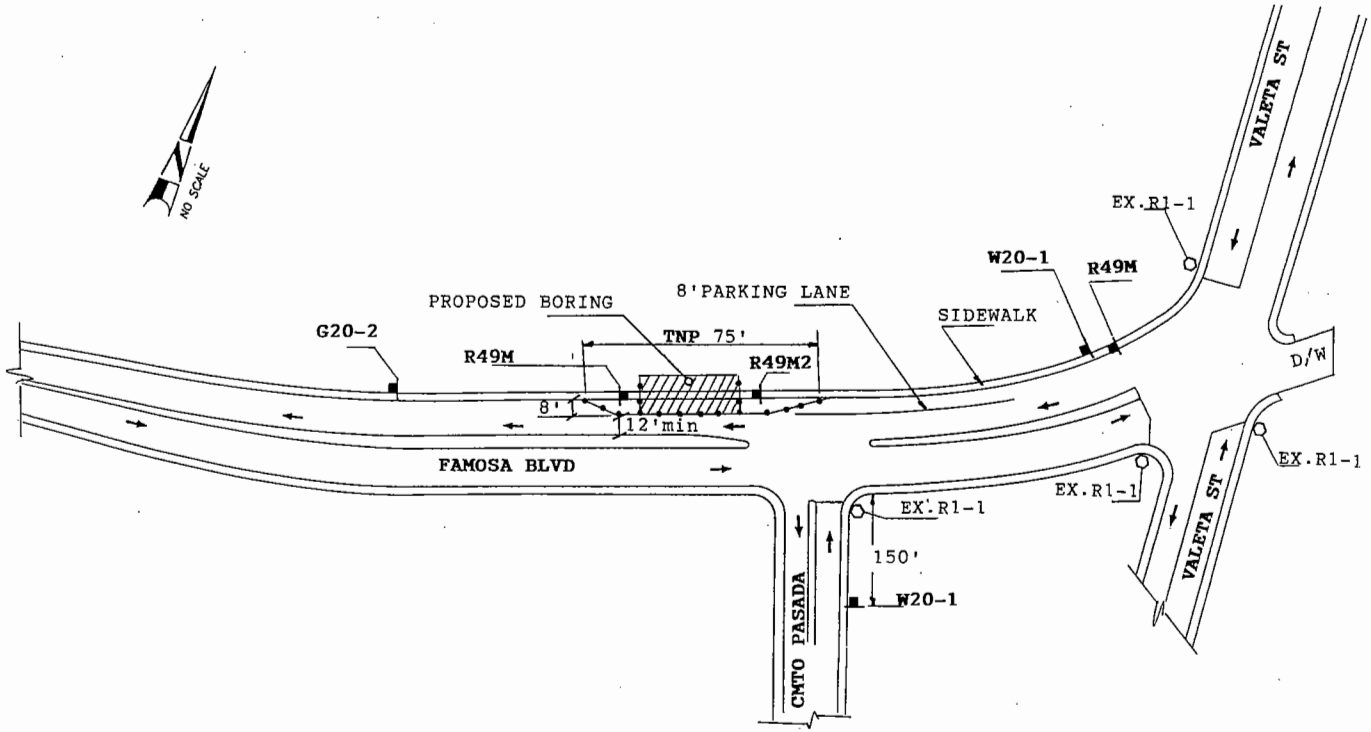
DATE DRAWN:

SCALE: NO SCALE

DRAWING NUMBER:

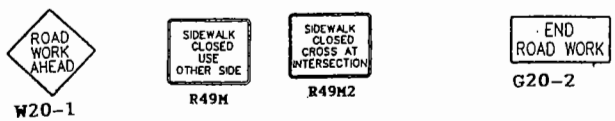
SHEET OF

APPROVED
TRAFFIC CONTROL PERMIT
DEC 09 2006
CITY OF SAN DIEGO
Development Services
Land Development Review Division
Traffic Permits Section



- EXPLORATORY BORINGS & SOIL SAMPLING

TYPICAL CONSTRUCTION SIGNS



LEGEND: •CONE ▮ SIGN WORK AREA TRAFFIC DIRECTION FLASHING ARROW SIGN (S) SIGNALIZED INTERSECTION FLAGGER BARRICADE ←N/P→ TEMPORARY NO PARKING

POSTED SPEED LIMIT:	TAPER LENGTH:	SIGN SPACING:	CONE SPACING:
30 MPH	25'	200'	25'

TRAFFIC CONTROL PLAN

PLANS APPROVED BY:

APPROVED
TRAFFIC CONTROL PERMIT

DRAWN BY: GARY EVANS
1-800-321-5285
HUDSON SAFE-T-LITE RENTALS
777 GABLE WAY
EL CAJON, CA 92020

CONTRACTOR:

DEC 09 2006
CITY OF SAN DIEGO
Development Services
Land Development Review Division
Traffic Control Section

DATE DRAWN:

SCALE: NO SCALE

APPENDIX E

BORING LOGS

DATE DRILLED	12/20/05	BORING NO.	NM-B10
GROUND ELEVATION	60' ± (MSL)	SHEET 1	OF 1
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	140 lbs.	DROP	30"
SAMPLED BY	MLF	LOGGED BY MLF	REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							GM	FILL: Tan, dry, dense, silty GRAVEL.
		■	25/50					BAY POINT FORMATION: Reddish yellow, dry, strongly cemented, fine- to medium-grained SANDSTONE; moderately hard.
								Total Depth = 2.5 feet. Groundwater not encountered during drilling. Backfilled with approximately 5 gallons hydrated bentonite grout on 12/20/05.
5								
10								
15								
20								

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-1

DATE DRILLED	12/22/05	BORING NO.	NM-B11
GROUND ELEVATION	60' ± (MSL)	SHEET 1	OF 1
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	--	DROP	--
SAMPLED BY	VJS	LOGGED BY VJS	REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0	■						SW/SM	FILL: Reddish brown, moist, loose, well-graded SAND with SILT.
5	■						SP/SM	Reddish brown, moist, loose, poorly-graded SAND with SILT.
10	■							BAY POINT FORMATION: Dark reddish brown, moist, strong cementation, fine- to medium-grained SANDSTONE; difficult drilling; moderately hard.
								Total Depth = 10 feet. Groundwater not encountered during drilling. Backfilled with approximately 21 gallons hydrated bentonite grout on 12/22/05. Logged as continuous core.
15								
20								

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-2

DATE DRILLED	12/22/05
BORING NO.	NM-B12
GROUND ELEVATION	60' ± (MSL)
SHEET	1 OF 1
METHOD OF DRILLING	Hollow-Stem Auger
DRIVE WEIGHT	140 lbs.
DROP	30"
SAMPLED BY	MLF
LOGGED BY	MLF
REVIEWED BY	VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SM	FILL: Red, dry, medium dense, silty SAND.
		■	20/20					
5								
		■	15/20					Glass and porcelain debris approximately 4" thick.
10		■	50					Moist; dense.
								Difficult drilling.
								BAY POINT FORMATION: Red, dry, moderate cementation, fine- to medium-grained SANDSTONE; moderately hard.
15		■	42/50					
								Total Depth = 16.5 feet. Groundwater not encountered during drilling. Backfilled with approximately 35 gallons hydrated bentonite grout on 12/22/05.
20								

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-3

DATE DRILLED	12/22/05	BORING NO.	NM-B13
GROUND ELEVATION	60' ± (MSL)	SHEET 1	OF 1
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	140 lbs.	DROP	30"
SAMPLED BY	MLF	LOGGED BY MLF	REVIEWED BY VJS

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						SM	FILL: Red to reddish brown, dry, medium dense, silty SAND.
	Driven	20/25					
5	Driven	11/15					
10	Driven	13/25					
							BAY POINT FORMATION: Red to reddish brown, dry, moderate cementation, fine- to medium-grained SANDSTONE; moderately hard.
15	Driven	23/25					
							Total Depth = 16 feet. Groundwater not encountered during drilling. Backfilled with approximately 33 gallons hydrated bentonite grout on 12/22/05.
20							

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-4

DATE DRILLED 12/20/05 BORING NO. NM-B14

GROUND ELEVATION 60' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING Hollow-Stem Auger

DRIVE WEIGHT 140 lbs. DROP 30"

SAMPLED BY KLA LOGGED BY KLA REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SM	FILL: Reddish yellow, moist, medium dense, silty SAND.
		■	13/13					
5								
		■	50/43					BAY POINT FORMATION: Brownish yellow, dry, moderate cementation, fine- to medium-grained SANDSTONE; moderately hard.
								Total Depth = 6.5 feet. Groundwater not encountered during drilling. Backfilled with approximately 13 gallons hydrated bentonite grout on 12/20/05.
10								
15								
20								

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-5

DATE DRILLED 12/21/05 BORING NO. NM-B15

GROUND ELEVATION 60' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING Hollow-Stem Auger

DRIVE WEIGHT 140 lbs. DROP 30"

SAMPLED BY KLA LOGGED BY KLA REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SM	FILL: Brown, moist, medium dense, silty SAND.
		■	20/21					
								Red.
5		■	19/20					
10		■	19/20					
15		■	8/18				ML	Reddish brown, moist, medium dense, sandy SILT.
		■	36/41				SM	Red, moist, dense, silty SAND.
20								Total Depth = 19 feet. Groundwater not encountered during drilling. Backfilled with approximately 40 gallons bentonite grout on 12/21/05.

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-6

DATE DRILLED 12/21/05 BORING NO. NM-B16

GROUND ELEVATION 60' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING Hollow-Stem Auger

DRIVE WEIGHT 140 lbs. DROP 30"

SAMPLED BY KLA LOGGED BY KLA REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SM	FILL: Red, moist, medium dense, sandy SILT.
		■	11/23					Glass debris.
5		■	14/15					
10		■	17/25				SP	Light gray, dry, medium dense, poorly-graded SAND.
		■	28/50				SM	Brown, moist, dense, silty SAND.
15								Total Depth = 15 feet. Groundwater not encountered during drilling. Backfilled with approximately 35 gallons hydrated bentonite grout on 12/21/05.
20								

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-7

DATE DRILLED	12/20/05	BORING NO.	NM-B17
GROUND ELEVATION	60' ± (MSL)	SHEET 1	OF 1
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	140 lbs.	DROP	30"
SAMPLED BY	KLA	LOGGED BY KLA	REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SP	BAY POINT FORMATION: Yellowish brown, moist, weak cementation, fine- to medium-grained SANDSTONE; moderately soft.
		■	6/21					
		■	12/12					
5								Total Depth = 5 feet. Groundwater not encountered during drilling. Backfilled with approximately 11 gallons hydrated bentonite grout on 12/20/05.
10								
15								
20								

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-8

DATE DRILLED	12/20/05	BORING NO.	NM-B18
GROUND ELEVATION	60' ± (MSL)	SHEET 1	OF 1
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	140 lbs.	DROP	30"
SAMPLED BY	KLA	LOGGED BY KLA	REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0		■	3/3				SM	FILL: Dark brown, moist, loose, silty SAND.
		■	5/7					
5								BAY POINT FORMATION: Brown, moist, weak cementation, fine- to medium-grained SANDSTONE.
								Total Depth = 6.5 feet. Groundwater not encountered during drilling. Backfilled with approximately 13 gallons hydrated bentonite grout on 12/20/05.
10								
15								
20								

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-9

DATE DRILLED	12/20/05	BORING NO.	NM-B19
GROUND ELEVATION	60' ± (MSL)	SHEET 1	OF 1
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	140 lbs.	DROP	30"
SAMPLED BY	KLA	LOGGED BY KLA	REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SM	FILL: Reddish yellow, moist, medium dense, silty SAND.
		■	39/25					Dark brown; dense. Burn ash and glass fragments approximately 6" thick.
5		■	34/41					Dark reddish gray. Burn ash present with glass fragments.
10		■	18/16					Reddish brown; medium dense.
15		■	19/28					BAY POINT FORMATION: Brown, moist, moderate cementation, fine- to medium-grained SANDSTONE; moderately hard.
20								Total Depth = 17 feet. Groundwater not encountered during drilling. Backfilled with approximately 35 gallons hydrated bentonite grout on 12/20/05.

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-10

DATE DRILLED 12/23/05 BORING NO. NM-B20

GROUND ELEVATION 60' ± (MSL) SHEET 1 OF 2

METHOD OF DRILLING Hollow-Stem Auger

DRIVE WEIGHT -- DROP --

SAMPLED BY VJS LOGGED BY VJS REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SM	FILL: Red, moist, loose, silty SAND.
	■						SW/SM	Reddish brown, moist, loose, well-graded SAND with SILT.
5	■							Some organic material observed; roots up to 1/4" in diameter.
								Brown; some concretions.
10	■						SM	Light brown, moist, loose, silty SAND.
	■							Small particles of glass.
							SW/SM	Reddish brown, moist to damp, loose, well-graded SAND with SILT.
15	■							Glass debris; burn evidence approximately 6" thick .
20	■						SP/SM	Brown, moist to damp, loose, poorly-graded SAND with SILT.

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4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-11

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
20							SM	FILL (Continued): Light brown, moist, loose, silty SAND.
25	■							Grayish brown; medium dense.
								BAY POINT FORMATION: Light brown, moist, weak cementation, fine- to medium-grained SANDSTONE.
30	■							Total Depth = 30 feet. Groundwater not encountered during drilling. Backfilled with 64 gallons cement bentonite grout on 12/23/05. Logged as continuous core.
35								
40								

DATE DRILLED 12/23/05 BORING NO. NM-B20

GROUND ELEVATION 60' ± (MSL) SHEET 2 OF 2

METHOD OF DRILLING Hollow-Stem Auger

DRIVE WEIGHT -- DROP --

SAMPLED BY VJS LOGGED BY VJS REVIEWED BY VJS

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-12

DATE DRILLED	12/22/05	BORING NO.	NM-B21
GROUND ELEVATION	20' ± (MSL)	SHEET 1	OF 1
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	--	DROP	--
SAMPLED BY	VJS	LOGGED BY VJS	REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SM	FILL: Light tan, moist to damp, loose, silty SAND.
5	■							
								BAY POINT FORMATION: Tan to reddish brown, moist, weak cementation, fine- to medium-grained SANDSTONE; moderately soft; some rootlets approximately 1/8" in diameter.
10	■							Slight oxidation in soil; poorly indurated.
	■							
								Total Depth = 12.5 feet. Groundwater not encountered during drilling. Backfilled with approximately 3.63 cubic feet hydrated bentonite chips on 12/22/05. Logged as continuous core.
15								
20								

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-13

DATE DRILLED 12/23/05 BORING NO. NM-B22

GROUND ELEVATION 60' ± (MSL) SHEET 1 OF 3

METHOD OF DRILLING Hollow-Stem Auger

DRIVE WEIGHT -- DROP --

SAMPLED BY VJS LOGGED BY VJS REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0							SM	FILL: Reddish to dark brown, moist, loose, silty SAND.
	■							
5	■							Dark brown.
	■							Ash and glass debris approximately 6" thick.
10	■						SP/SM	Dark brown, moist, loose, poorly-graded SAND with SILT.
	■							Ceramic debris approximately 3" thick.
15	■							Medium dense; some glass debris present; possible burn ash approximately 6" thick.
	■							Black; burn ash material approximately 6" thick; gravel clasts up to 2" in diameter.
20								

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BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-14

DATE DRILLED 12/23/05 BORING NO. NM-B22

GROUND ELEVATION 60' ± (MSL) SHEET 2 OF 3

METHOD OF DRILLING Hollow-Stem Auger

DRIVE WEIGHT -- DROP --

SAMPLED BY VJS LOGGED BY VJS REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
20							SM	FILL (Continued): Black, moist, medium dense, well-graded SAND. Difficult drilling. Approximately 1/4" thick aluminum piece found at 22.5'; no soil recovery.
							SC	Dark brown, moist, medium dense, clayey SAND.
25	■							Soft; low plasticity; fine-grained sand.
							SM	Dark brown to black, moist, medium dense, silty SAND; debris; copper wire found; no recovery.
							SP/SM	Black, moist, medium dense, poorly graded fine-grained SAND with SILT.
30	■							Brick/glass debris; burned material.
	■							Loose.
35	■							Rootlets approximately 1/8" in diameter.
								Fill layer; poorly-graded sand.
40	■							

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BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-15

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
40							SM	FILL (Continued): Dark brown, loose, moist, poorly-graded silty SAND.
	■							BAY POINT FORMATION: Dark brown, moist, weak cementation, fine- to medium-grained SANDSTONE.
45								Total Depth = 45 feet. Groundwater not encountered during drilling. Backfilled with approximately 96 gallons bentonite cement slurry on 12/23/05. Logged as continuous core.
50								
55								
60								

DATE DRILLED 12/23/05 BORING NO. NM-B22

GROUND ELEVATION 60' ± (MSL) SHEET 3 OF 3

METHOD OF DRILLING Hollow-Stem Auger

DRIVE WEIGHT -- DROP --

SAMPLED BY VJS LOGGED BY VJS REVIEWED BY VJS

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-16

DATE DRILLED	12/20/05	BORING NO.	NM-B23
GROUND ELEVATION	20' ± (MSL)	SHEET 1 OF 1	
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	140 lbs.	DROP	30"
SAMPLED BY	MLF	LOGGED BY MLF	REVIEWED BY VJS

DEPTH (feet)	SAMPLES (Bulk / Driven)	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0						SM	FILL: Reddish brown, dry, dense, silty SAND.
		26/23					
							Moist.
5		26/28					
							Reddish brown to tan.
10							
		27/29					
							BAY POINT FORMATION: Brown, moist, weak cementation, fine- to medium-grained SANDSTONE.
15		42/40					
							Total Depth = 16 feet. Groundwater not encountered during drilling. Backfilled with approximately 35 gallons hydrated bentonite grout on 12/20/05.
20							

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BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-17

DATE DRILLED	12/19/05	BORING NO.	NM-B24
GROUND ELEVATION	20' ± (MSL)	SHEET 1 OF 1	
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	140 lbs.	DROP	30"
SAMPLED BY	MLF	LOGGED BY MLF	REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0		■	15/58				SM	FILL: White to tan, dry, very dense, silty SAND; micaceous.
								Reddish brown to tan.
								Medium dense.
5		■	12/14					Burn ash; glass debris approximately 1" thick. Brown to tan.
		■	27/25					Glass debris approximately 2" thick. Dense.
10								
		■	14/12					Medium dense.
15		■	27/26					BAY POINT FORMATION: Brown, moist, moderate cementation, fine- to medium-grained SANDSTONE; moderately hard.
								Total Depth = 16 feet. Groundwater not encountered during drilling. Backfilled with approximately 35 gallons hydrated bentonite grout on 12/19/05.
20								

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BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-18

DATE DRILLED	12/22/05	BORING NO.	NM-B25
GROUND ELEVATION	20' ± (MSL)	SHEET 1 OF 3	
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	--	DROP	--
SAMPLED BY VJS	LOGGED BY VJS	REVIEWED BY VJS	

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0	■						SM	FILL: Reddish brown, moist, loose, silty SAND.
5	■							Some gravel clasts up to 1/4" in diameter.
	■							Melted glass/burn ash present approximately 6" thick; highly oxidized; concretions present up to 1/2" in diameter.
10								Ceramic debris.
	■							Light tan; medium-grain sand layer approximately 1" thick.
15	■							Fine sand.
	■						SW/SM	Reddish brown, moist, loose, well-graded SAND with SILT. Burn ash approximately 5" thick; glass and ceramic debris.
20	■							

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BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-19

DATE DRILLED	12/22/05	BORING NO.	NM-B25
GROUND ELEVATION	20' ± (MSL)	SHEET 2	OF 3
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	--	DROP	--
SAMPLED BY VJS	LOGGED BY VJS	REVIEWED BY VJS	

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
20							SW/SM	FILL (Continued): Reddish brown, moist, loose, well-graded SAND with SILT.
25	■						SC	Brown, moist, loose, clayey SAND.
	■						SW/SM	Reddish brown, moist to damp, loose, well-graded SAND with SILT.
30	■							Small amount of burn ash debris.
	■							Burn ash approximately 4" thick.
35	■							Burn ash approximately 2' thick; glass and ceramic debris.
	■							Brown.
40	■							

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BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-20

DATE DRILLED	12/22/05	BORING NO.	NM-B25
GROUND ELEVATION	20' ± (MSL)	SHEET 3	OF 3
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	--	DROP	--
SAMPLED BY VJS	LOGGED BY VJS	REVIEWED BY VJS	

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
40							SP/SM	FILL (Continued): Brown, moist to damp, loose, poorly-graded SAND with SILT. Reddish brown, damp, loose, poorly-graded SAND.
45	■			▽				BAY POINT FORMATION: Reddish brown to tan, moist to damp, loose, poorly-graded SAND. Reddish brown to light brown; moist to wet.
50	■							Total Depth = 50 feet. Groundwater encountered at approximately 48 feet during drilling. Backfilled with approximately 100 gallons bentonite cement slurry on 12/22/05. Logged as continuous core.
55								
60								

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BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-21

DATE DRILLED 12/19/05 BORING NO. NM-B26

GROUND ELEVATION 60' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING Hollow-Stem Auger

DRIVE WEIGHT 140 lbs. DROP 30"

SAMPLED BY MLF LOGGED BY MLF REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0		■	38/26				SM	FILL: Light brown, dry, dense, silty SAND.
		■	26/28					Tan to reddish brown; dense.
5								
		■	15/25					Burn ash.
10								
		■						Brown to black; moist; rock debris and decomposed wood.
		■	19/21	▽				
15		■	7/8					Brown; wet; loose.
								Total Depth = 18 feet. Groundwater encountered at approximately 14 feet during drilling. Backfilled with approximately 35 gallons hydrated bentonite grout and 1 bag bentonite chips on 12/19/05.
20								

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BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-22

DATE DRILLED	12/22/05	BORING NO.	NM-B27
GROUND ELEVATION	60' ± (MSL)	SHEET 1 OF 1	
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	--	DROP	--
SAMPLED BY	VJS	LOGGED BY VJS	REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0	■						SM	FILL: Light tan to reddish brown, moist, loose, silty SAND.
5	■							Moist.
								BAY POINT FORMATION: Reddish brown, moist, weak cementation, fine- to medium-grained SANDSTONE.
10	■							Total Depth = 10 feet. Groundwater not encountered during drilling. Backfilled with approximately 23 gallons hydrated bentonite grout on 12/22/05. Logged by continuous core.
15								
20								

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-23

DATE DRILLED	12/19/05	BORING NO.	NM-B28
GROUND ELEVATION	20' ± (MSL)	SHEET 1	OF 1
METHOD OF DRILLING	Hollow-Stem Auger		
DRIVE WEIGHT	140 lbs.	DROP	30"
SAMPLED BY	MLF	LOGGED BY MLF	REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0		■	12/20				SM	FILL: Light brown, dry, medium dense, silty SAND; slight oxidation.
		■	13/17					
5		■	15/18					BAY POINT FORMATION: Reddish brown to tan, dry, moderate cementation, fine- to medium-grained SANDSTONE. Moist.
10								Total Depth = 10 feet. Groundwater not encountered during drilling. Backfilled with approximately 17 gallons hydrated bentonite grout on 12/19/05.
15								
20								

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-24

DATE DRILLED 12/21/05 BORING NO. NM-B29

GROUND ELEVATION 60' ± (MSL) SHEET 1 OF 1

METHOD OF DRILLING Hollow-Stem Auger

DRIVE WEIGHT 140 lbs. DROP 30"

SAMPLED BY KLA LOGGED BY KLA REVIEWED BY VJS

DEPTH (feet)	SAMPLES Bulk	SAMPLES Driven	BLOWS/FOOT	MOISTURE (%)	DRY DENSITY (PCF)	SYMBOL	CLASSIFICATION U.S.C.S.	DESCRIPTION/INTERPRETATION
0		■	36/50				SM	FILL: Yellowish red, moist, dense, silty SAND.
								BAY POINT FORMATION: Yellowish red, moist, moderate cementation SANDSTONE.
		■	31/45					Dry.
5								Total Depth = 5 feet. Groundwater not encountered during drilling. Backfilled with approximately 11 gallons hydrated bentonite grout with 4-inch thick concrete seal on 12/21/05.
10								
15								
20								

Ninyo & Moore

BORING LOG

4302 VALETA STREET
SAN DIEGO, CALIFORNIA

PROJECT NO.	DATE	FIGURE
105338029	02/06	E-25

KEY TO SYMBOLS

Symbol Description

Strata symbols

Silty gravel

Gabbroic Rock or other intrusive igneous rock

Well graded sand with silt

Uncertain - poorly graded sand with silt

Poorly graded sand

Silty sand (Qaf, Qal)

Silt

clayey sand (Qal)

Misc. Symbols

Static water level measured on indicated date.

Soil Samplers

California sampler

APPENDIX F

WASTE MANIFESTS

State of California—Environmental Protection Agency
Form Approved OMB No. 2050-0039 (Expires 9-30-99)
Please print or type. *Form designed for use on elite (12-pitch) typewriter.*

See Instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, California

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802. WITHIN CALIFORNIA, CALL 1-800-852-7550

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAD981453061 — Manifest Document No.: 00001
2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
SAN DIEGO UNIFIED SCHOOL DISTRICT
4860 RUFFNER STREET
SAN DIEGO, CA 92111

4. Generator's Phone (858) 573-5773

A. State Manifest Document Number: 21727984

B. State Generator's ID:

C. State Transporter's ID Reserved:

D. Transporter's Phone: (562) 624-4120

E. State Transporter's ID Reserved:

F. Transporter's Phone:

G. State Facility's ID:

H. Facility's Phone:

5. Transporter 1 Company Name: OCEAN BLUE ENVIRONMENTAL
6. US EPA ID Number: CAD983608258

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
CROSBY & OVERTON
1630 W. 17TH STREET
LONG BEACH, CA 90813

10. US EPA ID Number: CAD028409019

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste Number
a. NON-RCRA HAZARDOUS WASTE SOLID (SOIL WITH CAL HAZ LEAD); (NONE)	022	DM	15400	P	
b.					
c.					
d.					

15. Special Handling Instructions and Additional Information
JOB # 31772
WEAR APPROPRIATE PPE WHILE HANDLING.
EMERGENCY TELEPHONE NUMBER (562) 624-4120, CONTACT:DON OSTRAND
SITE # CORREIA MIDDLE SCHOOL

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: DE KINKEM — Signature: [signature] — Month 01 Day 30 Year 06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tom Sherlock — Signature: [signature] — Month 01 Day 30 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month 0 Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: [signature] — Signature: [signature] — Month 02 Day 07 Year 06

DO NOT WRITE BELOW THIS LINE.

DTSC 8022A (1/99)
EPA 8700—22

Green: TRANSPORTER RETAINS

NON-HAZARDOUS WASTE MANIFEST

Please print or type. (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: CAD 981453061

Manifest Document No.: 013006

2. Page 1 of 1

3. Generator's Name and Mailing Address
SAN DIEGO UNIFIED SCHOOL DISTRICT
4860 RUFFNER STREET
SAN DIEGO, CA 92111

4. Generator's Phone: (858) 573-5773

5. Transporter 1 Company Name: OCEAN BLUE ENVIRONMENTAL

6. US EPA ID Number: CAD983608258

A. State Transporter's ID

B. Transporter 1 Phone: (562) 624-4120

7. Transporter 2 Company Name

8. US EPA ID Number

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
CROSBY AND OVERTON
1630 WEST 17th STREET
LONG BEACH, CA 90813

10. US EPA ID Number: CAD028409019

E. State Facility's ID

F. Facility's Phone: (562) 432-5445

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-HAZARDOUS WASTE LIQUID	001	DM	30	Gal.
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
11a PROFILE # 53924
1X55

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: OB JOB # 51772
SITE: CORREIA MIDDLE SCHOOL

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name: JOE KINKEAD — Signature — Date: Month 01 Day 30 Year 06

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Tom Sherlock — Signature — Date: Month 01 Day 30 Year 06

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.

Printed/Typed Name: Joel Lovell — Signature — Date: Month 02 Day 03 Year 06

NON-HAZARDOUS WASTE

APPENDIX G

LABORATORY REPORTS

Calscience Environmental Laboratories, Inc.

Supplemental Report 2

January 31, 2006

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

Subject: **Calscience Work Order No.: 05-12-1443**
Client Reference: Correia M.S. / 105338029

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/27/2005 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 any subcontracted analysis 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.

Case Narrative for 05-12-1443

Sample Condition on Receipt

Two aqueous samples and twenty-four soil samples were received as part of this Work Order on December 27, 2005. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.2°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of-custody (COC) records and e-mail request dated 01/09/06. Data is presented on a wet weight basis.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels, with the exception of select constituents. Please see Table A below for details.

Table A: Trace levels present in associated method blanks	
EPA Method 6010B	
Batch #	Analyte(s)
060109L07	Antimony, Arsenic, Silver & Thallium
060109L08	Arsenic, Selenium, Thallium & Vanadium

Reportable concentrations on the associated batch of samples have been flagged with a "B" qualifier, indicating blank contamination. Therefore, the results have been released without any further action or qualification.

Calscience Environmental Laboratories, Inc.

Case Narrative for 05-12-1443

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits.

Table B: Matrix Spike / Matrix Spike Duplicate outside acceptable limits	
EPA Method 6010B	
Batch #	Analytes(s)
060109S07	Antimony‡, Barium†, Chromium, Copper†, Lead†, Selenium & Zinc†
EPA Method 8310	
Batch #	Analytes(s)
060109S06	Benzo (a) Pyrene & Dibenz (a,h) Anthracene

‡: As a direct result of the unacceptable recoveries for the MS and/or MSD, the relative percent difference was also outside acceptable limits. These recoveries have been flagged with a "4" qualifier.
†: The recoveries for barium, copper, lead and zinc on this batch were outside the QC limits due to a sample concentration exceedance of the spike concentration by a factor of four or greater. These recoveries have been flagged with a "Q" qualifier.

Note that the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) recoveries were within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

From: Lauren Hedges
To: Virendra Patel;
CC: Emma Dennison; Sree Gopinath;
Subject: RE: Correia M.S. / 105338029 / CEL 05-12-1443 - Final PDF and EDD Files posted.
Date: Monday, January 09, 2006 5:02:47 PM
Attachments:

Sorry, Virendra. Here they are....
NM-B20-15.0 for Title 22 Metals (CEL 05-12-1443/#5)
NM-B22-6.0 for Title 22 Metals and PAHs (CEL 05-12-1443/#11)
NM-B22-11.5 for Title 22 Metals, PAHs, and dioxins (CEL 05-12-1443/#13)
NM-EB1-05 for Title 22 Metals (CEL 05-12-1443/#22))
NM-EB1-06 for Title 22 Metals (CEL 05-12-1443/#26)
Hope this is sufficient.
Thanks,
Lauren

-----Original Message-----
From: Virendra Patel [mailto:VPatel@calscience.com]
Sent: Monday, January 09, 2006 4:52 PM
To: Lauren Hedges
Cc: Emma Dennison; Sree Gopinath
Subject: RE: Correia M.S. / 105338029 / CEL 05-12-1443 - Final PDF and EDD Files posted.

Lauren,
Per our conversation last week, please resubmit your request with CEL W.O.#'s and their corresponding dash #'s.
Virendra

-----Original Message-----
From: Lauren Hedges [mailto:lhedges@ninyoandmoore.com]
Sent: Monday, January 09, 2006 4:49 PM
To: Virendra Patel
Cc: Emma Dennison; Sree Gopinath
Subject: RE: Correia M.S. / 105338029 / CEL 05-12-1443 - Final PDF and

EDD Files posted.

Virendra,
Can you please run the following additional analyses on a standard TAT:
NM-B20-15.0 for Title 22 Metals NM-B22-6.0 for Title 22 Metals and PAHs
NM-B22-11.5 for Title 22 Metals, PAHs, and dioxins NM-EB1-05 for Title
22 Metals NM-EB1-06 for Title 22 Metals
Please let me know if you have any questions.
Thanks,
Lauren
-----Original Message-----
From: Virendra Patel [mailto:VPatel@calscience.com]
Sent: Monday, January 09, 2006 4:30 PM
To: Lauren Hedges; Sree Gopinath
Subject: Correia M.S. / 105338029 / CEL 05-12-1443 - Final PDF and EDD
Files posted.

Lauren/Sree:
Final PDF and EDD files have been posted to the Ninyo & Moore FTP site
in the "Correia" folder for the subject project samples collected on
12/23/05. Note, a final hard copy will not be mailed to your
attention, therefore, we ask that you print the attached file and accept
it as final.
Files posted to FTP site:
05-12-1443.pdf - Final PDF without Level III deliverables 05121443.xls -
excel EDD files.
Pending is 05-12-1443_s1.pdf - Final PDF with Level III deliverables
this file will be available on next week.
Please call with any quesitons or concerns.

Virendra R. Patel
Project Manager
Calscience Environmental
Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Tel.: 714-895-5494 Ext. 157
Fax : 714-894-7501

vpatel@calscience.com

REPORT SECURITY NOTICE: The client or recipient of any attached analytical report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience Environmental Laboratories, Inc. is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience Environmental Laboratories, Inc. for any defense to any litigation which arises.

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CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Sample Summary Report

WORK ORDER #: **05-12-1443** **QAPP:** **0117**

#	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	NM-B20-1.0	S	12/23/2005	1	
2	NM-B20-5.0	S	12/23/2005	1	
3	NM-B20-10.0	S	12/23/2005	1	
4	NM-B20-11.0	S	12/23/2005	1	
5	NM-B20-15.0	S	12/23/2005	1	
6	NM-B20-20.0	S	12/23/2005	1	
7	NM-B20-25.0	S	12/23/2005	1	
8	NM-B20-30.0	S	12/23/2005	1	
9	NM-B22-1.0	S	12/23/2005	1	
10	NM-B22-5.0	S	12/23/2005	1	
11	NM-B22-6.0	S	12/23/2005	1	
12	NM-B22-10.0	S	12/23/2005	1	
13	NM-B22-11.5	S	12/23/2005	1	
14	NM-B22-15.0	S	12/23/2005	1	
15	NM-B22-17.5	S	12/23/2005	1	
16	NM-B22-25.0	S	12/23/2005	1	
17	NM-B22-30.0	S	12/23/2005	1	
18	NM-B22-32.5	S	12/23/2005	1	
19	NM-B22-34.5	S	12/23/2005	1	
20	NM-B22-40.0	S	12/23/2005	1	
21	NM-B22-45.0	S	12/23/2005	1	
22	NM-EB1-05	W	12/23/2005	1	
23	NM-HA1-0.5	S	12/27/2005	1	
24	NM-HA2-0.5	S	12/27/2005	1	
25	NM-HA2-1.5	S	12/27/2005	1	
26	NM-EB1-06	W	12/27/2005	2	

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 0 5 - 1 2 - 1 4 4 3

Cooler 1 **of** 1

SAMPLE RECEIPT FORM

CLIENT: NINYO & MOORE **DATE:** 12/27/05

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.

LABORATORY (Other than Calscience Courier):

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

3.2 °C Temperature blank. Initial: RD

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: RD

SAMPLE CONDITION:

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

Initial: RD

COMMENTS:

Sample #7 (NM-B20-25.0) is labeled as NM03-B20-25.0

Sample #8 (NM-B20-30.0) is labeled as NM03-B20-30.0

Sample #17 (NM-B22-30.0) is labeled as NM-B20-30.0

T.P 12/27/05

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-23-05

Page 1 of 3

LABORATORY CLIENT: Nuyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-576-1000 FAX: 858-576-9600 E-MAIL: lhedges@nuyoandmoore.com

CLIENT PROJECT NAME / NUMBER: Carrera M.S. / 105338029
PROJECT CONTACT: LAUREN Hedges
SAMPLER(S): (SIGNATURE) Matt Fuller
COELT LOG CODE
P.O. NO.:
LAB USE ONLY: 12-1443
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:
Level III data evaluation
Hold all samples for future analysis
Hold all samples w/out analysis marked.

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead	Arsenic	PAH			
	NM-B20-1.0		12-23-05	0832	soil	01														X	X				
	NM-B20-5.0		↓	0835	↓	↓														X	X				
	NM-B20-10.0			0845																					HOLD
	NM-B20-11.0			0852																X	X				
	NM-B20-15.0			0855																X	X	X			
	NM-B20-20.0			0902																X	X				
	NM-B20-25.0			0913																X	X				
	NM-B20-30.0			0920																X	X				
	NM-B22-1.0			1020																X	X				
	NM-B22-5.0		↓	1030	↓	↓																			HOLD

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Matt Fuller	[signature] CEL	12/27/05	13:08
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
[signature]	[signature] CEL	12/27/05	16:35

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CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-23-05

Page 2 of 3

LABORATORY CLIENT: Ninyo & Moore

ADDRESS:

CITY STATE ZIP

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: 105338027

PROJECT CONTACT: Lauren Hedges

SAMPLER(S): (SIGNATURE) Matt Tr

COELT LOG CODE

P.O. NO.:

LAB USE ONLY 12-1443

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:
Level III Data Evaluation

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total lead	Arsenic	PAH			
	NM-B22-6.0		12-23-05	1032	Soil	01														X	X				
	NM-B22-10.0			1038																~~X~~	~~X~~				HOLD
	NM-B22-11.5			1045																~~X~~	~~X~~	stat			
	NM-B22-15.0			1049																X	X				
	NM-B22-17.5			1056																~~X~~	~~X~~	12-27-05			HOLD
	NM-B22-25.0			1116																X	X				
	NM-B22-30.0			1134																~~X~~	~~X~~	12-27-05			HOLD
	NM-B22-32.5			1142																X	X	X			
	NM-B22-34.5			1146																~~X~~	~~X~~	12-27-05			HOLD
	NM-B22-40.0			1200																X	X				

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Matt Tr	CEL	12/27/05	13:08
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
	CEL	12/27/05	16:35

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-23-05

Page 3 of 3

LABORATORY CLIENT: Nuyo & Moore

ADDRESS: 5710 Ruffin Rd

CITY | STATE | ZIP

TEL: | FAX: | E-MAIL:

CLIENT PROJECT NAME / NUMBER: 105338029

PROJECT CONTACT: LAUREN HEDGES

SAMPLER(S): (SIGNATURE)

COELT LOG CODE

P.O. NO.:

LAB USE ONLY: 12-1443

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: Level III Data Eval

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead	Arsenic	PAH		
	~~NM03~~ - NM-B22-45.0		12-23-05	1211	soil	01														X	X			
	NM-EB~~01~~-05		12-23-05	1230	H_2O	↓														X	X	X		
	NM-HA1-0.5		12-27-05	1055	soil	01														X	X			
	NM-HA2-0.5		↓	1127	↓	↓														X	X			
	NM-HA2-1.5		↓	1145	↓	↓														X	X			
	NM-EB1-06		12-27-05	1200	H_2O	02														X	X	X		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		12/27/05	13:08
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
	CFL	12/27/05	16:35

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10/20/04 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/27/05
Work Order No: 05-12-1443
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: Correia M.S. / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B20-15.0	**05-12-1443-5**	**12/23/05**	**Solid**	**01/09/06**	**01/10/06**	**060109L07**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 1/9/2006 6:48:46 PM with batch 060109L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.750	0.191	1		Mercury	0.314	0.084	0.0130	1	
Arsenic	6.99	0.75	0.130	1	B	Molybdenum	1.42	0.25	0.0206	1	
Barium	601	0.500	0.164	1		Nickel	37.7	0.2	0.0346	1	
Beryllium	0.401	0.250	0.00368	1		Selenium	ND	0.750	0.175	1	
Cadmium	4.48	0.50	0.00988	1		Silver	6.31	0.25	0.0209	1	B
Chromium	40.5	0.2	0.0291	1		Thallium	ND	0.750	0.0987	1	
Cobalt	12.8	0.2	0.00859	1		Vanadium	73.3	0.2	0.00934	1	
Copper	727	0.500	0.0469	1		Zinc	1480	10	1.77	10	
Lead	1440	5	0.527	10							

NM-B22-6.0	**05-12-1443-11**	**12/23/05**	**Solid**	**01/09/06**	**01/10/06**	**060109L07**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 1/9/2006 6:50:59 PM with batch 060109L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.750	0.191	1		Mercury	0.0685	0.0835	0.0130	1	J
Arsenic	1.24	0.75	0.130	1	B	Molybdenum	0.439	0.250	0.0206	1	
Barium	143	0.500	0.164	1		Nickel	14.1	0.2	0.0346	1	
Beryllium	0.229	0.250	0.00368	1	J	Selenium	ND	0.750	0.175	1	
Cadmium	2.18	0.50	0.00988	1		Silver	0.802	0.250	0.0209	1	B
Chromium	16.6	0.2	0.0291	1		Thallium	ND	0.750	0.0987	1	
Cobalt	6.80	0.25	0.00859	1		Vanadium	29.6	0.2	0.00934	1	
Copper	125	0.500	0.0469	1		Zinc	395	1	0.177	1	
Lead	194	0.500	0.0527	1							

NM-B22-11.5	**05-12-1443-13**	**12/23/05**	**Solid**	**01/09/06**	**01/10/06**	**060109L07**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 1/9/2006 6:53:13 PM with batch 060109L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.750	0.191	1		Mercury	0.351	0.084	0.0130	1	
Arsenic	4.01	0.75	0.130	1	B	Molybdenum	1.12	0.25	0.0206	1	
Barium	405	0.500	0.164	1		Nickel	21.0	0.2	0.0346	1	
Beryllium	0.243	0.250	0.00368	1	J	Selenium	ND	0.750	0.175	1	
Cadmium	2.44	0.50	0.00988	1		Silver	3.17	0.25	0.0209	1	B
Chromium	31.7	0.2	0.0291	1		Thallium	ND	0.750	0.0987	1	
Cobalt	7.90	0.25	0.00859	1		Vanadium	41.6	0.2	0.00934	1	
Copper	282	0.500	0.0469	1		Zinc	663	1	0.177	1	
Lead	647	0.500	0.0527	1							

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3050B / EPA 7471A Total
		Method:	EPA 6010B / EPA 7471A
		Units:	mg/kg
Project: Correia M.S. / 105338029			Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-04-007-3,689**	**N/A**	**Solid**	**01/09/06**	**01/09/06**	**060109L05**

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.0835	0.0130	1	

Method Blank	**097-01-002-7,186**	**N/A**	**Solid**	**01/09/06**	**01/10/06**	**060109L07**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	0.335	0.750	0.191	1	J	Molybdenum	ND	0.250	0.0206	1	
Arsenic	0.193	0.750	0.130	1	J	Nickel	ND	0.250	0.0346	1	
Barium	ND	0.500	0.164	1		Selenium	ND	0.750	0.175	1	
Beryllium	ND	0.250	0.00368	1		Silver	0.0293	0.250	0.0209	1	J
Cadmium	ND	0.500	0.00988	1		Thallium	0.483	0.750	0.0987	1	J
Chromium	ND	0.250	0.0291	1		Vanadium	ND	0.250	0.00934	1	
Cobalt	ND	0.250	0.00859	1		Zinc	ND	1.00	0.177	1	
Copper	ND	0.500	0.0469	1		Lead	ND	0.500	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/27/05
Work Order No: 05-12-1443
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: Correia M.S. / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EB1-05	**05-12-1443-22**	**12/23/05**	**Aqueous**	**01/09/06**	**01/10/06**	**060109L08**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 1/9/2006 7:25:40 PM with batch 060109L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.0150	0.00209	1		Mercury	ND	0.000500	0.0000672	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	ND	0.00500	0.000800	1	
Barium	0.000921	0.0100	0.000719	1	J	Nickel	ND	0.00500	0.00137	1	
Beryllium	ND	0.00100	0.000176	1		Selenium	ND	0.0150	0.00295	1	
Cadmium	ND	0.00500	0.000350	1		Silver	0.000763	0.00500	0.000400	1	J
Chromium	ND	0.00500	0.000350	1		Thallium	0.00540	0.0150	0.00233	1	J,B
Cobalt	ND	0.00500	0.000696	1		Vanadium	0.000741	0.00500	0.000314	1	J,B
Copper	ND	0.00500	0.00134	1		Zinc	ND	0.0100	0.000848	1	
Lead	ND	0.0100	0.00236	1							

NM-EB1-06	**05-12-1443-26**	**12/27/05**	**Aqueous**	**01/09/06**	**01/10/06**	**060109L08**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 1/9/2006 7:27:50 PM with batch 060109L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.0150	0.00209	1		Mercury	ND	0.000500	0.0000672	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	ND	0.00500	0.000800	1	
Barium	ND	0.0100	0.000719	1		Nickel	ND	0.00500	0.00137	1	
Beryllium	ND	0.00100	0.000176	1		Selenium	ND	0.0150	0.00295	1	
Cadmium	ND	0.00500	0.000350	1		Silver	0.000853	0.00500	0.000400	1	J
Chromium	ND	0.00500	0.000350	1		Thallium	0.00666	0.0150	0.00233	1	J,B
Cobalt	ND	0.00500	0.000696	1		Vanadium	0.000676	0.00500	0.000314	1	J,B
Copper	ND	0.00500	0.00134	1		Zinc	0.00410	0.0100	0.000848	1	J
Lead	ND	0.0100	0.00236	1							

Method Blank	**099-04-008-2,286**	**N/A**	**Aqueous**	**01/09/06**	**01/09/06**	**060109L04**

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.000500	0.0000672	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/27/05
Work Order No: 05-12-1443
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: Correia M.S. / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**097-01-003-5,697**	**N/A**	**Aqueous**	**01/09/06**	**01/10/06**	**060109L08**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.0150	0.00209	1		Molybdenum	ND	0.00500	0.000800	1	
Arsenic	0.00382	0.0100	0.00308	1	J	Nickel	ND	0.00500	0.00137	1	
Barium	ND	0.0100	0.000719	1		Selenium	0.00559	0.0150	0.00295	1	J
Beryllium	ND	0.00100	0.000176	1		Silver	ND	0.00500	0.000400	1	
Cadmium	ND	0.00500	0.000350	1		Thallium	0.00365	0.0150	0.00233	1	J
Chromium	ND	0.00500	0.000350	1		Vanadium	0.000340	0.00500	0.000314	1	J
Cobalt	ND	0.00500	0.000696	1		Zinc	ND	0.0100	0.000848	1	
Copper	ND	0.00500	0.00134	1		Lead	ND	0.0100	0.00236	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3545
		Method:	EPA 8310
		Units:	ug/kg
Project: Correia M.S. / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B22-6.0	**05-12-1443-11**	**12/23/05**	**Solid**	**01/09/06**	**01/11/06**	**060109L06**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	8.0	50.0	2.6	1	J
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	9.3	50.0	2.2	1	J	Benzo (a) Pyrene	9.9	50.0	3.2	1	J
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	5.0	50.0	4.9	1	J	Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	17	50	3.1	1	J	Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	98	40-160	

NM-B22-11.5	**05-12-1443-13**	**12/23/05**	**Solid**	**01/09/06**	**01/11/06**	**060109L06**	

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	11	50	2.9	1	J
Acenaphthylene	ND	50	32	1		Chrysene	25	50	2.6	1	J
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	24	50	3.5	1	J
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	23	50	2.2	1	J	Benzo (a) Pyrene	47	50	3.2	1	J
Anthracene	6.3	50.0	1.9	1	J	Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	22	50	4.7	1	J
Pyrene	10	50	3.1	1	J	Indeno (1,2,3-c,d) Pyrene	38	50	2.5	1	J

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	136	40-160	

Method Blank	**099-07-002-618**	**N/A**	**Solid**	**01/10/06**	**01/11/06**	**060109L06**	

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	ND	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	ND	50	2.2	1		Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	94	40-160	

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/27/05
Work Order No: 05-12-1443
Preparation: EPA 3050B
Method: EPA 6010B

Project Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NM-B22-11.5	**Solid**	**ICP 3300**	**01/09/06**	**01/10/06**	**060109S07**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	29	37	50-115	23	0-20	3,4
Arsenic	85	89	75-125	3	0-20	
Barium	4X	4X	75-125	4X	0-20	Q
Beryllium	93	98	75-125	5	0-20	
Cadmium	92	98	75-125	5	0-20	
Chromium	55	71	75-125	8	0-20	3
Cobalt	91	101	75-125	7	0-20	
Copper	4X	4X	75-125	4X	0-20	Q
Lead	4X	4X	75-125	4X	0-20	Q
Molybdenum	77	82	75-125	6	0-20	
Nickel	89	89	75-125	0	0-20	
Selenium	65	67	75-125	3	0-20	3
Silver	112	112	75-125	0	0-20	
Thallium	75	85	75-125	12	0-20	
Vanadium	107	108	75-125	0	0-20	
Zinc	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/27/05
Work Order No: 05-12-1443
Preparation: EPA 3010A Total
Method: EPA 6010B

Project Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-01-0322-1	**Aqueous**	**ICP 3300**	**01/09/06**	**01/10/06**	**060109S08**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	81	77	80-120	4	0-20	3
Arsenic	100	101	80-120	1	0-20	
Barium	103	103	80-120	0	0-20	
Beryllium	91	91	80-120	1	0-20	
Cadmium	90	89	80-120	2	0-20	
Chromium	92	92	80-120	0	0-20	
Cobalt	98	97	80-120	1	0-20	
Copper	105	106	80-120	0	0-20	
Lead	90	89	80-120	1	0-20	
Molybdenum	93	91	80-120	1	0-20	
Nickel	87	85	80-120	2	0-20	
Selenium	109	106	80-120	3	0-20	
Silver	109	109	80-120	0	0-20	
Thallium	77	79	80-120	2	0-20	3
Vanadium	94	93	80-120	0	0-20	
Zinc	103	102	80-120	1	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: 12/27/05
Work Order No: 05-12-1443
Preparation: EPA 7471A Total
Method: EPA 7471A

Project Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-01-0277-2	**Solid**	**Mercury**	**01/09/06**	**01/09/06**	**060109S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	102	107	76-136	4	0-16	

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: 12/27/05
Work Order No: 05-12-1443
Preparation: EPA 7470A Total
Method: EPA 7470A

Project Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-01-0276-2	**Aqueous**	**Mercury**	**01/09/06**	**01/09/06**	**060109S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	104	107	71-134	3	0-14	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3545
		Method:	EPA 8310

Project Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NM-B22-6.0	**Solid**	**HPLC 5**	**01/09/06**	**01/11/06**	**060109S06**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	127	137	40-160	8	0-20	
Benzo (k) Fluoranthene	125	144	40-160	14	0-20	
Benzo (a) Pyrene	172	188	40-160	9	0-20	3
Dibenz (a,h) Anthracene	180	215	40-160	17	0-20	3
Benzo (g,h,i) Perylene	115	110	40-160	4	0-20	
Indeno (1,2,3-c,d) Pyrene	123	121	40-160	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	N/A
5710 Ruffin Road		Work Order No:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-7,186	**Solid**	**ICP 3300**	**01/09/06**	**01/10/06**	**060109L07**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	109	109	80-120	0	0-20	
Arsenic	105	103	80-120	2	0-20	
Barium	107	104	80-120	2	0-20	
Beryllium	101	100	80-120	1	0-20	
Cadmium	108	107	80-120	1	0-20	
Chromium	108	107	80-120	1	0-20	
Cobalt	108	106	80-120	1	0-20	
Copper	98	98	80-120	0	0-20	
Lead	106	105	80-120	1	0-20	
Molybdenum	105	104	80-120	1	0-20	
Nickel	110	109	80-120	1	0-20	
Selenium	99	98	80-120	1	0-20	
Silver	106	104	80-120	2	0-20	
Thallium	88	92	80-120	4	0-20	
Vanadium	104	104	80-120	0	0-20	
Zinc	109	108	80-120	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	N/A
5710 Ruffin Road		Work Order No:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-5,697	Aqueous	ICP 3300	01/10/06	060109-I-08	060109L08

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Antimony	0.500	0.465	93	80-120	
Arsenic	0.500	0.523	105	80-120	
Barium	0.500	0.535	107	80-120	
Beryllium	0.500	0.514	103	80-120	
Cadmium	0.500	0.546	109	80-120	
Chromium	0.500	0.548	110	80-120	
Cobalt	0.500	0.548	110	80-120	
Copper	0.500	0.497	99	80-120	
Lead	0.500	0.519	104	80-120	
Molybdenum	0.500	0.523	105	80-120	
Nickel	0.500	0.546	109	80-120	
Selenium	0.500	0.490	98	80-120	
Silver	0.250	0.266	106	80-120	
Thallium	0.500	0.535	107	80-120	
Vanadium	0.500	0.524	105	80-120	
Zinc	0.500	0.540	108	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:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 7471A Total
		Method:	EPA 7471A

Project: Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-007-3,689	Solid	Mercury	01/09/06	060109-I-05.icp	060109L05

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Mercury	0.835	0.965	116	82-124	

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:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 7470A Total
		Method:	EPA 7470A

Project: Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
099-04-008-2,286	**Aqueous**	**Mercury**	**01/09/06**	**060109-I-04 d_2.icp**	**060109L04**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Mercury	0.0100	0.0106	106	90-122	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 05-12-1443
Preparation: EPA 3545
Method: EPA 8310

Project: Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-002-618	Solid	HPLC 5	01/10/06	01/11/06	060109L06

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	125	136	40-160	8	0-20	
Benzo (k) Fluoranthene	132	144	40-160	8	0-20	
Benzo (a) Pyrene	136	148	40-160	8	0-20	
Dibenz (a,h) Anthracene	147	160	40-160	8	0-20	
Benzo (g,h,i) Perylene	122	132	40-160	8	0-20	
Indeno (1,2,3-c,d) Pyrene	123	133	40-160	8	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-12-1443

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 or Matrix Spike Duplicate 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.

FRONTIER
ANALYTICAL LABORATORY

January 27, 2006

FAL Project ID: 3674

Mr. Virendra Patel
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Mr. Patel,

Enclosed are the results for Frontier Analytical Laboratory project **3674**. This corresponds to your project number 05-12-1443. The one soil sample received on 1/11/06 was extracted and analyzed by EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans. Calscience Environmental Laboratories requested a turnaround time of fifteen business days for project **3674**.

The following Level III report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains the project-sample tracking log, a qualifier reference guide, ML/MDL reference form and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and sample photo. The Laboratory Raw Data section contains all of the bench paperwork recorded in the laboratory. This includes the project request sheet, the percent solids sheet, the extraction bench sheet, and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms for each point of the initial calibration curves as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms for all beginning and ending calibration injections associated with the samples and QC. A PDF format and the Electronic Data Deliverable (EDD) have been sent to you via email.

If you have any questions regarding project **3674**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
dioxin@frontieranalytical.com

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **3674**

Received on: **01/11/2006** Project Due: **02/02/2006** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
3674-001- SA	0	05-12-1443	NM-B22-11.5	EPA 8290 D/F	Soil	12/22/2005	10:45 am	01/21/2006

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FRONTIER ANALYTICAL LABORATORY

Qualifier Reference Guide

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J‡	Analyte concentration is below calibration range
M	Maximum possible concentration
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection
-	Analyte Not Detected
+	Spike levels were inappropriate versus the levels in the sample

‡ "J" values are equivalent to DNQ (detected but not quantified) for California Toxics Rule (CTR)/National Pollutant Discharge Elimination System (NPDES) samples

ANALYTICAL LABORATORY

EPA Method 1613/8290 Solid MDL

(Soxhlet/SDS Extraction)

Analyte	ML	MDL
2,3,7,8-TCDD	0.500	0.0573
1,2,3,7,8-PeCDD	2.50	0.114
1,2,3,4,7,8-HxCDD	2.50	0.126
1,2,3,6,7,8-HxCDD	2.50	0.161
1,2,3,7,8,9-HxCDD	2.50	0.134
1,2,3,4,6,7,8-HpCDD	2.50	0.152
OCDD	5.00	0.147
2,3,7,8-TCDF	0.500	0.0444
1,2,3,7,8-PeCDF	2.50	0.0728
2,3,4,7,8-PeCDF	2.50	0.0754
1,2,3,4,7,8-HxCDF	2.50	0.0569
1,2,3,6,7,8-HxCDF	2.50	0.0501
1,2,3,7,8,9-HxCDF	2.50	0.0548
2,3,4,6,7,8-HxCDF	2.50	0.0706
1,2,3,4,6,7,8-HpCDF	2.50	0.0632
1,2,3,4,7,8,9-HpCDF	2.50	0.0666
OCDF	5.00	0.184

Project **3017**, Extracted 1/12/05; analyzed 1/13/05. Based on 10g sample, pg/g.

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 3674-001-MB
Client ID: Method Blank
Matrix: Soil
Batch No: X0766

Date Extracted: 01-24-2006
Date Received: NA
Amount: 10.00 g

ICal: PCDDFAL1-1-26-06
GC Column: DB5
Units: pg/g

Acquired: 01-27-2006
WHO TEQ: 0.00

Compound	Conc	DL	Qual	WHO Tox	Compound	Conc	DL	Qual	#Hom
2,3,7,8-TCDD	-	0.0979		-					
1,2,3,7,8-PeCDD	-	0.190		-					
1,2,3,4,7,8-HxCDD	-	0.354		-					
1,2,3,6,7,8-HxCDD	-	0.371		-	Total Tetra-Dioxins	-	0.0979		0
1,2,3,7,8,9-HxCDD	-	0.395		-	Total Penta-Dioxins	-	0.190		0
1,2,3,4,6,7,8-HpCDD	-	0.342		-	Total Hexa-Dioxins	-	0.395		0
OCDD	-	1.14		-	Total Hepta-Dioxins	-	0.342		0
2,3,7,8-TCDF	-	0.0658		-					
1,2,3,7,8-PeCDF	-	0.226		-					
2,3,4,7,8-PeCDF	-	0.239		-					
1,2,3,4,7,8-HxCDF	-	0.124		-					
1,2,3,6,7,8-HxCDF	-	0.143		-					
2,3,4,6,7,8-HxCDF	-	0.159		-					
1,2,3,7,8,9-HxCDF	-	0.140		-	Total Tetra-Furans	-	0.0658		0
1,2,3,4,6,7,8-HpCDF	-	0.203		-	Total Penta-Furans	-	0.243		0
1,2,3,4,7,8,9-HpCDF	-	0.219		-	Total Hexa-Furans	-	0.159		0
OCDF	-	0.783		-	Total Hepta-Furans	-	0.219		0

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	87.6	40.0 - 135	
13C-1,2,3,7,8-PeCDD	84.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	91.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	88.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	76.8	40.0 - 135	
13C-OCDD	53.2	40.0 - 135	
13C-2,3,7,8-TCDF	94.0	40.0 - 135	
13C-1,2,3,7,8-PeCDF	90.2	40.0 - 135	
13C-2,3,4,7,8-PeCDF	89.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	95.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	93.1	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	84.3	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	85.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	79.3	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	96.9	40.0 - 135	
13C-OCDF	60.4	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	83.4	50.0 - 150

Analyst: [signature]
Date: 1/27/06

Reviewed By: [signature]
Date: 1/27/06

EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 3674-001-OPR
Client ID: OPR
Matrix: Soil
Batch No: X0766

Date Extracted: 01-24-2006
Date Received: NA
Amount: 10.00 g

ICal: PCDDFAL1-1-26-06
GC Column: DB5
Units: ng/ml

Acquired: 01-27-2006
WHO TEQ: NA

Compound	Conc	QC Limits
2,3,7,8-TCDD	10.5	7.00 - 13.0
1,2,3,7,8-PeCDD	53.9	35.0 - 65.0
1,2,3,4,7,8-HxCDD	54.4	35.0 - 65.0
1,2,3,6,7,8-HxCDD	54.3	35.0 - 65.0
1,2,3,7,8,9-HxCDD	54.2	35.0 - 65.0
1,2,3,4,6,7,8-HpCDD	54.8	35.0 - 65.0
OCDD	110	70.0 - 130
2,3,7,8-TCDF	10.7	7.00 - 13.0
1,2,3,7,8-PeCDF	53.6	35.0 - 65.0
2,3,4,7,8-PeCDF	53.7	35.0 - 65.0
1,2,3,4,7,8-HxCDF	53.3	35.0 - 65.0
1,2,3,6,7,8-HxCDF	54.6	35.0 - 65.0
2,3,4,6,7,8-HxCDF	54.3	35.0 - 65.0
1,2,3,7,8,9-HxCDF	54.1	35.0 - 65.0
1,2,3,4,6,7,8-HpCDF	54.9	35.0 - 65.0
1,2,3,4,7,8,9-HpCDF	55.0	35.0 - 65.0
OCDF	108	70.0 - 130

Internal Standards	% Rec	QC Limits
13C-2,3,7,8-TCDD	94.2	40.0 - 135
13C-1,2,3,7,8-PeCDD	88.7	40.0 - 135
13C-1,2,3,4,7,8-HxCDD	96.4	40.0 - 135
13C-1,2,3,6,7,8-HxCDD	91.0	40.0 - 135
13C-1,2,3,4,6,7,8-HpCDD	91.0	40.0 - 135
13C-OCDD	65.1	40.0 - 135
13C-2,3,7,8-TCDF	97.6	40.0 - 135
13C-1,2,3,7,8-PeCDF	96.0	40.0 - 135
13C-2,3,4,7,8-PeCDF	94.5	40.0 - 135
13C-1,2,3,4,7,8-HxCDF	100	40.0 - 135
13C-1,2,3,6,7,8-HxCDF	96.9	40.0 - 135
13C-2,3,4,6,7,8-HxCDF	92.6	40.0 - 135
13C-1,2,3,7,8,9-HxCDF	95.9	40.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	93.3	40.0 - 135
13C-1,2,3,4,7,8,9-HpCDF	111	40.0 - 135
13C-OCDF	73.6	40.0 - 135

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	90.4	50.0 - 150

Analyst: [illegible]
Date: 1/27/06

Reviewed By: [illegible]
Date: 1/27/06

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EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 3674-001-SA
Client ID: NM-B22-11.5
Matrix: Soil
Batch No: X0766

Date Extracted: 01-24-2006
Date Received: 01-11-2006
Amount: 10.13 g
% Solids: 86.70

ICal: PCDDFAL1-1-26-06
GC Column: DB5
Units: pg/g

Acquired: 01-27-2006
WHO TEQ: 25.5

Compound	Conc	DL	Qual	WHO Tox	Compound	Conc	DL	Qual	#Hom
2,3,7,8-TCDD	1.15	-		1.15					
1,2,3,7,8-PeCDD	3.43	-		3.43					
1,2,3,4,7,8-HxCDD	2.83	-		0.283					
1,2,3,6,7,8-HxCDD	10.3	-		1.03	Total Tetra-Dioxins	64.4	-		15
1,2,3,7,8,9-HxCDD	7.47	-		0.747	Total Penta-Dioxins	72.9	-		10
1,2,3,4,6,7,8-HpCDD	111	-		1.11	Total Hexa-Dioxins	145	-		8
OCDD	516	-		0.05160	Total Hepta-Dioxins	196	-		2
2,3,7,8-TCDF	14.7	-	F	1.47					
1,2,3,7,8-PeCDF	11.2	-		0.560					
2,3,4,7,8-PeCDF	18.6	-		9.32					
1,2,3,4,7,8-HxCDF	15.3	-		1.53					
1,2,3,6,7,8-HxCDF	16.6	-		1.66					
2,3,4,6,7,8-HxCDF	21.3	-		2.13					
1,2,3,7,8,9-HxCDF	2.00	-	J	0.200	Total Tetra-Furans	390	-		23
1,2,3,4,6,7,8-HpCDF	84.1	-		0.841	Total Penta-Furans	235	-		18
1,2,3,4,7,8,9-HpCDF	3.04	-		0.0304	Total Hexa-Furans	173	-		13
OCDF	29.0	-		0.00290	Total Hepta-Furans	111	-		4

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.3	40.0 - 135	
13C-1,2,3,7,8-PeCDD	88.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	92.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	88.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	93.2	40.0 - 135	
13C-OCDD	88.4	40.0 - 135	
13C-2,3,7,8-TCDF	100	40.0 - 135	
13C-1,2,3,7,8-PeCDF	95.9	40.0 - 135	
13C-2,3,4,7,8-PeCDF	93.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	93.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	91.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	90.3	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	93.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	90.3	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	107	40.0 - 135	
13C-OCDF	89.8	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	96.6	50.0 - 150

Analyst: _____
Date: 1/27/06

Reviewed By: _____
Date: 1/27/06

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

TO: FRONTIER

3674
0'

CHAIN OF CUSTODY RECORD

Date 1/10/06

Page 1 of 1

LABORATORY CLIENT:

ADDRESS: AS ABOVE

CITY STATE ZIP

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: 05-12-1443

PROJECT CONTACT: VIRENDRA PATEL

SAMPLER(S): (SIGNATURE)

COELT LOG CODE

P.O. NO.:

LAB USE ONLY

COOLER RECEIPT TEMP = °C

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

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

SPECIAL INSTRUCTIONS:
LEVEL III PDF FILE REQUIRED
SEND DATA VIA EMAIL
WHEN READY

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	EPA 8290 Dioxins / Furans			
	NM-B22-11.5		12/22/05	1045	S	1														X			

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
CEL	CA Overnight # 111-534-242	1/10/06	1700
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
		1/11/06	16:30

DISTRIBUTION: When with final report, Green to file, 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.

10/20/04 Revision

Q&Q Graphic 714-898-9702

FRONTIER ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **3674**

Client:	Calscience
Client Project ID:	05-12-1443
Date Received:	01/11/2006
Time Received:	04:30 pm
Received By:	KZ
Logged In By:	KZ
# of Samples Received:	1
Duplicates:	0
Storage Location:	R1

Method of Delivery:	California Overnight
Tracking Number:	B10140857139
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	01/21/2006
Adequate Sample Volume	Yes
Anomalies or additional comments:	

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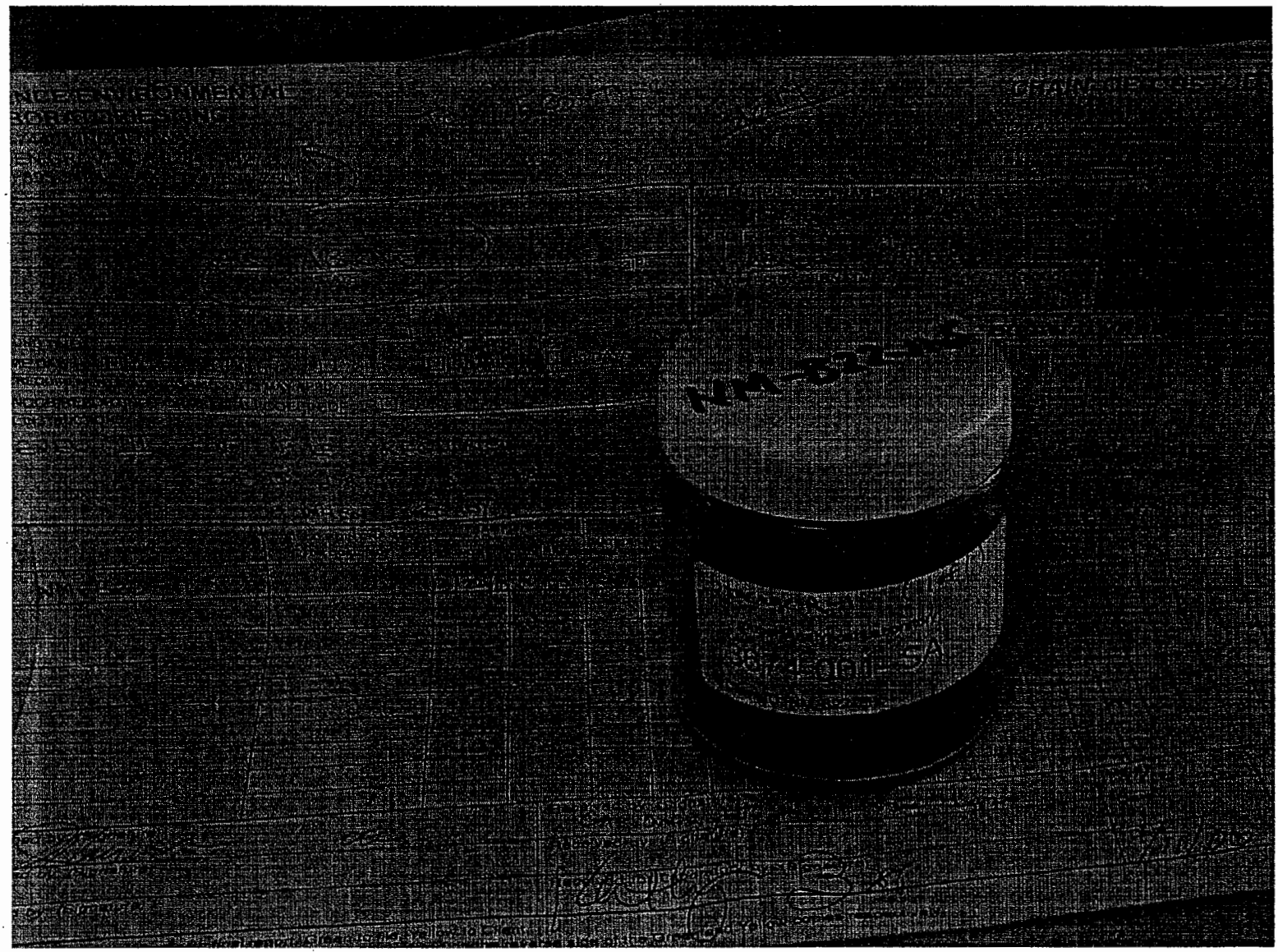
FRONTIER
ANALYTICAL LABORATORY



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Calscience Environmental Laboratories, Inc.

January 09, 2006

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

Subject: **Calscience Work Order No.: 05-12-1443**
Client Reference: Correia M.S. / 105338029

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/27/2005 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 any subcontracted analysis 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.

Case Narrative for 05-12-1443

Sample Condition on Receipt

Two aqueous samples and twenty-four soil samples were received as part of this Work Order on December 27, 2005. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.2°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of-custody (COC) records. Data is presented on a wet weight basis.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels, with the exception of select constituents. Please see Table A below for details.

Table A: Trace levels present in associated method blanks	
EPA Method 6010B	
Batch #	Analyte(s)
051228L01	Lead
051229L04A	Arsenic

Reportable concentrations on the associated batch of samples have been flagged with a "B" qualifier, indicating blank contamination. Therefore, the results have been released without any further action or qualification.

Calscience
Environmental
Laboratories, Inc.

Case Narrative for 05-12-1443

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits.

Table B: Matrix Spike / Matrix Spike Duplicate outside acceptable limits	
EPA Method 6010B	
Batch #	Analytes(s)
051228S01	Lead

Note that the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) recoveries were within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Sample Summary Report

WORK ORDER #: **05-12-1443** **QAPP:** **0117**

#	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	NM-B20-1.0	S	12/23/2005	1	
2	NM-B20-5.0	S	12/23/2005	1	
3	NM-B20-10.0	S	12/23/2005	1	
4	NM-B20-11.0	S	12/23/2005	1	
5	NM-B20-15.0	S	12/23/2005	1	
6	NM-B20-20.0	S	12/23/2005	1	
7	NM-B20-25.0	S	12/23/2005	1	
8	NM-B20-30.0	S	12/23/2005	1	
9	NM-B22-1.0	S	12/23/2005	1	
10	NM-B22-5.0	S	12/23/2005	1	
11	NM-B22-6.0	S	12/23/2005	1	
12	NM-B22-10.0	S	12/23/2005	1	
13	NM-B22-11.5	S	12/23/2005	1	
14	NM-B22-15.0	S	12/23/2005	1	
15	NM-B22-17.5	S	12/23/2005	1	
16	NM-B22-25.0	S	12/23/2005	1	
17	NM-B22-30.0	S	12/23/2005	1	
18	NM-B22-32.5	S	12/23/2005	1	
19	NM-B22-34.5	S	12/23/2005	1	
20	NM-B22-40.0	S	12/23/2005	1	
21	NM-B22-45.0	S	12/23/2005	1	
22	NM-EB1-05	W	12/23/2005	1	
23	NM-HA1-0.5	S	12/27/2005	1	
24	NM-HA2-0.5	S	12/27/2005	1	
25	NM-HA2-1.5	S	12/27/2005	1	
26	NM-EB1-06	W	12/27/2005	2	

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 0 5 - 1 2 - 1 4 4 3

Cooler 1 **of** 1

SAMPLE RECEIPT FORM

CLIENT: NINYO & MOORE **DATE:** 12/27/05

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.

LABORATORY (Other than Calscience Courier):

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

3.2 °C Temperature blank. Initial: RD

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact) : ____ Not Applicable (N/A): ✓

Initial: RD

SAMPLE CONDITION:

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

Initial: RD

COMMENTS:

Sample #7 (NM-B20-25.0) is labeled as NM03-B20-25.0

Sample #8 (NM-B20-30.0) is labeled as NM03-B20-30.0

Sample #17 (NM-B22-30.0) is labeled as NM-B20-30.0

T.P 12/27/05

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-23-05

Page 1 of 3

LABORATORY CLIENT: Nuyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-576-1000 FAX: 858-576-9600 E-MAIL: lhedges@nuyoandmoore.com

CLIENT PROJECT NAME / NUMBER: Correia MLS. / 105238029
PROJECT CONTACT: LAUREN Hedges
SAMPLER(S): (SIGNATURE) Matt Fall
COELT LOG CODE
P.O. NO.:
LAB USE ONLY: 12-1443
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:
Level III data evaluation
Hold all samples for future analysis
Hold all samples w/out analysis marked.

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead	Arsenic	PAH			
	NM-B20-1.0		12-23-05	0832	soil	01														X	X				
	NM-B20-5.0			0835																X	X				
	NM-B20-10.0			0845																					HOLD
	NM-B20-11.0			0852																X	X				
	NM-B20-15.0			0855																X	X	X			
	NM-B20-20.0			0902																X	X				
	NM-B20-25.0			0913																X	X				
	NM-B20-30.0			0920																X	X				
	NM-B22-1.0			1020																X	X				
	NM-B22-5.0			1030																					HOLD

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Matt Fall	[signature]	12/27/05	13:08
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
[signature]	[signature]	12/27/05	16:35

DISTRIBUTION: When with final report, Green to file, 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.

10/20/04 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia M.S. / 105338029			Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B20-1.0	05-12-1443-1	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.09	0.75	0.130	1		Lead	14.8	0.5	0.0527	1	B

NM-B20-5.0	05-12-1443-2	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.76	0.75	0.130	1		Lead	17.8	0.5	0.0527	1	B

NM-B20-11.0	05-12-1443-4	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.29	0.75	0.130	1		Lead	33.6	0.5	0.0527	1	B

NM-B20-15.0	05-12-1443-5	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.45	0.75	0.130	1		Lead	486	0.500	0.0527	1	B

NM-B20-20.0	05-12-1443-6	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.66	0.75	0.130	1		Lead	5.45	0.50	0.0527	1	B

NM-B20-25.0	05-12-1443-7	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.53	0.75	0.130	1		Lead	5.56	0.50	0.0527	1	B

NM-B20-30.0	05-12-1443-8	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.18	0.75	0.130	1		Lead	2.08	0.50	0.0527	1	B

NM-B22-1.0	05-12-1443-9	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.37	0.75	0.130	1		Lead	5.54	0.50	0.0527	1	B

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:	12/27/05
Work Order No:	05-12-1443
Preparation:	EPA 3050B
Method:	EPA 6010B
Units:	mg/kg

Project: Correia M.S. / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B22-6.0	**05-12-1443-11**	**12/23/05**	**Solid**	**12/28/05**	**12/29/05**	**051228L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.32	0.75	0.130	1		Lead	311	0.500	0.0527	1	B

NM-B22-11.5	**05-12-1443-13**	**12/23/05**	**Solid**	**12/28/05**	**12/29/05**	**051228L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	17.3	0.8	0.130	1		Lead	11700	50	5.27	100	B

NM-B22-15.0	**05-12-1443-14**	**12/23/05**	**Solid**	**12/28/05**	**12/29/05**	**051228L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.58	0.75	0.130	1		Lead	54.6	0.5	0.0527	1	B

NM-B22-25.0	**05-12-1443-16**	**12/23/05**	**Solid**	**12/28/05**	**12/29/05**	**051228L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.96	0.75	0.130	1		Lead	14.0	0.5	0.0527	1	B

NM-B22-32.5	**05-12-1443-18**	**12/23/05**	**Solid**	**12/28/05**	**12/29/05**	**051228L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.16	0.75	0.130	1		Lead	65.2	0.5	0.0527	1	B

NM-B22-40.0	**05-12-1443-20**	**12/23/05**	**Solid**	**12/28/05**	**12/29/05**	**051228L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.23	0.75	0.130	1		Lead	4.56	0.50	0.0527	1	B

NM-B22-45.0	**05-12-1443-21**	**12/23/05**	**Solid**	**12/28/05**	**12/29/05**	**051228L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.42	0.75	0.130	1		Lead	2.79	0.50	0.0527	1	B

NM-HA1-0.5	**05-12-1443-23**	**12/27/05**	**Solid**	**12/28/05**	**12/29/05**	**051228L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.99	0.75	0.130	1		Lead	4.89	0.50	0.0527	1	B

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: Correia M.S. / 105338029

Date Received:	12/27/05
Work Order No:	05-12-1443
Preparation:	EPA 3050B
Method:	EPA 6010B
Units:	mg/kg
	Page 3 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-HA2-0.5	**05-12-1443-24**	**12/27/05**	**Solid**	**12/28/05**	**12/29/05**	**051228L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.09	0.75	0.130	1		Lead	152	0.500	0.0527	1	B

NM-HA2-1.5	**05-12-1443-25**	**12/27/05**	**Solid**	**12/28/05**	**12/29/05**	**051228L01**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.55	0.75	0.130	1		Lead	188	0.500	0.0527	1	B

Method Blank	**097-01-002-7,155**	**N/A**	**Solid**	**12/28/05**	**12/29/05**	**051228L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	0.0675	0.500	0.0527	1	J

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Project: Correia M.S. / 105338029

Date Received:	12/27/05
Work Order No:	05-12-1443
Preparation:	EPA 3010A Total
Method:	EPA 6010B
Units:	mg/L
	Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EB1-05	**05-12-1443-22**	**12/23/05**	**Aqueous**	**12/29/05**	**12/29/05**	**051229L04A**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.0100	0.00308	1		Lead	ND	0.0100	0.00236	1	

NM-EB1-06	**05-12-1443-26**	**12/27/05**	**Aqueous**	**12/29/05**	**12/29/05**	**051229L04A**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.00485	0.0100	0.00308	1	J,B	Lead	ND	0.0100	0.00236	1	

Method Blank	**097-01-003-5,668**	**N/A**	**Aqueous**	**12/29/05**	**12/30/05**	**051229L04A**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.00342	0.0100	0.00308	1	J	Lead	ND	0.0100	0.00236	1	

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:	12/27/05
Work Order No:	05-12-1443
Preparation:	EPA 3545
Method:	EPA 8310
Units:	ug/kg

Project: Correia M.S. / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B20-15.0	**05-12-1443-5**	**12/23/05**	**Solid**	**01/05/06**	**01/06/06**	**060105L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	5.0	50.0	2.9	1	J
Acenaphthylene	ND	50	32	1		Chrysene	20	50	2.6	1	J
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	10	50	3.5	1	J
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	8.8	50.0	2.2	1	J	Benzo (a) Pyrene	17	50	3.2	1	J
Anthracene	2.2	50.0	1.9	1	J	Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	12	50	4.9	1	J	Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	16	50	3.1	1	J	Indeno (1,2,3-c,d) Pyrene	11	50	2.5	1	J

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	100	40-160	

NM-B22-32.5	**05-12-1443-18**	**12/23/05**	**Solid**	**01/05/06**	**01/06/06**	**060105L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	6.8	50.0	2.6	1	J
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	3.8	50.0	3.5	1	J
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	5.2	50.0	2.2	1	J	Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	32	50	4.4	1	J
Fluoranthene	8.3	50.0	4.9	1	J	Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	4.4	50.0	2.5	1	J

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	95	40-160	

Method Blank	**099-07-002-617**	**N/A**	**Solid**	**01/05/06**	**01/06/06**	**060105L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	ND	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	ND	50	2.2	1		Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	99	40-160	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3510B
		Method:	EPA 8310
		Units:	ug/L
Project: Correia M.S. / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EB1-05	**05-12-1443-22**	**12/23/05**	**Aqueous**	**12/28/05**	**12/30/05**	**051228L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	74	40-160	

NM-EB1-06	**05-12-1443-26**	**12/27/05**	**Aqueous**	**12/28/05**	**12/30/05**	**051228L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	70	40-160	

Method Blank	**099-07-003-676**	**N/A**	**Aqueous**	**12/28/05**	**12/28/05**	**051228L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	80	40-160	

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received:	12/27/05
Work Order No:	05-12-1443
Preparation:	EPA 3050B
Method:	EPA 6010B

Project Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NM-B20-5.0	**Solid**	**ICP 3300**	**12/28/05**	**12/29/05**	**051228S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	105	104	75-125	1	0-20	
Lead	79	70	75-125	6	0-20	3

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: 12/27/05
Work Order No: 05-12-1443
Preparation: EPA 3010A Total
Method: EPA 200.7

Project Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1513-1	**Aqueous**	**ICP 3300**	**12/29/05**	**12/30/05**	**051229S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	102	103	80-120	1	0-20	
Lead	101	102	80-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3545
		Method:	EPA 8310

Project Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
06-01-0117-1	**Solid**	**HPLC 5**	**01/05/06**	**01/06/06**	**060105S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	102	110	40-160	5	0-20	
Benzo (k) Fluoranthene	104	113	40-160	8	0-20	
Benzo (a) Pyrene	117	137	40-160	8	0-20	
Dibenz (a,h) Anthracene	123	111	40-160	10	0-20	
Benzo (g,h,i) Perylene	82	91	40-160	7	0-20	
Indeno (1,2,3-c,d) Pyrene	78	116	40-160	20	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:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-7,155	**Solid**	**ICP 3300**	**12/29/05**	**051228-I-01**	**051228L01**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	25.0	25.8	103	80-120	
Lead	25.0	27.0	108	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:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-5,668	**Aqueous**	**ICP 3300**	**12/29/05**	**12/30/05**	**051229L04A**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	101	95	80-120	6	0-20	
Lead	103	105	80-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 05-12-1443
Preparation: EPA 3545
Method: EPA 8310

Project: Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-002-617	Solid	HPLC 5	01/05/06	01/06/06	060105L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	114	126	40-160	9	0-20	
Benzo (k) Fluoranthene	120	132	40-160	10	0-20	
Benzo (a) Pyrene	116	126	40-160	9	0-20	
Dibenz (a,h) Anthracene	134	146	40-160	8	0-20	
Benzo (g,h,i) Perylene	110	119	40-160	8	0-20	
Indeno (1,2,3-c,d) Pyrene	112	121	40-160	8	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 05-12-1443
Preparation: EPA 3510B
Method: EPA 8310

Project: Correia M.S. / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-003-676	**Aqueous**	**HPLC 5**	**12/28/05**	**12/28/05**	**051228L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	105	111	40-160	6	0-20	
Benzo (k) Fluoranthene	110	117	40-160	6	0-20	
Benzo (a) Pyrene	107	113	40-160	6	0-20	
Dibenz (a,h) Anthracene	124	128	40-160	3	0-20	
Benzo (g,h,i) Perylene	99	104	40-160	5	0-20	
Indeno (1,2,3-c,d) Pyrene	101	108	40-160	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-12-1443

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 or Matrix Spike Duplicate 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.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-23-05

Page 2 of 3

LABORATORY CLIENT: Ninyo & Moore

ADDRESS:

CITY STATE ZIP

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: 105338027

PROJECT CONTACT: Lauren Hedges

SAMPLER(S): (SIGNATURE) Matt Tyler

COELT LOG CODE

P.O. NO.:

LAB USE ONLY 12-1443

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: Level III Data Evaluation

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total lead	Arsenic	PAH			
	NM-B22-6.0		12-23-05	1032	Soil	01														X	X				
	NM-B22-10.0			1038																~~X~~	~~X~~				HOLD
	NM-B22-11.5			1045																~~X~~	~~X~~	stet			
	NM-B22-15.0			1049																X	X				
	NM-B22-17.5			1056																~~X~~	~~X~~	12-27-05			HOLD
	NM-B22-25.0			1116																X	X				
	NM-B22-30.0			1134																~~X~~	~~X~~	12-27-05			HOLD
	NM-B22-32.5			1142																X	X	X			
	NM-B22-34.5			1146																~~X~~	~~X~~	12-27-05			HOLD
	NM-B22-40.0			1200																X	X				

Relinquished by: (Signature) Matt Tyler	Received by: (Signature) CEL	Date: 12/27/05	Time: 13:08
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature) CEL	Date: 12/27/05	Time: 16:35

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10/20/04 Revision

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CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-23-05

Page 3 of 3

LABORATORY CLIENT: Nuyo & Moore

ADDRESS: 5710 Ruffin Rd

CITY | STATE | ZIP

TEL: | FAX: | E-MAIL:

CLIENT PROJECT NAME / NUMBER: 105338029

PROJECT CONTACT: LAUREN HEDGES

SAMPLER(S): (SIGNATURE)

COELT LOG CODE

P.O. NO.:

LAB USE ONLY: 12-1443

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: Level III Data Eval

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead	Arsenic	PAH		
	~~NM-B3~~ - NM-B22-45.0		12-23-05	1211	soil	01														X	X			
	NM-EB~~1~~-05		12-23-05	1230	H_2O	↓														X	X	X		
	NM-HA1-0.5		12-27-05	1055	soil	01														X	X			
	NM-HA2-0.5		↓	1127	↓	↓														X	X			
	NM-HA2-1.5		↓	1145	↓	↓														X	X			
	NM-EB1-06		12-27-05	1200	H_2O	02														X	X	X		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		12/27/05	13:08
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	12/27/05	16:35

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10/20/04 Revision

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Calscience
Environmental
Laboratories, Inc.

January 06, 2006

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

Subject: **Calscience Work Order No.: 05-12-1442**
Client Reference: SDUSD / 105338029

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/27/2005 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 any subcontracted analysis 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.

Case Narrative for 05-12-1442

Sample Condition on Receipt

One aqueous sample and eleven soil samples were received as part of this Work Order on December 27, 2005. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.2°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of-custody (COC) records and faxed COC dated 12/28/05. Data is presented on a wet weight basis.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels, with the exception of select constituents. Please see Table A below for details.

Table A: Trace levels present in associated method blanks	
EPA Method 6010B	
Batch #	Analyte(s)
051228L04	Arsenic & Lead
051229L04A	Arsenic

Reportable concentrations on the associated batch of samples have been flagged with a "B" qualifier, indicating blank contamination. Therefore, the results have been released without any further action or qualification.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

Calscience
Environmental
Laboratories, Inc.

Case Narrative for 05-12-1442

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Sample Summary Report

WORK ORDER #: **05-12-1442** **QAPP:** **0000**

#	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	NM-B12 (0.5-1.0)	S	12/22/2005	1	
2	NM-B12 (6-6.5)	S	12/22/2005	1	
3	NM-B12 (10.0-10.5)	S	12/22/2005	1	
4	NM-B12 (16-16.5)	S	12/22/2005	1	
5	NM-B13 (1.0-1.5)	S	12/22/2005	1	
6	NM-B13 (5.0-5.5)	S	12/22/2005	1	
7	NM-B13 (10.5-11.0)	S	12/22/2005	1	
8	NM-B13 (15.5-16.0)	S	12/22/2005	1	
9	NM-EB1-04	W	12/22/2005	2	
10	NM-B11-1.0	S	12/22/2005	1	
11	NM-B11-5.0	S	12/22/2005	1	
12	NM-B11-10.0	S	12/22/2005	1	

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 05-12-1442

Cooler 1 **of** 1

SAMPLE RECEIPT FORM

CLIENT: NINYO & MOORE **DATE:** 12/27/05

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.

3.2 °C Temperature blank.

LABORATORY (Other than Calscience Courier):

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

Initial: ✓

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact) : ____ Not Applicable (N/A): BJ

Initial: BJ

SAMPLE CONDITION:

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

Initial: BJ

COMMENTS:

Received (3) three extra soil sample not listed in COC w/ sample ID NM-B11-1.0 @ 12/22/05; 15:35, NM-B11-5.0 @ 12/22/05, 15:45 and NM-B11-10.0 @ 12/22/05, 16:00, label as #10, 11 & 12.

Ninyo & Moore Transmittal

5710 Ruffin Road, San Diego, California 92123 ◊ Phone 858/576-1000 ◊ Fax 858/576-9600 ◊ www.ninyoandmoore.com

To:	Vrindra	Date:	05-12-1442
Firm:	CEL	Fax No:	714 894 7501
Address:		Telephone No:	
From:	VJS	Total Pages Including Transmittal:	2
Subject:	COC	Project No:	105338027

☒ Urgent ☐ For Approval ☐ For Your Use ☐ Please Reply ☐ As Requested

Original Document: ☐ Will Not Follow ☐ Will Follow ☐ By U.S. Mail ☐ By Other

Vrindra,
Here is the COC for
NM-B11 – 1.0
– 5.0
– 10.0

Thanks
Jim S.
X1222

- Geotechnical Engineering
- Engineering Geology
- Materials Testing and Inspection
- Construction Management
- Engineering Design
- Environmental Engineering
- Environmental Site Assessments
- Regulatory Compliance and Permitting
- Water Quality and Resource Evaluations
- Hazardous Waste Management
- Soil and Groundwater Remediation
- Asbestos and Lead-Based Paint Surveys
- Geophysical Studies
- Mineral Resource Evaluations
- Value Engineering
- Forensic Studies
- Expert Witness Testimony

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-28-05

Page 1 of 1

LABORATORY CLIENT: Ninyo & Moore

ADDRESS: 5710 Ruffin Rd

CITY: San Diego STATE: CA ZIP: 92123

TEL: FAX: E-MAIL: lhedges@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: SDUSD / 105338029

PROJECT CONTACT: Lauren Hedges

SAMPLER(S): (SIGNATURE) MLF

COELT LOG CODE

P.O. NO.:

LAB USE ONLY

COOLER RECEIPT TEMP

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:
Level III data evaluation
(HOLD All samples for future analyses)

05-12-1442

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE (2005)	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	TOTAL LEAD	ARSENIC	PAH		
	NM-B11-1.0		12/22	1535	S	1														X	X			
	NM-B11-5.0		12/22	1545	S	1														X	X			
	NM-B11-10.0		12/22	1600	S	1														X	X			

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]		12/28/05	10:00
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:

DISTRIBUTION: When with final report, Green to file, Yellow to Client.
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10/20/04 Revision

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-22-05

Page 1 of 1

LABORATORY CLIENT: Niyati & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-576-1000 FAX: 858-576-9600 E-MAIL: lhedges@nyandmoore.
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: ~~Data~~ Level III data evaluation
HOLD All Samples for possible future analysis

CLIENT PROJECT NAME / NUMBER: SDUSD / 105338029
PROJECT CONTACT: LAUREN HEDGES
SAMPLER(S): (SIGNATURE)
COELT LOG CODE
P.O. NO.:
LAB USE ONLY: 12-1442
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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	total lead	Arsenic	PAH		
	NM-B12 (0.5-1.0)		12-22-05	0925	soil	01														X	X			
	NM-B12 (6-6.5)			0934																X	X			
	NM-B12 (10.0-10.5)			0952																X	X			
	NM-B12 (16-16.5)			1019																X	X			
	NM-B13 (1.0-1.5)			1048																X	X			
	NM-B13 (5.0-5.5)			1054																X	X			
	NM-B13 (10.5-11.0)			1115																X	X			
	NM-B13 (15.5-16.0)			1137																X	X			
	NM-EB1-04			1125	water	02														X	X	X		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	CEL	12/27/05	13:08
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature) CEL	12/27/05	16:35

DISTRIBUTION: When with final report, Green to file, 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.

10/20/04 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 12/27/05
Work Order No: 05-12-1442
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDUSD / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B12 (0.5-1.0)	**05-12-1442-1**	**12/22/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L13A**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.29	0.75	0.130	1		Lead	3.31	0.50	0.0527	1	

NM-B12 (6-6.5)	**05-12-1442-2**	**12/22/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L13A**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.52	0.75	0.130	1		Lead	6.90	0.50	0.0527	1	

NM-B12 (10.0-10.5)	**05-12-1442-3**	**12/22/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L13A**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.27	0.75	0.130	1		Lead	4.46	0.50	0.0527	1	

NM-B12 (16-16.5)	**05-12-1442-4**	**12/22/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L13A**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.32	0.75	0.130	1		Lead	3.29	0.50	0.0527	1	

NM-B13 (1.0-1.5)	**05-12-1442-5**	**12/22/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L13A**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.52	0.75	0.130	1		Lead	2.54	0.50	0.0527	1	

NM-B13 (5.0-5.5)	**05-12-1442-6**	**12/22/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.40	0.75	0.130	1		Lead	2.34	0.50	0.0527	1	

NM-B13 (10.5-11.0)	**05-12-1442-7**	**12/22/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.54	0.75	0.130	1		Lead	9.94	0.50	0.0527	1	

NM-B13 (15.5-16.0)	**05-12-1442-8**	**12/22/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.36	0.75	0.130	1		Lead	3.90	0.50	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1442
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: SDUSD / 105338029			Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B11-1.0	**05-12-1442-10**	**12/22/05**	**Solid**	**12/28/05**	**12/29/05**	**051228L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.76	0.75	0.130	1	B	Lead	4.70	0.50	0.0527	1	B

NM-B11-5.0	**05-12-1442-11**	**12/22/05**	**Solid**	**12/28/05**	**12/29/05**	**051228L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	1.89	0.75	0.130	1	B	Lead	2.70	0.50	0.0527	1	B

NM-B11-10.0	**05-12-1442-12**	**12/22/05**	**Solid**	**12/28/05**	**12/29/05**	**051228L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.80	0.75	0.130	1	B	Lead	2.42	0.50	0.0527	1	B

Method Blank	**097-01-002-7,148**	**N/A**	**Solid**	**12/28/05**	**12/29/05**	**051228L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.151	0.750	0.130	1	J	Lead	0.134	0.500	0.0527	1	J

Method Blank	**097-01-002-7,157**	**N/A**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	ND	0.500	0.0527	1	

Method Blank	**097-01-002-7,161**	**N/A**	**Solid**	**12/28/05**	**12/28/05**	**051227L13A**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	ND	0.500	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: SDUSD / 105338029

Date Received:	12/27/05
Work Order No:	05-12-1442
Preparation:	EPA 3010A Total
Method:	EPA 6010B
Units:	mg/L

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EB1-04	**05-12-1442-9**	**12/22/05**	**Aqueous**	**12/29/05**	**12/29/05**	**051229L04A**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.00355	0.0100	0.00308	1	J,B	Lead	ND	0.0100	0.00236	1	

Method Blank	**097-01-003-5,668**	**N/A**	**Aqueous**	**12/29/05**	**12/30/05**	**051229L04A**	

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.00342	0.0100	0.00308	1	J	Lead	ND	0.0100	0.00236	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1442
San Diego, CA 92123-1013		Preparation:	EPA 3510B
		Method:	EPA 8310
		Units:	ug/L
Project: SDUSD / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EB1-04	**05-12-1442-9**	**12/22/05**	**Aqueous**	**12/28/05**	**12/30/05**	**051228L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	87	40-160	

Method Blank	**099-07-003-676**	**N/A**	**Aqueous**	**12/28/05**	**12/28/05**	**051228L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	80	40-160	

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1442
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project SDUSD / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1350-12	**Solid**	**ICP 3300**	**12/27/05**	**12/28/05**	**051227S13**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	104	115	75-125	6	0-20	
Lead	87	87	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1442
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project SDUSD / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1349-13	**Solid**	**ICP 3300**	**12/27/05**	**12/29/05**	**051227S14**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	100	98	75-125	1	0-20	
Lead	106	106	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1442
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project SDUSD / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1454-21	**Solid**	**ICP 3300**	**12/28/05**	**12/29/05**	**051228S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	97	96	75-125	1	0-20	
Lead	91	93	75-125	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1442
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 200.7

Project SDUSD / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1513-1	**Aqueous**	**ICP 3300**	**12/29/05**	**12/30/05**	**051229S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	102	103	80-120	1	0-20	
Lead	101	102	80-120	2	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:	05-12-1442
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: SDUSD / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-7,161	**Solid**	**ICP 3300**	**12/28/05**	**051227-I-13**	**051227L13A**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	25.0	23.3	93	80-120	
Lead	25.0	24.2	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:	05-12-1442
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: SDUSD / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-7,157	**Solid**	**ICP 3300**	**12/29/05**	**051227-I-14**	**051227L14**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	25.0	25.4	102	80-120	
Lead	25.0	26.7	107	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:	05-12-1442
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: SDUSD / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-7,148	**Solid**	**ICP 3300**	**12/29/05**	**051228-I-04**	**051228L04**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	25.0	25.1	101	80-120	
Lead	25.0	26.1	104	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:	05-12-1442
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: SDUSD / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-003-5,668	**Aqueous**	**ICP 3300**	**12/29/05**	**12/30/05**	**051229L04A**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	101	95	80-120	6	0-20	
Lead	103	105	80-120	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received:	N/A
Work Order No:	05-12-1442
Preparation:	EPA 3510B
Method:	EPA 8310

Project: SDUSD / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-003-676	**Aqueous**	**HPLC 5**	**12/28/05**	**12/28/05**	**051228L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	105	111	40-160	6	0-20	
Benzo (k) Fluoranthene	110	117	40-160	6	0-20	
Benzo (a) Pyrene	107	113	40-160	6	0-20	
Dibenz (a,h) Anthracene	124	128	40-160	3	0-20	
Benzo (g,h,i) Perylene	99	104	40-160	5	0-20	
Indeno (1,2,3-c,d) Pyrene	101	108	40-160	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-12-1442

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 or Matrix Spike Duplicate 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.

January 04, 2006

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

Subject: **Calscience Work Order No.: 05-12-1349**
Client Reference: Correia Middle School / 105338029

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/22/2005 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 any subcontracted analysis 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.

Case Narrative for 05-12-1349

Sample Condition on Receipt

Seventeen soil samples and one aqueous samples were received as part of this Work Order on December 22, 2005. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.7°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of-custody (COC) records. Data is presented on a wet weight basis.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels for all constituents.

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Sample Summary Report

WORK ORDER #: **05-12-1349** **QAPP:** **0117**

#	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	NM-HA5-1.5	S	12/21/2005	1	
2	NM-HA5-0.5	S	12/21/2005	1	
3	NM-HA4-0.5	S	12/21/2005	1	
4	NM-HA4-1.5	S	12/21/2005	1	
5	NM-HA3-0.5	S	12/21/2005	1	
6	NM-HA3-1.0	S	12/21/2005	1	
7	EB2-3	W	12/21/2005	1	
8	NM-B29 (0.5-1.0)	S	12/21/2005	1	
9	NM-B29 (4.5-5.0)	S	12/21/2005	1	
10	NM-B16 (1.5-2.0)	S	12/21/2005	1	
11	NM-B16 (4.5-5.0)	S	12/21/2005	1	
12	NM-B16 (9.5-10.0)	S	12/21/2005	1	
13	NM-B16 (14.5-15.0)	S	12/21/2005	1	
14	NM-B15 (1.0-1.5)	S	12/21/2005	1	
15	NM-B15 (4.5-5.0)	S	12/21/2005	1	
16	NM-B15 (9.5-10.0)	S	12/21/2005	1	
17	NM-B15 (14.5-15.0)	S	12/21/2005	1	
18	NM-B15 (18.5-19.0)	S	12/21/2005	1	
19	NM-B12 (0.5-1.0)	S	12/22/2005	1	Sample was not received
20	NM-B12 (6.0-6.5)	S	12/22/2005	1	Sample was not received
21	NM-B12 (10.0-10.5)	S	12/22/2005	1	Sample was not received
22	NM-B12 (16.0-16.5)	S	12/22/2005	1	Sample was not received
23	NM-B13 (1.0-1.5)	S	12/22/2005	1	Sample was not received
24	NM-B13 (5.0-5.5)	S	12/22/2005	1	Sample was not received
25	NM-B13 (10.5-11.0)	S	12/22/2005	1	Sample was not received
26	NM-B13 (15.5-16.0)	S	12/22/2005	1	Sample was not received
27	NM-EB-1-04	W	12/22/2005	2	Sample was not received

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 0 5 - 1 2 - 1 3 4 9

Cooler 1 **of** 1

SAMPLE RECEIPT FORM

CLIENT: Dangs + Moore **DATE:** 12/22/5

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.

3.7 °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 Applicable (N/A): ✓

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓	✓	
Sample container(s) intact and good condition	✓		
Correct containers 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:

Sample # 19 up to 27 not received.

12/27/2005 10:28

=== COVER PAGE ===

TO: 05-12-1349

FROM: NINYO AND MOORE

FAX: 18585769600

TEL: 18585761000

COMMENT:

Ninyo & Moore Transmittal

5710 Ruffin Road, San Diego, California 92123 ▫ ~~Phone 858/576-1000~~ ▫ Fax 858/576-9600 ▫ www.ninyoandmoore.com

To:	Virendra 05-12-1349	Date:	12-27-05
Firm:	Calscience	Fax No:	01
Address:	7440 Lincoln Way	Telephone No:	714-895-5494
From:	Matt Fuller / Ninyo & Moore	Total Pages Including Transmittal:	3
Subject:	Revised Chain	Project No:	105338029

☐ Urgent ☐ For Approval ☐ For Your Use ☐ Please Reply ☐ As Requested

Original Document: ☐ Will Not Follow ☐ Will Follow ☐ By U.S. Mail ☐ By Other

Virendra,

Please find revised Chain with NM-B12, NM-B13 & NM-EB1-04 removed from Chain. I have added these samples to a new chain that will be sent with samples today.

Thanks. Matt Fuller

- Geotechnical Engineering
- Engineering Geology
- Materials Testing and Inspection
- Construction Management
- Engineering Design
- Environmental Engineering
- Environmental Site Assessments
- Regulatory Compliance and Permitting
- Water Quality and Resource Evaluations
- Hazardous Waste Management
- Soil and Groundwater Remediation
- Asbestos and Lead-Based Paint Surveys
- Geophysical Studies
- Mineral Resource Evaluations
- Value Engineering
- Forensic Studies
- Expert Witness Testimony

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-21-05

Page 2 of 3

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858.576.1000 FAX: 858.576.9600 E-MAIL: lhedges@ninyo&moore.com

CLIENT PROJECT NAME / NUMBER: Correia M.S. / 105338029
PROJECT CONTACT: LAUREN Hedges
SAMPLER(S): (SIGNATURE) Matt [signature]
COELT LOG CODE ☐☐☐☐
P.O. NO.:
LAB USE ONLY
COOLER RECEIPT
TEMP

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: Level III Data evaluation

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead	Arsenic			
	NM-B16 (11.5-5.0)		12-21-05	1410	soil	01														X	X			
	NM-B16 (9.5-10.0)			1432																X	X			
	NM-B16 (14.5-15.0)			1453																X	X			
	NM-B15 (1.0-1.5)			1530																X	X			
	NM-B15 (4.5-5.0)			1541																X	X			
	NM-B15 (9.5-10.0)			1602																X	X			
	NM-B15 (14.5-15.0)			1620																X	X			
	NM-B15 (18.5-19.0)			1646																X	X			
	~~NM-B12 (0.5-1.0)~~		~~12-22-05~~	~~0925~~																X	X			
	~~NM-B12 (6-6.5)~~		~~12-22-05~~	~~0934~~																X	X			

05-12-1349

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Matt [signature]	[signature] CEL	12/22/5	1505
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:

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GARDEN GROVE, CA 92841-1427
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CHAIN OF CUSTODY RECORD

Date 12-22-05

Page 3 of 3

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-576-1000 FAX: 858-576-9600 E-MAIL: lhedges@ninyoandmoore.c

CLIENT PROJECT NAME / NUMBER: SDUSD / 105338029
PROJECT/CONTACT: Lauren Hedges
SAMPLER(S): (SIGNATURE) Matt Tuh
COELT LOG CODE
P.O. NO.:
LAB USE ONLY

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: Level III Data evaluation
Hold all samples for possible future analysis.

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead	Arsenic	PAH		
	NM-B12 (10.0-10.5)		12-22-05	0952	soil	01														X	X			
	NM-B12 (16-16.5)			1019																X	X			
	NM-B13 (1.0-1.5)			1048																X	X			
	NM-B13 (5.0-5.5)			1054																X	X			
	NM-B13 (10.5-11.0)			1115																X	X			
	NM-B13 (15.5-16.0)			1137																X	X			
	NM-EB1-04			1125	water	02														X	X	X		
			12-22-05		soil	01																		

Relinquished by: (Signature) Matt Tuh — Received by: (Signature) CEL — Date: 12/22/5 — Time: 1505
Relinquished by: (Signature) — Received by: (Signature) — Date: — Time:
Relinquished by: (Signature) — Received for Laboratory by: (Signature) — Date: — Time:

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CHAIN OF CUSTODY RECORD

Date 12-21-05

Page 1 of 3

LABORATORY CLIENT: Ninyo & Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP: 92123

TEL: (858) 576-1000 FAX: E-MAIL: LHedges@ninyoandmore.com

CLIENT PROJECT NAME / NUMBER: Correia Middle School / 105338029

P.O. NO.: 105338029

PROJECT CONTACT: Lauren Hedges

LAB USE ONLY: 12-1349

SAMPLER(S) (SIGNATURE): [signature]

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: Level III Data Validation Package
Hold all samples for possible future Analysis

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead	Arsenic	PAH		
1	NM-HA5-1.5		12/21/05	09:58	Soil	1														X	X			
2	NM-HA5-0.5			09:42																X	X			
3	NM-HA4-0.5			10:09																X	X			
4	NM-HA4-1.5			10:17																X	X			
5	NM-HA3-0.5			10:31																X	X			
6	NM-HA3-1.0			10:45																X	X			
7	EB2-3			11:00		2														X	X	X		
8	NM-B29-(0.5-1.0)			1259		1														X	X			
9	NM-B29(4.5-5.0)			1312																X	X			
10	NM-B16(1.5-2.0)			1350																X	X			

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[signature]	[signature] CEL	12/22/5	1505
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
[signature]	[signature]	12/22/5	1740

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CHAIN OF CUSTODY RECORD

Date 12-21-05

Page 2 of 3

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-576-1000 FAX: 858-576-9600 E-MAIL: lhedges@ninyo&moore.com

CLIENT PROJECT NAME / NUMBER: Correia M.S. / 1053.38029
PROJECT CONTACT: LAUREN Hedges
SAMPLER(S): (SIGNATURE) Matt Fel
COELT LOG CODE ☐☐☐☐
P.O. NO.:
LAB USE ONLY: 12-1349
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: Level III Data Evaluation

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead	Arsenic			
11	NM-B16 (4.5-5.0)		12-21-05	1410	soil	01														X	X			
12	NM-B16 (9.5-10.0)			1432																X	X			
13	NM-B16 (14.5-15.0)			1453																X	X			
14	NM-B15 (1.0-1.5)			1530																X	X			
15	NM-B15 (4.5-5.0)			1541																X	X			
16	NM-B15 (9.5-10.0)			1602																X	X			
17	NM-B15 (14.5-15.0)			1620																X	X			
18	NM-B15 (18.5-19.0)			1646																X	X			
19	NM-B12 (0.5-1.0)		12-22-05	0925																X	X			
20	NM-B12 (6-6.5)		12-22-05	0934																X	X			

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Matt Fel	[signature] CEL	12/22/5	1505
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
[signature]	Jon Famo CEL	12/22/5	1740

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CHAIN OF CUSTODY RECORD

Date 12-22-05

Page 3 of 3

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-576-1000 FAX: 858-576-9600 E-MAIL: lhedges@ninyoandmoore.c

CLIENT PROJECT NAME / NUMBER: SDUSD / 105338029
P.O. NO.:
PROJECT/CONTACT: LAUREN Hedges
LAB USE ONLY: 12-1349
SAMPLER(S): (SIGNATURE) [signature]
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:
Level III Data evaluation
Hold all samples for possible future analysis.

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead	Arsenic	PAH		
21	NM-B12 (10.0-10.5)		12-22-05	0952	Soil	01														X	X			
22	NM-B12 (16-16.5)			1019																X	X			
23	NM-B13 (1.0-1.5)			1048																X	X			
24	NM-B13 (5.0-5.5)			1054																X	X			
25	NM-B13 (10.5-11.0)			1115																X	X			
26	NM-B13 (15.5-16.0)			1137																X	X			
27	NM-EB1-04			1125	Water	02														X	X	X		
			12-22-05		Soil	01																		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature] CEL	12/22/5	1505
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
[signature]	[signature]	12/22/5	1740

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10/20/04 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore	Date Received:	12/22/05
5710 Ruffin Road	Work Order No:	05-12-1349
San Diego, CA 92123-1013	Preparation:	EPA 3050B
	Method:	EPA 6010B
	Units:	mg/kg
Project: Correia Middle School / 105338029		Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-HA5-1.5	**05-12-1349-1**	**12/21/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.26	0.75	0.130	1		Lead	32.0	0.5	0.0527	1	

NM-HA5-0.5	**05-12-1349-2**	**12/21/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.42	0.75	0.130	1		Lead	9.86	0.50	0.0527	1	

NM-HA4-0.5	**05-12-1349-3**	**12/21/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.74	0.75	0.130	1		Lead	117	0.500	0.0527	1	

NM-HA4-1.5	**05-12-1349-4**	**12/21/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.37	0.75	0.130	1		Lead	104	0.500	0.0527	1	

NM-HA3-0.5	**05-12-1349-5**	**12/21/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.21	0.75	0.130	1		Lead	51.8	0.5	0.0527	1	

NM-HA3-1.0	**05-12-1349-6**	**12/21/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.65	0.75	0.130	1		Lead	30.8	0.5	0.0527	1	

NM-B29 (0.5-1.0)	**05-12-1349-8**	**12/21/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.14	0.75	0.130	1		Lead	4.40	0.50	0.0527	1	

NM-B29 (4.5-5.0)	**05-12-1349-9**	**12/21/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.67	0.75	0.130	1		Lead	3.22	0.50	0.0527	1	

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: 12/22/05
Work Order No: 05-12-1349
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Correia Middle School / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B16 (1.5-2.0)	05-12-1349-10	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.55	0.75	0.130	1		Lead	172	0.500	0.0527	1	

NM-B16 (4.5-5.0)	05-12-1349-11	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.88	0.75	0.130	1		Lead	6.28	0.50	0.0527	1	

NM-B16 (9.5-10.0)	05-12-1349-12	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.06	0.75	0.130	1		Lead	3.45	0.50	0.0527	1	

NM-B16 (14.5-15.0)	05-12-1349-13	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.56	0.75	0.130	1		Lead	2.59	0.50	0.0527	1	

NM-B15 (1.0-1.5)	05-12-1349-14	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.64	0.75	0.130	1		Lead	5.93	0.50	0.0527	1	

NM-B15 (4.5-5.0)	05-12-1349-15	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.25	0.75	0.130	1		Lead	3.67	0.50	0.0527	1	

NM-B15 (9.5-10.0)	05-12-1349-16	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.82	0.75	0.130	1		Lead	3.49	0.50	0.0527	1	

NM-B15 (14.5-15.0)	05-12-1349-17	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.25	0.75	0.130	1		Lead	4.37	0.50	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1349
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia Middle School / 105338029			Page 3 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B15 (18.5-19.0)	**05-12-1349-18**	**12/21/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.95	0.75	0.130	1		Lead	3.08	0.50	0.0527	1	

Method Blank	**097-01-002-7,157**	**N/A**	**Solid**	**12/27/05**	**12/29/05**	**051227L14**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	ND	0.500	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1349
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
Project: Correia Middle School / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB2-3	**05-12-1349-7**	**12/21/05**	**Aqueous**	**12/27/05**	**12/29/05**	**051227L10**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.0100	0.00308	1		Lead	ND	0.0100	0.00236	1	

Method Blank	**097-01-003-5,665**	**N/A**	**Aqueous**	**12/27/05**	**12/27/05**	**051227L10**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.0100	0.00308	1		Lead	ND	0.0100	0.00236	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1349
San Diego, CA 92123-1013		Preparation:	EPA 3510B
		Method:	EPA 8310
		Units:	ug/L
Project: Correia Middle School / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB2-3	**05-12-1349-7**	**12/21/05**	**Aqueous**	**12/28/05**	**12/30/05**	**051228L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	66	40-160	

Method Blank	**099-07-003-676**	**N/A**	**Aqueous**	**12/28/05**	**12/28/05**	**051228L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	80	40-160	

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1349
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project Correia Middle School / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NM-B16 (14.5-15.0)	**Solid**	**ICP 3300**	**12/27/05**	**12/29/05**	**051227S14**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	100	98	75-125	1	0-20	
Lead	106	106	75-125	0	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1349
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 200.7

Project Correia Middle School / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1403-5	**Aqueous**	**ICP 3300**	**12/27/05**	**12/27/05**	**051227S10**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	103	101	80-120	1	0-20	
Lead	102	98	80-120	4	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:	05-12-1349
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: Correia Middle School / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-7,157	Solid	ICP 3300	12/29/05	051227-I-14	051227L14

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	25.0	25.4	102	80-120	
Lead	25.0	26.7	107	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:	05-12-1349
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: Correia Middle School / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-5,665	**Aqueous**	**ICP 3300**	**12/27/05**	**051227-I-10**	**051227L10**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	0.500	0.504	101	80-120	
Lead	0.500	0.520	104	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:	05-12-1349
San Diego, CA 92123-1013		Preparation:	EPA 3510B
		Method:	EPA 8310

Project: Correia Middle School / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-003-676	**Aqueous**	**HPLC 5**	**12/28/05**	**12/28/05**	**051228L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	105	111	40-160	6	0-20	
Benzo (k) Fluoranthene	110	117	40-160	6	0-20	
Benzo (a) Pyrene	107	113	40-160	6	0-20	
Dibenz (a,h) Anthracene	124	128	40-160	3	0-20	
Benzo (g,h,i) Perylene	99	104	40-160	5	0-20	
Indeno (1,2,3-c,d) Pyrene	101	108	40-160	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-12-1349

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 or Matrix Spike Duplicate 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.

ACCREDITED IN ACCORDANCE WITH nelac

January 03, 2006

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

Subject: **Calscience Work Order No.: 05-12-1348**
Client Reference: Correia Middle School / 105338029

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/22/2005 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 any subcontracted analysis 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.

Case Narrative for 05-12-1348

Sample Condition on Receipt

Twenty-two soil samples and One aqueous samples were received as part of this Work Order on December 22, 2005. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.7°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of-custody (COC) records. Data is presented on a wet weight basis.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels, with the exception of select constituents. Please see Table A below for details.

Table A: Trace levels present in associated method blanks	
EPA Method 6010B	
Batch #	Analyte(s)
051227L07	Lead

Reportable concentrations on the associated batch of samples have been flagged with a "B" qualifier, indicating blank contamination. Therefore, the results have been released without any further action or qualification.

Calscience Environmental Laboratories, Inc.

Case Narrative for 05-12-1348

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits, with the exception of the specific methods/analytes listed below in Table B.

Table B: Matrix Spike / Matrix Spike Duplicate outside acceptable limits	
EPA Method 6010B	
Batch #	Analytes(s)
051227S08	Lead‡ & Arsenic

‡: The recoveries for lead on these batches were outside the QC limits due to a sample concentration exceedance of the spike concentration by a factor of four or greater. These recoveries have been flagged with a "Q" qualifier.

Note that the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) recoveries were within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Sample Summary Report

WORK ORDER #: **05-12-1348** **QAPP:** **0117**

#	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	NM-B10-1.0	S	12/20/2005	1	
2	EB1-02	W	12/20/2005	1	
3	NM-B23 (0-1.0)	S	12/20/2005	1	
4	NM-B23 (5.0)	S	12/20/2005	1	
5	NM-B23 (8.5-9.0)	S	12/20/2005	1	
6	NM-B23 (12.0)	S	12/20/2005	1	
7	NM-B23 (15.0)	S	12/20/2005	1	
8	DUP-04	S	12/20/2005	1	
9	NM-B18 (0.5-1.0)	S	12/20/2005	1	
10	NM-B18 (4.5-5.0)	S	12/20/2005	1	
11	NM-B19 (2.0-2.5)	S	12/20/2005	1	
12	NM-B19 (4.5-5.0)	S	12/20/2005	1	
13	NM-B19 (9.5)	S	12/20/2005	1	
14	NM-B19 (17.0)	S	12/20/2005	1	
15	NM-B17 (1.5-2.0)	S	12/20/2005	1	
16	NM-B17 (4.5-5.0)	S	12/20/2005	1	
17	NM-B14 (0.5-1.0)	S	12/20/2005	1	
18	NM-B14 (6.5-7.0)	S	12/20/2005	1	
19	DUP-05	S	12/20/2005	1	
20	NM-S25-0.5	S	12/20/2005	2	
21	NM-S27-0.5	S	12/20/2005	2	
22	NM-S20-0.5	S	12/20/2005	2	
23	NM-S26-0.5	S	12/20/2005	2	

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 05-12-1348

Cooler 1 **of** 1

SAMPLE RECEIPT FORM

CLIENT: Nanyo + Mook **DATE:** 12/05/5

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.
- 3.7 °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 Applicable (N/A): ✓

Initial: [signature]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers 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:

Sample NM-S25-0.5 enter twice in COC.

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-20-05

Page 1 of 3

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA. ZIP: 92123
TEL: (858) 576-1000 FAX: E-MAIL: LHedges@Ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: Correia Middle School / 105338029
P.O. NO.: 105338029
PROJECT CONTACT: Lauren Hedges
LAB USE ONLY: 12-1348
SAMPLER(S): (SIGNATURE) [signature]
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:
Level III - Data Validation Package
Hold Samples for ~~Pat~~ additional analysis pending results

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead	Arsenic
1	NM-B10-1.0	NM-B10-1.0	12/20/05	12:20	Soil	1														X	X
	~~NM-B10-dh~~	~~NM-B10~~	~~12/20/05~~			~~1~~															
2	EB1-02	EB1-02	12/20/05	1245	H_2O	1														X	X
	~~NM-B23(8.5-9.0)~~ dh	~~NM-B23(8.5-9.0)~~			Soil	~~1~~															
3	NM-B23(0-1.0)	NM-B23(0-1.0)		09:04	Soil	1														X	X
4	NM-B23(5.0)	NM-B23(5.0)		09:31		1														X	X
5	NM-B23(8.5-9.0)	NM-B23(8.5-9.0)		09:53		1														X	X
6	NM-B23(12.0)	NM-B23(12.0)		10:14		1														X	X
7	NM-B23-(15.0)	NM-B23(15.0)		10:15		1														X	X
8	DUP-04	DUP-04				2														X	X

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature] CEL	12/22/5	1505
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
[signature]	[signature] CEL	12/22/5	1740

DISTRIBUTION: When with final report, Green to file, 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.

10/20/04 Revision

Q&Q Graphic 714-898-9702

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-20-05

Page 2 of 3

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: (858) 576-1000 FAX: E-MAIL: LHedges@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: Correia School / 105338029
P.O. NO.: 105338029
PROJECT CONTACT: Lauren Hedges
LAB USE ONLY: 12-1348
SAMPLER(S): (SIGNATURE) [signature]
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: Data Validation Package - Level III
Hold Samples for ~~PAH~~ additional analysis pending results

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead	Arsenic	PAHs	Dioxins
9	NM-B18 (0.5-1.0)	NM-B18 (0.5-1.0)	12/20	15:45	Soil	1														X	X		
10	NM-B18 (4.5-5.0)	NM-B18 (4.5-5.0)		15:50		1														X	X		
11	NM-B19 (2.0-2.5)	NM-B19 (2.0-2.5)		13:50		1														X	X		
12	NM-B19 (4.5-5.0)	NM-B19 (4.5-5.0)		14:15		1														X	X	X	[illegible]
13	NM-B19 (9.5)	NM-B19 (9.5)		14:45		1														X	X		
14	NM-B19 (17.0)	NM-B19 (17.0)		15:03		1														X	X		
15	NM-B17 (1.5-2.0)	NM-B17 (1.5-2.0)		16:30		1														X	X		
16	NM-B17 (4.5-5.0)	NM-B17 (4.5-5.0)		16:35		1														X	X		
17	NM-B14 (0.5-1.0)	NM-B14 (0.5-1.0)		13:03		1														X	X		
18	NM-B14 (6.5-7.0)	NM-B14 (6.5-7.0)		13:30		1														X	X		

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature] CEL	12/22/5	1505
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) [signature]	Received for Laboratory by: (Signature) [signature]	Date: 12/22/5	Time: 1740

DISTRIBUTION: When with final report, Green to file, 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.

10/20/04 Revision

Q&Q Graphic 714-898-9702

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12/20/05

Page 3 of 3

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego CA STATE: ZIP: 92123
TEL: 858 576-1000 FAX: E-MAIL: LHedges@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: Correia Middles Chod / 105338029
PROJECT CONTACT: Lauren Hedges
SAMPLER(S): (SIGNATURE)
COELT LOG CODE
P.O. NO.: 105338029
LAB USE ONLY: 02-1348
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:
Data Validation Package - Level III
Hold Samples for ~~Path~~ additional eth analysis pending results

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead	Arsenic			
19	DUP-05	DUP-05	12/20		Soil	1														X	X			
20	NM-S25-0.5	NM-S25-0.5		9:35		2														X	X			
21	NM-S27-0.5	NM-S27-0.5		9:05		2														X	X			
22	NM-S25-0.5	NM-S25-0.5		9:35		2														X	X			
23	NM-S20-0.5	NM-S20-0.5		10:00		2														X	X			
24	NM-S26-0.5	NM-S26-0.5		9:15		2														X	X			
	~~NOTE~~																							

NJ 12-22-05

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	CEL	12/22/05	1505
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
		12/22/05	1740

DISTRIBUTION: When with final report, Green to file, 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.

10/20/04 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1348
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia Middle School / 105338029			Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B10-1.0	05-12-1348-1	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.97	0.75	0.130	1		Lead	3.68	0.50	0.0527	1	B

NM-B23 (0-1.0)	05-12-1348-3	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	16.3	0.8	0.130	1		Lead	12.1	0.5	0.0527	1	B

NM-B23 (5.0)	05-12-1348-4	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.07	0.75	0.130	1		Lead	3.95	0.50	0.0527	1	B

NM-B23 (8.5-9.0)	05-12-1348-5	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.82	0.75	0.130	1		Lead	36.9	0.5	0.0527	1	B

NM-B23 (12.0)	05-12-1348-6	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.72	0.75	0.130	1		Lead	17.7	0.5	0.0527	1	B

NM-B23 (15.0)	05-12-1348-7	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	1.12	0.75	0.130	1		Lead	2.30	0.50	0.0527	1	B

DUP-04	05-12-1348-8	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	15.4	0.8	0.130	1		Lead	12.3	0.5	0.0527	1	B

NM-B18 (0.5-1.0)	05-12-1348-9	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.93	0.75	0.130	1		Lead	28.7	0.5	0.0527	1	B

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/22/05
Work Order No: 05-12-1348
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Correia Middle School / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B18 (4.5-5.0)	05-12-1348-10	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.17	0.75	0.130	1		Lead	3.20	0.50	0.0527	1	B

NM-B19 (2.0-2.5)	05-12-1348-11	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.69	0.75	0.130	1		Lead	188	0.500	0.0527	1	B

NM-B19 (4.5-5.0)	05-12-1348-12	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	17.9	0.8	0.130	1		Lead	1010	0.500	0.0527	1	B

NM-B19 (9.5)	05-12-1348-13	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.03	0.75	0.130	1		Lead	63.5	0.5	0.0527	1	B

NM-B19 (17.0)	05-12-1348-14	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.09	0.75	0.130	1		Lead	3.42	0.50	0.0527	1	B

NM-B17 (1.5-2.0)	05-12-1348-15	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.19	0.75	0.130	1		Lead	1.33	0.50	0.0527	1	B

NM-B17 (4.5-5.0)	05-12-1348-16	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.65	0.75	0.130	1		Lead	3.31	0.50	0.0527	1	B

NM-B14 (0.5-1.0)	05-12-1348-17	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.37	0.75	0.130	1		Lead	4.37	0.50	0.0527	1	B

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1348
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia Middle School / 105338029			Page 3 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B14 (6.5-7.0)	**05-12-1348-18**	**12/20/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L07**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.42	0.75	0.130	1		Lead	2.97	0.50	0.0527	1	B

DUP-05	**05-12-1348-19**	**12/20/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L07**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.15	0.75	0.130	1		Lead	2.13	0.50	0.0527	1	B

NM-S25-0.5	**05-12-1348-20**	**12/20/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L07**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.24	0.75	0.130	1		Lead	18.0	0.5	0.0527	1	B

NM-S27-0.5	**05-12-1348-21**	**12/20/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L07**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.90	0.75	0.130	1		Lead	12.9	0.5	0.0527	1	B

NM-S20-0.5	**05-12-1348-22**	**12/20/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L08**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.30	0.75	0.130	1	B	Lead	12.2	0.5	0.0527	1	

NM-S26-0.5	**05-12-1348-23**	**12/20/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L08**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	15.6	0.8	0.130	1	B	Lead	12.3	0.5	0.0527	1	

Method Blank	**097-01-002-7,145**	**N/A**	**Solid**	**12/27/05**	**12/29/05**	**051227L08**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.316	0.750	0.130	1	J	Lead	ND	0.500	0.0527	1	

Method Blank	**097-01-002-7,159**	**N/A**	**Solid**	**12/27/05**	**12/29/05**	**051227L07**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	0.191	0.500	0.0527	1	J

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1348
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
Project: Correia Middle School / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-02	**05-12-1348-2**	**12/20/05**	**Aqueous**	**12/27/05**	**12/29/05**	**051227L10**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.0100	0.00308	1		Lead	0.0111	0.0100	0.00236	1	

Method Blank	**097-01-003-5,665**	**N/A**	**Aqueous**	**12/27/05**	**12/27/05**	**051227L10**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.0100	0.00308	1		Lead	ND	0.0100	0.00236	1	

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:	12/22/05
Work Order No:	05-12-1348
Preparation:	EPA 3545
Method:	EPA 8310
Units:	ug/kg

Project: Correia Middle School / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B19 (4.5-5.0)	**05-12-1348-12**	**12/20/05**	**Solid**	**12/27/05**	**12/28/05**	**051227L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	61	50	26	1		Benzo (a) Anthracene	16	50	2.9	1	J
Acenaphthylene	ND	50	32	1		Chrysene	79	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	52	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	35	50	2.2	1	J	Benzo (a) Pyrene	150	50	3.2	1	
Anthracene	5.0	50.0	1.9	1	J	Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	21	50	3.1	1	J	Indeno (1,2,3-c,d) Pyrene	69	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	100	40-160	

Method Blank	**099-07-002-614**	**N/A**	**Solid**	**12/27/05**	**12/28/05**	**051227L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	ND	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	ND	50	2.2	1		Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	83	40-160	

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1348
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project Correia Middle School / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
DUP-04	**Solid**	**ICP 3300**	**12/27/05**	**12/29/05**	**051227S07**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	103	99	75-125	3	0-20	
Lead	115	110	75-125	3	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1348
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project Correia Middle School / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1346-2	**Solid**	**ICP 3300**	**12/27/05**	**12/28/05**	**051227S08**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	115	127	75-125	6	0-20	3
Lead	4X	4X	75-125	4X	0-20	Q

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1348
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 200.7

Project Correia Middle School / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1403-5	**Aqueous**	**ICP 3300**	**12/27/05**	**12/27/05**	**051227S10**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	103	101	80-120	1	0-20	
Lead	102	98	80-120	4	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:	12/22/05
Work Order No:	05-12-1348
Preparation:	EPA 3545
Method:	EPA 8310

Project Correia Middle School / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1347-19	**Solid**	**HPLC 5**	**12/27/05**	**12/28/05**	**051227S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	97	102	40-160	4	0-20	
Benzo (k) Fluoranthene	101	107	40-160	6	0-20	
Benzo (a) Pyrene	116	116	40-160	0	0-20	
Dibenz (a,h) Anthracene	116	113	40-160	2	0-20	
Benzo (g,h,i) Perylene	96	93	40-160	3	0-20	
Indeno (1,2,3-c,d) Pyrene	89	94	40-160	6	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:	05-12-1348
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: Correia Middle School / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-7,159	**Solid**	**ICP 3300**	**12/29/05**	**051227-I-07**	**051227L07**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	25.0	24.3	97	80-120	
Lead	25.0	25.5	102	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:	05-12-1348
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: Correia Middle School / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-7,145	**Solid**	**ICP 3300**	**12/27/05**	**12/29/05**	**051227L08**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	97	99	80-120	2	0-20	
Lead	101	100	80-120	1	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:	05-12-1348
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: Correia Middle School / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-5,665	**Aqueous**	**ICP 3300**	**12/27/05**	**051227-I-10**	**051227L10**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	0.500	0.504	101	80-120	
Lead	0.500	0.520	104	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:	05-12-1348
San Diego, CA 92123-1013		Preparation:	EPA 3545
		Method:	EPA 8310

Project: Correia Middle School / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-002-614	Solid	HPLC 5	12/27/05	12/28/05	051227L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	105	111	40-160	6	0-20	
Benzo (k) Fluoranthene	109	117	40-160	6	0-20	
Benzo (a) Pyrene	102	112	40-160	9	0-20	
Dibenz (a,h) Anthracene	122	128	40-160	5	0-20	
Benzo (g,h,i) Perylene	98	104	40-160	6	0-20	
Indeno (1,2,3-c,d) Pyrene	101	106	40-160	5	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-12-1348

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 or Matrix Spike Duplicate 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.

January 16, 2006

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

Subject: **Calscience Work Order No.: 05-12-1164**
Client Reference: Correia / 105338029

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/20/2005 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 any subcontracted analysis 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.

Case Narrative for 05-12-1164

Sample Condition on Receipt

Fourteen soil samples were received as part of this Work Order on December 20, 2005. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.8°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

The original report of any subcontracted analysis 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.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of-custody (COC) records. Additional analysis was also conducted per the e-mail requests dated 12/21/05 and 12/29/05. Data is presented on a wet weight basis.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels, with the exception of select constituents. Please see Table A below for details.

Table A: Trace levels present in associated method blanks	
EPA Method 6010B	
Batch #	Analyte(s)
051229L05	Chromium, Selenium, Silver & Lead

Calscience
Environmental
Laboratories, Inc.

Case Narrative for 05-12-1164

Reportable concentrations on the associated batch of samples have been flagged with a "B" qualifier, indicating blank contamination. Therefore, the results have been released without any further action or qualification.

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits, with the exception of the specific methods/analytes listed below in Table B.

Table B: Matrix Spike / Matrix Spike Duplicate outside acceptable limits	
EPA Method 6010B	
Batch #	Analytes(s)
051229S05	Antimony, Barium, Thallium‡ and Zinc†

‡: As a direct result of the unacceptable recoveries for the MS and/or MSD, the relative percent difference was also outside acceptable limits. These recoveries have been flagged with a "4" qualifier.
†: The recoveries for barium on this batch were outside the QC limits due to a sample concentration exceedance of the spike concentration by a factor of four or greater. These recoveries have been flagged with a "Q" qualifier.

Note that the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) recoveries were within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

From: Lauren Hedges

To: Virendra Patel;

CC:

Subject: RE: Correia Middle School / 105338029 / CEL 05-12-1164 (Preliminary)

Date: Thursday, December 29, 2005 1:51:04 PM

Attachments:

Hi Virendra,
Could you please also analyze NM-B24(4.5-5.5) for Title 22 Metals?
Thanks,
Lauren
-----Original Message-----
From: Virendra Patel [mailto:VPatel@calscience.com]
Sent: Thursday, December 29, 2005 12:09 PM
To: Lauren Hedges; Sree Gopinath
Cc: Emma Dennison
Subject: Correia Middle School / 105338029 / CEL 05-12-1164 (Preliminary)
Importance: High

<<05-12-1164(prelim).pdf>>

Preliminary PDF files attached for the subject project samples collected on 12/19/05. Note, a final PDF pending Dioxins results subcontracted and Level III deliverables packages. Please advise of any additional testing required at your earliest convenience.
Please call with any questions or concerns.
Best Regards,

Virendra R. Patel
Project Manager
Calscience Environmental
Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Tel.: 714-895-5494 Ext. 157

Fax : 714-894-7501
vpatel@calscience.com

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From: Lauren Hedges

To: Virendra Patel;

CC: Sree Gopinath; Emma Dennison;

Subject: RE: Correia Middle School / 105338029 / CEL 05-12-1164 (Preliminary)

Date: Thursday, December 29, 2005 1:25:12 PM

Attachments:

Hi Virendra,
Please analyze NMB24(4.5-5.5) for PAHs (EPA method 8310) on a normal TAT.
Thanks,
Lauren
-----Original Message-----
From: Virendra Patel [mailto:VPatel@calscience.com]
Sent: Thursday, December 29, 2005 12:09 PM
To: Lauren Hedges; Sree Gopinath
Cc: Emma Dennison
Subject: Correia Middle School / 105338029 / CEL 05-12-1164 (Preliminary)
Importance: High

<<05-12-1164(prelim).pdf>>

Preliminary PDF files attached for the subject project samples collected on 12/19/05. Note, a final PDF pending Dioxins results subcontracted and Level III deliverables packages. Please advise of any additional testing required at your earliest convenience.
Please call with any questions or concerns.
Best Regards,

Virendra R. Patel
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From: Lauren Hedges
To: Virendra Patel;
CC:
Subject: RE: Correia MS samples
Date: Wednesday, December 21, 2005 9:44:41 AM
Attachments:

Virendra,
Please analyze both of the extra samples for arsenic and lead. Hold the samples for possible further analysis.
The method for dioxins should be 8290. Thanks!
Lauren
-----Original Message-----
From: Virendra Patel [mailto:VPatel@calscience.com]
Sent: Wednesday, December 21, 2005 9:26 AM
To: Lauren Hedges
Cc: Sree Gopinath; Emma Dennison
Subject: RE: Correia MS samples

Lauren,
Attached you will find copies of the COC received for the subject site on 12/20/05. See below for discrepancies and advise at your earliest convenience.
05-12-1164:
Received 1 extra sample labeled NM-B26 (13-14) collected on 12/19/05 @ 12:58. Added this sample #14 with no analysis. Please advise on analysis required.
05-12-1165:
Received 1 extra sample labeled NM-S22-0.5 collected on 12/20/05 @ 18:20. Added this sample as #27 with no analysis. Please advise on the analysis required.
Please call with any questions or concerns.
Thanks.
Virendra

> -----Original Message-----
> From: Lauren Hedges [mailto:lhedges@ninyoandmoore.com]

> Sent: Tuesday, December 20, 2005 2:01 PM
> To: Virendra Patel
> Subject: Correia MS samples
>
> Hi Virendra,
> Sorry for the mixup on this one. I guess the courier always checks
> the refrigerator, and just picks up samples if they are in there.
> Hopefully, we can get things cleared up via email and phone.
>
> For the samples collected by Kiki Allen with identifiers such as
> NM-S1-0.5 (3 pages of COCs), please add the following:
> - analyze all samples and duplicates for arsenic (please hold or
> possible further analyses)
> - analyze the equipment blank for total lead, arsenic, and PAHs
> (please hold for possible Title 22 analysis)
>
> For the samples collected by Matt Fuller with identifiers such as
> NM-B24 (0-1) (2 pages of COCs), please add the following:
> - analyze all samples for arsenic (please hold all samples for
> possible further analyses)
>
> I think this is it for now, but please let me know if you have
> additional questions when you receive the samples. Please copy Sree
> Gopinath on the results as he will be following this project while I'm
> on vacation (Dec 22 - Dec 28).
>
> Thanks,
> Lauren Hedges
> Ninyo & Moore
> Project Geologist
> 5710 Ruffin Road
> San Diego, CA 92123
>
> Office: 858.576.1000 (ext.1288)
> Cell: 619.843.7344
> Fax: 858.576.9600
>

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Sample Summary Report

WORK ORDER #: **05-12-1164** **QAPP:** **0117**

#	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	NM-B24 (0-1)	S	12/19/2005	1	
2	NM-B24 (4.5-5.5)	S	12/19/2005	1	
3	NM-B24 (8.5-9.5)	S	12/19/2005	1	
4	NM-B24 (13-14)	S	12/19/2005	1	
5	NM-B24 (15-16)	S	12/19/2005	1	
6	NM-B26 (1-2)	S	12/19/2005	1	
7	NM-B26 (2-3)	S	12/19/2005	1	
8	NM-B26 (7-8)	S	12/19/2005	1	
9	NM-B26 (11-12)	S	12/19/2005	1	
10	NM-B26 (15-16)	S	12/19/2005	1	
11	NM-B28 (0-1)	S	12/19/2005	1	
12	NM-B28 (3-4)	S	12/19/2005	1	
13	NM-B28 (5-6)	S	12/19/2005	1	
14	NM-B26 (13-14)	S	12/19/2005	1	

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 0 5 - 1 2 - 1 1 6 4

Cooler 1 **of** 1

SAMPLE RECEIPT FORM

CLIENT: Kemp + Moore **DATE:** 12/20/15

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.

LABORATORY (Other than Calscience Courier):

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

3.8 °C Temperature blank. Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓	✓	
Sample container(s) intact and good condition	✓		
Correct containers 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:

Received ID number → " NM-B26 (13-14) 12-19-15 @ 12:58, which is not marked on the C.O.C. - T.L. 12/20/15 @ 18:15

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY R

Date 12-19-05
Page 1 of 2

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-576-4000 FAX: 858-576-9600 E-MAIL: thedges@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: LORRENA / 105338029
PROJECT CONTACT: Lauren Hedges
SAMPLER(S): (SIGNATURE) [signature]
COELT LOG CODE
P.O. NO.:
LAB USE ONLY: 12-1164
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:
Level III data evaluation
Hold all samples RAN for PAH for possible further analysis

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	PAH	Total Lead	Dioxins		
1	NM-B24 (0-1)		12-19-05	1416	Soil	01															X			
2	NM-B24 (4.5-5.5)			1431																	X			
3	NM-B24 (8.5-9.5)			1454																	X			
4	NM-B24 (13-14)			1503																X	X			
5	NM-B24 (15-16)			1514																	X			
6	NM-B26 (1-2)			1205																	X			
7	NM-B26 (2-3)			1222																	X			
8	NM-B26 (7-8)			1234																	X	X		
9	NM-B26 (11-12)			1251																	X			
10	NM-B26 (15-16)			1312																	X			

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature] CEL	12/20/5	1330
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
[signature]	[signature] CEL	12/20/5	1700

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-19-05

Page 2 of 2

LABORATORY CLIENT: N & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-576-1000 FAX: 858-576-9600 E-MAIL: lhedges@n&m.com

CLIENT PROJECT NAME / NUMBER: SDUSD / 105338029
P.O. NO.:
PROJECT CONTACT: Lauren Hedges
LAB USE ONLY: 12-1164
SAMPLER(S): (SIGNATURE) [signature]
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:
Level III Data evaluation

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead
11	NM-B28 (0-1)		12.19.05	0953	soil	01														X
12	NM-B28 (3-4)		↓	1011	↓	↓														X
13	NM-B28 (5-6)		↓	1029	↓	↓														X

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature] CEL	12/20/5	1330
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature) [signature]	Received for Laboratory by: (Signature) [signature]	12/20/5	1700

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Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 12/20/05
Work Order No: 05-12-1164
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Correia / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B24 (0-1)	**05-12-1164-1**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.20	0.75	0.130	1		Lead	229	0.500	0.0527	1	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B24 (4.5-5.5)	**05-12-1164-2**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.64	0.75	0.130	1		Lead	426	0.500	0.0527	1	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B24 (8.5-9.5)	**05-12-1164-3**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.16	0.75	0.130	1		Lead	7.94	0.50	0.0527	1	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B24 (13-14)	**05-12-1164-4**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	12.5	0.8	0.130	1		Lead	617	0.500	0.0527	1	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B24 (15-16)	**05-12-1164-5**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.29	0.75	0.130	1		Lead	2.67	0.50	0.0527	1	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B26 (1-2)	**05-12-1164-6**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.12	0.75	0.130	1		Lead	4.09	0.50	0.0527	1	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B26 (2-3)	**05-12-1164-7**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.62	0.75	0.130	1		Lead	17.9	0.5	0.0527	1	

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B26 (7-8)	**05-12-1164-8**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.31	0.75	0.130	1		Lead	16.9	0.5	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: Correia / 105338029

Date Received:	12/20/05
Work Order No:	05-12-1164
Preparation:	EPA 3050B
Method:	EPA 6010B
Units:	mg/kg
	Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B26 (11-12)	**05-12-1164-9**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.57	0.75	0.130	1		Lead	10.7	0.5	0.0527	1	

NM-B26 (15-16)	**05-12-1164-10**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.37	0.75	0.130	1		Lead	3.91	0.50	0.0527	1	

NM-B28 (0-1)	**05-12-1164-11**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.71	0.75	0.130	1		Lead	4.28	0.50	0.0527	1	

NM-B28 (3-4)	**05-12-1164-12**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.58	0.75	0.130	1		Lead	20.1	0.5	0.0527	1	

NM-B28 (5-6)	**05-12-1164-13**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.12	0.75	0.130	1		Lead	3.24	0.50	0.0527	1	

NM-B26 (13-14)	**05-12-1164-14**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.96	0.75	0.130	1		Lead	2.80	0.50	0.0527	1	

Method Blank	**097-01-002-7,138**	**N/A**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	ND	0.500	0.0527	1	

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: 12/20/05
Work Order No: 05-12-1164
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: Correia / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B24 (4.5-5.5)	**05-12-1164-2**	**12/19/05**	**Solid**	**12/29/05**	**12/30/05**	**051229L05**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 12/30/2005 2:03:50 PM with batch 051229L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	0.740	0.750	0.191	1	J	Mercury	0.0234	0.0835	0.0130	1	J
Arsenic	3.79	0.75	0.130	1		Molybdenum	ND	0.250	0.0206	1	
Barium	120	0.500	0.164	1		Nickel	7.94	0.25	0.0346	1	
Beryllium	0.188	0.250	0.00368	1	J	Selenium	ND	0.750	0.175	1	
Cadmium	0.464	0.500	0.00988	1	J	Silver	0.623	0.250	0.0209	1	B
Chromium	12.0	0.2	0.0291	1	B	Thallium	ND	0.750	0.0987	1	
Cobalt	7.08	0.25	0.00859	1		Vanadium	27.0	0.2	0.00934	1	
Copper	66.0	0.5	0.0469	1		Zinc	203	1	0.177	1	
Lead	143	0.500	0.0527	1	B						

Method Blank	**099-04-007-3,674**	**N/A**	**Solid**	**12/29/05**	**12/29/05**	**051229L01**

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.0835	0.0130	1	

Method Blank	**097-01-002-7,150**	**N/A**	**Solid**	**12/29/05**	**12/29/05**	**051229L05**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.750	0.191	1		Molybdenum	ND	0.250	0.0206	1	
Arsenic	ND	0.750	0.130	1		Nickel	ND	0.250	0.0346	1	
Barium	ND	0.500	0.164	1		Selenium	0.215	0.750	0.175	1	J
Beryllium	ND	0.250	0.00368	1		Silver	0.0300	0.250	0.0209	1	J
Cadmium	ND	0.500	0.00988	1		Thallium	ND	0.750	0.0987	1	
Chromium	0.0400	0.250	0.0291	1	J	Vanadium	ND	0.250	0.00934	1	
Cobalt	ND	0.250	0.00859	1		Zinc	ND	1.00	0.177	1	
Copper	ND	0.500	0.0469	1		Lead	0.0815	0.500	0.0527	1	J

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1164
San Diego, CA 92123-1013		Preparation:	EPA 3545
		Method:	EPA 8310
		Units:	ug/kg
Project: Correia / 105338029			Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B24 (4.5-5.5)	**05-12-1164-2**	**12/19/05**	**Solid**	**12/30/05**	**12/30/05**	**051230L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	6.0	50.0	2.6	1	J
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	3.4	50.0	2.2	1	J	Benzo (a) Pyrene	5.9	50.0	3.2	1	J
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	9.8	50.0	4.9	1	J	Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	83	40-160	

NM-B24 (13-14)	**05-12-1164-4**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	16	50	2.6	1	J
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	16	50	3.5	1	J
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	15	50	2.2	1	J	Benzo (a) Pyrene	16	50	3.2	1	J
Anthracene	9.1	50.0	1.9	1	J	Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	24	50	4.9	1	J	Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	65	40-160	

Method Blank	**099-07-002-613**	**N/A**	**Solid**	**12/21/05**	**12/22/05**	**051221L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	ND	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	ND	50	2.2	1		Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	81	40-160	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1164
San Diego, CA 92123-1013		Preparation:	EPA 3545
		Method:	EPA 8310
		Units:	ug/kg
Project: Correia / 105338029			Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	**099-07-002-615**	**N/A**	**Solid**	**12/30/05**	**12/30/05**	**051230L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	ND	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	ND	50	2.2	1		Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	86	40-160	

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received:	12/20/05
Work Order No:	05-12-1164
Preparation:	EPA 3050B
Method:	EPA 6010B

Project Correia / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NM-B28 (5-6)	**Solid**	**ICP 3300**	**12/21/05**	**12/22/05**	**051221S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	88	95	75-125	6	0-20	
Lead	101	105	75-125	3	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: 12/20/05
Work Order No: 05-12-1164
Preparation: EPA 3050B
Method: EPA 6010B

Project Correia / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1520-3	**Solid**	**ICP 3300**	**12/29/05**	**12/30/05**	**051229S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	36	36	50-115	1	0-20	3
Arsenic	91	100	75-125	7	0-20	
Barium	54	62	75-125	2	0-20	3
Beryllium	95	101	75-125	6	0-20	
Cadmium	93	99	75-125	6	0-20	
Chromium	87	100	75-125	9	0-20	
Cobalt	93	101	75-125	6	0-20	
Copper	93	122	75-125	18	0-20	
Lead	106	111	75-125	1	0-20	
Molybdenum	79	84	75-125	6	0-20	
Nickel	88	101	75-125	7	0-20	
Selenium	90	92	75-125	2	0-20	
Silver	90	95	75-125	5	0-20	
Thallium	43	57	75-125	30	0-20	3,4
Vanadium	84	97	75-125	7	0-20	
Zinc	4X	4X	75-125	4X	0-20	Q

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: 12/20/05
Work Order No: 05-12-1164
Preparation: EPA 7471A Total
Method: EPA 7471A

Project Correia / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1381-1	**Solid**	**Mercury**	**12/29/05**	**12/30/05**	**051229S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	96	94	76-136	1	0-16	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1164
San Diego, CA 92123-1013		Preparation:	EPA 3545
		Method:	EPA 8310

Project Correia / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NM-B24 (13-14)	**Solid**	**HPLC 5**	**12/21/05**	**12/22/05**	**051221S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	93	94	40-160	1	0-20	
Benzo (k) Fluoranthene	62	66	40-160	7	0-20	
Benzo (a) Pyrene	107	106	40-160	1	0-20	
Dibenz (a,h) Anthracene	108	99	40-160	9	0-20	
Benzo (g,h,i) Perylene	80	80	40-160	0	0-20	
Indeno (1,2,3-c,d) Pyrene	124	125	40-160	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1164
San Diego, CA 92123-1013		Preparation:	EPA 3545
		Method:	EPA 8310

Project Correia / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NM-B24 (4.5-5.5)	**Solid**	**HPLC 5**	**12/30/05**	**01/03/06**	**051230S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	103	115	40-160	11	0-20	
Benzo (k) Fluoranthene	112	125	40-160	11	0-20	
Benzo (a) Pyrene	121	129	40-160	6	0-20	
Dibenz (a,h) Anthracene	113	124	40-160	9	0-20	
Benzo (g,h,i) Perylene	100	109	40-160	8	0-20	
Indeno (1,2,3-c,d) Pyrene	94	109	40-160	15	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:	05-12-1164
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: Correia / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-7,138	**Solid**	**ICP 3300**	**12/22/05**	**051221-I-04**	**051221L04**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	25.0	26.6	106	80-120	
Lead	25.0	27.1	108	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 05-12-1164
Preparation: EPA 3050B
Method: EPA 6010B

Project: Correia / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
097-01-002-7,150	**Solid**	**ICP 3300**	**12/29/05**	**12/29/05**	**051229L05**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Antimony	101	105	80-120	4	0-20	
Arsenic	100	102	80-120	2	0-20	
Barium	110	104	80-120	6	0-20	
Beryllium	100	102	80-120	2	0-20	
Cadmium	105	108	80-120	3	0-20	
Chromium	101	104	80-120	2	0-20	
Cobalt	109	110	80-120	1	0-20	
Copper	95	97	80-120	2	0-20	
Lead	106	108	80-120	2	0-20	
Molybdenum	100	102	80-120	2	0-20	
Nickel	106	108	80-120	2	0-20	
Selenium	101	104	80-120	3	0-20	
Silver	96	101	80-120	5	0-20	
Thallium	92	95	80-120	3	0-20	
Vanadium	97	99	80-120	3	0-20	
Zinc	108	107	80-120	0	0-20	

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:	05-12-1164
San Diego, CA 92123-1013		Preparation:	EPA 7471A Total
		Method:	EPA 7471A

Project: Correia / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-04-007-3,674	**Solid**	**Mercury**	**12/29/05**	**12/29/05**	**051229L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Mercury	89	89	82-124	0	0-16	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 05-12-1164
Preparation: EPA 3545
Method: EPA 8310

Project: Correia / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-002-613	**Solid**	**HPLC 5**	**12/21/05**	**12/22/05**	**051221L01**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	110	114	40-160	4	0-20	
Benzo (k) Fluoranthene	114	118	40-160	4	0-20	
Benzo (a) Pyrene	76	81	40-160	7	0-20	
Dibenz (a,h) Anthracene	117	119	40-160	1	0-20	
Benzo (g,h,i) Perylene	99	103	40-160	4	0-20	
Indeno (1,2,3-c,d) Pyrene	106	110	40-160	4	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 05-12-1164
Preparation: EPA 3545
Method: EPA 8310

Project: Correia / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-002-615	**Solid**	**HPLC 5**	**12/30/05**	**12/30/05**	**051230L03**

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	123	122	40-160	1	0-20	
Benzo (k) Fluoranthene	129	127	40-160	2	0-20	
Benzo (a) Pyrene	125	123	40-160	2	0-20	
Dibenz (a,h) Anthracene	145	142	40-160	2	0-20	
Benzo (g,h,i) Perylene	117	115	40-160	2	0-20	
Indeno (1,2,3-c,d) Pyrene	118	117	40-160	1	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-12-1164

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 or Matrix Spike Duplicate 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.

FRONTIER
ANALYTICAL LABORATORY

January 6, 2006

FAL Project ID: 3655

Mr. Virendra Patel
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427

Dear Mr. Patel,

Enclosed are the results for Frontier Analytical Laboratory project **3655**. This corresponds to your project number 05-12-1164. The one aqueous sample received on 12/22/05 was extracted and analyzed by EPA Method 8290 for tetra through octa chlorinated dibenzo dioxins and furans. Calscience Environmental Laboratories requested a turnaround time of fifteen business days for project **3655**.

The following Level III report consists of an Analytical Data section, a Sample Receipt section, a Laboratory Raw Data section, and an Instrument Raw Data section. The Analytical Data section contains the project-sample tracking log, a qualifier reference guide, ML/MDL reference form and the analytical results. The Sample Receipt section contains your original chain of custody, our sample login form and sample photo. The Laboratory Raw Data section contains all of the bench paperwork recorded in the laboratory. This includes the project request sheet, the percent solids sheet, the extraction bench sheet, and the cleanup bench sheet. The instrument raw data section contains three sub-sections; the sample results section, the initial calibration section and the continuing/ending calibration section. The sample results sub-section consists of the quantitation summary forms for all samples and QC. The initial calibration sub-section consists of the individual quantitation summary forms for each point of the initial calibration curves as well as an overall quantitation summary form of the initial calibration curve. The continuing/ending calibration sub-section consists of the quantitation summary forms for all beginning and ending calibration injections associated with the samples and QC. A PDF format and the Electronic Data Deliverable (EDD) have been sent to you via email.

If you have any questions regarding project **3655**, please contact me at (916) 934-0900. Thank you for choosing Frontier Analytical Laboratory for your analytical testing needs.

Sincerely,

Bradley B. Silverbush
Director of Operations

FRONTIER ANALYTICAL LABORATORY
5172 Hillsdale Circle • El Dorado Hills, CA 95762
Tel (916) 934-0900 • Fax (916) 934-0999
www.frontieranalytical.com

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Tracking Log

FAL Project ID: **3655**

Received on: **12/22/2005** Project Due: **01/15/2006** Storage: **R1**

FAL Sample ID	Dup	Client Project ID	Client Sample ID	Requested Method	Matrix	Sampling Date	Sampling Time	Hold Time Due Date
3655-001- SA	0	05-12-1164	NM-B26 (7-8)	EPA 8290 D/F	Solid	12/19/2005	12:34 pm	01/18/2006

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Qualifier Reference Guide

A	Isotopic Labeled Standard outside QC range but signal to noise ratio is >10:1
B	Analyte is present in Method Blank
C	Chemical Interference
D	Presence of Diphenyl Ethers
E	Analyte concentration is above calibration range
F	Analyte confirmation on secondary column
J‡	Analyte concentration is below calibration range
M	Maximum possible concentration
NP	Not Provided
S	Sample acceptance criteria not met
X	Matrix interferences
*	Result taken from dilution or reinjection
-	Analyte Not Detected
+	Spike levels were inappropriate versus the levels in the sample

‡ "J" values are equivalent to DNQ (detected but not quantified) for California Toxics Rule (CTR)/National Pollutant Discharge Elimination System (NPDES) samples

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EPA Method 1613/8290 Aqueous MDL
(SPE Extraction)

FRONTIER ANALYTICAL LABORATORY

Analyte	ML	MDL
2,3,7,8-TCDD	5.00	0.543
1,2,3,7,8-PeCDD	25.0	0.771
1,2,3,4,7,8-HxCDD	25.0	0.845
1,2,3,6,7,8-HxCDD	25.0	1.05
1,2,3,7,8,9-HxCDD	25.0	0.910
1,2,3,4,6,7,8-HpCDD	25.0	1.18
OCDD	50.0	2.26
2,3,7,8-TCDF	5.00	0.449
1,2,3,7,8-PeCDF	25.0	1.05
2,3,4,7,8-PeCDF	25.0	1.08
1,2,3,4,7,8-HxCDF	25.0	0.545
1,2,3,6,7,8-HxCDF	25.0	0.355
1,2,3,7,8,9-HxCDF	25.0	0.370
2,3,4,6,7,8-HxCDF	25.0	0.476
1,2,3,4,6,7,8-HpCDF	25.0	0.516
1,2,3,4,7,8,9-HpCDF	25.0	0.654
OCDF	50.0	1.22

Project **3015**, extracted 1/6/05; analyzed 1/12/05. Based on a 1.0 Liter sample, pg/L.

EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 3655-001-MB
Client ID: Method Blank
Matrix: Solid
Batch No: X0746

Date Extracted: 12-28-2005
Date Received: NA
Amount: 10.00 g

ICal: PCDDFAL1-8-30-05
GC Column: DB5
Units: pg/g

Acquired: 01-05-2006
WHO TEQ: 0.00

Compound	Conc	DL	Qual	WHO Tox	Compound	Conc	DL	Qual	#Hom
2,3,7,8-TCDD	-	0.194		-					
1,2,3,7,8-PeCDD	-	0.289		-					
1,2,3,4,7,8-HxCDD	-	0.415		-					
1,2,3,6,7,8-HxCDD	-	0.376		-	Total Tetra-Dioxins	-	0.194		0
1,2,3,7,8,9-HxCDD	-	0.342		-	Total Penta-Dioxins	-	0.289		0
1,2,3,4,6,7,8-HpCDD	-	0.373		-	Total Hexa-Dioxins	-	0.415		0
OCDD	-	0.809		-	Total Hepta-Dioxins	-	0.373		0
2,3,7,8-TCDF	-	0.122		-					
1,2,3,7,8-PeCDF	-	0.273		-					
2,3,4,7,8-PeCDF	-	0.292		-					
1,2,3,4,7,8-HxCDF	-	0.153		-					
1,2,3,6,7,8-HxCDF	-	0.125		-					
2,3,4,6,7,8-HxCDF	-	0.164		-					
1,2,3,7,8,9-HxCDF	-	0.166		-	Total Tetra-Furans	-	0.122		0
1,2,3,4,6,7,8-HpCDF	-	0.273		-	Total Penta-Furans	-	0.292		0
1,2,3,4,7,8,9-HpCDF	-	0.222		-	Total Hexa-Furans	-	0.166		0
OCDF	-	0.582		-	Total Hepta-Furans	-	0.273		0

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	77.4	40.0 - 135	
13C-1,2,3,7,8-PeCDD	78.6	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	65.7	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	72.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	60.5	40.0 - 135	
13C-OCDD	46.0	40.0 - 135	
13C-2,3,7,8-TCDF	79.9	40.0 - 135	
13C-1,2,3,7,8-PeCDF	87.2	40.0 - 135	
13C-2,3,4,7,8-PeCDF	83.1	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	78.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	75.2	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	71.7	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	81.1	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	69.5	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	86.7	40.0 - 135	
13C-OCDF	60.1	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	84.6	50.0 - 150

Analyst: [illegible]
Date: 1/6/06

Reviewed By: [illegible]
Date: 1/6/06

EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 3655-001-OPR
Client ID: OPR
Matrix: Solid
Batch No: X0746

Date Extracted: 12-28-2005
Date Received: NA
Amount: 10.00 g

ICal: PCDDFAL1-8-30-05
GC Column: DB5
Units: ng/ml

Acquired: 01-05-2006
WHO TEQ: NA

Compound	Conc	QC Limits
2,3,7,8-TCDD	10.6	7.00 - 13.0
1,2,3,7,8-PeCDD	59.1	35.0 - 65.0
1,2,3,4,7,8-HxCDD	60.3	35.0 - 65.0
1,2,3,6,7,8-HxCDD	57.9	35.0 - 65.0
1,2,3,7,8,9-HxCDD	59.3	35.0 - 65.0
1,2,3,4,6,7,8-HpCDD	59.2	35.0 - 65.0
OCDD	119	70.0 - 130
2,3,7,8-TCDF	11.1	7.00 - 13.0
1,2,3,7,8-PeCDF	57.4	35.0 - 65.0
2,3,4,7,8-PeCDF	56.8	35.0 - 65.0
1,2,3,4,7,8-HxCDF	54.5	35.0 - 65.0
1,2,3,6,7,8-HxCDF	55.4	35.0 - 65.0
2,3,4,6,7,8-HxCDF	56.1	35.0 - 65.0
1,2,3,7,8,9-HxCDF	54.7	35.0 - 65.0
1,2,3,4,6,7,8-HpCDF	55.7	35.0 - 65.0
1,2,3,4,7,8,9-HpCDF	57.1	35.0 - 65.0
OCDF	115	70.0 - 130

Internal Standards	% Rec	QC Limits
13C-2,3,7,8-TCDD	77.4	40.0 - 135
13C-1,2,3,7,8-PeCDD	77.2	40.0 - 135
13C-1,2,3,4,7,8-HxCDD	70.9	40.0 - 135
13C-1,2,3,6,7,8-HxCDD	77.3	40.0 - 135
13C-1,2,3,4,6,7,8-HpCDD	67.6	40.0 - 135
13C-OCDD	52.8	40.0 - 135
13C-2,3,7,8-TCDF	81.3	40.0 - 135
13C-1,2,3,7,8-PeCDF	86.9	40.0 - 135
13C-2,3,4,7,8-PeCDF	87.2	40.0 - 135
13C-1,2,3,4,7,8-HxCDF	85.1	40.0 - 135
13C-1,2,3,6,7,8-HxCDF	80.5	40.0 - 135
13C-2,3,4,6,7,8-HxCDF	78.5	40.0 - 135
13C-1,2,3,7,8,9-HxCDF	83.4	40.0 - 135
13C-1,2,3,4,6,7,8-HpCDF	71.9	40.0 - 135
13C-1,2,3,4,7,8,9-HpCDF	94.1	40.0 - 135
13C-OCDF	67.5	40.0 - 135

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	90.4	50.0 - 150

Analyst: [signature]
Date: 1/6/05

Reviewed By: [signature]
Date: 1/6/06

EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 3655-001-SA
Client ID: NM-B26 (7-8)
Matrix: Solid
Batch No: X0746

Date Extracted: 12-28-2005
Date Received: 12-22-2005
Amount: 10.01 g
% Solids: 84.40

ICal: PCDDFAL1-8-30-05
GC Column: DB5
Units: pg/g

Acquired: 01-05-2006
WHO TEQ: 1.34

Compound	Conc	DL	Qual	WHO Tox	Compound	Conc	DL	Qual	#Hom
2,3,7,8-TCDD	-	0.273		-					
1,2,3,7,8-PeCDD	-	0.340		-					
1,2,3,4,7,8-HxCDD	-	0.408		-					
1,2,3,6,7,8-HxCDD	1.02	-	J	0.102	Total Tetra-Dioxins	5.50	-		5
1,2,3,7,8,9-HxCDD	0.886	-	J	0.0886	Total Penta-Dioxins	4.50	-		3
1,2,3,4,6,7,8-HpCDD	7.06	-		0.0706	Total Hexa-Dioxins	9.77	-		5
OCDD	24.3	-		0.002430	Total Hepta-Dioxins	12.6	-		2
2,3,7,8-TCDF	0.988	-		0.0988					
1,2,3,7,8-PeCDF	0.735	-	J	0.0368					
2,3,4,7,8-PeCDF	1.12	-	J	0.560					
1,2,3,4,7,8-HxCDF	1.05	-	J	0.105					
1,2,3,6,7,8-HxCDF	0.881	-	J	0.0881					
2,3,4,6,7,8-HxCDF	1.25	-	J	0.125					
1,2,3,7,8,9-HxCDF	-	0.176		-	Total Tetra-Furans	22.8	-		17
1,2,3,4,6,7,8-HpCDF	5.50	-		0.0550	Total Penta-Furans	12.1	-		10
1,2,3,4,7,8,9-HpCDF	0.375	-	J	0.00376	Total Hexa-Furans	9.84	-		7
OCDF	1.98	-	J	0.000198	Total Hepta-Furans	8.07	-		4

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.2	40.0 - 135	
13C-1,2,3,7,8-PeCDD	78.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	67.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	69.5	40.0 - 135	
13C-OCDD	55.4	40.0 - 135	
13C-2,3,7,8-TCDF	85.1	40.0 - 135	
13C-1,2,3,7,8-PeCDF	88.8	40.0 - 135	
13C-2,3,4,7,8-PeCDF	88.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	89.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	83.4	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	77.5	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	89.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	78.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	96.6	40.0 - 135	
13C-OCDF	68.5	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	95.8	50.0 - 150

Analyst: [signature]
Date: 1/6/06

Reviewed By: [signature]
Date: 1/6/06

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

TO: FRONTIER EL DORADO HILLS

365/0

CHAIN OF CUSTODY RECORD

Date 12/21/05

Page 1 of 1

LABORATORY CLIENT:

ADDRESS: AS ABOVE

CITY STATE ZIP

TEL: FAX: E-MAIL:

CLIENT PROJECT NAME / NUMBER: 05-12-1164

PROJECT CONTACT: VIRENDRA PATEL

SAMPLER(S): (SIGNATURE)

COELT LOG CODE

P.O. NO.:

LAB USE ONLY

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: STANDARD TAT

LEVEL III REPORTING PLEASE SEND PDF/EXCEL OF DATA WHEN READY

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	EPA 8290	DIOXINS / FURANS			
	NM-B26 (7-8)		12/19/05	1234	S	1														X				

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
CEL	CA Overnight Conf. # 110818883	12/21/05	1700
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
	Ma Gabriela Navarro	12/22/05	1008

DISTRIBUTION: When with final report, Green to file, 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.

10/20/04 Revision

Q&Q Graphic 714-898-9702

ANALYTICAL LABORATORY

Frontier Analytical Laboratory

Sample Login Form

FAL Project ID: **3655**

Client:	Calscience
Client Project ID:	05-12-1164
Date Received:	12/22/2005
Time Received:	10:08 am
Received By:	GN
Logged In By:	GN
# of Samples Received:	1
Duplicates:	0
Storage Location:	R1

Method of Delivery:	California Overnight
Tracking Number:	B10128865046
Shipping Container Received Intact	Yes
Custody seals(s) present?	No
Custody seals(s) intact?	No
Sample Arrival Temperature (C)	0
Cooling Method	Ice
Chain Of Custody Present?	Yes
Return Shipping Container To Client	Yes
Test for residual Chlorine	No
Thiosulfate Added	No
Earliest Sample Hold Time Expiration	01/18/2006
Adequate Sample Volume	Yes

Anomalies or additional comments:

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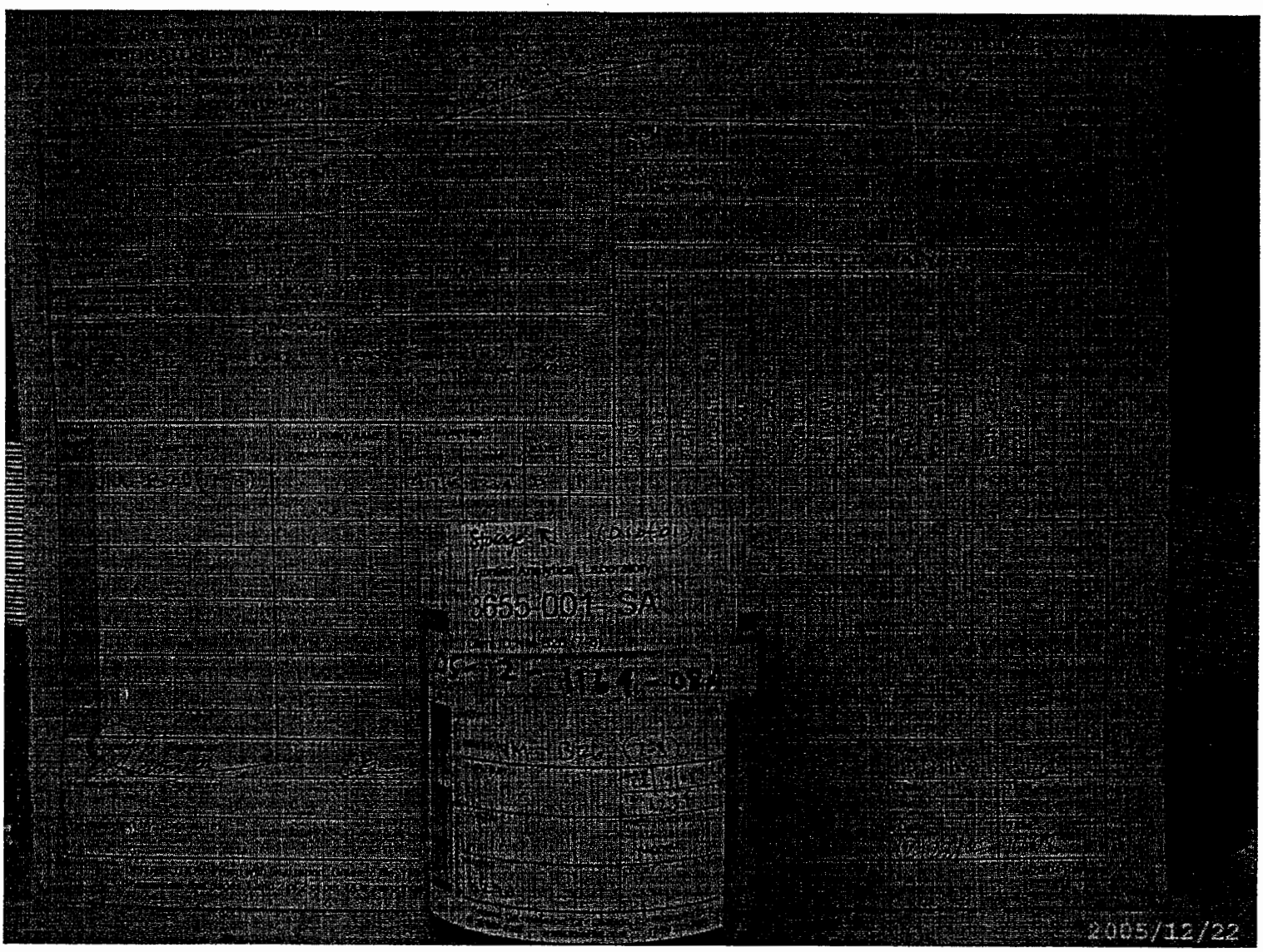
FRONTIER
ANALYTICAL LABORATORY



Calscience Environmental Laboratories, Inc.

January 03, 2006

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

Subject: **Calscience Work Order No.: 05-12-1347**
Client Reference: SDUSD / 105338029

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/22/2005 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 any subcontracted analysis 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,

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Case Narrative for 05-12-1347

Sample Condition on Receipt

Twenty-three soil samples were received as part of this Work Order on December 22, 2005. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.7°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of-custody (COC) records. Data is presented on a wet weight basis.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels, with the exception of select constituents. Please see Table A below for details.

Table A: Trace levels present in associated method blanks	
EPA Method 6010B	
Batch #	Analyte(s)
051227L05	Arsenic

Reportable concentrations on the associated batch of samples have been flagged with a "B" qualifier, indicating blank contamination. Therefore, the results have been released without any further action or qualification.

Calscience Environmental Laboratories, Inc.

Case Narrative for 05-12-1347

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits, with the exception of the specific methods/analytes listed below in Table B.

Table B: Matrix Spike / Matrix Spike Duplicate outside acceptable limits	
EPA Method 6010B	
Batch #	Analytes(s)
051227S05	Lead

Note that the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) recoveries were within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

7440 Lincoln Way, Garden Grove, CA 92841-1427 • TEL:(714) 895-5494 • FAX:(714) 894-7501

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Sample Summary Report

WORK ORDER #: 05-12-1347 **QAPP:** 0117

#	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	NM-B21-1.0	S	12/22/2005	1	
2	NM-B21-5.0	S	12/22/2005	1	
3	NM-B21-10.0	S	12/22/2005	1	
4	NM-B21-12.5	S	12/22/2005	1	
5	NM-B27-1.0	S	12/22/2005	1	
6	NM-B27-5.0	S	12/22/2005	1	
7	NM-B27-10.0	S	12/22/2005	1	
8	NM-B25-1.0	S	12/22/2005	1	
9	NM-B25-5.0	S	12/22/2005	1	
10	NM-B25-9.0	S	12/22/2005	1	
11	NM-B25-12.5	S	12/22/2005	1	
12	NM-B25-15.0	S	12/22/2005	1	
13	NM-B25-17.5	S	12/22/2005	1	
14	NM-B25-20.0	S	12/22/2005	1	
15	NM-B25-25.0	S	12/22/2005	1	
16	NM-B25-27.5	S	12/22/2005	1	
17	NM-B25-30.0	S	12/22/2005	1	
18	NM-B25-31.0	S	12/22/2005	1	
19	NM-B25-35.0	S	12/22/2005	1	
20	NM-B25-37.5	S	12/22/2005	1	
21	NM-B25-40.0	S	12/22/2005	1	
22	NM-B25-45.0	S	12/22/2005	1	
23	NM-B25-50.0	S	12/22/2005	1	

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 05-12-1347

Cooler 1 **of** 1

SAMPLE RECEIPT FORM

CLIENT: Nunyo + Moore **DATE:** 12/22/5

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.

LABORATORY (Other than Calscience Courier):

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

3.7 °C Temperature blank. Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): ____ Cooler: ____ No (Not Intact) : ____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓		
Sample container(s) intact and good condition	✓		
Correct containers 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:

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12/22/05

Page 1 of 3

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-576-1000 FAX: 858-576-9600 E-MAIL: lhedges@ninyoandmoore

CLIENT PROJECT NAME / NUMBER: SDUSD 1105338029
PROJECT CONTACT: LAUREN HEDGES
SAMPLER(S): (SIGNATURE) WS
COELT LOG CODE
P.O. NO.:
LAB USE ONLY: 02-1397
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:
Level III Data evaluation
Hold all samples for possible future analysis

REQUESTED ANALYSES

LAB USE ONLY	SAMPLE ID	FIELD POINT NAME (FOR COELT EDF)	SAMPLING DATE (~~2005~~)	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH (G)	TPH (D) or	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	total lead	Arsenic	PAH		
1	NM-B21-1.0		12/22	0930	S	1														X	X			
2	NM-B21-5.0			0935		1														X	X			
3	NM-B21-10.0			0940		1														X	X			
4	NM-B21-12.5			0945		1														X	X			
5	NM-B27-1.0			1046		1														X	X			
6	NM-B27-5.0			1049		1														X	X			
7	NM-B27-10.0			1100		1														X	X			
8	NM-B25-1.0			1137		1														X	X			
9	NM-B25-5.0			1152		1														X	X			
10	NM-B25-9.0			1156		1														X	X			

Relinquished by: (Signature) Matt Ruh	Received by: (Signature) CEL	Date: 12/22/05	Time: 1505
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature) Sara Tamra	Date: 12/22/5	Time: 1740

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10/20/04 Revision

Q&Q Graphic 714-898-9702

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-22-05

Page 2 of 3

LABORATORY CLIENT: Ninyo & Moore

ADDRESS: 5710 Ruffin Road

CITY: San Diego STATE: CA ZIP: 92123

TEL: 858-576-1000 FAX: 858-576-9600 E-MAIL: lhedges@ninyotmoore

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: Level III Data evaluation
Hold all samples not marked for analysis.

CLIENT PROJECT NAME / NUMBER: SDUSD / 105338029

PROJECT CONTACT: LAUREN HEDGES

SAMPLER(S): (SIGNATURE) Matt Tuhn

COELT LOG CODE ☐☐☐☐

P.O. NO.:

LAB USE ONLY: 12-1347

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	total lead	Arsenic	PAH		
11	NM-B25-12.5		12-22-05	1204	Soil	01																		
12	NM-B25-15.0			1210																~~X~~	~~X~~	~~X~~		hold
13	NM-B25-17.5			1215																X	X	X		
14	NM-B25-20.0			1218																X	X			
15	NM-B25-25.0			1230																X	X			
16	NM-B25-27.5			1241																				
17	NM-B25-30.0			1244																X	X			
18	NM-B25-31.0			1252																				
19	NM-B25-35.0			1258																X	X	X		
20	NM-B25-37.5			1306																				

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Matt Tuhn	CEL	12/22/05	1505
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
	Stan Fama CEL	12/22/05	1740

DISTRIBUTION: When with final report, Green to file, Yellow to Client.
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10/20/04 Revision

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CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-22-05

Page 3 of 3

LABORATORY CLIENT: Mayo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: 858-576-1000 FAX: 858-576-9600 E-MAIL: lhedges@m&m

CLIENT PROJECT NAME / NUMBER: SDUSD / 105338029
PROJECT CONTACT: Lauren Hedges
SAMPLER(S): (SIGNATURE) [signature]
COELT LOG CODE
P.O. NO.:
LAB USE ONLY: 1 2 - 1 3 4 7
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: Level III Data eval. Hold all samples

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead	Arsenic	PAH		
21	NM-B25-40.0		12-22-05	1315	soil	01														X	X			
22	NM-B25-45.0		↓	1320	↓	↓														X	X			
23	NM-B25-50.0		↓	1445	↓	↓														X	X			

MJ 12-22-05

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Matt Fuller	CEL	12/22/5	1505
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
	[signature]	12/22/5	1740

DISTRIBUTION: When with final report, Green to file, Yellow to Client.
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10/20/04 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1347
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: SDUSD / 105338029			Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B21-1.0	05-12-1347-1	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.39	0.75	0.130	1	B	Lead	24.2	0.5	0.0527	1	

NM-B21-5.0	05-12-1347-2	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	11.0	0.8	0.130	1	B	Lead	7.05	0.50	0.0527	1	

NM-B21-10.0	05-12-1347-3	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.52	0.75	0.130	1	B	Lead	2.47	0.50	0.0527	1	

NM-B21-12.5	05-12-1347-4	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.62	0.75	0.130	1	B	Lead	2.56	0.50	0.0527	1	

NM-B27-1.0	05-12-1347-5	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.81	0.75	0.130	1	B	Lead	18.8	0.5	0.0527	1	

NM-B27-5.0	05-12-1347-6	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.47	0.75	0.130	1	B	Lead	15.8	0.5	0.0527	1	

NM-B27-10.0	05-12-1347-7	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	1.90	0.75	0.130	1	B	Lead	10.8	0.5	0.0527	1	

NM-B25-1.0	05-12-1347-8	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.36	0.75	0.130	1	B	Lead	5.91	0.50	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: SDUSD / 105338029

Date Received:	12/22/05
Work Order No:	05-12-1347
Preparation:	EPA 3050B
Method:	EPA 6010B
Units:	mg/kg
	Page 2 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B25-5.0	05-12-1347-9	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.02	0.75	0.130	1	B	Lead	11.2	0.5	0.0527	1	

NM-B25-9.0	05-12-1347-10	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.77	0.75	0.130	1	B	Lead	2.43	0.50	0.0527	1	

NM-B25-17.5	05-12-1347-13	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	11.1	0.8	0.130	1	B	Lead	730	0.500	0.0527	1	

NM-B25-20.0	05-12-1347-14	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.31	0.75	0.130	1	B	Lead	2.79	0.50	0.0527	1	

NM-B25-25.0	05-12-1347-15	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.03	0.75	0.130	1	B	Lead	14.3	0.5	0.0527	1	

NM-B25-30.0	05-12-1347-17	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.80	0.75	0.130	1	B	Lead	4.48	0.50	0.0527	1	

NM-B25-35.0	05-12-1347-19	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.82	0.75	0.130	1	B	Lead	60.6	0.5	0.0527	1	

NM-B25-40.0	05-12-1347-21	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.93	0.75	0.130	1	B	Lead	2.87	0.50	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1347
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: SDUSD / 105338029			Page 3 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B25-45.0	**05-12-1347-22**	**12/22/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L05**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.97	0.75	0.130	1	B	Lead	1.76	0.50	0.0527	1	

NM-B25-50.0	**05-12-1347-23**	**12/22/05**	**Solid**	**12/27/05**	**12/29/05**	**051227L05**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	1.79	0.75	0.130	1	B	Lead	0.986	0.500	0.0527	1	

Method Blank	**097-01-002-7,160**	**N/A**	**Solid**	**12/27/05**	**12/29/05**	**051227L05**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.173	0.750	0.130	1	J	Lead	ND	0.500	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1347
San Diego, CA 92123-1013		Preparation:	EPA 3545
		Method:	EPA 8310
		Units:	ug/kg
Project: SDUSD / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B25-17.5	**05-12-1347-13**	**12/22/05**	**Solid**	**12/27/05**	**12/28/05**	**051227L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	250	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	82	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	35	50	2.2	1	J	Benzo (a) Pyrene	290	50	3.2	1	
Anthracene	9.4	50.0	1.9	1	J	Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	130	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	71	40-160	

NM-B25-35.0	**05-12-1347-19**	**12/22/05**	**Solid**	**12/27/05**	**12/28/05**	**051227L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	3.0	50.0	2.9	1	J
Acenaphthylene	ND	50	32	1		Chrysene	130	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	ND	50	2.2	1		Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	6.7	50.0	2.5	1	J

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	71	40-160	

Method Blank	**099-07-002-614**	**N/A**	**Solid**	**12/27/05**	**12/28/05**	**051227L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	ND	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	ND	50	2.2	1		Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	83	40-160	

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

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

Date Received: 12/22/05
Work Order No: 05-12-1347
Preparation: EPA 3050B
Method: EPA 6010B

Project SDUSD / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NM-B21-1.0	**Solid**	**ICP 3300**	**12/27/05**	**12/29/05**	**051227S05**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	96	103	75-125	6	0-20	
Lead	126	117	75-125	4	0-20	3

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/22/05
Work Order No: 05-12-1347
Preparation: EPA 3545
Method: EPA 8310

Project SDUSD / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NM-B25-35.0	**Solid**	**HPLC 5**	**12/27/05**	**12/28/05**	**051227S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	97	102	40-160	4	0-20	
Benzo (k) Fluoranthene	101	107	40-160	6	0-20	
Benzo (a) Pyrene	116	116	40-160	0	0-20	
Dibenz (a,h) Anthracene	116	113	40-160	2	0-20	
Benzo (g,h,i) Perylene	96	93	40-160	3	0-20	
Indeno (1,2,3-c,d) Pyrene	89	94	40-160	6	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Laboratory Control Sample

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	N/A
5710 Ruffin Road		Work Order No:	05-12-1347
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: SDUSD / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-7,160	**Solid**	**ICP 3300**	**12/29/05**	**051227-I-05**	**051227L05**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	25.0	25.1	101	80-120	
Lead	25.0	26.6	106	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: N/A
Work Order No: 05-12-1347
Preparation: EPA 3545
Method: EPA 8310

Project: SDUSD / 105338029

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-002-614	Solid	HPLC 5	12/27/05	12/28/05	051227L02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	105	111	40-160	6	0-20	
Benzo (k) Fluoranthene	109	117	40-160	6	0-20	
Benzo (a) Pyrene	102	112	40-160	9	0-20	
Dibenz (a,h) Anthracene	122	128	40-160	5	0-20	
Benzo (g,h,i) Perylene	98	104	40-160	6	0-20	
Indeno (1,2,3-c,d) Pyrene	101	106	40-160	5	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-12-1347

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 or Matrix Spike Duplicate 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.

December 30, 2005

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

Subject: **Calscience Work Order No.: 05-12-1165**
Client Reference: Correia Middle School

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 12/20/2005 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 any subcontracted analysis 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,

Calscience Environmental
Laboratories, Inc.
Virendra Patel
Project Manager

Calscience Environmental Laboratories, Inc.

Case Narrative for 05-12-1165

Sample Condition on Receipt

Forty soil samples were received as part of this Work Order on October 20, 2005. All samples were transferred to the laboratory in an ice-chest following strict chain-of-custody procedures. The temperature (3.8°C) of the samples was measured upon arrival in the laboratory and was within acceptable limits. The samples were logged into the Laboratory Information Management System (LIMS), given laboratory identification numbers, and stored in refrigeration units pending analysis.

Data Summary

The samples included in this report were analyzed in accordance with the attached chain-of-custody (COC) records. Data is presented on a wet weight basis.

Holding Times

All holding time requirements were met.

Calibration

Frequency and control criteria for initial and continuing calibration verifications were met.

Blanks

The method blank data showed non-detectable levels, with the exception of select constituents. Please see Table A below for details.

Table A: Trace levels present in associated method blanks	
EPA Method 6010B	
Batch #	Analyte(s)
051221L07	Lead

Calscience Environmental Laboratories, Inc.

Case Narrative for 05-12-1165

Matrix Spikes

Matrix Spikes (MS) and Matrix Spike Duplicates (MSD) were performed at required frequencies. All recoveries were within acceptable limits, with the exception of the specific methods/analytes listed below in Table B.

Table B: Matrix Spike / Matrix Spike Duplicate outside acceptable limits	
EPA Method 8310	
Batch #	Analytes(s)
051220S04	Benzo (b) Fluoranthene*, Benzo (k) Fluoranthene*, Benzo (a) Pyrene*, Dibenz (a,h) Anthracene, Benzo (g,h,i) Perylene* & Indeno (1,2,3-c,d) Pyrene*

*The relative percent difference (RPD) are outside acceptable limits. These recoveries have been flagged with a "4" qualifier.

Note that the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) recoveries were within control limits, indicating a matrix interference effect. Therefore, the data is released without further action or qualification.

Laboratory Control Samples

The Laboratory Control Sample (LCS) analyses were performed at the required frequencies. All recoveries were within acceptable limits.

Surrogates

Surrogate recoveries for all samples were within acceptable control limits.

From: Lauren Hedges
To: Virendra Patel;
CC:
Subject: RE: Correia MS samples
Date: Wednesday, December 21, 2005 9:44:41 AM
Attachments:

Virendra,
Please analyze both of the extra samples for arsenic and lead. Hold the samples for possible further analysis.
The method for dioxins should be 8290. Thanks!
Lauren
-----Original Message-----
From: Virendra Patel [mailto:VPatel@calscience.com]
Sent: Wednesday, December 21, 2005 9:26 AM
To: Lauren Hedges
Cc: Sree Gopinath; Emma Dennison
Subject: RE: Correia MS samples

Lauren,
Attached you will find copies of the COC received for the subject site on 12/20/05. See below for discrepancies and advise at your earliest convenience.
05-12-1164:
Received 1 extra sample labeled NM-B26 (13-14) collected on 12/19/05 @ 12:58. Added this sample #14 with no analysis. Please advise on analysis required.
05-12-1165:
Received 1 extra sample labeled NM-S22-0.5 collected on 12/20/05 @ 18:20. Added this sample as #27 with no analysis. Please advise on the analysis required.
Please call with any questions or concerns.
Thanks.
Virendra

> -----Original Message-----
> From: Lauren Hedges [mailto:lhedges@ninyoandmoore.com]

> Sent: Tuesday, December 20, 2005 2:01 PM
> To: Virendra Patel
> Subject: Correia MS samples
>
> Hi Virendra,
> Sorry for the mixup on this one. I guess the courier always checks
> the refrigerator, and just picks up samples if they are in there.
> Hopefully, we can get things cleared up via email and phone.
>
> For the samples collected by Kiki Allen with identifiers such as
> NM-S1-0.5 (3 pages of COCs), please add the following:
> - analyze all samples and duplicates for arsenic (please hold or
> possible further analyses)
> - analyze the equipment blank for total lead, arsenic, and PAHs
> (please hold for possible Title 22 analysis)
>
> For the samples collected by Matt Fuller with identifiers such as
> NM-B24 (0-1) (2 pages of COCs), please add the following:
> - analyze all samples for arsenic (please hold all samples for
> possible further analyses)
>
> I think this is it for now, but please let me know if you have
> additional questions when you receive the samples. Please copy Sree
> Gopinath on the results as he will be following this project while I'm
> on vacation (Dec 22 - Dec 28).
>
> Thanks,
> Lauren Hedges
> Ninyo & Moore
> Project Geologist
> 5710 Ruffin Road
> San Diego, CA 92123
>
> Office: 858.576.1000 (ext.1288)
> Cell: 619.843.7344
> Fax: 858.576.9600
>

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
Sample Summary Report

WORK ORDER #: **05-12-1165** **QAPP:** **0117**

#	Client Sample ID	Matrix	Date Collected	NoC	Comment
1	NM-S6-0.5	S	12/19/2005	1	
2	DUP-03	S	12/19/2005	1	
3	NM-S15-0.5	S	12/19/2005	1	
4	NM-S11-0.5	S	12/19/2005	1	
5	NM-S23-0.5	S	12/19/2005	1	
6	DUP-02	S	12/19/2005	1	
7	NM-EQ1-1	W	12/20/2005	2	
8	DUP-01	S	12/19/2005	1	
9	NM-S21-0.5	S	12/19/2005	1	
10	NM-S1-0.5	S	12/19/2005	1	
11	NM-S13-0.5	S	12/19/2005	1	
12	NM-S9-0.5	S	12/19/2005	1	
13	NM-S12-0.5	S	12/19/2005	1	
14	NM-S18-0.5	S	12/19/2005	1	
15	NM-S2-0.5	S	12/19/2005	1	
16	NM-S24-0.5	S	12/19/2005	1	
17	NM-S14-0.5	S	12/19/2005	1	
18	NM-S7-0.5	S	12/19/2005	1	
19	NM-S4-0.5	S	12/19/2005	1	
20	NM-S19-0.5	S	12/19/2005	1	
21	NM-S17-0.5	S	12/19/2005	1	
22	NM-S22-0.5	S	12/19/2005	1	
23	NM-S10-0.5	S	12/19/2005	1	
24	NM-S8-0.5	S	12/19/2005	1	
25	NM-S16-0.5	S	12/19/2005	1	
26	NM-S3-0.5	S	12/19/2005	1	
27	NM-S5-0.5	S	12/19/2005	1	
28	NM-S22-0.5	S	11/22/2005	1	

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 0 9 - 1 2 - 1 1 6 5

Cooler 1 **of** 1

SAMPLE RECEIPT FORM

CLIENT: Hunger + Moore **DATE:** 12/20/15

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.

LABORATORY (Other than Calscience Courier):

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

3.8 °C Temperature blank. Initial: [illegible]

CUSTODY SEAL INTACT:

Sample(s): _____ Cooler: _____ No (Not Intact) : _____ Not Applicable (N/A): ✓

Initial: [illegible]

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody document(s) received with samples	✓		
Sample container label(s) consistent with custody papers	✓ TL	✓	
Sample container(s) intact and good condition	✓		
Correct containers 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:

On the sample, the ID number is → "NM-S22-0.5", but on the C.O.C., the ID number is → "NM-22-0.5". TL 12/20/15 @ 18:20.

CALSCIENCE ENVIRONMENTAL LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-19-05

Page 1 of 3

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: (858) 576-1000 FAX: E-MAIL: LHedges@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: Level III Data Validation Package

CLIENT PROJECT NAME / NUMBER: Corcoran Middle School
PROJECT CONTACT: Lauren Hedges
SAMPLER(S): (SIGNATURE) [signature]
COELT LOG CODE ☐☐☐☐
P.O. NO.: 105338029
LAB USE ONLY: 12-1165
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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead
1	NM-56-0.5	NM-56-0.5	12/19/05	10:45	Soil	1														X
2	DUP-03	DUP-03	12/19/05	~~[illegible]~~																X
3	NM-515-0.5	NM-515-0.5		12:40																X
4	NM-511-0.5	NM-511-0.5		13:40																X
5	NM-323-0.5	NM-523-0.5		15:40																X
6	DUP-02	DUP-02																		X
	~~EB-01~~	~~EB-01~~	~~12/20/05~~	~~07:30~~																
7.	~~EB-02~~	~~EB-02~~	~~12/20/05~~	~~07:40~~																
	NM-EQ-1	NM-EQ-1	12/20	07:30	W	1														
	NM-EQ-1	NM-EQ-1		7:30	W	1														

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature] CEL	12/20/05	1330
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
[signature]	[signature]	12/20/05	1700

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10/20/04 Revision

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LABORATORIES, INC.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-19-05

Page 2 of 3

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: (858) 576-1000 FAX: E-MAIL:
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: Level III Data Validation Package

CLIENT PROJECT NAME / NUMBER: Correia School 105338029
PROJECT CONTACT: Lauren Hedges
SAMPLER(S): (SIGNATURE)
COELT LOG CODE
P.O. NO.: 105338029
LAB USE ONLY: 12-1106
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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead			
9	DUP-01	DUP-01	12/19/05		Soil	1														X			
10	NM-S21-0.5	NM-S21-0.5		16:00																X			
11	NM-S1-0.5	NM-S1-0.5		9:17																X			
12	NM-S13-0.5	NM-S13-0.5		13:07																X			
13	NM-S9-0.5	NM-S9-0.5		11:00																X			
14	NM-S12-0.5	NM-S12-0.5		13:20																X			
15	NM-S18-0.5	NM-S18-0.5		14:26																X			
16	NM-S2-0.5	NM-S2-0.5		09:30																X			
17	NM-S24-0.5	NM-S24-0.5		15:15																X			
18	NM-S14-0.5	NM-S14-0.5		12:47																X			

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	CEL	12/20/5	1330
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature) CEL	Date: 12/20/5	Time: 1700

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 • FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

Date 12-19-05

Page 3 of 3

LABORATORY CLIENT: Ninyo & Moore
ADDRESS: 5710 Ruffin Road
CITY: San Diego STATE: CA ZIP: 92123
TEL: (858) 576-1000 FAX: E-MAIL: L Hedges@ninyoandmoore.com

CLIENT PROJECT NAME / NUMBER: Correa School / 105338029
P.O. NO.: 105338029
PROJECT CONTACT: Lauren Hedges
SAMPLER(S): (SIGNATURE)
COELT LOG CODE
LAB USE ONLY: E2-1165
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: Level III Data Validation Package

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	BTEX / MTBE (8260B) or	OXYGENATES (8260B)	VOCs (8260B)	5035 ENCORE PREP	SVOCs (8270C)	PEST (8081A)	PCBs (8082)	CAC, T22 METALS (6010B) / 747	PNAs (8310) or (8270C)	VOCs (TO-14A) or (TO-15)	TPH(G) (TO-3M)	Total Lead
1	NM-57-0.5	NM-57-0.5	12/19/05	10:50	Soil	1														X
2	NM-54-0.5	NM-54-0.5		10:15																X
3	NM-519-0.5	NM-519-0.5		14:45																X
4	NM-517-0.5	NM-517-0.5		14:20																X
5	NM-22-0.5	NM-22-0.5		15:30																X
6	NM-510-0.5	NM-510-0.5		13:55																X
7	NM-58-0.5	NM-58-0.5		11:30																X
8	NM-516-0.5	NM-516-0.5		14:10																X
9	NM-53-0.5	NM-53-05		9:40																X
10	NM-55-0.5	NM-55-0.5		10:30																X

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	[signature] CEL	12/20/5	1330
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received for Laboratory by: (Signature)	Date:	Time:
[signature]	[signature] CEL	12/20/5	1700

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10/20/04 Revision

Q&Q Graphic 714-898-9702

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/20/05
Work Order No: 05-12-1165
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Correia Middle School

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-S6-0.5	**05-12-1165-1**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L03**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	10.7	0.8	0.130	1		Lead	8.48	0.50	0.0527	1	

DUP-03	**05-12-1165-2**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L03**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	14.1	0.8	0.130	1		Lead	37.0	0.5	0.0527	1	

NM-S15-0.5	**05-12-1165-3**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L03**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.54	0.75	0.130	1		Lead	8.22	0.50	0.0527	1	

NM-S11-0.5	**05-12-1165-4**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L03**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.63	0.75	0.130	1		Lead	21.4	0.5	0.0527	1	

NM-S23-0.5	**05-12-1165-5**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L03**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	12.6	0.8	0.130	1		Lead	7.96	0.50	0.0527	1	

DUP-02	**05-12-1165-6**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L03**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.91	0.75	0.130	1		Lead	5.76	0.50	0.0527	1	

DUP-01	**05-12-1165-8**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L03**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	10.2	0.8	0.130	1		Lead	3.39	0.50	0.0527	1	

NM-S21-0.5	**05-12-1165-9**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L03**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	14.6	0.8	0.130	1		Lead	16.4	0.5	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/20/05
Work Order No: 05-12-1165
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Correia Middle School

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-S1-0.5	05-12-1165-10	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.30	0.75	0.130	1		Lead	10.3	0.5	0.0527	1	

NM-S13-0.5	05-12-1165-11	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	8.28	0.75	0.130	1		Lead	7.47	0.50	0.0527	1	

NM-S9-0.5	05-12-1165-12	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.94	0.75	0.130	1		Lead	12.2	0.5	0.0527	1	

NM-S12-0.5	05-12-1165-13	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	8.10	0.75	0.130	1		Lead	7.83	0.50	0.0527	1	

NM-S18-0.5	05-12-1165-14	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	8.70	0.75	0.130	1		Lead	8.25	0.50	0.0527	1	

NM-S2-0.5	05-12-1165-15	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.76	0.75	0.130	1		Lead	6.49	0.50	0.0527	1	

NM-S24-0.5	05-12-1165-16	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.65	0.75	0.130	1		Lead	8.81	0.50	0.0527	1	

NM-S14-0.5	05-12-1165-17	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	10.7	0.8	0.130	1		Lead	2.45	0.50	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia Middle School			Page 3 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-S7-0.5	**05-12-1165-18**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L03**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.75	0.75	0.130	1		Lead	5.93	0.50	0.0527	1	

NM-S4-0.5	**05-12-1165-19**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L03**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.38	0.75	0.130	1		Lead	21.9	0.5	0.0527	1	

NM-S19-0.5	**05-12-1165-20**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L03**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	8.34	0.75	0.130	1		Lead	6.45	0.50	0.0527	1	

NM-S17-0.5	**05-12-1165-21**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L03**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.89	0.75	0.130	1		Lead	7.86	0.50	0.0527	1	

NM-S22-0.5	**05-12-1165-22**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.80	0.75	0.130	1		Lead	17.5	0.5	0.0527	1	

NM-S10-0.5	**05-12-1165-23**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.47	0.75	0.130	1		Lead	27.0	0.5	0.0527	1	

NM-S8-0.5	**05-12-1165-24**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.60	0.75	0.130	1		Lead	9.10	0.50	0.0527	1	

NM-S16-0.5	**05-12-1165-25**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	8.74	0.75	0.130	1		Lead	19.0	0.5	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia Middle School			Page 4 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-S3-0.5	**05-12-1165-26**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	11.0	0.8	0.130	1		Lead	5.71	0.50	0.0527	1	

NM-S5-0.5	**05-12-1165-27**	**12/19/05**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	8.48	0.75	0.130	1		Lead	4.71	0.50	0.0527	1	

Method Blank	**097-01-002-7,138**	**N/A**	**Solid**	**12/21/05**	**12/22/05**	**051221L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	ND	0.500	0.0527	1	

Method Blank	**097-01-002-7,139**	**N/A**	**Solid**	**12/21/05**	**12/22/05**	**051221L03**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	ND	0.500	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
Project: Correia Middle School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EQ1-1	**05-12-1165-7**	**12/20/05**	**Aqueous**	**12/21/05**	**12/22/05**	**051221L07**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.0100	0.00308	1		Lead	ND	0.0100	0.00236	1	

Method Blank	**097-01-003-5,655**	**N/A**	**Aqueous**	**12/21/05**	**12/22/05**	**051221L07**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.00611	0.0100	0.00308	1	J	Lead	ND	0.0100	0.00236	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3510B
		Method:	EPA 8310
		Units:	ug/L
Project: Correia Middle School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EQ1-1	**05-12-1165-7**	**12/20/05**	**Aqueous**	**12/21/05**	**12/28/05**	**051220L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	0.71	1.0	0.57	1	J	Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	83	40-160	

Method Blank	**099-07-003-674**	**N/A**	**Aqueous**	**12/20/05**	**12/22/05**	**051220L04**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	98	40-160	

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project Correia Middle School

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
NM-S15-0.5	**Solid**	**ICP 3300**	**12/21/05**	**12/22/05**	**051221S03**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	112	106	75-125	4	0-20	
Lead	113	110	75-125	2	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project Correia Middle School

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1164-13	**Solid**	**ICP 3300**	**12/21/05**	**12/22/05**	**051221S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	88	95	75-125	6	0-20	
Lead	101	105	75-125	3	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: 12/20/05
Work Order No: 05-12-1165
Preparation: EPA 3010A Total
Method: EPA 6010B

Project Correia Middle School

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1162-2	**Aqueous**	**ICP 3300**	**12/21/05**	**12/22/05**	**051221S07**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Arsenic	98	101	80-120	3	0-20	
Lead	98	100	80-120	1	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: 12/20/05
Work Order No: 05-12-1165
Preparation: EPA 3510B
Method: EPA 8310

Project Correia Middle School

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
05-12-1162-2	**Aqueous**	**HPLC 5**	**12/21/05**	**12/28/05**	**051220S04**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	109	70	40-160	44	0-20	4
Benzo (k) Fluoranthene	115	73	40-160	45	0-20	4
Benzo (a) Pyrene	118	75	40-160	45	0-20	4
Dibenz (a,h) Anthracene	127	81	40-160	45	0-20	4
Benzo (g,h,i) Perylene	104	67	40-160	44	0-20	4
Indeno (1,2,3-c,d) Pyrene	104	67	40-160	43	0-20	4

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:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: Correia Middle School

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-7,139	**Solid**	**ICP 3300**	**12/22/05**	**051221-I-03**	**051221L03**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	25.0	26.9	108	80-120	
Lead	25.0	27.4	110	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:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B

Project: Correia Middle School

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-002-7,138	**Solid**	**ICP 3300**	**12/22/05**	**051221-I-04**	**051221L04**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	25.0	26.6	106	80-120	
Lead	25.0	27.1	108	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:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B

Project: Correia Middle School

Quality Control Sample ID	Matrix	Instrument	Date Analyzed	Lab File ID	LCS Batch Number
097-01-003-5,655	**Aqueous**	**ICP 3300**	**12/22/05**	**051221-I-07**	**051221L07**

Parameter	Conc Added	Conc Recovered	LCS %Rec	%Rec CL	Qualifiers
Arsenic	0.500	0.510	102	80-120	
Lead	0.500	0.516	103	80-120	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

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

Date Received: N/A
Work Order No: 05-12-1165
Preparation: EPA 3510B
Method: EPA 8310

Project: Correia Middle School

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-07-003-674	Aqueous	HPLC 5	12/20/05	12/22/05	051220L04

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzo (b) Fluoranthene	103	118	40-160	13	0-20	
Benzo (k) Fluoranthene	107	124	40-160	15	0-20	
Benzo (a) Pyrene	92	102	40-160	11	0-20	
Dibenz (a,h) Anthracene	104	114	40-160	9	0-20	
Benzo (g,h,i) Perylene	100	109	40-160	8	0-20	
Indeno (1,2,3-c,d) Pyrene	97	111	40-160	14	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 05-12-1165

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 or Matrix Spike Duplicate 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.

APPENDIX H

LABORATORY DATA VALIDATION

LABORATORY DATA CONSULTANTS, INC.
7750 El Camino Real, Suite 2L Carlsbad, CA 92009 Phone: 760/634-0437 Fax: 760/634-0439

Ninyo & Moore
5710 Ruffin Road
San Diego, CA 92123
ATTN: Ms. Lauren Hedges

February 10, 2006

SUBJECT: Correia Middle School, Data Validation

Dear Ms. Hedges,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on February 1, 2006. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project # 14589:

SDG #	Fraction
05-12-1165, 05-12-1347, 05-12-1348, 05-12-1349, 05-12-1442, 05-12-1443, 05-12-1164	Metals, Polynuclear Aromatic Hydrocarbons, Dioxins/Dibenzofurans

The data validation was performed under EPA Level III guidelines. The analyses were validated using the following documents, as applicable to each method:

- USEPA, Contract Laboratory Program National Functional Guidelines for Organic Data Review, October 1999
- USEPA, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, October 2004
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998

Please feel free to contact us if you have any questions.

Sincerely,

ERauto

Erlinda T. Rauto
Operations Manager/Senior Chemist

Correia Middle School
Data Validation Reports
LDC# 14589

Metals

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 19 through December 20, 2005

LDC Report Date: February 7, 2006

Matrix: Soil/Water

Parameters: Arsenic & Lead

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1165

Sample Identification

NM-S6-0.5
DUP-03
NM-S15-0.5
NM-S11-0.5
NM-S23-0.5
DUP-02
NM-EQ1-1
DUP-01
NM-S21-0.5
NM-S1-0.5
NM-S13-0.5
NM-S9-0.5
NM-S12-0.5
NM-S18-0.5
NM-S2-0.5
NM-S24-0.5
NM-S14-0.5
NM-S7-0.5
NM-S4-0.5
NM-S19-0.5
NM-S17-0.5
NM-S22-0.5
NM-S10-0.5
NM-S8-0.5
NM-S16-0.5
NM-S3-0.5
NM-S5-0.5
NM-S15-0.5MS
NM-S15-0.5MSD

Introduction

This data review covers 28 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6010B for Arsenic and Lead.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical or advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Arsenic	0.00611 mg/L	All water samples in SDG 05-12-1165
ICB/CCB	Arsenic Lead	0.0093 mg/L 0.0028 mg/L	All samples in SDG 05-12-1165

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks.

Sample NM-EQ1-1 was identified as an equipment blank. No arsenic or lead contaminants were found in this blank.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

Samples DUP-03 and NM-S21-0.5, samples NM-S15-0.5 and DUP-02, and samples DUP-01 and NM-S14-0.5 were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD (Limits)
	DUP-03	NM-S21-0.5	
Arsenic	14.1	14.6	3 (≤100)

Compound	Concentration (mg/Kg)		RPD (Limits)
	DUP-03	NM-S21-0.5	
Lead	37.0	16.4	77 (≤100)

Compound	Concentration (mg/Kg)		RPD (Limits)
	NM-S15-0.5	DUP-02	
Arsenic	9.54	6.91	32 (≤100)
Lead	8.22	5.76	35 (≤100)

Compound	Concentration (mg/Kg)		RPD (Limits)
	DUP-01	NM-S14-0.5	
Arsenic	10.2	10.7	5 (≤100)
Lead	3.39	2.45	32 (≤100)

Correia Middle School
Arsenic & Lead - Data Qualification Summary - SDG 05-12-1165

No Sample Data Qualified in this SDG

Correia Middle School
Arsenic & Lead - Laboratory Blank Data Qualification Summary - SDG 05-12-1165

No Sample Data Qualified in this SDG

Correia Middle School
Arsenic & Lead - Field Blank Data Qualification Summary - SDG 05-12-1165

No Sample Data Qualified in this SDG

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia Middle School			Page 1 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-S6-0.5	05-12-1165-1	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	10.7	0.8	0.130	1		Lead	8.48	0.50	0.0527	1	

DUP-03	05-12-1165-2	12/19/05	Solid	12/21/05	12/22/05	051221L03					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	14.1	0.8	0.130	1		Lead	37.0	0.5	0.0527	1	

NM-S15-0.5	05-12-1165-3	12/19/05	Solid	12/21/05	12/22/05	051221L03					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.54	0.75	0.130	1		Lead	8.22	0.50	0.0527	1	

NM-S11-0.5	05-12-1165-4	12/19/05	Solid	12/21/05	12/22/05	051221L03					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.63	0.75	0.130	1		Lead	21.4	0.5	0.0527	1	

NM-S23-0.5	05-12-1165-5	12/19/05	Solid	12/21/05	12/22/05	051221L03					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	12.6	0.8	0.130	1		Lead	7.96	0.50	0.0527	1	

DUP-02	05-12-1165-6	12/19/05	Solid	12/21/05	12/22/05	051221L03					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.91	0.75	0.130	1		Lead	5.76	0.50	0.0527	1	

DUP-01	05-12-1165-8	12/19/05	Solid	12/21/05	12/22/05	051221L03					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	10.2	0.8	0.130	1		Lead	3.39	0.50	0.0527	1	

NM-S21-0.5	05-12-1165-9	12/19/05	Solid	12/21/05	12/22/05	051221L03					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	14.6	0.8	0.130	1		Lead	16.4	0.5	0.0527	1	

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

1/2/06

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/20/05
Work Order No: 05-12-1165
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Correia Middle School

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-S1-0.5	05-12-1165-10	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.30	0.75	0.130	1		Lead	10.3	0.5	0.0527	1	

NM-S13-0.5	05-12-1165-11	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	8.28	0.75	0.130	1		Lead	7.47	0.50	0.0527	1	

NM-S9-0.5	05-12-1165-12	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.94	0.75	0.130	1		Lead	12.2	0.5	0.0527	1	

NM-S12-0.5	05-12-1165-13	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	8.10	0.75	0.130	1		Lead	7.83	0.50	0.0527	1	

NM-S18-0.5	05-12-1165-14	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	8.70	0.75	0.130	1		Lead	8.25	0.50	0.0527	1	

NM-S2-0.5	05-12-1165-15	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.76	0.75	0.130	1		Lead	6.49	0.50	0.0527	1	

NM-S24-0.5	05-12-1165-16	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.65	0.75	0.130	1		Lead	8.81	0.50	0.0527	1	

NM-S14-0.5	05-12-1165-17	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	10.7	0.8	0.130	1		Lead	2.45	0.50	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia Middle School			Page 3 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-S7-0.5	05-12-1165-18	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.75	0.75	0.130	1		Lead	5.93	0.50	0.0527	1	

NM-S4-0.5	05-12-1165-19	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.38	0.75	0.130	1		Lead	21.9	0.5	0.0527	1	

NM-S19-0.5	05-12-1165-20	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	8.34	0.75	0.130	1		Lead	6.45	0.50	0.0527	1	

NM-S17-0.5	05-12-1165-21	12/19/05	Solid	12/21/05	12/22/05	051221L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.89	0.75	0.130	1		Lead	7.86	0.50	0.0527	1	

NM-S22-0.5	05-12-1165-22	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.80	0.75	0.130	1		Lead	17.5	0.5	0.0527	1	

NM-S10-0.5	05-12-1165-23	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.47	0.75	0.130	1		Lead	27.0	0.5	0.0527	1	

NM-S8-0.5	05-12-1165-24	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.60	0.75	0.130	1		Lead	9.10	0.50	0.0527	1	

NM-S16-0.5	05-12-1165-25	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	8.74	0.75	0.130	1		Lead	19.0	0.5	0.0527	1	

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

12/9/06

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia Middle School			Page 4 of 4

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-S3-0.5	05-12-1165-26	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	11.0	0.8	0.130	1		Lead	5.71	0.50	0.0527	1	

NM-S5-0.5	05-12-1165-27	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	8.48	0.75	0.130	1		Lead	4.71	0.50	0.0527	1	

Method Blank	097-01-002-7,138	N/A	Solid	12/21/05	12/22/05	051221L04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	ND	0.500	0.0527	1	

Method Blank	097-01-002-7,139	N/A	Solid	12/21/05	12/22/05	051221L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	ND	0.500	0.0527	1	

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

12/21/06

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
Project: Correia Middle School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EQ1-1	05-12-1165-7	12/20/05	Aqueous	12/21/05	12/22/05	051221L07

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.0100	0.00308	1		Lead	ND	0.0100	0.00236	1	

Method Blank	097-01-003-5,655	N/A	Aqueous	12/21/05	12/22/05	051221L07

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.00611	0.0100	0.00308	1	J	Lead	ND	0.0100	0.00236	1	

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

LDC #: 14589A4

VALIDATION COMPLETENESS WORKSHEET

Date: 2-2-06

SDG #: 05-12-1165

Level III

Page: 1 of 1

Laboratory: Calscience Environmental Laboratories, Inc.

Reviewer: MG

2nd Reviewer: MM

METHOD: Arsenic & Lead (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12-19-05 through 12-20-05
II.	Calibration	A	
III.	Blanks	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Matrix Spike Analysis	A	MS/MSD
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS
VIII.	Internal Standard (ICP-MS)	N	Not utilized
IX.	Furnace Atomic Absorption QC	N	" "
X.	ICP Serial Dilution	N	Not performed
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	SW	D=2+9 D=3+6 D=8+17
XIV.	Field Blanks	ND	EB=7

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: All soil except #7 A2

1	1	NM-S6-0.5 S	11	1	NM-S13-0.5 S	21	1	NM-S17-0.5 S	31	1	PBS1
2	1	DUP-03	12	1	NM-S9-0.5	22	2	NM-S22-0.5	32	2	PBS2
3	1	NM-S15-0.5	13	1	NM-S12-0.5	23	2	NM-S10-0.5	33	3	PBW
4	1	NM-S11-0.5	14	1	NM-S18-0.5	24	2	NM-S8-0.5	34		
5	1	NM-S23-0.5	15	1	NM-S2-0.5	25	2	NM-S16-0.5	35		
6	1	DUP-02	16	1	NM-S24-0.5	26	2	NM-S3-0.5	36		
7	3	NM-EQ1-1 W	17	1	NM-S14-0.5	27	2	NM-S5-0.5	37		
8	1	DUP-01 S	18	1	NM-S7-0.5	28	1	NM-S15-0.5MS	38		
9	1	NM-S21-0.5	19	1	NM-S4-0.5	29	1	NM-S15-0.5MSD	39		
10	1	NM-S1-0.5	20	1	NM-S19-0.5	30			40		

Notes:

LDC #: 14589A4
SDG #: 05-12-1165

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: MG
2nd reviewer: MM

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1 → 27	S/W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
QC 28, 29	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
ICP Trace	S/W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,

Comments: Mercury by CVAA if performed

LDC #: 14589A4
SDG #: 05-12-1165
METHOD: Trace Metals (EPA SW 846 Method 6010/7000)
Blank concentration units, unless otherwise noted: mg/L

VALIDATION FINDINGS WORKSHEET
Prep Blank/ICB/CCB Findings

Associated Samples: all

Reviewer: MG
2nd Reviewer: MM

	Blank Identification										
Analyte	ICB	CCB1	CCB2	CCB3	PB ( )	ICB	CCB1	CCB2	CCB3	PB ( )	Analyte
Al											Al
Sb											Sb
As	0.0081	0.0093*	~~0.0106~~								As
Ba											Ba
Be											Be
Cd											Cd
Ca											Ca
Cr											Cr
Co											Co
Cu											Cu
Fe											Fe
Pb	0.0028*										Pb
Mg											Mg
Mn											Mn
Hg											Hg
Ni											Ni
K											K
Se											Se
Ag											Ag
Na											Na
Tl											Tl
V											V
Zn											Zn
B											B
Mo											Mo
Sr											Sr

The highest concentration found in the Prep Blank and ICB/CCB for each analyte is circled on this worksheet and transferred to the PB/ICB/CCB Qualified Samples worksheet.

BLNKICB.4SW

* water ends here (soil too)

LDC #: 14589A4
SDG #: 05-12-1165

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MY

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: mg/L Associated Samples: all water

*all (mg/L)

Analyte	Maximum PB* (mg/Kg)	*Maximum PB* mg/L ~~(ug/L)~~	*Maximum ICB/CCB* mg/L ~~(ug/L)~~	Blank Action Limit	Sample Identification										
					—	—	No	sample	was	qualified	—	—	—		
Al															Al
Sb															Sb
As		0.00611	0.0093	0.046											As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr															Cr
Co															Co
Cu															Cu
Fe															Fe
Pb			0.0028	0.014											Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se															Se
Ag															Ag
Na															Na
Tl															Tl
V															V
Zn															Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589A4
SDG #: 05-12-1165

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: MG
2nd Reviewer: MY

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: 50x
Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: all soil

(*mg/L)

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L)	*Maximum ICB/CCB* mg/L (ug/L)	Blank Action Limit	Sample Identification										
					No samples were qualified										
Al															Al
Sb															Sb
As			0.0093	2.32											As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr															Cr
Co															Co
Cu															Cu
Fe															Fe
Pb			0.0028	0.70											Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se															Se
Ag															Ag
Na															Na
Tl															Tl
V															V
Zn															Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC#: 14589A4
SDG#: 05-12-1165

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: MG
2nd Reviewer: MY

METHOD: Metals (EPA Method 6010B/7000)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (mg/kg)		(≤ 100) RPD	
	2	9		
Arsenic	14.1	14.6	3	
Lead	37.0	16.4	77	

V:\FIELD DUPLICATES\FD_inorganic\14589A4.wpd

Compound	Concentration (mg/kg)		(≤ 100) RPD	
	3	6		
Arsenic	9.54	6.91	32	
Lead	8.22	5.76	35	

V:\FIELD DUPLICATES\FD_inorganic\14589A4.wpd

Compound	Concentration (mg/kg)		(≤ 100) RPD	
	8	17		
Arsenic	10.2	10.7	5	
Lead	3.39	2.45	32	

V:\FIELD DUPLICATES\FD_inorganic\14589A4.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 22, 2005

LDC Report Date: February 8, 2006

Matrix: Soil

Parameters: Metals

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1347

Sample Identification

NM-B21-1.0
NM-B21-5.0
NM-B21-10.0
NM-B21-12.5
NM-B27-1.0
NM-B27-5.0
NM-B27-10.0
NM-B25-1.0
NM-B25-5.0
NM-B25-9.0
NM-B25-17.5RE*
NM-B25-20.0
NM-B25-25.0
NM-B25-30.0
NM-B25-35.0
NM-B25-40.0
NM-B25-45.0
NM-B25-50.0
NM-B21-1.0MS
NM-B21-1.0MSD
NM-B25-17.5

*Indicates sample was analyzed for Title 22 Metals, all other samples analyzed for Arsenic and Lead only.

Introduction

This data review covers 21 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B and 7000 for Metals. The metals analyzed were Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical or advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Arsenic	0.173 mg/Kg	NM-B21-1.0 NM-B21-5.0 NM-B21-10.0 NM-B21-12.5 NM-B27-1.0 NM-B27-5.0 NM-B27-10.0 NM-B25-1.0 NM-B25-5.0 NM-B25-9.0 NM-B25-20.0 NM-B25-25.0 NM-B25-30.0 NM-B25-35.0 NM-B25-40.0 NM-B25-45.0 NM-B25-50.0 NM-B25-17.5

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Lead	0.0029 mg/L	NM-B21-1.0 NM-B21-5.0 NM-B21-10.0 NM-B21-12.5 NM-B27-1.0 NM-B27-5.0 NM-B27-10.0 NM-B25-1.0 NM-B25-5.0 NM-B25-9.0 NM-B25-20.0 NM-B25-25.0 NM-B25-30.0 NM-B25-35.0 NM-B25-40.0 NM-B25-45.0 NM-B25-50.0 NM-B25-17.5
PB (prep blank)	Arsenic Cadmium Thallium Vanadium	0.212 mg/Kg 0.0155 mg/Kg 0.143 mg/Kg 0.0135 mg/Kg	NM-B25-17.5RE*
ICB/CCB	Arsenic Beryllium Cadmium Copper Lead Selenium Silver Thallium Vanadium Zinc Molybdenum	0.0083 mg/L 0.0002 mg/L 0.0004 mg/L 0.0080 mg/L 0.0056 mg/L 0.0096 mg/L 0.0009 mg/L 0.0066 mg/L 0.0010 mg/L 0.0441 mg/L 0.008 mg/L	NM-B25-17.5RE*

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks.

No field blanks were identified in this SDG.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
NM-B21-1.0MS/MSD (NM-B21-1.0 NM-B21-5.0 NM-B21-10.0 NM-B21-12.5 NM-B27-1.0 NM-B27-5.0 NM-B27-10.0 NM-B25-1.0 NM-B25-5.0 NM-B25-9.0 NM-B25-20.0 NM-B25-25.0 NM-B25-30.0 NM-B25-35.0 NM-B25-40.0 NM-B25-45.0 NM-B25-50.0 NM-B25-17.5)	Lead	126 (75-125)	-	-	J (all detects)	A

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Metals - Data Qualification Summary - SDG 05-12-1347

SDG	Sample	Analyte	Flag	A or P	Reason
05-12-1347	NM-B21-1.0 NM-B21-5.0 NM-B21-10.0 NM-B21-12.5 NM-B27-1.0 NM-B27-5.0 NM-B27-10.0 NM-B25-1.0 NM-B25-5.0 NM-B25-9.0 NM-B25-20.0 NM-B25-25.0 NM-B25-30.0 NM-B25-35.0 NM-B25-40.0 NM-B25-45.0 NM-B25-50.0 NM-B25-17.5	Lead	J (all detects)	A	Matrix spike/Matrix spike duplicates (%R)

Correia Middle School
Metals - Laboratory Blank Data Qualification Summary - SDG 05-12-1347

No Sample Data Qualified in this SDG

Correia Middle School
Metals - Field Blank Data Qualification Summary - SDG 05-12-1347

No Sample Data Qualified in this SDG

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Project: SDUSD / 105338029

Date Received:	12/22/05
Work Order No:	05-12-1347
Preparation:	EPA 3050B
Method:	EPA 6010B
Units:	mg/kg
	Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B21-1.0	05-12-1347-1	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result		RL	MDL	DF	Qual
Arsenic	6.39	0.75	0.130	1	B	Lead	24.2	J	0.5	0.0527	1	

NM-B21-5.0	05-12-1347-2	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result		RL	MDL	DF	Qual
Arsenic	11.0	0.8	0.130	1	B	Lead	7.05	J	0.50	0.0527	1	

NM-B21-10.0	05-12-1347-3	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result		RL	MDL	DF	Qual
Arsenic	6.52	0.75	0.130	1	B	Lead	2.47	J	0.50	0.0527	1	

NM-B21-12.5	05-12-1347-4	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result		RL	MDL	DF	Qual
Arsenic	5.62	0.75	0.130	1	B	Lead	2.56	J	0.50	0.0527	1	

NM-B27-1.0	05-12-1347-5	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result		RL	MDL	DF	Qual
Arsenic	6.81	0.75	0.130	1	B	Lead	18.8	J	0.5	0.0527	1	

NM-B27-5.0	05-12-1347-6	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result		RL	MDL	DF	Qual
Arsenic	4.47	0.75	0.130	1	B	Lead	15.8	J	0.5	0.0527	1	

NM-B27-10.0	05-12-1347-7	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result		RL	MDL	DF	Qual
Arsenic	1.90	0.75	0.130	1	B	Lead	10.8	J	0.5	0.0527	1	

NM-B25-1.0	05-12-1347-8	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result		RL	MDL	DF	Qual
Arsenic	3.36	0.75	0.130	1	B	Lead	5.91	J	0.50	0.0527	1	

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

1/9/06

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/22/05
Work Order No: 05-12-1347
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDUSD / 105338029

Page 2 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B25-5.0	05-12-1347-9	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.02	0.75	0.130	1	B	Lead	11.2 J	0.5	0.0527	1	

NM-B25-9.0	05-12-1347-10	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.77	0.75	0.130	1	B	Lead	2.43 J	0.50	0.0527	1	

NM-B25-17.5	05-12-1347-13	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	11.1	0.8	0.130	1	B	Lead	730 J	0.500	0.0527	1	

NM-B25-20.0	05-12-1347-14	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.31	0.75	0.130	1	B	Lead	2.79 J	0.50	0.0527	1	

NM-B25-25.0	05-12-1347-15	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.03	0.75	0.130	1	B	Lead	14.3 J	0.5	0.0527	1	

NM-B25-30.0	05-12-1347-17	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.80	0.75	0.130	1	B	Lead	4.48 J	0.50	0.0527	1	

NM-B25-35.0	05-12-1347-19	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.82	0.75	0.130	1	B	Lead	60.6 J	0.5	0.0527	1	

NM-B25-40.0	05-12-1347-21	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.93	0.75	0.130	1	B	Lead	2.87 J	0.50	0.0527	1	

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

2/9/06

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1347
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: SDUSD / 105338029			Page 3 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B25-45.0	05-12-1347-22	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.97	0.75	0.130	1	B	Lead	1.76 J	0.50	0.0527	1	

NM-B25-50.0	05-12-1347-23	12/22/05	Solid	12/27/05	12/29/05	051227L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	1.79	0.75	0.130	1	B	Lead	0.986 J	0.500	0.0527	1	

Method Blank	097-01-002-7,160	N/A	Solid	12/27/05	12/29/05	051227L05

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.173	0.750	0.130	1	J	Lead	ND	0.500	0.0527	1	

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

2/9/06

LDC #: 14589B4

SDG #: 05-12-1347

Laboratory: Calscience Environmental Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 2-2-06

Page: 1 of 1

Reviewer: MG

2nd Reviewer: MM

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12-22-05
II.	Calibration	A	
III.	Blanks	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Matrix Spike Analysis	SW	MS/MSD
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS
VIII.	Internal Standard (ICP-MS)	N	Not utilized
IX.	Furnace Atomic Absorption QC	N	" "
X.	ICP Serial Dilution	N	Not performed
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	N	
XIV.	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: all soil

1	NM-B21-1.0	11 2	NM-B25-17.5* RE	21 1	PBS1	31	
2	NM-B21-5.0	12	NM-B25-20.0	22 2	PBS2	32	
3	NM-B21-10.0	13	NM-B25-25.0	23	NM-B25-17.5	33	
4	NM-B21-12.5	14	NM-B25-30.0	24		34	
5	NM-B27-1.0	15	NM-B25-35.0	25		35	
6	NM-B27-5.0	16	NM-B25-40.0	26		36	
7	NM-B27-10.0	17	NM-B25-45.0	27		37	
8	NM-B25-1.0	18	NM-B25-50.0	28		38	
9	NM-B25-5.0	19	NM-B21-1.0MS	29		39	
10	NM-B25-9.0	20	NM-B21-1.0MSD	30		40	

Notes: *Indicates sample was analyzed for ~~TAL~~ Metals, all others analyzed for Arsenic and Lead only

Title 22

LDC #: 14589B4
SDG #: 05-12-1347

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: MG
2nd reviewer: MY

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
11	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
1→10, 23 12→18	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
QC 19, 20	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
ICP Trace	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN-, ___

Comments: Mercury by CVAA if performed

1-6-06
#11

12-29-05
#1→10, 12→18, 23

LDC #: 14589B4
SDG #: 05-12-1347

VALIDATION FINDINGS WORKSHEET
Prep Blank/ICB/CCB Findings

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MM

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)
Blank concentration units, unless otherwise noted: mg/L Associated Samples: all

	Blank Identification										
Analyte	ICB	CCB1	CCB2	CCB3	PB ( )	ICB	CCB1	CCB2	CCB3	PB ( )	Analyte
Al											Al
Sb											Sb
As	0.0083										As
Ba											Ba
Be	0.0001	0.0002									Be
Cd	0.0002	0.0004									Cd
Ca											Ca
Cr											Cr
Co											Co
Cu	0.0013	0.0047	0.0080								Cu
Fe											Fe
Pb	0.0053	0.0056		0.0023	0.0029						Pb
Mg											Mg
Mn											Mn
Hg											Hg
Ni											Ni
K											K
Se	0.0070	0.0096									Se
Ag	0.0009										Ag
Na											Na
Tl	0.0066										Tl
V	0.0003	0.0010									V
Zn	0.0048	0.0050	0.0441								Zn
B											B
Mo	0.0008										Mo
Sr											Sr

The highest concentration found in the Prep Blank and ICB/CCB for each analyte is circled on this worksheet and transferred to the PB/ICB/CCB Qualified Samples worksheet.

BLNKICB.4SW

LDC #: 14589B4
SDG #: 05-12-1347

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: MG
2nd Reviewer: HY

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: 50x
Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: 1→10, 12→18, 23

*(mg/L)

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	*Maximum ICB/CCB[a] mg/L (ug/L)	Blank Action Limit	Sample Identification										
					—	—	No samples were qualified				—	—	—		
Al															Al
Sb															Sb
As	0.173			0.865											As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr															Cr
Co															Co
Cu															Cu
Fe															Fe
Pb			0.0029	0.725											Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se															Se
Ag															Ag
Na															Na
Tl															Tl
V															V
Zn															Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589B4
SDG #: 05-12-1347

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: MG
2nd Reviewer: MY

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: 50x
Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: 11

*(mg/L)

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L)	*Maximum ICB/CCB* mg/L (ug/L)	Blank Action Limit	Sample Identification										
					—	—	No sample was qualified —								
Al															Al
Sb															Sb
As	0.212		0.0083	2.075											As
Ba															Ba
Be			0.0002	0.050											Be
Cd	0.0155		0.0004	0.10											Cd
Ca															Ca
Cr															Cr
Co															Co
Cu			0.0080	2.00											Cu
Fe															Fe
Pb			0.0056	1.40											Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se			0.0096	2.40											Se
Ag			0.0009	0.22											Ag
Na															Na
Tl	0.143		0.0066	1.65											Tl
V	0.0135		0.0010	0.25											V
Zn			0.0441	11.02											Zn
B															B
Mo			0.0008	0.20											Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589B4
SDG #: 05-12-1347

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MY

METHOD: Trace metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y (N) N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

(Y) N N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤35% for soil samples?

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
1	19/20	soil	Pb	126 (75-125)			1→10, 12→18, 23	J dets /A

Comments:

MSD.4S2

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 20, 2005

LDC Report Date: February 8, 2006

Matrix: Soil/Water

Parameters: Metals

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1348

Sample Identification

NM-B10-1.0	NM-S27-0.5
EB1-02RE*	NM-S20-0.5
NM-B23 (0-1.0)	NM-S26-0.5
NM-B23 (5.0)	DUP-04MS
NM-B23 (8.5-9.0)	DUP-04MSD
NM-B23 (12.0)	EB1-02
NM-B23 (15.0)	NM-B19 (4.5-5.0)
DUP-04	
NM-B18 (0.5-1.0)	
NM-B18 (4.5-5.0)	
NM-B19 (2.0-2.5)	
NM-B19 (4.5-5.0)RE*	
NM-B19 (9.5)	
NM-B19 (17.0)	
NM-B17 (1.5-2.0)	
NM-B17 (4.5-5.0)	
NM-B14 (0.5-1.0)	
NM-B14 (6.5-7.0)	
DUP-05	
NM-S25-0.5	

*Indicates sample was analyzed for Title 22 Metals, all other samples analyzed for Arsenic and Lead only.

Introduction

This data review covers 25 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B and 7000 for Metals. The metals analyzed were Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical or advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PBS1 (prep blank)	Lead	0.191 mg/Kg	NM-B10-1.0 NM-B23 (0-1.0) NM-B23 (5.0) NM-B23 (8.5-9.0) NM-B23 (12.0) NM-B23 (15.0) DUP-04 NM-B18 (0.5-1.0) NM-B18 (4.5-5.0) NM-B19 (2.0-2.5) NM-B19 (9.5) NM-B19 (17.0) NM-B17 (1.5-2.0) NM-B17 (4.5-5.0) NM-B14 (0.5-1.0) NM-B14 (6.5-7.0) DUP-05 NM-S25-0.5 NM-S27-0.5 NM-B19 (4.5-5.0)
PBS2 (prep blank)	Arsenic	0.316 mg/Kg	NM-S20-0.5 NM-S26-0.5

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Arsenic Lead	0.0042 mg/L 0.0029 mg/L	NM-B10-1.0 NM-B23 (0-1.0) NM-B23 (5.0) NM-B23 (8.5-9.0) NM-B23 (12.0) NM-B23 (15.0) DUP-04 NM-B18 (0.5-1.0) NM-B18 (4.5-5.0) NM-B19 (2.0-2.5) NM-B19 (9.5) NM-B19 (17.0) NM-B17 (1.5-2.0) NM-B17 (4.5-5.0) NM-B14 (0.5-1.0) NM-B14 (6.5-7.0) DUP-05 NM-S25-0.5 NM-S27-0.5 NM-S20-0.5 NM-S26-0.5 NM-B19 (4.5-5.0)
PB (prep blank)	Selenium Vanadium Zinc	0.00394 mg/L 0.000347 mg/L 0.00123 mg/L	EB1-02RE*
ICB/CCB	Arsenic Cobalt Silver Thallium Vanadium	0.0037 mg/L 0.0008 mg/L 0.0013 mg/L 0.0160 mg/L 0.0005 mg/L	EB1-02RE*
PB (prep blank)	Arsenic Cadmium Thallium Vanadium	0.212 mg/Kg 0.0155 mg/Kg 0.143 mg/Kg 0.0135 mg/Kg	NM-B19 (4.5-5.0)RE*
ICB/CCB	Arsenic Beryllium Cadmium Copper Lead Selenium Silver Thallium Vanadium Zinc Molybdenum	0.0083 mg/L 0.0002 mg/L 0.0004 mg/L 0.0080 mg/L 0.0056 mg/L 0.0096 mg/L 0.0009 mg/L 0.0066 mg/L 0.0010 mg/L 0.0441 mg/L 0.0016 mg/L	NM-B19 (4.5-5.0)RE*

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
EB1-02RE*	Silver Vanadium	0.000631 mg/L 0.000903 mg/L	0.000631U mg/L 0.000903U mg/L

Samples EB1-02RE* and EB1-02 were identified as equipment blanks. No metal contaminants were found in these blanks with the following exceptions:

Equipment Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
EB1-02RE*	12/20/05	Barium Chromium Lead Silver Vanadium Zinc	0.00517 mg/L 0.00255 mg/L 0.00807 mg/L 0.000631 mg/L 0.000903 mg/L 0.0132 mg/L	NM-B19 (4.5-5.0)RE*
EB1-02	12/20/05	Lead	0.0111 mg/L	NM-B10-1.0 NM-B23 (0-1.0) NM-B23 (5.0) NM-B23 (8.5-9.0) NM-B23 (12.0) NM-B23 (15.0) DUP-04 NM-B18 (0.5-1.0) NM-B18 (4.5-5.0) NM-B19 (2.0-2.5) NM-B19 (9.5) NM-B19 (17.0) NM-B17 (1.5-2.0) NM-B17 (4.5-5.0) NM-B14 (0.5-1.0) NM-B14 (6.5-7.0) DUP-05 NM-S25-0.5 NM-S27-0.5 NM-S20-0.5 NM-S26-0.5 NM-B19 (4.5-5.0)

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
NM-B23 (15.0)	Lead	2.30 mg/Kg	2.30U mg/Kg
NM-B17 (1.5-2.0)	Lead	1.33 mg/Kg	1.33U mg/Kg

Sample	Analyte	Reported Concentration	Modified Final Concentration
DUP-05	Lead	2.13 mg/Kg	2.13U mg/Kg

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

Samples DUP-04 and NM-S26-0.5 and samples NM-B17 (4.5-5.0) and DUP-05 were identified as field duplicates. No metals were detected in any of the samples with the following exceptions:

Compound	Concentration (mg/Kg)		RPD (Limits)
	DUP-04	NM-S26-0.5	
Arsenic	15.4	15.6	1 (≤100)
Lead	12.3	12.3	0 (≤100)

Compound	Concentration (mg/Kg)		RPD (Limits)
	NM-B17 (4.5-5.0)	DUP-05	
Arsenic	4.65	4.15	11 (≤100)
Lead	3.31	2.13	43 (≤100)

Correia Middle School
Metals - Data Qualification Summary - SDG 05-12-1348

No Sample Data Qualified in this SDG

Correia Middle School
Metals - Laboratory Blank Data Qualification Summary - SDG 05-12-1348

SDG	Sample	Analyte	Modified Final Concentration	A or P
05-12-1348	EB1-02RE*	Silver Vanadium	0.000631U mg/L 0.000903U mg/L	A

Correia Middle School
Metals - Field Blank Data Qualification Summary - SDG 05-12-1348

SDG	Sample	Analyte	Modified Final Concentration	A or P
05-12-1348	NM-B23 (15.0)	Lead	2.30U mg/Kg	A
05-12-1348	NM-B17 (1.5-2.0)	Lead	1.33U mg/Kg	A
05-12-1348	DUP-05	Lead	2.13U mg/Kg	A

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received:	12/22/05
Work Order No:	05-12-1348
Preparation:	EPA 3050B / EPA 7471A Total
Method:	EPA 6010B / EPA 7471A
Units:	mg/kg
	Page 1 of 1

Project: Correia Middle School / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B19 (4.5-5.0)	05-12-1348-12	12/20/05	Solid	01/05/06	01/06/06	060105L01A

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 1/5/2006 6:03:28 PM with batch 060105L02

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.750	0.191	1		Mercury	0.0486	0.0835	0.0130	1	J
Arsenic	6.47	0.75	0.130	1	B	Molybdenum	1.16	0.25	0.0206	1	
Barium	350	0.500	0.164	1		Nickel	22.1	0.2	0.0346	1	
Beryllium	0.189	0.250	0.00368	1	J	Selenium	ND	0.750	0.175	1	
Cadmium	1.91	0.50	0.00988	1	B	Silver	1.47	0.25	0.0209	1	
Chromium	22.1	0.2	0.0291	1		Thallium	ND	0.750	0.0987	1	
Cobalt	6.28	0.25	0.00859	1		Vanadium	26.7	0.2	0.00934	1	B
Copper	692	0.500	0.0469	1		Zinc	682	1	0.177	1	
Lead	771	0.500	0.0527	1							

Method Blank	099-04-007-3,686	N/A	Solid	01/05/06	01/05/06	060105L02

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.0835	0.0130	1	

Method Blank	097-01-002-7,178	N/A	Solid	01/05/06	01/06/06	060105L01A

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.750	0.191	1		Molybdenum	ND	0.250	0.0206	1	
Arsenic	0.212	0.750	0.130	1	J	Nickel	ND	0.250	0.0346	1	
Barium	ND	0.500	0.164	1		Selenium	ND	0.750	0.175	1	
Beryllium	ND	0.250	0.00368	1		Silver	ND	0.250	0.0209	1	
Cadmium	0.0155	0.500	0.00988	1	J	Thallium	0.143	0.750	0.0987	1	J
Chromium	ND	0.250	0.0291	1		Vanadium	0.0135	0.250	0.00934	1	J
Cobalt	ND	0.250	0.00859	1		Zinc	ND	1.00	0.177	1	
Copper	ND	0.500	0.0469	1		Lead	ND	0.500	0.0527	1	

2/9/06

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/22/05
Work Order No: 05-12-1348
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: Correia Middle School / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-02	05-12-1348-2	12/20/05	Aqueous	01/05/06	01/12/06	060105L02A

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 1/5/2006 6:46:33 PM with batch 060105L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.0150	0.00209	1		Mercury	ND	0.000500	0.0000672	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	ND	0.00500	0.000800	1	
Barium	0.00517	0.0100	0.000719	1	J	Nickel	ND	0.00500	0.00137	1	
Beryllium	ND	0.00100	0.000176	1		Selenium	ND	0.0150	0.00295	1	
Cadmium	ND	0.00500	0.000350	1		Silver	0.000631 U	0.00500	0.000400	1	J
Chromium	0.00255	0.00500	0.000350	1	J	Thallium	ND	0.0150	0.00233	1	
Cobalt	ND	0.00500	0.000696	1		Vanadium	0.000903 U	0.00500	0.000314	1	J,B
Copper	ND	0.00500	0.00134	1		Zinc	0.0132	0.0100	0.000848	1	B
Lead	0.00807	0.0100	0.00236	1	J						

Method Blank	099-04-008-2,280	N/A	Aqueous	01/05/06	01/05/06	060105L03

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.000500	0.0000672	1	

Method Blank	097-01-003-5,686	N/A	Aqueous	01/05/06	01/06/06	060105L02A

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.0150	0.00209	1		Molybdenum	ND	0.00500	0.000800	1	
Arsenic	ND	0.0100	0.00308	1		Nickel	ND	0.00500	0.00137	1	
Barium	ND	0.0100	0.000719	1		Selenium	0.00394	0.0150	0.00295	1	J
Beryllium	ND	0.00100	0.000176	1		Silver	ND	0.00500	0.000400	1	
Cadmium	ND	0.00500	0.000350	1		Thallium	ND	0.0150	0.00233	1	
Chromium	ND	0.00500	0.000350	1		Vanadium	0.000347	0.00500	0.000314	1	J
Cobalt	ND	0.00500	0.000696	1		Zinc	0.00123	0.0100	0.000848	1	J
Copper	ND	0.00500	0.00134	1		Lead	ND	0.0100	0.00236	1	

2/9/06

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received:	12/22/05
Work Order No:	05-12-1348
Preparation:	EPA 3050B
Method:	EPA 6010B
Units:	mg/kg

Project: Correia Middle School / 105338029

Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B10-1.0	05-12-1348-1	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.97	0.75	0.130	1		Lead	3.68	0.50	0.0527	1	B

NM-B23 (0-1.0)	05-12-1348-3	12/20/05	Solid	12/27/05	12/29/05	051227L07					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	16.3	0.8	0.130	1		Lead	12.1	0.5	0.0527	1	B

NM-B23 (5.0)	05-12-1348-4	12/20/05	Solid	12/27/05	12/29/05	051227L07					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.07	0.75	0.130	1		Lead	3.95	0.50	0.0527	1	B

NM-B23 (8.5-9.0)	05-12-1348-5	12/20/05	Solid	12/27/05	12/29/05	051227L07					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.82	0.75	0.130	1		Lead	36.9	0.5	0.0527	1	B

NM-B23 (12.0)	05-12-1348-6	12/20/05	Solid	12/27/05	12/29/05	051227L07					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.72	0.75	0.130	1		Lead	17.7	0.5	0.0527	1	B

NM-B23 (15.0)	05-12-1348-7	12/20/05	Solid	12/27/05	12/29/05	051227L07					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	1.12	0.75	0.130	1		Lead	2.30 U	0.50	0.0527	1	B

DUP-04	05-12-1348-8	12/20/05	Solid	12/27/05	12/29/05	051227L07					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	15.4	0.8	0.130	1		Lead	12.3	0.5	0.0527	1	B

NM-B18 (0.5-1.0)	05-12-1348-9	12/20/05	Solid	12/27/05	12/29/05	051227L07					

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.93	0.75	0.130	1		Lead	28.7	0.5	0.0527	1	B

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

12/29/05

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received:	12/22/05
Work Order No:	05-12-1348
Preparation:	EPA 3050B
Method:	EPA 6010B
Units:	mg/kg

Project: Correia Middle School / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B18 (4.5-5.0)	05-12-1348-10	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.17	0.75	0.130	1		Lead	3.20	0.50	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B19 (2.0-2.5)	05-12-1348-11	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.69	0.75	0.130	1		Lead	188	0.500	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B19 (4.5-5.0)	05-12-1348-12	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	17.9	0.8	0.130	1		Lead	1010	0.500	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B19 (9.5)	05-12-1348-13	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.03	0.75	0.130	1		Lead	63.5	0.5	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B19 (17.0)	05-12-1348-14	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.09	0.75	0.130	1		Lead	3.42	0.50	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B17 (1.5-2.0)	05-12-1348-15	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.19	0.75	0.130	1		Lead	1.33 U	0.50	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B17 (4.5-5.0)	05-12-1348-16	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.65	0.75	0.130	1		Lead	3.31	0.50	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B14 (0.5-1.0)	05-12-1348-17	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.37	0.75	0.130	1		Lead	4.37	0.50	0.0527	1	B

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received:	12/22/05
Work Order No:	05-12-1348
Preparation:	EPA 3050B
Method:	EPA 6010B
Units:	mg/kg

Project: Correia Middle School / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B14 (6.5-7.0)	05-12-1348-18	12/20/05	Solid	12/27/05	12/29/05	051227L07

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.42	0.75	0.130	1		Lead	2.97	0.50	0.0527	1	B

DUP-05	05-12-1348-19	12/20/05	Solid	12/27/05	12/29/05	051227L07	

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.15	0.75	0.130	1		Lead	2.13 U	0.50	0.0527	1	B

NM-S25-0.5	05-12-1348-20	12/20/05	Solid	12/27/05	12/29/05	051227L07	

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.24	0.75	0.130	1		Lead	18.0	0.5	0.0527	1	B

NM-S27-0.5	05-12-1348-21	12/20/05	Solid	12/27/05	12/29/05	051227L07	

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.90	0.75	0.130	1		Lead	12.9	0.5	0.0527	1	B

NM-S20-0.5	05-12-1348-22	12/20/05	Solid	12/27/05	12/29/05	051227L08	

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.30	0.75	0.130	1	B	Lead	12.2	0.5	0.0527	1	

NM-S26-0.5	05-12-1348-23	12/20/05	Solid	12/27/05	12/29/05	051227L08	

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	15.6	0.8	0.130	1	B	Lead	12.3	0.5	0.0527	1	

Method Blank	097-01-002-7,145	N/A	Solid	12/27/05	12/29/05	051227L08	

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.316	0.750	0.130	1	J	Lead	ND	0.500	0.0527	1	

Method Blank	097-01-002-7,159	N/A	Solid	12/27/05	12/29/05	051227L07	

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	0.191	0.500	0.0527	1	J

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

12/29/05

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1348
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
Project: Correia Middle School / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB1-02	05-12-1348-2	12/20/05	Aqueous	12/27/05	12/29/05	051227L10

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.0100	0.00308	1		Lead	0.0111	0.0100	0.00236	1	

Method Blank	097-01-003-5,665	N/A	Aqueous	12/27/05	12/27/05	051227L10

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.0100	0.00308	1		Lead	ND	0.0100	0.00236	1	

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

LDC #: 14589C4

SDG #: 05-12-1348

Laboratory: Calscience Environmental Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 2-3-06

Page: 1 of 1

Reviewer: MG

2nd Reviewer: [illegible]

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12-20-05
II.	Calibration	A	
III.	Blanks	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Matrix Spike Analysis only	ASW	MS/MSD
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS/LCSD
VIII.	Internal Standard (ICP-MS)	N	Not utilized
IX.	Furnace Atomic Absorption QC	N	" "
X.	ICP Serial Dilution	N	Not performed
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	SW	D = 8+23, D = 16+19
XIV.	Field Blanks	SW	EB = 2, 26

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	1	NM-B10-1.0	S	11	1	NM-B19 (2.0-2.5)	S	21	1	NM-S27-0.5	S	31	1	PBS1
2	5	EB1-02* RE*	W	12	4	NM-B19 (4.5-5.0) RE*		22	2	NM-S20-0.5		32	2	PBS2
3	1	NM-B23 (0-1.0)	S	13	1	NM-B19 (9.5)		23	2	NM-S26-0.5		33	3	PBW1
4	1	NM-B23 (5.0)		14	1	NM-B19 (17.0)		24	1	DUP-04MS		34	4	PBS3
5	1	NM-B23 (8.5-9.0)		15	1	NM-B17 (1.5-2.0)		25	1	DUP-04MSD		35	5	PBW2
6	1	NM-B23 (12.0)		16	1	NM-B17 (4.5-5.0)		26	3	EB1-02		36		
7	1	NM-B23 (15.0)		17	1	NM-B14 (0.5-1.0)		27	1	NM-B19 (4.5-5.0)		37		
8	1	DUP-04		18	1	NM-B14 (6.5-7.0)		28				38		
9	1	NM-B18 (0.5-1.0)		19	1	DUP-05		29				39		
10	1	NM-B18 (4.5-5.0)		20	1	NM-S25-0.5		30				40		

Notes: *Indicates sample was analyzed for ~~TAL~~ Title 22 Metals, all others analyzed for Arsenic and Lead only

LDC #: 14589C4
SDG #: 05-12-1348

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: MG
2nd reviewer: MY

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1,3→11,26,27 13→23	S/W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
2, 12	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
QC 24, 25	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
ICP Trace	S/W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___

Comments: Mercury by CVAA if performed

#12
1-6-06

1-12-06
#2

10-29-05

LDC #: 14589C4
SDG #: 05-12-1348

VALIDATION FINDINGS WORKSHEET
Prep Blank/ICB/CCB Findings

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MY

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)
Blank concentration units, unless otherwise noted: mg/L Associated Samples: all

	Blank Identification										
Analyte	ICB	CCB1	CCB2	CCB3	PB ( )	ICB	CCB1	CCB2	CCB3	PB ( )	Analyte
Al											Al
Sb											Sb
As	0.0083			0.0037		*	0.0042				As
Ba						~~*~~	~~0.0042~~	m4			Ba
Be	0.0001	0.0002									Be
Cd	0.0002	0.0003	0.0004								Cd
Ca											Ca
Cr											Cr
Co				0.0008							Co
Cu	0.0013	0.0047	0.0080								Cu
Fe											Fe
Pb	0.0053	0.0056				0.0023*	0.0028	0.0029			Pb
Mg											Mg
Mn											Mn
Hg											Hg
Ni											Ni
K											K
Se	0.0070	0.0096									Se
Ag	0.0009			0.0013							Ag
Na											Na
Tl	0.0066			0.0146	0.0160						Tl
V	0.0003	0.0005	0.0010	0.0005							V
Zn	0.0048	0.0050	0.0441								Zn
B											B
Mo	0.0008	0.0016									Mo
Sr											Sr

The highest concentration found in the Prep Blank and ICB/CCB for each analyte is circled on this worksheet and transferred to the PB/ICB/CCB Qualified Samples worksheet.

BLNKICB.4SW

* water stops here (< MDL)

LDC #: 14589C4
SDG #: 05-12-1348

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

PBS1 for # 1, 3→11, 13→21, 27
PBS2 for # 22, 23
CCB for all ~~so~~ # 1, 3→11, 13→23, 27

Reviewer: MG
2nd Reviewer: MM

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: 50 x
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples:

PBS1 PBS2					Sample Identification										
Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] ~~(ug/L)~~ mg/Kg	Maximum ICB/CCB[a] ~~(ug/L)~~ mg/L	Blank Action Limit			No	samples	were	qualified					
Al															Al
Sb															Sb
As		0.316	0.0042	1.58											As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr															Cr
Co															Co
Cu															Cu
Fe															Fe
Pb	0.191		0.0029	0.96											Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se															Se
Ag															Ag
Na															Na
Tl															Tl
V															V
Zn															Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589C4
SDG #: 05-12-1348

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MY

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: ~~ug/L~~ mg/L Associated Samples: 2

(mg/L)

Analyte	Maximum PB* (mg/Kg)	Maximum PB* ~~(ug/L)~~ mg/L	Maximum ICB/CCB* ~~(ug/L)~~ mg/L	Blank Action Limit	Sample Identification: 2										
Al															
Sb															
As			0.0037	0.018											
Ba															
Be															
Cd															
Ca															
Cr															
Co			0.0008	0.004											
Cu															
Fe															
Pb															
Mg															
Mn															
Hg															
Ni															
K															
Se		0.00394		0.020											
Ag			0.0013	0.0065	0.000631										
Na															
Tl			0.0160	0.080											
V		0.000347	0.0005	0.0025	0.000903										
Zn		0.00123		0.0062											
B															
Mo															
Sr															

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589C4
SDG #: 05-12-1348

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: 50 x
Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: 12

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] mg/L ~~(ug/L)~~	Blank Action Limit	Sample Identification										
					—	—	No sample was qualified					—	—	—	
Al															Al
Sb															Sb
As	0.212		0.0083	2.08											As
Ba															Ba
Be			0.0002	0.05											Be
Cd	0.0155		0.0004	0.10											Cd
Ca															Ca
Cr															Cr
Co															Co
Cu			0.0080	2.00											Cu
Fe															Fe
Pb			0.0056	1.40											Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se			0.0096	2.40											Se
Ag			0.0009	0.22											Ag
Na															Na
Tl	0.143		0.0066	1.65											Tl
V	0.0135		0.0010	0.25											V
Zn			0.0441	11.02											Zn
B															B
Mo			0.0016	0.40											Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589C4
SDG #: 05-12-1348

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

(Y) N N/A Field blanks were identified in this SDG.
(Y) N N/A Were target analytes detected in the field blanks?

Blank units: mg/L Associated sample units: mg/kg
Sampling date: 12-20-05 Soil factor applied 50x
Field blank type: (circle one) Field Blank / Rinsate / (Other:) EB Associated Samples: ~~all soil~~ 12

Analyte	Blank ID	Blank Action Level	Sample Identification									
	2		—	—	No	sample	was	qualified	—	—	—	
Ba	0.00517	1.29										
Cr	0.00255	0.64										
Pb	0.00807	2.02										
Ag	0.000631	0.16										
V	0.000903	0.23										
Zn	0.0132	3.30										

Blank units: mg/L Associated sample units: mg/kg
Sampling date: 12-20-05 Soil factor applied 50x
Field blank type: (circle one) Field Blank / Rinsate / (Other:) EB Associated Samples: 1, 3 → 11, 13 → 23, 27

Analyte	Blank ID	Blank Action Level	Sample Identification									
	26		7	15	19							
Pb	0.0111	2.78	2.30	1.33	2.13							

ALL RESULTS WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC#: 14589C4
SDG#: 05-12-1348

VALIDATION FINDINGS WORKSHEET
Field Duplicates

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Metals (EPA Method 6010B/7000)

Y N NA Were field duplicate pairs identified in this SDG?
Y N NA Were target analytes detected in the field duplicate pairs?

Compound	Concentration (mg/kg)		(≤ 100) RPD	
	8	23		
Arsenic	15.4	15.6	1	
Lead	12.3	12.3	0	

V:\FIELD DUPLICATES\FD_inorganic\14589C4.wpd

Compound	Concentration (mg/kg)		(≤ 100) RPD	
	16	19		
Arsenic	4.65	4.15	11	
Lead	3.31	2.13	43	

V:\FIELD DUPLICATES\FD_inorganic\14589C4.wpd

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 21, 2005

LDC Report Date: February 8, 2006

Matrix: Soil/Water

Parameters: Metals

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1349

Sample Identification

NM-HA5-1.5
NM-HA5-0.5
NM-HA4-0.5
NM-HA4-1.5
NM-HA3-0.5
NM-HA3-1.0
EB2-3
NM-B29 (0.5-1.0)
NM-B29 (4.5-5.0)
NM-B16 (1.5-2.0)
NM-B16 (4.5-5.0)
NM-B16 (9.5-10.0)
NM-B16 (14.5-15.0)
NM-B15 (1.0-1.5)
NM-B15 (4.5-5.0)
NM-B15 (9.5-10.0)
NM-B15 (14.5-15.0)
NM-B15 (18.5-19.0)
NM-B16 (14.5-15.0)MS
NM-B16 (14.5-15.0)MSD
EB2-3RE*

*Indicates sample was analyzed for Title 22 Metals, all other samples analyzed for Arsenic and Lead only.

Introduction

This data review covers 19 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B and 7000 for Metals. The metals analyzed were Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical or advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Lead	0.0023 mg/L	All soil samples in SDG 05-12-1349
PB (prep blank)	Selenium Vanadium Zinc	0.00394 mg/L 0.000347 mg/L 0.00123 mg/L	EB2-3RE*
ICB/CCB	Arsenic Cobalt Silver Thallium Vanadium	0.0037 mg/L 0.0008 mg/L 0.0013 mg/L 0.0160 mg/L 0.0005 mg/L	EB2-3RE*

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
EB2-3RE*	Arsenic Silver Thallium Zinc	0.00366 mg/L 0.00137 mg/L 0.00540 mg/L 0.00610 mg/L	0.00366U mg/L 0.00137U mg/L 0.00540U mg/L 0.00610U mg/L

Sample EB2-3RE* was identified as an equipment blank. No metal contaminants were found in this blank with the following exceptions:

Equipment Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
EB2-3RE*	12/21/05	Antimony Arsenic Chromium Silver Thallium Zinc	0.00264 mg/L 0.00366 mg/L 0.00114 mg/L 0.00137 mg/L 0.00540 mg/L 0.00610 mg/L	No associated samples in this SDG

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Metals - Data Qualification Summary - SDG 05-12-1349

No Sample Data Qualified in this SDG

Correia Middle School
Metals - Laboratory Blank Data Qualification Summary - SDG 05-12-1349

SDG	Sample	Analyte	Modified Final Concentration	A or P
05-12-1349	EB2-3RE*	Arsenic Silver Thallium Zinc	0.00366U mg/L 0.00137U mg/L 0.00540U mg/L 0.00610U mg/L	A

Correia Middle School
Metals - Field Blank Data Qualification Summary - SDG 05-12-1349

No Sample Data Qualified in this SDG

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1349
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia Middle School / 105338029			Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-HA5-1.5	05-12-1349-1	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.26	0.75	0.130	1		Lead	32.0	0.5	0.0527	1	

NM-HA5-0.5	05-12-1349-2	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.42	0.75	0.130	1		Lead	9.86	0.50	0.0527	1	

NM-HA4-0.5	05-12-1349-3	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.74	0.75	0.130	1		Lead	117	0.500	0.0527	1	

NM-HA4-1.5	05-12-1349-4	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.37	0.75	0.130	1		Lead	104	0.500	0.0527	1	

NM-HA3-0.5	05-12-1349-5	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.21	0.75	0.130	1		Lead	51.8	0.5	0.0527	1	

NM-HA3-1.0	05-12-1349-6	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.65	0.75	0.130	1		Lead	30.8	0.5	0.0527	1	

NM-B29 (0.5-1.0)	05-12-1349-8	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.14	0.75	0.130	1		Lead	4.40	0.50	0.0527	1	

NM-B29 (4.5-5.0)	05-12-1349-9	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.67	0.75	0.130	1		Lead	3.22	0.50	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/22/05
Work Order No: 05-12-1349
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Correia Middle School / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B16 (1.5-2.0)	05-12-1349-10	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.55	0.75	0.130	1		Lead	172	0.500	0.0527	1	

NM-B16 (4.5-5.0)	05-12-1349-11	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.88	0.75	0.130	1		Lead	6.28	0.50	0.0527	1	

NM-B16 (9.5-10.0)	05-12-1349-12	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.06	0.75	0.130	1		Lead	3.45	0.50	0.0527	1	

NM-B16 (14.5-15.0)	05-12-1349-13	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.56	0.75	0.130	1		Lead	2.59	0.50	0.0527	1	

NM-B15 (1.0-1.5)	05-12-1349-14	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.64	0.75	0.130	1		Lead	5.93	0.50	0.0527	1	

NM-B15 (4.5-5.0)	05-12-1349-15	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.25	0.75	0.130	1		Lead	3.67	0.50	0.0527	1	

NM-B15 (9.5-10.0)	05-12-1349-16	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.82	0.75	0.130	1		Lead	3.49	0.50	0.0527	1	

NM-B15 (14.5-15.0)	05-12-1349-17	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.25	0.75	0.130	1		Lead	4.37	0.50	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1349
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia Middle School / 105338029			Page 3 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B15 (18.5-19.0)	05-12-1349-18	12/21/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.95	0.75	0.130	1		Lead	3.08	0.50	0.0527	1	

Method Blank	097-01-002-7,157	N/A	Solid	12/27/05	12/29/05	051227L14

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	ND	0.500	0.0527	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1349
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
Project: Correia Middle School / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB2-3	05-12-1349-7	12/21/05	Aqueous	12/27/05	12/29/05	051227L10

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.0100	0.00308	1		Lead	ND	0.0100	0.00236	1	

Method Blank	097-01-003-5,665	N/A	Aqueous	12/27/05	12/27/05	051227L10

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.0100	0.00308	1		Lead	ND	0.0100	0.00236	1	

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

5/9/06

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 12/22/05
Work Order No: 05-12-1349
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: Correia Middle School / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB2-3	05-12-1349-7	12/21/05	Aqueous	01/05/06	01/12/06	060105L02A

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 1/5/2006 6:48:44 PM with batch 060105L03

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	0.00264	0.0150	0.00209	1	J	Mercury	ND	0.000500	0.0000672	1	
Arsenic	0.00366 U	0.0100	0.00308	1	J	Molybdenum	ND	0.00500	0.000800	1	
Barium	ND	0.0100	0.000719	1		Nickel	ND	0.00500	0.00137	1	
Beryllium	ND	0.00100	0.000176	1		Selenium	ND	0.0150	0.00295	1	
Cadmium	ND	0.00500	0.000350	1		Silver	0.00137 U	0.00500	0.000400	1	J
Chromium	0.00114	0.00500	0.000350	1	J	Thallium	0.00540 U	0.0150	0.00233	1	J
Cobalt	ND	0.00500	0.000696	1		Vanadium	ND	0.00500	0.000314	1	
Copper	ND	0.00500	0.00134	1		Zinc	0.00610 U	0.0100	0.000848	1	J,B
Lead	ND	0.0100	0.00236	1							

Method Blank	099-04-008-2,280	N/A	Aqueous	01/05/06	01/05/06	060105L03

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.000500	0.0000672	1	

Method Blank	097-01-003-5,686	N/A	Aqueous	01/05/06	01/06/06	060105L02A

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.0150	0.00209	1		Molybdenum	ND	0.00500	0.000800	1	
Arsenic	ND	0.0100	0.00308	1		Nickel	ND	0.00500	0.00137	1	
Barium	ND	0.0100	0.000719	1		Selenium	0.00394	0.0150	0.00295	1	J
Beryllium	ND	0.00100	0.000176	1		Silver	ND	0.00500	0.000400	1	
Cadmium	ND	0.00500	0.000350	1		Thallium	ND	0.0150	0.00233	1	
Chromium	ND	0.00500	0.000350	1		Vanadium	0.000347	0.00500	0.000314	1	J
Cobalt	ND	0.00500	0.000696	1		Zinc	0.00123	0.0100	0.000848	1	J
Copper	ND	0.00500	0.00134	1		Lead	ND	0.0100	0.00236	1	

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

1/9/06

LDC #: 14589D4

SDG #: 05-12-1349

Laboratory: Calscience Environmental Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 2-6-06

Page: 1 of 1

Reviewer: MG

2nd Reviewer: MM

METHOD: Arsenic & Lead (EPA SW 846 Method 6010B/7000

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12-21-05
II.	Calibration	A	
III.	Blanks	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Matrix Spike Analysis	A	MS/MSD
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS
VIII.	Internal Standard (ICP-MS)	N	Not utilized
IX.	Furnace Atomic Absorption QC	N	" "
X.	ICP Serial Dilution	N	Not performed
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	N	
XIV.	Field Blanks	~~ND~~SW	EB = 7*, 21

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; * = ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: * = ~~full~~ title 22 list (others = As & Pb only)

1 1	NM-HA5-1.5	11 1	NM-B16 (4.5-5.0)	21 3	EB2-3RE *	31	
2 1	NM-HA5-0.5	12 1	NM-B16 (9.5-10.0)	22 1	PBS1	32	
3 1	NM-HA4-0.5	13 1	NM-B16 (14.5-15.0)	23 2	PBW1	33	
4 1	NM-HA4-1.5	14 1	NM-B15 (1.0-1.5)	24 3	PBW2	34	
5 1	NM-HA3-0.5	15 1	NM-B15 (4.5-5.0)	25		35	
6 1	NM-HA3-1.0	16 1	NM-B15 (9.5-10.0)	26		36	
7 2	EB2-3	17 1	NM-B15 (14.5-15.0)	27		37	
8 1	NM-B29 (0.5-1.0)	18 1	NM-B15 (18.5-19.0)	28		38	
9 1	NM-B29 (4.5-5.0)	19 1	NM-B16 (14.5-15.0)MS	29		39	
10 1	NM-B16 (1.5-2.0)	20 1	NM-B16 (14.5-15.0)MSD	30		40	

Notes:

LDC #: 14589D4
SDG #: 05-12-1349

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: MG
2nd reviewer: [illegible]

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1→18	S/W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
QC 19, 20	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
21	W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
ICP Trace	S/W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,

Comments: Mercury by CVAA if performed

1-12-06

LDC #: 14589D4
SDG #: 05-12-1349

#21

VALIDATION FINDINGS WORKSHEET
Prep Blank/ICB/CCB Findings

Page: 1 of 1
Reviewer: MG
2nd Reviewer: YY

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)
Blank concentration units, unless otherwise noted: mg/L Associated Samples: all

	Blank Identification										
Analyte	ICB	CCB1	CCB2	CCB3	PB ( )	ICB	CCB1	CCB2	CCB3	PB ( )	Analyte
Al											Al
Sb											Sb
As	*	0.0037									As
Ba											Ba
Be											Be
Cd											Cd
Ca											Ca
Cr											Cr
Co		0.0008									Co
Cu											Cu
Fe											Fe
Pb	0.0023 *										Pb
Mg											Mg
Mn											Mn
Hg											Hg
Ni											Ni
K											K
Se											Se
Ag		0.0013									Ag
Na											Na
Tl		0.0146	0.0160								Tl
V		0.0005									V
Zn											Zn
B											B
Mo											Mo
Sr											Sr

The highest concentration found in the Prep Blank and ICB/CCB for each analyte is circled on this worksheet and transferred to the PB/ICB/CCB Qualified Samples worksheet.

BLNKICB.4SW

* Water stops here (< MDL)

LDC #: 14589D4
SDG #: 05-12-1349

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MM

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: 50x
Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: all soil

mg/L

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L)	Maximum ICB/CCB* ~~(ug/L)~~ mg/L	Blank Action Limit	Sample Identification										
					—	—	No	samples	were	qualified	—	—			
Al															Al
Sb															Sb
As															As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr															Cr
Co															Co
Cu															Cu
Fe															Fe
Pb			0.0023	0.58											Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se															Se
Ag															Ag
Na															Na
Tl															Tl
V															V
Zn															Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589D4
SDG #: 05-12-1349

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MG

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 21

(mg/L)

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L) mg/L	Maximum ICB/CCB* (ug/L) mg/L	Blank Action Limit	Sample Identification 21										
Al															Al
Sb															Sb
As			0.0037	0.92	0.00366										As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr															Cr
Co			0.0008	0.20											Co
Cu															Cu
Fe															Fe
Pb															Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se		0.00394		0.020											Se
Ag			0.0013	0.32	0.00137										Ag
Na							0.00540								Na
Tl			0.0160	4.00	0.00540										Tl
V		0.000347	0.0005	0.12											V
Zn		0.00123		0.0062	0.00610										Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589D4
SDG #: 05-12-1349
METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

VALIDATION FINDINGS WORKSHEET
Field Blanks

Reviewer: MG
2nd Reviewer: MM

(Y) N N/A Field blanks were identified in this SDG.
(Y) N N/A Were target analytes detected in the field blanks?

Blank units: mg/L Associated sample units: NA
Sampling date: 12-21-05 Soil factor applied NA
Field blank type: (circle one) Field Blank / Rinsate / (Other:) Associated Samples: None

Analyte	Blank ID	Blank Action Level	Sample Identification									
	21											
Sb	0.00264											
As	0.00366											
Cr	0.00114											
Ag	0.00137											
Tl	0.00540											
Zn	0.00610											

Blank units: Associated sample units:
Sampling date: Soil factor applied
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples:

Analyte	Blank ID	Blank Action Level	Sample Identification									

ALL RESULTS WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

LDC Report# 14589E4

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 22, 2005

LDC Report Date: February 7, 2006

Matrix: Soil/Water

Parameters: Arsenic & Lead

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1442

Sample Identification

NM-B12 (0.5-1.0)
NM-B12 (6-6.5)
NM-B12 (10.0-10.5)
NM-B12 (16-16.5)
NM-B13 (1.0-1.5)
NM-B13 (5.0-5.5)
NM-B13 (10.5-11.0)
NM-B13 (15.5-16.0)
NM-EB1-04
NM-B11-1.0
NM-B11-5.0
NM-B11-10.0

Introduction

This data review covers 11 soil samples and one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 6010B for Arsenic and Lead.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical or advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Arsenic Lead	0.151 mg/Kg 0.134 mg/Kg	NM-B11-1.0 NM-B11-5.0 NM-B11-10.0
ICB/CCB	Lead	0.0023 mg/L	All soil samples in SDG 05-12-1442
PB (prep blank)	Arsenic	0.00342 mg/L	All water samples in SDG 05-12-1442

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
NM-EB1-04	Arsenic	0.00355 mg/L	0.00355U mg/L

Sample NM-EB1-04 was identified as an equipment blank. No arsenic or lead contaminants were found in this blank with the following exceptions:

Equipment Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
NM-EB1-04	12/22/05	Arsenic	0.00355 mg/L	All soil samples in SDG 05-12-1442

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Arsenic & Lead - Data Qualification Summary - SDG 05-12-1442

No Sample Data Qualified in this SDG

Correia Middle School
Arsenic & Lead - Laboratory Blank Data Qualification Summary - SDG 05-12-1442

SDG	Sample	Analyte	Modified Final Concentration	A or P
05-12-1442	NM-EB1-04	Arsenic	0.00355U mg/L	A

Correia Middle School
Arsenic & Lead - Field Blank Data Qualification Summary - SDG 05-12-1442

No Sample Data Qualified in this SDG

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: SDUSD / 105338029

Date Received:	12/27/05
Work Order No:	05-12-1442
Preparation:	EPA 3050B
Method:	EPA 6010B
Units:	mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B12 (0.5-1.0)	05-12-1442-1	12/22/05	Solid	12/27/05	12/29/05	051227L13A

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.29	0.75	0.130	1		Lead	3.31	0.50	0.0527	1	

NM-B12 (6-6.5)	05-12-1442-2	12/22/05	Solid	12/27/05	12/29/05	051227L13A

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.52	0.75	0.130	1		Lead	6.90	0.50	0.0527	1	

NM-B12 (10.0-10.5)	05-12-1442-3	12/22/05	Solid	12/27/05	12/29/05	051227L13A

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.27	0.75	0.130	1		Lead	4.46	0.50	0.0527	1	

NM-B12 (16-16.5)	05-12-1442-4	12/22/05	Solid	12/27/05	12/29/05	051227L13A

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.32	0.75	0.130	1		Lead	3.29	0.50	0.0527	1	

NM-B13 (1.0-1.5)	05-12-1442-5	12/22/05	Solid	12/27/05	12/29/05	051227L13A

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.52	0.75	0.130	1		Lead	2.54	0.50	0.0527	1	

NM-B13 (5.0-5.5)	05-12-1442-6	12/22/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.40	0.75	0.130	1		Lead	2.34	0.50	0.0527	1	

NM-B13 (10.5-11.0)	05-12-1442-7	12/22/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.54	0.75	0.130	1		Lead	9.94	0.50	0.0527	1	

NM-B13 (15.5-16.0)	05-12-1442-8	12/22/05	Solid	12/27/05	12/29/05	051227L14

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.36	0.75	0.130	1		Lead	3.90	0.50	0.0527	1	

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

2/9/06

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 12/27/05
Work Order No: 05-12-1442
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: SDUSD / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B11-1.0	05-12-1442-10	12/22/05	Solid	12/28/05	12/29/05	051228L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.76	0.75	0.130	1	B	Lead	4.70	0.50	0.0527	1	B

NM-B11-5.0	05-12-1442-11	12/22/05	Solid	12/28/05	12/29/05	051228L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	1.89	0.75	0.130	1	B	Lead	2.70	0.50	0.0527	1	B

NM-B11-10.0	05-12-1442-12	12/22/05	Solid	12/28/05	12/29/05	051228L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.80	0.75	0.130	1	B	Lead	2.42	0.50	0.0527	1	B

Method Blank	097-01-002-7,148	N/A	Solid	12/28/05	12/29/05	051228L04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.151	0.750	0.130	1	J	Lead	0.134	0.500	0.0527	1	J

Method Blank	097-01-002-7,157	N/A	Solid	12/27/05	12/29/05	051227L14

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	ND	0.500	0.0527	1	

Method Blank	097-01-002-7,161	N/A	Solid	12/28/05	12/28/05	051227L13A

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	ND	0.500	0.0527	1	

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

5/9/06

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1442
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
Project: SDUSD / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EB1-04	05-12-1442-9	12/22/05	Aqueous	12/29/05	12/29/05	051229L04A

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.00355	0.0100	0.00308	1	J,B	Lead	ND	0.0100	0.00236	1	

Method Blank	097-01-003-5,668	N/A	Aqueous	12/29/05	12/30/05	051229L04A

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.00342	0.0100	0.00308	1	J	Lead	ND	0.0100	0.00236	1	

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

2/9/06

LDC #: 14589E4

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 2-6-06

SDG #: 05-12-1442

Page: 1 of 1

Laboratory: Calscience Environmental Laboratories, Inc.

Reviewer: MG

2nd Reviewer: LM

METHOD: Arsenic & Lead (EPA SW 846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12-22-05
II.	Calibration	A	
III.	Blanks	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Matrix Spike Analysis	A	MS/MSD (SDG: 05-12-1349)
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS/LCSD
VIII.	Internal Standard (ICP-MS)	N	Not utilized
IX.	Furnace Atomic Absorption QC	N	" "
X.	ICP Serial Dilution	N	Not performed
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	N	
XIV.	Field Blanks	SW	EB=9

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1 1	NM-B12 (0.5-1.0) S	11 4	NM-B11-5.0 S	21 1	PBS1	31	
2 1	NM-B12 (6-6.5)	12 4	NM-B11-10.0	22 2	PBS2	32	
3 1	NM-B12 (10.0-10.5)	13		23 3	PBW	33	
4 1	NM-B12 (16-16.5)	14		24 4	PBS3	34	
5 1	NM-B13 (1.0-1.5)	15		25		35	
6 2	NM-B13 (5.0-5.5)	16		26		36	
7 2	NM-B13 (10.5-11.0)	17		27		37	
8 2	NM-B13 (15.5-16.0)	18		28		38	
9 3	NM-EB1-04 W	19		29		39	
10 4	NM-B11-1.0 S	20		30		40	

Notes:

LDC #: 14589E4
SDG #: 05-12-1442

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: MG
2nd reviewer: MM

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1 → 12	S/W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
ICP Trace	S/W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,

Comments: Mercury by CVAA if performed

LDC #: 14589E4
SDG #: 05-12-1442
METHOD: Trace Metals (EPA SW 846 Method 6010/7000)
Blank concentration units, unless otherwise noted: mg/L

VALIDATION FINDINGS WORKSHEET
Prep Blank/ICB/CCB Findings

Associated Samples: all

Reviewer: MG
2nd Reviewer: MM

	Blank Identification										
Analyte	ICB	CCB1	CCB2	CCB3	PB ( )	ICB	CCB1	CCB2	CCB3	PB ( )	Analyte
Al											Al
Sb											Sb
As	*										As
Ba											Ba
Be											Be
Cd											Cd
Ca											Ca
Cr											Cr
Co											Co
Cu											Cu
Fe											Fe
Pb	0.0023*										Pb
Mg											Mg
Mn											Mn
Hg											Hg
Ni											Ni
K											K
Se											Se
Ag											Ag
Na											Na
Tl											Tl
V											V
Zn											Zn
B											B
Mo											Mo
Sr											Sr

The highest concentration found in the Prep Blank and ICB/CCB for each analyte is circled on this worksheet and transferred to the PB/ICB/CCB Qualified Samples worksheet.

BLNKICB.4SW

* Water stops here (< MDL)

LDC #: 14589E4
SDG #: 05-12-1442

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MM

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: 50x
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: PB for # 10→12 CCBs for all soil

PBS3					Sample Identification										
Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] ~~(ug/L)~~ mg/L	Blank Action Limit	No samples were qualified										
Al															Al
Sb															Sb
As	0.151			0.76											As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr															Cr
Co															Co
Cu															Cu
Fe															Fe
Pb	0.134		0.0023	0.67											Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se															Se
Ag															Ag
Na															Na
Tl															Tl
V															V
Zn															Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589E4
SDG #: 05-12-1442

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: MG
2nd Reviewer: MM

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: mg/L Associated Samples: all water

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] ~~(ug/L)~~ mg/L	Maximum ICB/CCB[a] (ug/L)	Blank Action Limit	Sample Identification										
					9										
Al															Al
Sb															Sb
As		0.00342		0.017	0.00355										As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr															Cr
Co															Co
Cu															Cu
Fe															Fe
Pb															Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se															Se
Ag															Ag
Na															Na
Tl															Tl
V															V
Zn															Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589E4
SDG #: 05-12-1442

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MY

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)

Y N N/A Field blanks were identified in this SDG.
Y N N/A Were target analytes detected in the field blanks?

Blank units: mg/L Associated sample units: mg/kg
Sampling date: 12-22-05 Soil factor applied 50x
Field blank type: (circle one) Field Blank / Rinsate / Other: EB Associated Samples: all soil

Analyte	Blank ID	Blank Action Level	Sample Identification									
	9		—	—	No	samples	were	qualified	—	—	—	
As	0.00355	0.89										

Blank units: Associated sample units:
Sampling date: Soil factor applied
Field blank type: (circle one) Field Blank / Rinsate / Other: Associated Samples:

Analyte	Blank ID	Blank Action Level	Sample Identification									

ALL RESULTS WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 23 through December 27, 2005

LDC Report Date: February 8, 2006

Matrix: Soil/Water

Parameters: Metals

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1443

Sample Identification

NM-B20-1.0	NM-B20-5.0MS
NM-B20-5.0	NM-B20-5.0MSD
NM-B20-11.0	NM-B22-11.5MS*
NM-B20-15.0	NM-B22-11.5MSD*
NM-B20-20.0	NM-B20-15.0RE*
NM-B20-25.0	NM-B22-6.0RE*
NM-B20-30.0	NM-B22-11.5RE*
NM-B22-1.0	NM-EB1-05RE*
NM-B22-6.0	NM-EB1-06RE*
NM-B22-11.5	
NM-B22-15.0	
NM-B22-25.0	
NM-B22-32.5	
NM-B22-40.0	
NM-B22-45.0	
NM-EB1-05	
NM-HA1-0.5	
NM-HA2-0.5	
NM-HA2-1.5	
NM-EB1-06	

*Indicates sample was analyzed for Title 22 Metals, all other samples analyzed for Arsenic and Lead only.

Introduction

This data review covers 25 soil samples and 4 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B and 7000 for Metals. The metals analyzed were Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical or advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Lead	0.0675 mg/Kg	NM-B20-1.0 NM-B20-5.0 NM-B20-11.0 NM-B20-15.0 NM-B20-20.0 NM-B20-25.0 NM-B20-30.0 NM-B22-1.0 NM-B22-6.0 NM-B22-11.5 NM-B22-15.0 NM-B22-25.0 NM-B22-32.5 NM-B22-40.0 NM-B22-45.0 NM-HA1-0.5 NM-HA2-0.5 NM-HA2-1.5

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Arsenic Lead	0.0042 mg/L 0.0028 mg/L	NM-B20-1.0 NM-B20-5.0 NM-B20-11.0 NM-B20-15.0 NM-B20-20.0 NM-B20-25.0 NM-B20-30.0 NM-B22-1.0 NM-B22-6.0 NM-B22-11.5 NM-B22-15.0 NM-B22-25.0 NM-B22-32.5 NM-B22-40.0 NM-B22-45.0 NM-HA1-0.5 NM-HA2-0.5 NM-HA2-1.5
PB (prep blank)	Arsenic	0.00342 mg/L	NM-EB1-05 NM-EB1-06
PB (prep blank)	Antimony Arsenic Silver Thallium	0.335 mg/Kg 0.193 mg/Kg 0.0293 mg/Kg 0.483 mg/Kg	NM-B20-15.0RE* NM-B22-6.0RE* NM-B22-11.5RE*
ICB/CCB	Antimony Arsenic Beryllium Cadmium Chromium Cobalt Copper Lead Nickel Selenium Silver Thallium Vanadium Zinc Molybdenum	0.0053 mg/L 0.0032 mg/L 0.0002 mg/L 0.0003 mg/L 0.0006 mg/L 0.0015 mg/L 0.0463 mg/L 0.0079 mg/L 0.0014 mg/L 0.0114 mg/L 0.0009 mg/L 0.0173 mg/L 0.0010 mg/L 0.0193 mg/L 0.0005 mg/L	NM-B20-15.0RE* NM-B22-6.0RE* NM-B22-11.5RE*
PB (prep blank)	Arsenic Selenium Thallium Vanadium	0.00382 mg/L 0.00559 mg/L 0.00365 mg/L 0.000340 mg/L	NM-EB1-05RE* NM-EB1-06RE*
ICB/CCB	Arsenic Chromium Cobalt Copper Selenium Silver Thallium Vanadium	0.0032 mg/L 0.0006 mg/L 0.0013 mg/L 0.0029 mg/L 0.0114 mg/L 0.0009 mg/L 0.0170 mg/L 0.0010 mg/L	NM-EB1-05RE* NM-EB1-06RE*

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
NM-EB1-06	Arsenic	0.00458 mg/L	0.00458U mg/L
NM-EB1-05RE*	Silver Thallium Vanadium	0.000763 mg/L 0.00540 mg/L 0.000741 mg/L	0.000763U mg/L 0.00540U mg/L 0.000741U mg/L
NM-EB1-06RE*	Silver Thallium Vanadium	0.000853 mg/L 0.00666 mg/L 0.000676 mg/L	0.000853U mg/L 0.00666U mg/L 0.000676U mg/L

Samples NM-EB1-05, NM-EB1-06, NM-EB1-05RE* and NM-EB1-06RE* were identified as equipment blanks. No metal contaminants were found in these blanks with the following exceptions:

Equipment Blank ID	Sampling Date	Analyte	Concentration	Associated Samples
NM-EB1-06	12/27/05	Arsenic	0.00485 mg/L	NM-HA1-0.5 NM-HA2-0.5 NM-HA2-1.5
NM-EB1-05RE*	12/23/05	Barium Silver Thallium Vanadium	0.000921 mg/L 0.000763 mg/L 0.00540 mg/L 0.000741 mg/L	NM-B20-15.0RE* NM-B22-6.0RE* NM-B22-11.5RE*
NM-EB1-06RE*	12/27/05	Silver Thallium Vanadium Zinc	0.000853 mg/L 0.00666 mg/L 0.000676 mg/L 0.00410 mg/L	No associated samples in this SDG

Sample concentrations were compared to concentrations detected in the field blanks. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated field blanks.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Analyte	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
NM-B22-11.5MS*/MSD* (NM-B20-15.0RE* NM-B22-6.0RE* NM-B22-11.5RE*)	Antimony	29 (50-115)	37 (50-115)	23 (≤20)	J (all detects) R (all non-detects)	A
NM-B22-11.5MS*/MSD* (NM-B20-15.0RE* NM-B22-6.0RE* NM-B22-11.5RE*)	Chromium Selenium	55 (75-125) 65 (75-125)	71 (75-125) 67 (75-125)	- -	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A
NM-B20-5.0MS/MSD (NM-B20-1.0 NM-B20-5.0 NM-B20-11.0 NM-B20-15.0 NM-B20-20.0 NM-B20-25.0 NM-B20-30.0 NM-B22-1.0 NM-B22-6.0 NM-B22-11.5 NM-B22-15.0 NM-B22-25.0 NM-B22-32.5 NM-B22-40.0 NM-B22-45.0 NM-HA1-0.5 NM-HA2-0.5 NM-HA2-1.5)	Lead	-	70 (75-125)	-	J (all detects) UJ (all non-detects)	A

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Metals - Data Qualification Summary - SDG 05-12-1443

SDG	Sample	Analyte	Flag	A or P	Reason
05-12-1443	NM-B20-15.0RE* NM-B22-6.0RE* NM-B22-11.5RE*	Antimony	J (all detects) R (all non-detects)	A	Matrix spike/Matrix spike duplicates (%R)(RPD)
05-12-1443	NM-B20-15.0RE* NM-B22-6.0RE* NM-B22-11.5RE*	Chromium Selenium	J (all detects) UJ (all non-detects) J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicates (%R)
05-12-1443	NM-B20-1.0 NM-B20-5.0 NM-B20-11.0 NM-B20-15.0 NM-B20-20.0 NM-B20-25.0 NM-B20-30.0 NM-B22-1.0 NM-B22-6.0 NM-B22-11.5 NM-B22-15.0 NM-B22-25.0 NM-B22-32.5 NM-B22-40.0 NM-B22-45.0 NM-HA1-0.5 NM-HA2-0.5 NM-HA2-1.5	Lead	J (all detects) UJ (all non-detects)	A	Matrix spike/Matrix spike duplicates (%R)

Correia Middle School
Metals - Laboratory Blank Data Qualification Summary - SDG 05-12-1443

SDG	Sample	Analyte	Modified Final Concentration	A or P
05-12-1443	NM-EB1-06	Arsenic	0.00458U mg/L	A
05-12-1443	NM-EB1-05RE*	Silver Thallium Vanadium	0.000763U mg/L 0.00540U mg/L 0.000741U mg/L	A
05-12-1443	NM-EB1-06RE*	Silver Thallium Vanadium	0.000853U mg/L 0.00666U mg/L 0.000676U mg/L	A

Correia Middle School
Metals - Field Blank Data Qualification Summary - SDG 05-12-1443

No Sample Data Qualified in this SDG

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/27/05
Work Order No: 05-12-1443
Preparation: EPA 3050B / EPA 7471A Total
Method: EPA 6010B / EPA 7471A
Units: mg/kg

Project: Correia M.S. / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B20-15.0	05-12-1443-5	12/23/05	Solid	01/09/06	01/10/06	060109L07

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 1/9/2006 6:48:46 PM with batch 060109L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND R	0.750	0.191	1		Mercury	0.314	0.084	0.0130	1	
Arsenic	6.99	0.75	0.130	1	B	Molybdenum	1.42	0.25	0.0206	1	
Barium	601	0.500	0.164	1		Nickel	37.7	0.2	0.0346	1	
Beryllium	0.401	0.250	0.00368	1		Selenium	ND UJ	0.750	0.175	1	
Cadmium	4.48	0.50	0.00988	1		Silver	6.31	0.25	0.0209	1	B
Chromium	40.5 J	0.2	0.0291	1		Thallium	ND	0.750	0.0987	1	
Cobalt	12.8	0.2	0.00859	1		Vanadium	73.3	0.2	0.00934	1	
Copper	727	0.500	0.0469	1		Zinc	1480	10	1.77	10	
Lead	1440	5	0.527	10							

NM-B22-6.0	05-12-1443-11	12/23/05	Solid	01/09/06	01/10/06	060109L07

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 1/9/2006 6:50:59 PM with batch 060109L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND R	0.750	0.191	1		Mercury	0.0685	0.0835	0.0130	1	J
Arsenic	1.24	0.75	0.130	1	B	Molybdenum	0.439	0.250	0.0206	1	
Barium	143	0.500	0.164	1		Nickel	14.1	0.2	0.0346	1	
Beryllium	0.229	0.250	0.00368	1	J	Selenium	ND UJ	0.750	0.175	1	
Cadmium	2.18	0.50	0.00988	1		Silver	0.802	0.250	0.0209	1	B
Chromium	16.6 J	0.2	0.0291	1		Thallium	ND	0.750	0.0987	1	
Cobalt	6.80	0.25	0.00859	1		Vanadium	29.6	0.2	0.00934	1	
Copper	125	0.500	0.0469	1		Zinc	395	1	0.177	1	
Lead	194	0.500	0.0527	1							

NM-B22-11.5	05-12-1443-13	12/23/05	Solid	01/09/06	01/10/06	060109L07

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 1/9/2006 6:53:13 PM with batch 060109L05

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND R	0.750	0.191	1		Mercury	0.351	0.084	0.0130	1	
Arsenic	4.01	0.75	0.130	1	B	Molybdenum	1.12	0.25	0.0206	1	
Barium	405	0.500	0.164	1		Nickel	21.0	0.2	0.0346	1	
Beryllium	0.243	0.250	0.00368	1	J	Selenium	ND UJ	0.750	0.175	1	
Cadmium	2.44	0.50	0.00988	1		Silver	3.17	0.25	0.0209	1	B
Chromium	31.7 J	0.2	0.0291	1		Thallium	ND	0.750	0.0987	1	
Cobalt	7.90	0.25	0.00859	1		Vanadium	41.6	0.2	0.00934	1	
Copper	282	0.500	0.0469	1		Zinc	663	1	0.177	1	
Lead	647	0.500	0.0527	1							

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

2/9/06

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received: 12/27/05
Work Order No: 05-12-1443
Preparation: EPA 3010A Total / EPA 7470A Total
Method: EPA 6010B / EPA 7470A
Units: mg/L

Project: Correia M.S. / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EB1-05	05-12-1443-22	12/23/05	Aqueous	01/09/06	01/10/06	060109L08

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 1/9/2006 7:25:40 PM with batch 060109L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.0150	0.00209	1		Mercury	ND	0.000500	0.0000672	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	ND	0.00500	0.000800	1	
Barium	0.000921	0.0100	0.000719	1	J	Nickel	ND	0.00500	0.00137	1	
Beryllium	ND	0.00100	0.000176	1		Selenium	ND	0.0150	0.00295	1	
Cadmium	ND	0.00500	0.000350	1		Silver	0.000763	0.00500	0.000400	1	J
Chromium	ND	0.00500	0.000350	1		Thallium	0.00540	0.0150	0.00233	1	J,B
Cobalt	ND	0.00500	0.000696	1		Vanadium	0.000741	0.00500	0.000314	1	J,B
Copper	ND	0.00500	0.00134	1		Zinc	ND	0.0100	0.000848	1	
Lead	ND	0.0100	0.00236	1							

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EB1-06	05-12-1443-26	12/27/05	Aqueous	01/09/06	01/10/06	060109L08

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 1/9/2006 7:27:50 PM with batch 060109L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.0150	0.00209	1		Mercury	ND	0.000500	0.0000672	1	
Arsenic	ND	0.0100	0.00308	1		Molybdenum	ND	0.00500	0.000800	1	
Barium	ND	0.0100	0.000719	1		Nickel	ND	0.00500	0.00137	1	
Beryllium	ND	0.00100	0.000176	1		Selenium	ND	0.0150	0.00295	1	
Cadmium	ND	0.00500	0.000350	1		Silver	0.000853	0.00500	0.000400	1	J
Chromium	ND	0.00500	0.000350	1		Thallium	0.00666	0.0150	0.00233	1	J,B
Cobalt	ND	0.00500	0.000696	1		Vanadium	0.000676	0.00500	0.000314	1	J,B
Copper	ND	0.00500	0.00134	1		Zinc	0.00410	0.0100	0.000848	1	J
Lead	ND	0.0100	0.00236	1							

Method Blank	099-04-008-2,286	N/A	Aqueous	01/09/06	01/09/06	060109L04

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.000500	0.0000672	1	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia M.S. / 105338029			Page 1 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B20-1.0	05-12-1443-1	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.09	0.75	0.130	1		Lead	14.8 J	0.5	0.0527	1	B

NM-B20-5.0	05-12-1443-2	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.76	0.75	0.130	1		Lead	17.8 J	0.5	0.0527	1	B

NM-B20-11.0	05-12-1443-4	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.29	0.75	0.130	1		Lead	33.6 J	0.5	0.0527	1	B

NM-B20-15.0	05-12-1443-5	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.45	0.75	0.130	1		Lead	486 J	0.500	0.0527	1	B

NM-B20-20.0	05-12-1443-6	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.66	0.75	0.130	1		Lead	5.45 J	0.50	0.0527	1	B

NM-B20-25.0	05-12-1443-7	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.53	0.75	0.130	1		Lead	5.56 J	0.50	0.0527	1	B

NM-B20-30.0	05-12-1443-8	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.18	0.75	0.130	1		Lead	2.08 J	0.50	0.0527	1	B

NM-B22-1.0	05-12-1443-9	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.37	0.75	0.130	1		Lead	5.54 J	0.50	0.0527	1	B

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia M.S. / 105338029			Page 2 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B22-6.0	05-12-1443-11	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	9.32	0.75	0.130	1		Lead	311 J	0.500	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B22-11.5	05-12-1443-13	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	17.3	0.8	0.130	1		Lead	11700 J	50	5.27	100	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B22-15.0	05-12-1443-14	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.58	0.75	0.130	1		Lead	54.6 J	0.5	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B22-25.0	05-12-1443-16	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.96	0.75	0.130	1		Lead	14.0 J	0.5	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B22-32.5	05-12-1443-18	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.16	0.75	0.130	1		Lead	65.2 J	0.5	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B22-40.0	05-12-1443-20	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.23	0.75	0.130	1		Lead	4.56 J	0.50	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B22-45.0	05-12-1443-21	12/23/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.42	0.75	0.130	1		Lead	2.79 J	0.50	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-HA1-0.5	05-12-1443-23	12/27/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.99	0.75	0.130	1		Lead	4.89 J	0.50	0.0527	1	B

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

4/19/06

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3050B
		Method:	EPA 6010B
		Units:	mg/kg
Project: Correia M.S. / 105338029			Page 3 of 3

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-HA2-0.5	05-12-1443-24	12/27/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.09	0.75	0.130	1		Lead	152 J	0.500	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-HA2-1.5	05-12-1443-25	12/27/05	Solid	12/28/05	12/29/05	051228L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.55	0.75	0.130	1		Lead	188 J	0.500	0.0527	1	B

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
Method Blank	097-01-002-7,155	N/A	Solid	12/28/05	12/29/05	051228L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	0.0675	0.500	0.0527	1	J

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3010A Total
		Method:	EPA 6010B
		Units:	mg/L
Project: Correia M.S. / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EB1-05	05-12-1443-22	12/23/05	Aqueous	12/29/05	12/29/05	051229L04A

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.0100	0.00308	1		Lead	ND	0.0100	0.00236	1	

NM-EB1-06	05-12-1443-26	12/27/05	Aqueous	12/29/05	12/29/05	051229L04A

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.00485 U	0.0100	0.00308	1	J,B	Lead	ND	0.0100	0.00236	1	

Method Blank	097-01-003-5,668	N/A	Aqueous	12/29/05	12/30/05	051229L04A

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	0.00342	0.0100	0.00308	1	J	Lead	ND	0.0100	0.00236	1	

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

LDC #: 14589F4

VALIDATION COMPLETENESS WORKSHEET

Date: 2-6-06

SDG #: 05-12-1443

Level III

Page: 1 of 1

Laboratory: Calscience Environmental Laboratories, Inc.

Reviewer: MG

2nd Reviewer: [illegible]

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12-23-05 through 12-27-05
II.	Calibration	A	
III.	Blanks	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Matrix Spike Analysis	SW	MS/MSD
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS/LCSD
VIII.	Internal Standard (ICP-MS)	N	Not utilized
IX.	Furnace Atomic Absorption QC	N	" "
X.	ICP Serial Dilution	N	Not performed
XI.	Sample Result Verification	N	
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	N	
XIV.	Field Blanks	SW	EB = 16*, 20, 28, 29

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; * = ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1 1	NM-B20-1.0 S	11 1	NM-B22-15.0 S	21 1	NM-B20-5.0MS S	31 1	PBS1
2 1	NM-B20-5.0	12 1	NM-B22-25.0	22 1	NM-B20-5.0MSD	32 2	PBW1
3 1	NM-B20-11.0	13 1	NM-B22-32.5	23 3	NM-B22-11.5MS*	33 3	PBS2
4 1	NM-B20-15.0 mg	14 1	NM-B22-40.0	24 3	NM-B22-11.5MSD*	34 4	PBW2
5 1	NM-B20-20.0	15 1	NM-B22-45.0	25 3	NM-B20-15.0RE*	35	
6 1	NM-B20-25.0	16 2	NM-EB1-05 mg W	26 3	NM-B22-6.0RE*	36	
7 1	NM-B20-30.0	17 1	NM-HA1-0.5 S	27 3	NM-B22-11.5RE*	37	
8 1	NM-B22-1.0	18 1	NM-HA2-0.5	28 4	NM-EB1-05RE*	38	
9 1	NM-B22-6.0 mg	19 1	NM-HA2-1.5	29 4	NM-EB1-06RE*	39	
10 1	NM-B22-11.5	20 2	NM-EB1-06 mg W	30		40	

Notes: * Indicates sample was analyzed for ~~TAL~~ Metals, all others analyzed for Arsenic and Lead only

Title 22

LDC #: 14589F4
SDG #: 05-12-1443

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Page: 1 of 1
Reviewer: MG
2nd reviewer: MY

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1 → 20	S/W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
25 → 29	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
QC 21, 22	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
↓ 23, 24	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
ICP Trace	S/W	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻,

Comments: Mercury by CVAA if performed

1-10-06 water | 1-10-06 contd soil | 12-29-05 As/Pb

LDC #: 14589F4
SDG #: 05-12-1443

VALIDATION FINDINGS WORKSHEET
Prep Blank/ICB/CCB Findings

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MM

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)
Blank concentration units, unless otherwise noted: mg/L Associated Samples: all

	Blank Identification										
Analyte	ICB	CCB1	CCB2	CCB3	PB ( )	ICB	CCB1	CCB2	CCB3	PB ( )	Analyte
Al											Al
Sb	~~0.00~~ *	0.0053									Sb
As	0.0032*					*	0.0042				As
Ba											Ba
Be	0.0001*	0.0002									Be
Cd	0.0002	0.0003*									Cd
Ca											Ca
Cr	0.0006*										Cr
Co	0.0013*	0.0015									Co
Cu	0.0029*	0.0036	0.0463								Cu
Fe											Fe
Pb	*	0.0053	0.0079			0.0023*	0.0028				Pb
Mg											Mg
Mn											Mn
Hg											Hg
Ni	0.0007*	0.0009	0.0014								Ni
K											K
Se	0.0039	0.0057	0.0114*								Se
Ag	0.0009*										Ag
Na											Na
Tl	0.0117	0.0152	0.0170*	0.0173							Tl
V	0.0010*										V
Zn	~~0.3013~~*	0.0053	0.0193								Zn
B											B
Mo	0.0005*	~~0.0007~~									Mo
Sr											Sr

The highest concentration found in the Prep Blank and ICB/CCB for each analyte is circled on this worksheet and transferred to the PB/ICB/CCB Qualified Samples worksheet.

* water ends here

BLNKICB.4SW

*

(water < MDL for As Pb)

LDC #: 14589F4
SDG #: 05-12-1443

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: MG
2nd Reviewer: [illegible]

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: 50 x
Sample Concentration units, unless otherwise noted: mg/Kg Associated Samples: 1→15, 17→19

(mg/L)

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L)	Maximum ICB/CCB* ~~(ug/L)~~ mg/L	Blank Action Limit	Sample Identification										
							No	samples	were	qualified					
Al															Al
Sb															Sb
As			0.0042	1.05											As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr															Cr
Co															Co
Cu															Cu
Fe															Fe
Pb	0.0675		0.0028	0.70											Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se															Se
Ag															Ag
Na															Na
Tl															Tl
V															V
Zn															Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589F4
SDG #: 05-12-1443

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: MG
2nd Reviewer: MH

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 16, 20

(mg/L)

Analyte	Maximum PB* (mg/Kg)	Maximum PB* ~~(ug/L)~~ mg/L	Maximum ICB/CCB* (ug/L)	Blank Action Limit	Sample Identification										
					20										
Al															Al
Sb															Sb
As		0.00342		0.017	0.00485										As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr															Cr
Co															Co
Cu															Cu
Fe															Fe
Pb															Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se															Se
Ag															Ag
Na															Na
Tl															Tl
V															V
Zn															Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589F4
SDG #: 05-12-1443

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: MG
2nd Reviewer: MH

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: 50 x
Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: 25 → 27

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] ~~(ug/L)~~ mg/L	Blank Action Limit	Sample Identification										
					—	—	No samples were qualified						—	—	
Al															Al
Sb	0.335		0.0053	1.68											Sb
As	0.193		0.0032	0.96											As
Ba															Ba
Be			0.0002	0.050											Be
Cd			0.0003	0.075											Cd
Ca															Ca
Cr			0.0006	0.15											Cr
Co			0.0015	0.38											Co
Cu			0.0463	11.58											Cu
Fe															Fe
Pb			0.0079	1.98											Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni			0.0014	0.35											Ni
K															K
Se			0.0114	2.85											Se
Ag	0.0293		0.0009	0.22											Ag
Na															Na
Tl	0.483		0.0173	4.32											Tl
V			0.0010	0.25											V
Zn			0.0193	4.82											Zn
B															B
Mo			0.0005	0.12											Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".

Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589F4
SDG #: 05-12-1443

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: MG
2nd Reviewer: MH

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: NA
Sample Concentration units, unless otherwise noted: mg/L Associated Samples: 28, 29

(mg/L)

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] ~~(ug/L)~~ mg/L	Maximum ICB/CCB[a] (ug/L)	Blank Action Limit	Sample Identification 28	29									
Al															Al
Sb															Sb
As		0.00382	0.0032	0.019											As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr			0.0006	0.0030											Cr
Co			0.0013	0.0065											Co
Cu			0.0029	0.014											Cu
Fe															Fe
Pb															Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se		0.00559	0.0114	0.057											Se
Ag			0.0009	0.0045	0.000763	0.000853									Ag
Na															Na
Tl		0.00365	0.0170	0.085	0.00540	0.00666									Tl
V		0.000340	0.0010	0.0050	0.000741	0.000676									V
Zn															Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589F4
SDG #: 05-12-1443

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MH

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)
(Y) N N/A Field blanks were identified in this SDG.
(Y) N N/A Were target analytes detected in the field blanks?

Blank units: mg/L Associated sample units: mg/kg
Sampling date: 12-27-05 Soil factor applied 50x
Field blank type: (circle one) Field Blank / Rinsate / (Other:) EB Associated Samples: 17 → 19

Analyte	Blank ID	Blank Action Level	Sample Identification									
	20		No samples were qualified									
As	0.00485	1.21										

Blank units: _____ Associated sample units: _____
Sampling date: _____ Soil factor applied _____
Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: _____

Analyte	Blank ID	Blank Action Level	Sample Identification									

ALL RESULTS WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

FBLKASC2.4S2

LDC #: 14589F4
SDG #: 05-12-1443

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MH

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)
(Y) N N/A Field blanks were identified in this SDG.
(Y) N N/A Were target analytes detected in the field blanks?

Blank units: mg/L Associated sample units: mg/kg
Sampling date: 12-23-05 Soil factor applied 50 x
Field blank type: (circle one) Field Blank / Rinsate / Other: _____ Associated Samples: 25 → 27

Analyte	Blank ID	Blank Action Level	Sample Identification									
	mg ~~16~~ 28		No samples were qualified									
Ba	0.000921	0.23										
Ag	0.000763	0.19										
Tl	0.00540	1.35										
V	0.000741	0.19										

Blank units: mg/L Associated sample units: NA
Sampling date: 12-27-05 Soil factor applied NA
Field blank type: (circle one) Field Blank / Rinsate / (Other:) _____ Associated Samples: None

Analyte	Blank ID	Blank Action Level	Sample Identification									
	29											
Ag	0.000853											
Tl	0.00666											
V	0.000676											
Zn	0.00410											

ALL RESULTS WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Samples with analyte concentrations within five times the associated field blank concentration are listed above, these sample results were qualified as not detected, "U".

FBLKASC2.4S2

LDC #: 14589F4
SDG #: 05-12-1443

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MM

METHOD: Trace metals (EPA SW 846 Method 6010/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a matrix spike analyzed for each matrix in this SDG?

Y (N) N/A Were matrix spike percent recoveries (%R) within the control limits of 75-125? If the sample concentration exceeded the spike concentration by a factor of 4 or more, no action was taken.

Y (N) N/A Were all duplicate sample relative percent differences (RPD) ≤ 20% for water samples and ≤35% for soil samples?

LEVEL IV ONLY:

Y N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	MS/MSD ID	Matrix	Analyte	MS %Recovery	MSD %Recovery	RPD (Limits)	Associated Samples	Qualifications
1	23/24	soil	Sb	29 (50-115)	37 (50-115)	23 (≤20)	25→27	J/R/A
	↓	↓	Cr	55 (75-125)	71 (75-125)		↓	J/UJ/A
			Se	65 (↓)	67 (↓)			↓
2	21/22	soil	Pb		70 (75-125)		1→15, 17→19	J/UJ/A

Comments:

MSD.4S2

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 19, 2005

LDC Report Date: February 9, 2006

Matrix: Soil

Parameters: Metals

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1164

Sample Identification

NM-B24 (0-1)
NM-B24 (4.5-5.5)
NM-B24 (8.5-9.5)
NM-B24 (13-14)
NM-B24 (15-16)
NM-B26 (1-2)
NM-B26 (2-3)
NM-B26 (7-8)
NM-B26 (11-12)
NM-B26 (15-16)
NM-B28 (0-1)
NM-B28 (3-4)
NM-B28 (5-6)
NM-B26 (13-14)
NM-B28 (5-6)MS
NM-B28 (5-6)MSD
NM-B24 (4.5-5.5)RE*

*Indicates sample was analyzed for Title 22 Metals, all other samples analyzed for Arsenic and Lead only.

Introduction

This data review covers 17 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Methods 6010B and 7000 for Metals. The metals analyzed were Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review (October 2004) as there are no current guidelines for the methods stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical or advisory nature.

Blanks are summarized in Section III.

Field duplicates are summarized in Section XIII.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

An initial calibration was performed.

The frequency and analysis criteria of the initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No contaminant concentrations were found in the initial, continuing and preparation blanks with the following exceptions:

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
PB (prep blank)	Chromium Lead Selenium Silver	0.0400 mg/Kg 0.0815 mg/Kg 0.215 mg/Kg 0.0300 mg/Kg	NM-B24 (4.5-5.5)RE*
ICB/CCB	Antimony Arsenic Beryllium Cadmium Chromium Cobalt Copper Lead Selenium Silver Thallium Vanadium Molybdenum	0.0048 mg/L 0.0054 mg/L 0.0003 mg/L 0.0007 mg/L 0.0014 mg/L 0.0009 mg/L 0.0015 mg/L 0.0049 mg/L 0.0153 mg/L 0.0010 mg/L 0.0219 mg/L 0.0009 mg/L 0.0021 mg/L	NM-B24 (4.5-5.5)RE*

Method Blank ID	Analyte	Maximum Concentration	Associated Samples
ICB/CCB	Arsenic Lead	0.0093 mg/L 0.0028 mg/L	NM-B24 (0-1) NM-B24 (4.5-5.5) NM-B24 (8.5-9.5) NM-B24 (13-14) NM-B24 (15-16) NM-B26 (1-2) NM-B26 (2-3) NM-B26 (7-8) NM-B26 (11-12) NM-B26 (15-16) NM-B28 (0-1) NM-B28 (3-4) NM-B28 (5-6) NM-B26 (13-14)

Data qualification by the initial, continuing and preparation blanks (ICB/CCB/PBs) was based on the maximum contaminant concentration in the ICB/CCB/PBs in the analysis of each analyte. The sample concentrations were either not detected or were significantly greater (>5X blank contaminants) than the concentrations found in the associated method blanks with the following exceptions:

Sample	Analyte	Reported Concentration	Modified Final Concentration
NM-B24 (4.5-5.5)RE*	Antimony	0.740 mg/Kg	0.740U mg/Kg

No field blanks were identified in this SDG.

IV. ICP Interference Check Sample (ICS) Analysis

The frequency of analysis was met.

The criteria for analysis were met.

V. Matrix Spike Analysis

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VI. Duplicate Sample Analysis

Duplicate (DUP) sample analyses were reviewed for each matrix as applicable.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

VIII. Internal Standards (ICP-MS)

ICP-MS was not utilized in this SDG.

IX. Furnace Atomic Absorption QC

Graphite furnace atomic absorption was not utilized in this SDG.

X. ICP Serial Dilution

ICP serial dilution was not performed for this SDG.

XI. Sample Result Verification

Raw data were not reviewed for this SDG.

XII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIII. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Metals - Data Qualification Summary - SDG 05-12-1164

No Sample Data Qualified in this SDG

Correia Middle School
Metals - Laboratory Blank Data Qualification Summary - SDG 05-12-1164

SDG	Sample	Analyte	Modified Final Concentration	A or P
05-12-1164	NM-B24 (4.5-5.5)RE*	Antimony	0.740U mg/Kg	A

Correia Middle School
Metals - Field Blank Data Qualification Summary - SDG 05-12-1164

No Sample Data Qualified in this SDG

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/20/05
Work Order No: 05-12-1164
Preparation: EPA 3050B
Method: EPA 6010B
Units: mg/kg

Project: Correia / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B24 (0-1)	05-12-1164-1	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.20	0.75	0.130	1		Lead	229	0.500	0.0527	1	

NM-B24 (4.5-5.5)	05-12-1164-2	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	6.64	0.75	0.130	1		Lead	426	0.500	0.0527	1	

NM-B24 (8.5-9.5)	05-12-1164-3	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.16	0.75	0.130	1		Lead	7.94	0.50	0.0527	1	

NM-B24 (13-14)	05-12-1164-4	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	12.5	0.8	0.130	1		Lead	617	0.500	0.0527	1	

NM-B24 (15-16)	05-12-1164-5	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.29	0.75	0.130	1		Lead	2.67	0.50	0.0527	1	

NM-B26 (1-2)	05-12-1164-6	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	7.12	0.75	0.130	1		Lead	4.09	0.50	0.0527	1	

NM-B26 (2-3)	05-12-1164-7	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.62	0.75	0.130	1		Lead	17.9	0.5	0.0527	1	

NM-B26 (7-8)	05-12-1164-8	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	5.31	0.75	0.130	1		Lead	16.9	0.5	0.0527	1	

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

2/9/06

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Project: Correia / 105338029

Date Received:	12/20/05
Work Order No:	05-12-1164
Preparation:	EPA 3050B
Method:	EPA 6010B
Units:	mg/kg
	Page 2 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B26 (11-12)	05-12-1164-9	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.57	0.75	0.130	1		Lead	10.7	0.5	0.0527	1	

NM-B26 (15-16)	05-12-1164-10	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	2.37	0.75	0.130	1		Lead	3.91	0.50	0.0527	1	

NM-B28 (0-1)	05-12-1164-11	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.71	0.75	0.130	1		Lead	4.28	0.50	0.0527	1	

NM-B28 (3-4)	05-12-1164-12	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.58	0.75	0.130	1		Lead	20.1	0.5	0.0527	1	

NM-B28 (5-6)	05-12-1164-13	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	4.12	0.75	0.130	1		Lead	3.24	0.50	0.0527	1	

NM-B26 (13-14)	05-12-1164-14	12/19/05	Solid	12/21/05	12/22/05	051221L04

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	3.96	0.75	0.130	1		Lead	2.80	0.50	0.0527	1	

Method Blank	097-01-002-7,138	N/A	Solid	12/21/05	12/22/05	051221L04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Arsenic	ND	0.750	0.130	1		Lead	ND	0.500	0.0527	1	

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

5/9/06

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Project: Correia / 105338029

Date Received:	12/20/05
Work Order No:	05-12-1164
Preparation:	EPA 3050B / EPA 7471A Total
Method:	EPA 6010B / EPA 7471A
Units:	mg/kg

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B24 (4.5-5.5)	05-12-1164-2	12/19/05	Solid	12/29/05	12/30/05	051229L05

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.
-Mercury was analyzed on 12/30/2005 2:03:50 PM with batch 051229L01

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	0.740 U	0.750	0.191	1	J	Mercury	0.0234	0.0835	0.0130	1	J
Arsenic	3.79	0.75	0.130	1		Molybdenum	ND	0.250	0.0206	1	
Barium	120	0.500	0.164	1		Nickel	7.94	0.25	0.0346	1	
Beryllium	0.188	0.250	0.00368	1	J	Selenium	ND	0.750	0.175	1	
Cadmium	0.464	0.500	0.00988	1	J	Silver	0.623	0.250	0.0209	1	B
Chromium	12.0	0.2	0.0291	1	B	Thallium	ND	0.750	0.0987	1	
Cobalt	7.08	0.25	0.00859	1		Vanadium	27.0	0.2	0.00934	1	
Copper	66.0	0.5	0.0469	1		Zinc	203	1	0.177	1	
Lead	143	0.500	0.0527	1	B						

Method Blank	099-04-007-3,674	N/A	Solid	12/29/05	12/29/05	051229L01

Parameter	Result	RL	MDL	DF	Qual
Mercury	ND	0.0835	0.0130	1	

Method Blank	097-01-002-7,150	N/A	Solid	12/29/05	12/29/05	051229L05

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Antimony	ND	0.750	0.191	1		Molybdenum	ND	0.250	0.0206	1	
Arsenic	ND	0.750	0.130	1		Nickel	ND	0.250	0.0346	1	
Barium	ND	0.500	0.164	1		Selenium	0.215	0.750	0.175	1	J
Beryllium	ND	0.250	0.00368	1		Silver	0.0300	0.250	0.0209	1	J
Cadmium	ND	0.500	0.00988	1		Thallium	ND	0.750	0.0987	1	
Chromium	0.0400	0.250	0.0291	1	J	Vanadium	ND	0.250	0.00934	1	
Cobalt	ND	0.250	0.00859	1		Zinc	ND	1.00	0.177	1	
Copper	ND	0.500	0.0469	1		Lead	0.0815	0.500	0.0527	1	J

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

LDC #: 14589G4

VALIDATION COMPLETENESS WORKSHEET

Date: 2-7-06

SDG #: 05-12-1164

Level III

Page: 1 of 1

Laboratory: Calscience Environmental Laboratories, Inc.

Reviewer: MG

2nd Reviewer: MM

METHOD: Metals (EPA SW 846 Method 6010B/7000)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12-19-05
II.	Calibration	A	
III.	Blanks	SW	
IV.	ICP Interference Check Sample (ICS) Analysis	A	
V.	Matrix Spike Analysis	A	MS/MSD
VI.	Duplicate Sample Analysis	N	
VII.	Laboratory Control Samples (LCS)	A	LCS/LCSD
VIII.	Internal Standard (ICP-MS)	N	Not utilized
IX.	Furnace Atomic Absorption QC	N	
X.	ICP Serial Dilution	N	Not performed
XI.	Sample Result Verification	N	Wet weight basis - text
XII.	Overall Assessment of Data	A	
XIII.	Field Duplicates	N	
XIV.	Field Blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples: all soil

1 1	NM-B24 (0-1)	11 1	NM-B28 (0-1)	21		31	
2 1	NM-B24 (4.5-5.5) X gmg	12 1	NM-B28 (3-4)	22		32	
3 1	NM-B24 (8.5-9.5)	13 1	NM-B28 (5-6)	23		33	
4 1	NM-B24 (13-14)	14 1	NM-B26 (13-14)	24		34	
5 1	NM-B24 (15-16)	15 1	NM-B28 (5-6)MS	25		35	
6 1	NM-B26 (1-2)	16 1	NM-B28 (5-6)MSD	26		36	
7 1	NM-B26 (2-3)	17	NM-B24 (4.5-5.5)RE*	27		37	
8 1	NM-B26 (7-8)	18 1	PBS1	28		38	
9 1	NM-B26 (11-12)	19 2	PBS2	29		39	
10 1	NM-B26 (15-16)	20		30		40	

Notes: *Indicates sample was analyzed for ~~TAL~~ Title 22 Metals, all others analyzed for Arsenic and Lead only

LDC #: 14589G4
SDG #: 05-12-1164

VALIDATION FINDINGS WORKSHEET
Sample Specific Element Reference

Reviewer: MG
2nd reviewer: MM

All circled elements are applicable to each sample.

Sample ID	Matrix	Target Analyte List (TAL)
1→14	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
17	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
QC 15,16	↓	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
Analysis Method		
ICP		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
ICP Trace	S	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
ICP-MS		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___ ___
GFAA		Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Hg, Ni, K, Se, Ag, Na, Tl, V, Zn, Mo, B, Si, CN⁻, ___

Comments: Mercury by CVAA if performed

12-22-05
As/Pb
#1→14

12-30-05
#17

LDC #: 14589G4
SDG #: 05-12-1164

VALIDATION FINDINGS WORKSHEET
Prep Blank/ICB/CCB Findings

Page: 1 of 1
Reviewer: MG
2nd Reviewer: MY

METHOD: Trace Metals (EPA SW 846 Method 6010/7000)
Blank concentration units, unless otherwise noted: mg/L Associated Samples: all

	Blank Identification										
Analyte	ICB	CCB1	CCB2	CCB3	PB ( )	ICB	CCB1	CCB2	CCB3	PB ( )	Analyte
Al											Al
Sb			~~0.0046~~	~~0.0056~~	0.0044	0.0048					Sb
As	0.0081	0.0093			0.0054						As
Ba											Ba
Be					0.0003						Be
Cd					0.0007						Cd
Ca											Ca
Cr			~~0.0007~~	~~0.0010~~	0.0014						Cr
Co			~~0.0003~~	~~0.0004~~	0.0008	0.0009					Co
Cu					0.0015						Cu
Fe											Fe
Pb	0.0028		~~0.0023~~	~~0.0026~~	0.0049						Pb
Mg											Mg
Mn											Mn
Hg											Hg
Ni											Ni
K											K
Se					0.0089	0.0124	0.0153				Se
Ag			~~0.0006~~	~~0.0007~~	0.0010						Ag
Na											Na
Tl			~~0.0084~~		0.0219						Tl
V					0.0006	0.0009					V
Zn											Zn
B											B
Mo					0.0021						Mo
Sr											Sr

The highest concentration found in the Prep Blank and ICB/CCB for each analyte is circled on this worksheet and transferred to the PB/ICB/CCB Qualified Samples worksheet.

12-29

BLNKICB.4SW

LDC #: 14589G4
SDG #: 05-12-1164

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: MG
2nd Reviewer: My

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: 50 x
Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: 17

Analyte	Maximum PB* (mg/Kg)	Maximum PB* (ug/L)	Maximum ICB/CCB* ~~(ug/L)~~ mg/L	Blank Action Limit	Sample Identification: 17										
Al															
Sb			0.0048	1.20	0.740										
As			0.0054	1.35											
Ba															
Be			0.0003	0.075											
Cd			0.0007	0.18											
Ca															
Cr	0.0400		0.0014	0.35											
Co			0.0009	0.22											
Cu			0.0015	0.38											
Fe															
Pb	0.0815		0.0049	1.22											
Mg															
Mn															
Hg															
Ni															
K															
Se	0.215		0.0153	3.82											
Ag	0.0300		0.0010	0.25											
Na															
Tl			0.0219	5.48											
V			0.0009	0.22											
Zn															
B															
Mo			0.0021	0.52											
Sr															

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

LDC #: 14589G4
SDG #: 05-12-1164

VALIDATION FINDINGS WORKSHEET
PB/ICB/CCB QUALIFIED SAMPLES

Reviewer: MG
2nd Reviewer: MY

METHOD: Trace Metals (EPA SW 846 Method 6010/7000) Soil preparation factor applied: 50 x
Sample Concentration units, unless otherwise noted: mg/kg Associated Samples: 1 → 14

Analyte	Maximum PB[a] (mg/Kg)	Maximum PB[a] (ug/L)	Maximum ICB/CCB[a] ~~(ug/L)~~ mg/L	Blank Action Limit	Sample Identification										
					—	—	No	samples	were	qua	lified	—	—	—	
Al															Al
Sb															Sb
As			0.0093	2.32											As
Ba															Ba
Be															Be
Cd															Cd
Ca															Ca
Cr															Cr
Co															Co
Cu															Cu
Fe															Fe
Pb			0.0028	0.70											Pb
Mg															Mg
Mn															Mn
Hg															Hg
Ni															Ni
K															K
Se															Se
Ag															Ag
Na															Na
Tl															Tl
V															V
Zn															Zn
B															B
Mo															Mo
Sr															Sr

Samples with analyte concentrations within five times the associated ICB, CCB or PB concentration are listed above with the identifications from the Validation Completeness Worksheet. These sample results were qualified as not detected, "U".
Note : a - The listed analyte concentration is the highest ICB, CCB, or PB detected in the analysis of each element.

BLNKSMP.4S2

Correia Middle School
Data Validation Reports
LDC# 14589

Polynuclear Aromatic Hydrocarbons

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 19, 2005

LDC Report Date: February 7, 2006

Matrix: Water

Parameters: Polynuclear Aromatic Hydrocarbons

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1165

Sample Identification

NM-EQ1-1

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8310 for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

b. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks.

Sample NM-EQ1-1 was identified as an equipment blank. No polynuclear aromatic hydrocarbon contaminants were found in this blank with the following exceptions:

Equipment Blank ID	Sampling Date	Compound	Concentration	Associated Samples
NM-EQ1-1	12/19/05	Naphthalene	0.71 ug/L	No associated samples in this SDG

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG 05-12-1165

No Sample Data Qualified in this SDG

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG 05-12-1165

No Sample Data Qualified in this SDG

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Field Blank Data Qualification Summary - SDG 05-12-1165

No Sample Data Qualified in this SDG

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1165
San Diego, CA 92123-1013		Preparation:	EPA 3510B
		Method:	EPA 8310
		Units:	ug/L
Project: Correia Middle School			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EQ1-1	05-12-1165-7	12/20/05	Aqueous	12/21/05	12/28/05	051220L04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	0.71	1.0	0.57	1	J	Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	83	40-160	

Method Blank	099-07-003-674	N/A	Aqueous	12/20/05	12/22/05	051220L04

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	98	40-160	

12/29/06

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

LDC #: 14589A9

SDG #: 05-12-1165

Laboratory: Calscience Environmental Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 2/6/06

Page: 1 of 1

Reviewer: a

2nd Reviewer: h

METHOD: HPLC Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8310)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/19/05
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	QC only
IVc.	Laboratory control samples	A	LCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	SW	EB = 1

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	NM-EQ1-1 W	11		21		31	
2	05T220L04	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

VALIDATION FINDINGS WORKSHEET

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~ PAHs

A. Phenol**	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol**	III. Benzo(a)pyrene**
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol**	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene**	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol*	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene**	T. 4-Chloroaniline	II. 4-Nitrophenol*	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene**	JJ. Dibenzofuran	YY. Fluoranthene**	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol**	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene*	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine*	Y. 2,4,6-Trichlorophenol**	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT.
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)**	FFF. Di-n-octylphthalate**	UUU.
N. 2-Nitrophenol**	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

LDC #: 14589A9
SDG #: 05-12-1165

VALIDATION FINDINGS WORKSHEET
Field Blanks

Page: 1 of 1
Reviewer: 9
2nd Reviewer: 4

METHOD: GC/MS BNA (EPA SW 846 Method 8270)
Y N N/A Were field blanks identified in this SDG?
Y N N/A Were target compounds detected in the field blanks?
Blank units: ug/L **Associated sample units:** —
Sampling date: 12/19/05
Field blank type: (circle one) Field Blank / Rinsate / Other: EB None

Compound	Blank ID	Sample Identification								
	1									
Diethylphthalate										
Di-n-butylphthalate										
Bis(2-ethylhexyl)phthalate										
S	0.71									
CRQL										

CIRCLED RESULTS WERE NOT QUALIFIED. ALL RESULTS NOT CIRCLED WERE QUALIFIED BY THE FOLLOWING STATEMENT:
Common contaminants such as the phthalates and TICs noted above that were detected in samples within ten times the associated field blank concentration were qualified as not detected, "U". Other contaminants within five times the field blank concentration were also qualified as not detected, "U".

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 22, 2005

LDC Report Date: February 7, 2006

Matrix: Soil

Parameters: Polynuclear Aromatic Hydrocarbons

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1347

Sample Identification

NM-B25-17.5
NM-B25-35.0
NM-B25-35.0MS
NM-B25-35.0MSD

Introduction

This data review covers 4 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8310 for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

b. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks.

Sample NM-EB1-04 (from SDG 05-12-1442) was identified as an equipment blank. No polynuclear aromatic hydrocarbon contaminants were found in this blank.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG 05-12-1347

No Sample Data Qualified in this SDG

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG 05-12-1347

No Sample Data Qualified in this SDG

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Field Blank Data Qualification Summary - SDG 05-12-1347

No Sample Data Qualified in this SDG

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1347
San Diego, CA 92123-1013		Preparation:	EPA 3545
		Method:	EPA 8310
		Units:	ug/kg
Project: SDUSD / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B25-17.5	**05-12-1347-13**	**12/22/05**	**Solid**	**12/27/05**	**12/28/05**	**051227L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	250	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	82	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	35	50	2.2	1	J	Benzo (a) Pyrene	290	50	3.2	1	
Anthracene	9.4	50.0	1.9	1	J	Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	130	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	71	40-160	

NM-B25-35.0	**05-12-1347-19**	**12/22/05**	**Solid**	**12/27/05**	**12/28/05**	**051227L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	3.0	50.0	2.9	1	J
Acenaphthylene	ND	50	32	1		Chrysene	130	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	ND	50	2.2	1		Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	6.7	50.0	2.5	1	J

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	71	40-160	

Method Blank	**099-07-002-614**	**N/A**	**Solid**	**12/27/05**	**12/28/05**	**051227L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	ND	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	ND	50	2.2	1		Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	83	40-160	

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

LDC #: 14589B9

SDG #: 05-12-1347

Laboratory: Calscience Environmental Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 2/6/06

Page: 1 of 1

Reviewer: Q

2nd Reviewer: MM

METHOD: HPLC Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8310)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/22/05
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	A	
IVc.	Laboratory control samples	A	LCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	ND	EB = NM-EB1-04 (05-12-1442)

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	NM-B25-17.5 S	11	05122702	21		31	
2	NM-B25-35.0	12		22		32	
3	NM-B25-35.0MS	13		23		33	
4	NM-B25-35.0MSD	14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 20, 2005

LDC Report Date: February 7, 2006

Matrix: Soil

Parameters: Polynuclear Aromatic Hydrocarbons

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1348

Sample Identification

NM-B19 (4.5-5.0)

Introduction

This data review covers one soil sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8310 for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

b. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks.

No field blanks were identified in this SDG.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG 05-12-1348

No Sample Data Qualified in this SDG

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG 05-12-1348

No Sample Data Qualified in this SDG

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Field Blank Data Qualification Summary - SDG 05-12-1348

No Sample Data Qualified in this SDG

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/22/05
5710 Ruffin Road		Work Order No:	05-12-1348
San Diego, CA 92123-1013		Preparation:	EPA 3545
		Method:	EPA 8310
		Units:	ug/kg
Project: Correia Middle School / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B19 (4.5-5.0)	**05-12-1348-12**	**12/20/05**	**Solid**	**12/27/05**	**12/28/05**	**051227L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	61	50	26	1		Benzo (a) Anthracene	16	50	2.9	1	J
Acenaphthylene	ND	50	32	1		Chrysene	79	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	52	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	35	50	2.2	1	J	Benzo (a) Pyrene	150	50	3.2	1	
Anthracene	5.0	50.0	1.9	1	J	Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	21	50	3.1	1	J	Indeno (1,2,3-c,d) Pyrene	69	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	100	40-160	

Method Blank	**099-07-002-614**	**N/A**	**Solid**	**12/27/05**	**12/28/05**	**051227L02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	ND	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	ND	50	2.2	1		Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	83	40-160	

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

2/9/06

LDC #: 14589C9

SDG #: 05-12-1348

Laboratory: Calscience Environmental Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 2/6/07

Page: 1 of 1

Reviewer:

2nd Reviewer:

METHOD: HPLC Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8310)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/20/05
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	A	NM-B25-35.0 (05-12-134T)
IVc.	Laboratory control samples	A	LCS
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	NM-B19 (4.5-5.0) S	11		21		31	
2	5227L02MB	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 21, 2005

LDC Report Date: February 7, 2006

Matrix: Water

Parameters: Polynuclear Aromatic Hydrocarbons

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1349

Sample Identification

EB2-3

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8310 for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

b. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks.

Sample EB2-3 was identified as an equipment blank. No polynuclear aromatic hydrocarbon contaminants were found in this blank.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG 05-12-1349

No Sample Data Qualified in this SDG

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG 05-12-1349

No Sample Data Qualified in this SDG

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Field Blank Data Qualification Summary - SDG 05-12-1349

No Sample Data Qualified in this SDG

Calscience Environmental Laboratories, Inc.

Analytical Report

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

Date Received:	12/22/05
Work Order No:	05-12-1349
Preparation:	EPA 3510B
Method:	EPA 8310
Units:	ug/L

Project: Correia Middle School / 105338029

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
EB2-3	05-12-1349-7	12/21/05	Aqueous	12/28/05	12/30/05	051228L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	66	40-160	

Method Blank	099-07-003-676	N/A	Aqueous	12/28/05	12/28/05	051228L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	80	40-160	

2/9/06

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

LDC #: 14589D9

SDG #: 05-12-1349

Laboratory: Calscience Environmental Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 2/6/06

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: HPLC Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8310)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/21/05
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	QC only
IVc.	Laboratory control samples	A	LCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data		
IX.	Field duplicates	N	
X.	Field blanks	ND	EB = 1

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	EB2-3 W	11		21		31	
2	05122801MB	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 22, 2005

LDC Report Date: February 7, 2006

Matrix: Water

Parameters: Polynuclear Aromatic Hydrocarbons

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1442

Sample Identification

NM-EB1-04

Introduction

This data review covers one water sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8310 for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

b. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks.

Sample NM-EB1-04 was identified as an equipment blank. No polynuclear aromatic hydrocarbon contaminants were found in this blank.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG 05-12-1442

No Sample Data Qualified in this SDG

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG 05-12-1442

No Sample Data Qualified in this SDG

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Field Blank Data Qualification Summary - SDG 05-12-1442

No Sample Data Qualified in this SDG

Calscience Environmental Laboratories, Inc.

Analytical Report

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1442
San Diego, CA 92123-1013		Preparation:	EPA 3510B
		Method:	EPA 8310
		Units:	ug/L
Project: SDUSD / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EB1-04	**05-12-1442-9**	**12/22/05**	**Aqueous**	**12/28/05**	**12/30/05**	**051228L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	87	40-160	

Method Blank	**099-07-003-676**	**N/A**	**Aqueous**	**12/28/05**	**12/28/05**	**051228L01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	80	40-160	

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

LDC #: 14589E9

SDG #: 05-12-1442

Laboratory: Calscience Environmental Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 2/6/06

Page: 1 of 1

Reviewer:

2nd Reviewer:

METHOD: HPLC Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8310)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/22/05
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	N	QC only
IVc.	Laboratory control samples	A	LCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	NO	EB = 1

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	NM-EB1-04 W	11		21		31	
2	051228L01MB	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 23 through December 27, 2005

LDC Report Date: February 7, 2006

Matrix: Soil/Water

Parameters: Polynuclear Aromatic Hydrocarbons

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1443

Sample Identification

NM-B20-15.0
NM-B22-6.0
NM-B22-11.5
NM-B22-32.5
NM-EB1-05
NM-EB1-06
NM-B22-6.0MS
NM-B22-6.0MSD

Introduction

This data review covers 6 soil samples and 2 water samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8310 for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Compound	Total Days From Sample Collection Until Extraction	Required Holding Time (in Days) From Sample Collection Until Extraction	Flag	A or P
NM-B22-6.0 NM-B22-11.5 NM-B22-6.0MS NM-B22-6.0MSD	All TCL compounds	17	14	J (all detects) UJ (all non-detects)	P

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

b. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks.

Samples NM-EB1-05 and NM-EB1-06 were identified as equipment blanks. No polynuclear aromatic hydrocarbon contaminants were found in these blanks.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the following exceptions:

Spike ID (Associated Samples)	Compound	MS (%R) (Limits)	MSD (%R) (Limits)	RPD (Limits)	Flag	A or P
NM-B22-6.0MS/MSD (NM-B22-6.0)	Benzo(a)pyrene	172 (40-160)	188 (40-160)	-	J (all detects)	A
	Dibenz(a,h)anthracene	180 (40-160)	215 (40-160)	-	J (all detects)	

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG 05-12-1443

SDG	Sample	Compound	Flag	A or P	Reason
05-12-1443	NM-B22-6.0 NM-B22-11.5	All TCL compounds	J (all detects) UJ (all non-detects)	P	Technical holding times
05-12-1443	NM-B22-6.0	Benzo(a)pyrene Dibenz(a,h)anthracene	J (all detects) J (all detects)	A	Matrix spike/Matrix spike duplicates (%R)

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG 05-12-1443

No Sample Data Qualified in this SDG

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Field Blank Data Qualification Summary - SDG 05-12-1443

No Sample Data Qualified in this SDG

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/27/05
5710 Ruffin Road		Work Order No:	05-12-1443
San Diego, CA 92123-1013		Preparation:	EPA 3545
		Method:	EPA 8310
		Units:	ug/kg
Project: Correia M.S. / 105338029			Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B20-15.0	05-12-1443-5	12/23/05	Solid	01/05/06	01/06/06	060105L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	5.0	50.0	2.9	1	J
Acenaphthylene	ND	50	32	1		Chrysene	20	50	2.6	1	J
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	10	50	3.5	1	J
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	8.8	50.0	2.2	1	J	Benzo (a) Pyrene	17	50	3.2	1	J
Anthracene	2.2	50.0	1.9	1	J	Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	12	50	4.9	1	J	Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	16	50	3.1	1	J	Indeno (1,2,3-c,d) Pyrene	11	50	2.5	1	J

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	100	40-160	

NM-B22-32.5	05-12-1443-18	12/23/05	Solid	01/05/06	01/06/06	060105L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	6.8	50.0	2.6	1	J
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	3.8	50.0	3.5	1	J
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	5.2	50.0	2.2	1	J	Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	32	50	4.4	1	J
Fluoranthene	8.3	50.0	4.9	1	J	Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	4.4	50.0	2.5	1	J

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	95	40-160	

Method Blank	099-07-002-617	N/A	Solid	01/05/06	01/06/06	060105L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	ND	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	ND	50	2.2	1		Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	99	40-160	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/27/05
Work Order No: 05-12-1443
Preparation: EPA 3545
Method: EPA 8310
Units: ug/kg

Project: Correia M.S. / 105338029

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B22-6.0	05-12-1443-11	12/23/05	Solid	01/09/06	01/11/06	060109L06

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND UJ	50	26	1		Benzo (a) Anthracene	ND UJ	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	8.0 J	50.0	2.6	1	J
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND UJ	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND UJ	50	2.2	1	
Phenanthrene	9.3 J	50.0	2.2	1	J	Benzo (a) Pyrene	9.9 J	50.0	3.2	1	J
Anthracene	ND UJ	50	1.9	1		Dibenz (a,h) Anthracene	ND UJ	50	4.4	1	
Fluoranthene	5.0 J	50.0	4.9	1	J	Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	17 J	50	3.1	1	J	Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	98	40-160	

NM-B22-11.5	05-12-1443-13	12/23/05	Solid	01/09/06	01/11/06	060109L06

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND UJ	50	26	1		Benzo (a) Anthracene	11 J	50	2.9	1	J
Acenaphthylene	ND	50	32	1		Chrysene	25	50	2.6	1	J
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	24	50	3.5	1	J
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND UJ	50	2.2	1	
Phenanthrene	23 J	50	2.2	1	J	Benzo (a) Pyrene	47 J	50	3.2	1	J
Anthracene	6.3 J	50.0	1.9	1	J	Dibenz (a,h) Anthracene	ND UJ	50	4.4	1	
Fluoranthene	ND UJ	50	4.9	1		Benzo (g,h,i) Perylene	22 J	50	4.7	1	J
Pyrene	10 J	50	3.1	1	J	Indeno (1,2,3-c,d) Pyrene	38 J	50	2.5	1	J

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	136	40-160	

Method Blank	099-07-002-618	N/A	Solid	01/10/06	01/11/06	060109L06

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	ND	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	ND	50	2.2	1		Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	94	40-160	

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

2/9/06

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 12/27/05
Work Order No: 05-12-1443
Preparation: EPA 3510B
Method: EPA 8310
Units: ug/L

Project: Correia M.S. / 105338029

Page 1 of 1

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-EB1-05	05-12-1443-22	12/23/05	Aqueous	12/28/05	12/30/05	051228L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	74	40-160	

NM-EB1-06	05-12-1443-26	12/27/05	Aqueous	12/28/05	12/30/05	051228L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	70	40-160	

Method Blank	099-07-003-676	N/A	Aqueous	12/28/05	12/28/05	051228L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	1.0	0.57	1		Benzo (a) Anthracene	ND	1.0	0.072	1	
Acenaphthylene	ND	1.0	0.96	1		Chrysene	ND	1.0	0.041	1	
Acenaphthene	ND	1.0	0.42	1		Benzo (b) Fluoranthene	ND	1.0	0.10	1	
Fluorene	ND	1.0	0.10	1		Benzo (k) Fluoranthene	ND	1.0	0.055	1	
Phenanthrene	ND	1.0	0.052	1		Benzo (a) Pyrene	ND	0.20	0.054	1	
Anthracene	ND	1.0	0.036	1		Dibenz (a,h) Anthracene	ND	1.0	0.14	1	
Fluoranthene	ND	1.0	0.072	1		Benzo (g,h,i) Perylene	ND	1.0	0.13	1	
Pyrene	ND	1.0	0.074	1		Indeno (1,2,3-c,d) Pyrene	ND	1.0	0.046	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	80	40-160	

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

LDC #: 14589F9

SDG #: 05-12-1443

Laboratory: Calscience Environmental Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 2/6/06

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer: [illegible]

METHOD: HPLC Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8310)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 12/23 - 27/05
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	SW	
IVc.	Laboratory control samples	A	LCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	ND	EB=5, 6

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1 1	NM-B20-15.0 S	11 1	060105L01MB	21		31	
2 3	NM-B22-6.0	12 2	057228L01MB	22		32	
3 3	NM-B22-11.5	13 3	060109L06	23		33	
4 1	NM-B22-32.5	14		24		34	
5 2	NM-EB1-05 W	15		25		35	
6 2	NM-EB1-06	16		26		36	
7	NM-B22-6.0MS S	17		27		37	
8	NM-B22-6.0MSD	18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

VALIDATION FINDINGS WORKSHEET

PAHs

METHOD: ~~GC/MS BNA (EPA SW 846 Method 8270)~~

A. Phenol**	P. Bis(2-chloroethoxy)methane	EE. 2,6-Dinitrotoluene	TT. Pentachlorophenol**	III. Benzo(a)pyrene**
B. Bis (2-chloroethyl) ether	Q. 2,4-Dichlorophenol**	FF. 3-Nitroaniline	UU. Phenanthrene	JJJ. Indeno(1,2,3-cd)pyrene
C. 2-Chlorophenol	R. 1,2,4-Trichlorobenzene	GG. Acenaphthene**	VV. Anthracene	KKK. Dibenz(a,h)anthracene
D. 1,3-Dichlorobenzene	S. Naphthalene	HH. 2,4-Dinitrophenol*	WW. Carbazole	LLL. Benzo(g,h,i)perylene
E. 1,4-Dichlorobenzene**	T. 4-Chloroaniline	II. 4-Nitrophenol*	XX. Di-n-butylphthalate	MMM. Bis(2-Chloroisopropyl)ether
F. 1,2-Dichlorobenzene	U. Hexachlorobutadiene**	JJ. Dibenzofuran	YY. Fluoranthene**	NNN. Aniline
G. 2-Methylphenol	V. 4-Chloro-3-methylphenol**	KK. 2,4-Dinitrotoluene	ZZ. Pyrene	OOO. N-Nitrosodimethylamine
H. 2,2'-Oxybis(1-chloropropane)	W. 2-Methylnaphthalene	LL. Diethylphthalate	AAA. Butylbenzylphthalate	PPP. Benzoic Acid
I. 4-Methylphenol	X. Hexachlorocyclopentadiene*	MM. 4-Chlorophenyl-phenyl ether	BBB. 3,3'-Dichlorobenzidine	QQQ. Benzyl alcohol
J. N-Nitroso-di-n-propylamine*	Y. 2,4,6-Trichlorophenol**	NN. Fluorene	CCC. Benzo(a)anthracene	RRR. Pyridine
K. Hexachloroethane	Z. 2,4,5-Trichlorophenol	OO. 4-Nitroaniline	DDD. Chrysene	SSS. Benzidine
L. Nitrobenzene	AA. 2-Chloronaphthalene	PP. 4,6-Dinitro-2-methylphenol	EEE. Bis(2-ethylhexyl)phthalate	TTT.
M. Isophorone	BB. 2-Nitroaniline	QQ. N-Nitrosodiphenylamine (1)**	FFF. Di-n-octylphthalate**	UUU.
N. 2-Nitrophenol**	CC. Dimethylphthalate	RR. 4-Bromophenyl-phenylether	GGG. Benzo(b)fluoranthene	VVV.
O. 2,4-Dimethylphenol	DD. Acenaphthylene	SS. Hexachlorobenzene	HHH. Benzo(k)fluoranthene	WWW.

LDC #: 14589F9
SDG #: 05-12-1443

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Page: 1 of 1
Reviewer: 9
2nd Reviewer: 9

All circled dates have exceeded the technical holding times.
Y N N/A Were all cooler temperatures within validation criteria?

METHOD : GC/MS BNA (EPA SW 846 Method 8270)

Sample ID	Matrix	Preserved	Sampling Date	Extraction date	Analysis date	Total # of Days	Qualifier
2	S	N	12-23-05	1-9-06	1-11-06	17	J/UJ/P
3	✓	✓	✓	✓	✓	✓	✓
7	S	✓	✓	✓	✓	✓	✓
8	✓	✓	✓	✓	✓	✓	✓

TECHNICAL HOLDING TIME CRITERIA

Water: Extracted within 7 days, analyzed within 40 days.
Soil: Extracted within 14 days, analyzed within 40 days.

LDC #: 14589F9
SDG #: 05-12-1443

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates

Page: 1 of 1
Reviewer: 9
2nd Reviewer: K

METHOD: GC/MS BNA (EPA SW 846 Method 8270)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Were a matrix spike (MS) and matrix spike duplicate (MSD) analyzed for each matrix in this SDG? If no, indicate which matrix does not have an associated MS/MSD. Soil / Water.

Y N N/A Was a MS/MSD analyzed every 20 samples of each matrix?

Y N N/A Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?

#	Date	MS/MSD ID	Compound	MS %R (Limits)	MSD %R (Limits)	RPD (Limits)	Associated Samples	Qualifications
		7/8	111	172 (40-160)	188 (40-160)	( )	2	Vdets/A
			KKK	180 (✓)	215 (✓)	( )		✓
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		
				( )	( )	( )		

	Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)		Compound	QC Limits (Soil)	RPD (Soil)	QC Limits (Water)	RPD (Water)
A.	Phenol	26-90%	≤ 35%	12-110%	≤ 42%	GG.	Acenaphthene	31-137%	≤ 19%	46-118%	≤ 31%
C.	2-Chlorophenol	25-102%	≤ 50%	27-123%	≤ 40%	II.	4-Nitrophenol	11-114%	≤ 50%	10-80%	≤ 50%
E.	1,4-Dichlorobenzene	28-104%	≤ 27%	36-97%	≤ 28%	KK.	2,4-Dinitrotoluene	28-89%	≤ 47%	24-96%	≤ 38%
J.	N-Nitroso-di-n-propylamine	41-126%	≤ 38%	41-116%	≤ 38%	TT.	Pentachlorophenol	17-109%	≤ 47%	9-103%	≤ 50%
R.	1,2,4-Trichlorobenzene	38-107%	≤ 23%	39-98%	≤ 28%	ZZ.	Pyrene	35-142%	≤ 36%	26-127%	≤ 31%
V.	4-Chloro-3-methylphenol	26-103%	≤ 33%	23-97%	≤ 42%						

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name: Correia Middle School

Collection Date: December 19, 2005

LDC Report Date: February 9, 2006

Matrix: Soil

Parameters: Polynuclear Aromatic Hydrocarbons

Validation Level: EPA Level III

Laboratory: Calscience Environmental Laboratories, Inc.

Sample Delivery Group (SDG): 05-12-1164

Sample Identification

NM-B24 (4.5-5.5)
NM-B24 (13-14)
NM-B24 (4.5-5.5)MS
NM-B24 (4.5-5.5)MSD
NM-B24 (13-14)MS
NM-B24 (13-14)MSD

Introduction

This data review covers 6 soil samples listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8310 for Polynuclear Aromatic Hydrocarbons.

This review follows a modified outline of the USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review (October 1999) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section III.

Field duplicates are summarized in Section IX.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. Calibration

a. Initial Calibration

Initial calibration of compounds was performed as required by the method.

The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all compounds.

b. Calibration Verification

Calibration verification was performed at required frequencies.

The percent differences (%D) of calibration factors in continuing standard mixtures were within the 15.0% QC limits.

III. Blanks

Method blanks were reviewed for each matrix as applicable. No polynuclear aromatic hydrocarbon contaminants were found in the method blanks.

No field blanks were identified in this SDG.

IV. Accuracy and Precision Data

a. Surrogate Recovery

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits.

b. Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

c. Laboratory Control Samples

Laboratory control samples were reviewed for each matrix as applicable. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

V. Target Compound Identification

Raw data were not reviewed for this SDG.

VI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

VII. System Performance

Raw data were not reviewed for this SDG.

VIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

IX. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Data Qualification Summary - SDG 05-12-1164

No Sample Data Qualified in this SDG

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Laboratory Blank Data Qualification Summary - SDG 05-12-1164

No Sample Data Qualified in this SDG

Correia Middle School
Polynuclear Aromatic Hydrocarbons - Field Blank Data Qualification Summary - SDG 05-12-1164

No Sample Data Qualified in this SDG

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

Ninyo & Moore		Date Received:	12/20/05
5710 Ruffin Road		Work Order No:	05-12-1164
San Diego, CA 92123-1013		Preparation:	EPA 3545
		Method:	EPA 8310
		Units:	ug/kg
Project: Correia / 105338029			Page 1 of 2

Client Sample Number	Lab Sample Number	Date Collected	Matrix	Date Prepared	Date Analyzed	QC Batch ID
NM-B24 (4.5-5.5)	05-12-1164-2	12/19/05	Solid	12/30/05	12/30/05	051230L03

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	6.0	50.0	2.6	1	J
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	3.4	50.0	2.2	1	J	Benzo (a) Pyrene	5.9	50.0	3.2	1	J
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	9.8	50.0	4.9	1	J	Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	83	40-160	

NM-B24 (13-14)	05-12-1164-4	12/19/05	Solid	12/21/05	12/22/05	051221L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	16	50	2.6	1	J
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	16	50	3.5	1	J
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	15	50	2.2	1	J	Benzo (a) Pyrene	16	50	3.2	1	J
Anthracene	9.1	50.0	1.9	1	J	Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	24	50	4.9	1	J	Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	65	40-160	

Method Blank	099-07-002-613	N/A	Solid	12/21/05	12/22/05	051221L01

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Naphthalene	ND	50	26	1		Benzo (a) Anthracene	ND	50	2.9	1	
Acenaphthylene	ND	50	32	1		Chrysene	ND	50	2.6	1	
Acenaphthene	ND	50	19	1		Benzo (b) Fluoranthene	ND	50	3.5	1	
Fluorene	ND	50	16	1		Benzo (k) Fluoranthene	ND	50	2.2	1	
Phenanthrene	ND	50	2.2	1		Benzo (a) Pyrene	ND	50	3.2	1	
Anthracene	ND	50	1.9	1		Dibenz (a,h) Anthracene	ND	50	4.4	1	
Fluoranthene	ND	50	4.9	1		Benzo (g,h,i) Perylene	ND	50	4.7	1	
Pyrene	ND	50	3.1	1		Indeno (1,2,3-c,d) Pyrene	ND	50	2.5	1	

Surrogates:	REC (%)	Control Limits	Qual
Decafluorobiphenyl	81	40-160	

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

2/9/06

LDC #: 14589G9

SDG #: 05-12-1164

Laboratory: Calscience Environmental Laboratories, Inc.

VALIDATION COMPLETENESS WORKSHEET

Level III

Date: 2/8/06

Page: 1 of 1

Reviewer: 9

2nd Reviewer: 1

METHOD: HPLC Polynuclear Aromatic Hydrocarbons (EPA SW 846 Method 8310)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/19/05
IIa.	Initial calibration	A	
IIb.	Calibration verification	A	
III.	Blanks	A	
IVa.	Surrogate recovery	A	
IVb.	Matrix spike/Matrix spike duplicates	A	
IVc.	Laboratory control samples	A	LCS/D
V.	Target compound identification	N	
VI.	Compound Quantitation and CRQLs	N	
VII.	System Performance	N	
VIII.	Overall assessment of data	A	
IX.	Field duplicates	N	
X.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	NM-B24 (4.5-5.5) S	11	057230L03	21		31	
2	NM-B24 (13-14)	12	057221L01	22		32	
3	NM-B24 (4.5-5.5)MS	13		23		33	
4	NM-B24 (4.5-5.5)MSD	14		24		34	
5	NM-B24 (13-14)MS	15		25		35	
6	NM-B24 (13-14)MSD	16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

Correia Middle School
Data Validation Reports
LDC# 14589

Dioxins/Dibenzofurans

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Correia Middle School
Collection Date:	December 20, 2005
LDC Report Date:	February 7, 2006
Matrix:	Soil
Parameters:	Dioxins/Dibenzofurans
Validation Level:	EPA Level III
Laboratory:	Calscience Environmental Laboratories, Inc./Frontier Analytical Laboratory
Sample Delivery Group (SDG):	05-12-1348/3675

Sample Identification

NM-B19 (4.5-5.0)

Introduction

This data review covers one soil sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8290 for Polychlorinated Dioxins/Dibenzofurans.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (August 2002) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Compound	Total Days From Sample Collection Until Extraction	Required Holding Time (in Days) From Sample Collection Until Extraction	Flag	A or P
NM-B19 (4.5-5.0)	All TCL compounds	35	30	J (all detects) UJ (all non-detects)	P

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

Retention time windows were established for all homologues. The chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomer was less than or equal to 25%.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 30.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 20.0% for unlabeled compounds and less than or equal to 30.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries were within QC limits.

X. Target Compound Identifications

Raw data were not reviewed for this SDG.

XI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XII. System Performance

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Dioxins/Dibenzofurans - Data Qualification Summary - SDG 05-12-1348/3675

SDG	Sample	Compound	Flag	A or P	Reason
05-12-1348/3675	NM-B19 (4.5-5.0)	All TCL compounds	J (all detects) UJ (all non-detects)	P	Technical holding times

Correia Middle School
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG 05-12-1348/3675

No Sample Data Qualified in this SDG

Correia Middle School
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG 05-12-1348/3675

No Sample Data Qualified in this SDG

EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 3675-001-SA
Client ID: NM-B19 (4.5-5.0)
Matrix: Soil
Batch No: X0766

Date Extracted: 01-24-2006
Date Received: 01-11-2006
Amount: 10.01 g
% Solids: 89.38

ICal: PCDDFAL1-1-26-06
GC Column: DB5
Units: pg/g

Acquired: 01-27-2006
WHO TEQ: 50.1

Compound	Conc		DL	Qual	WHO Tox	Compound	Conc		DL	Qual	#Hom
2,3,7,8-TCDD	2.78	J	-		2.78						
1,2,3,7,8-PeCDD	8.61		-		8.61						
1,2,3,4,7,8-HxCDD	5.82		-		0.582						
1,2,3,6,7,8-HxCDD	22.5		-		2.25	Total Tetra-Dioxins	248	J	-		16
1,2,3,7,8,9-HxCDD	16.0		-		1.60	Total Penta-Dioxins	234		-		10
1,2,3,4,6,7,8-HpCDD	218		-		2.18	Total Hexa-Dioxins	344		-		8
OCDD	795		-		0.07950	Total Hepta-Dioxins	372		-		2
2,3,7,8-TCDF	26.6		-	F	2.66						
1,2,3,7,8-PeCDF	20.1		-		1.00						
2,3,4,7,8-PeCDF	34.3		-		17.1						
1,2,3,4,7,8-HxCDF	26.2		-		2.62						
1,2,3,6,7,8-HxCDF	30.1		-		3.01						
2,3,4,6,7,8-HxCDF	40.7		-		4.07						
1,2,3,7,8,9-HxCDF	3.31		-		0.331	Total Tetra-Furans	803	J	-	D,M	23
1,2,3,4,6,7,8-HpCDF	117		-		1.17	Total Penta-Furans	500		-	D,M	20
1,2,3,4,7,8,9-HpCDF	3.85		-		0.0385	Total Hexa-Furans	317		-		13
OCDF	29.5		-		0.00295	Total Hepta-Furans	149		-		4

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	96.5	40.0 - 135	
13C-1,2,3,7,8-PeCDD	93.7	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	94.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	90.6	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	97.0	40.0 - 135	
13C-OCDD	87.7	40.0 - 135	
13C-2,3,7,8-TCDF	101	40.0 - 135	
13C-1,2,3,7,8-PeCDF	100	40.0 - 135	
13C-2,3,4,7,8-PeCDF	99.4	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	89.0	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	86.0	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	88.9	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	94.0	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	97.5	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	100	40.0 - 135	
13C-OCDF	84.1	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	95.2	50.0 - 150

Analyst: [illegible]
Date: 1/27/06

Reviewed By: [illegible]
Date: 1/27/06

2/9/04

LDC #: 14589C21

VALIDATION COMPLETENESS WORKSHEET

SDG #: 05-12-1348/3675

Level III

Laboratory: Calscience Environmental Laboratories, Inc./FrontierAnalytical Laboratory

Date: 2/6/06
Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 12/20/05
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	
IV.	Routine calibration	A	
V.	Blanks	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified
VII.	Laboratory control samples	A	LCS
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	
X.	Target compound identifications	N	
XI.	Compound quantitation and CRQLs	N	
XII.	System performance	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	NM-B19 (4.5-5.0) S	11		21		31	
2	36TS-001-MB	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 14589C2
SDG #: 05-12-1348/3675

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Page: 1 of 1
Reviewer: 9
2nd Reviewer: 9

All circled dates have exceeded the technical holding times.
Y N N/A Were all cooler temperatures within validation criteria?

METHOD : HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

Sample ID	Matrix	Preserved	Sampling Date	Extraction date	Analysis date	Total # of Days	Qualifier
1	S	N	12-20-05	1-24-06	1-27-06	35	J/UJ/P

TECHNICAL HOLDING TIME CRITERIA

EXTRACTABLES

Water: Extracted within 30 days, analyzed within 45 days.
Soil: Extracted within 30 days, analyzed within 45 days.

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Correia Middle School
Collection Date:	December 23, 2005
LDC Report Date:	February 7, 2006
Matrix:	Soil
Parameters:	Dioxins/Dibenzofurans
Validation Level:	EPA Level III
Laboratory:	Calscience Environmental Laboratories, Inc./Frontier Analytical Laboratory
Sample Delivery Group (SDG):	05-12-1343/3674

Sample Identification

NM-B22-11.5

Introduction

This data review covers one soil sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8290 for Polychlorinated Dioxins/Dibenzofurans.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (August 2002) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met with the following exceptions:

Sample	Compound	Total Days From Sample Collection Until Extraction	Required Holding Time (in Days) From Sample Collection Until Extraction	Flag	A or P
NM-B22-11.5	All TCL compounds	32	30	J (all detects) UJ (all non-detects)	P

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

Retention time windows were established for all homologues. The chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomer was less than or equal to 25%.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 30.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 20.0% for unlabeled compounds and less than or equal to 30.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries were within QC limits.

X. Target Compound Identifications

Raw data were not reviewed for this SDG.

XI. Compound Quantitation and CRQLs

Raw data were not reviewed for this SDG.

XII. System Performance

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Dioxins/Dibenzofurans - Data Qualification Summary - SDG 05-12-1343/3674

SDG	Sample	Compound	Flag	A or P	Reason
05-12-1343/3674	NM-B22-11.5	All TCL compounds	J (all detects) UJ (all non-detects)	P	Technical holding times

Correia Middle School
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG 05-12-1343/3674

No Sample Data Qualified in this SDG

Correia Middle School
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG 05-12-1343/3674

No Sample Data Qualified in this SDG

EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 3674-001-SA
Client ID: NM-B22-11.5
Matrix: Soil
Batch No: X0766

Date Extracted: 01-24-2006
Date Received: 01-11-2006
Amount: 10.13 g
% Solids: 86.70

ICal: PCDDFAL1-1-26-06
GC Column: DB5
Units: pg/g

Acquired: 01-27-2006
WHO TEQ: 25.5

Compound	Conc		DL	Qual	WHO Tox	Compound	Conc		DL	Qual	#Hom
2,3,7,8-TCDD	1.15	J	-		1.15						
1,2,3,7,8-PeCDD	3.43		-		3.43						
1,2,3,4,7,8-HxCDD	2.83		-		0.283						
1,2,3,6,7,8-HxCDD	10.3		-		1.03	Total Tetra-Dioxins	64.4	J	-		15
1,2,3,7,8,9-HxCDD	7.47		-		0.747	Total Penta-Dioxins	72.9		-		10
1,2,3,4,6,7,8-HpCDD	111		-		1.11	Total Hexa-Dioxins	145		-		8
OCDD	516		-		0.05160	Total Hepta-Dioxins	196		-		2
2,3,7,8-TCDF	14.7		-	F	1.47						
1,2,3,7,8-PeCDF	11.2		-		0.560						
2,3,4,7,8-PeCDF	18.6		-		9.32						
1,2,3,4,7,8-HxCDF	15.3		-		1.53						
1,2,3,6,7,8-HxCDF	16.6		-		1.66						
2,3,4,6,7,8-HxCDF	21.3		-		2.13						
1,2,3,7,8,9-HxCDF	2.00		-	J	0.200	Total Tetra-Furans	390	J	-		23
1,2,3,4,6,7,8-HpCDF	84.1		-		0.841	Total Penta-Furans	235		-		18
1,2,3,4,7,8,9-HpCDF	3.04		-		0.0304	Total Hexa-Furans	173		-		13
OCDF	29.0		-		0.00290	Total Hepta-Furans	111		-		4

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	93.3	40.0 - 135	
13C-1,2,3,7,8-PeCDD	88.3	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	92.4	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	88.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	93.2	40.0 - 135	
13C-OCDD	88.4	40.0 - 135	
13C-2,3,7,8-TCDF	100	40.0 - 135	
13C-1,2,3,7,8-PeCDF	95.9	40.0 - 135	
13C-2,3,4,7,8-PeCDF	93.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	93.9	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	91.3	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	90.3	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	93.5	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	90.3	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	107	40.0 - 135	
13C-OCDF	89.8	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	96.6	50.0 - 150

Analyst: _____
Date: 1/27/05

Reviewed By: _____
Date: 1/27/06

2/9/06

5172 Hillsdale Circle • El Dorado Hills, CA 95762 • Tel (916) 934-0900 • Fax (916) 934-0999 • www.frontieranalytical.com

LDC #: 14589F21

VALIDATION COMPLETENESS WORKSHEET

Date: 2/6/06

SDG #: 05-12-1343/3674

Level III

Page: 1 of 1

Laboratory: Calscience Environmental Laboratories, Inc./FrontierAnalytical Laboratory

Reviewer: 9

2nd Reviewer: h

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	SW	Sampling dates: 12/23/05
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	
IV.	Routine calibration	A	
V.	Blanks	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified.
VII.	Laboratory control samples	A	LCS
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	
X.	Target compound identifications	N	
XI.	Compound quantitation and CRQLs	N	
XII.	System performance	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	NM-B22-11.5 9	11		21		31	
2	3674-001-MB	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes:

LDC #: 14589F2/
SDG #: 05-12-1343/3674

VALIDATION FINDINGS WORKSHEET
Technical Holding Times

Page: 1 of 1
Reviewer:
2nd Reviewer:

All circled dates have exceeded the technical holding times.
Y N N/A Were all cooler temperatures within validation criteria?

METHOD : HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

Sample ID	Matrix	Preserved	Sampling Date	Extraction date	Analysis date	Total # of Days	Qualifier
1	S	N	12-23-05	1-24-06	1-27-06	32	J/UJ/R

TECHNICAL HOLDING TIME CRITERIA

EXTRACTABLES

Water: Extracted within 30 days, analyzed within 45 days.
Soil: Extracted within 30 days, analyzed within 45 days.

Laboratory Data Consultants, Inc.
Data Validation Report

Project/Site Name:	Correia Middle School
Collection Date:	December 19, 2005
LDC Report Date:	February 9, 2006
Matrix:	Soil
Parameters:	Dioxins/Dibenzofurans
Validation Level:	EPA Level III
Laboratory:	Calscience Environmental Laboratories, Inc./Frontier Analytical Laboratory
Sample Delivery Group (SDG):	05-12-1164/3655

Sample Identification

NM-B26 (7-8)

Introduction

This data review covers one soil sample listed on the cover sheet including dilutions and reanalysis as applicable. The analyses were per EPA SW 846 Method 8290 for Polychlorinated Dioxins/Dibenzofurans.

This review follows USEPA Contract Laboratory Program National Functional Guidelines for Polychlorinated Dioxins/Dibenzofurans Data Review (August 2002) as there are no current guidelines for the method stated above.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified a P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

Blank results are summarized in Section V.

Field duplicates are summarized in Section XIV.

Raw data were not reviewed for this SDG. The review was based on QC data.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected at or above the stated limit.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

N Presumptive evidence of presence of the constituent.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

A Indicates the finding is based upon technical validation criteria.

P Indicates the finding is related to a protocol/contractual deviation.

None Indicates the data was not significantly impacted by the finding, therefore qualification was not required.

I. Technical Holding Times

All technical holding time requirements were met.

The chain-of-custodies were reviewed for documentation of cooler temperatures. All cooler temperatures met validation criteria.

II. GC/MS Instrument Performance Check

Instrument performance was checked at the required daily frequency.

Retention time windows were established for all homologues. The chromatographic resolution between 2,3,7,8-TCDD and peaks representing any other unlabeled TCDD isomer was less than or equal to 25%.

III. Initial Calibration

A five point initial calibration was performed as required by the method.

Percent relative standard deviations (%RSD) were less than or equal to 20.0% for unlabeled compounds and less than or equal to 30.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

IV. Routine Calibration (Continuing)

Routine calibration was performed at the required frequencies.

All of the routine calibration percent differences (%D) between the initial calibration RRF and the routine calibration RRF were less than or equal to 20.0% for unlabeled compounds and less than or equal to 30.0% for labeled compounds.

The ion abundance ratios for all PCDDs and PCDFs were within validation criteria.

V. Blanks

Method blanks were reviewed for each matrix as applicable. No polychlorinated dioxin/dibenzofuran contaminants were found in the method blanks.

No field blanks were identified in this SDG.

VI. Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

VII. Laboratory Control Samples (LCS)

Laboratory control samples were reviewed for each matrix as applicable. The percent recoveries (%R) were within the QC limits.

VIII. Regional Quality Assurance and Quality Control

Not applicable.

IX. Internal Standards

All internal standard recoveries were within QC limits.

X. Target Compound Identifications

Raw data were not reviewed for this SDG.

XI. Compound Quantitation and CRQLs

The 2,3,7,8-TCDF confirmation was performed with the following exceptions:

Sample	Compound	Finding	Criteria	Flag	A or P
All samples in SDG 05-12-1164/3655	2,3,7,8-TCDF	2nd column confirmation was not performed for this compound.	2,3,7,8-TCDF must be confirmed on the 2nd column per the method.	None	P

Raw data were not reviewed for this SDG.

XII. System Performance

Raw data were not reviewed for this SDG.

XIII. Overall Assessment of Data

Data flags are summarized at the end of this report if data has been qualified.

XIV. Field Duplicates

No field duplicates were identified in this SDG.

Correia Middle School
Dioxins/Dibenzofurans - Data Qualification Summary - SDG 05-12-1164/3655

SDG	Sample	Compound	Flag	A or P	Reason
05-12-1164/3655	NM-B26 (7-8)	2,3,7,8-TCDF	None	P	Compound quantitation and CRQLs

Correia Middle School
Dioxins/Dibenzofurans - Laboratory Blank Data Qualification Summary - SDG 05-12-1164/3655

No Sample Data Qualified in this SDG

Correia Middle School
Dioxins/Dibenzofurans - Field Blank Data Qualification Summary - SDG 05-12-1164/3655

No Sample Data Qualified in this SDG

EPA Method 8290
PCDD/F

FRONTIER ANALYTICAL LABORATORY

FAL ID: 3655-001-SA
Client ID: NM-B26 (7-8)
Matrix: Solid
Batch No: X0746

Date Extracted: 12-28-2005
Date Received: 12-22-2005
Amount: 10.01 g
% Solids: 84.40

ICal: PCDDFAL1-8-30-05
GC Column: DB5
Units: pg/g

Acquired: 01-05-2006
WHO TEQ: 1.34

Compound	Conc	DL	Qual	WHO Tox	Compound	Conc	DL	Qual	#Hom
2,3,7,8-TCDD	-	0.273		-					
1,2,3,7,8-PeCDD	-	0.340		-					
1,2,3,4,7,8-HxCDD	-	0.408		-					
1,2,3,6,7,8-HxCDD	1.02	-	J	0.102	Total Tetra-Dioxins	5.50	-		5
1,2,3,7,8,9-HxCDD	0.886	-	J	0.0886	Total Penta-Dioxins	4.50	-		3
1,2,3,4,6,7,8-HpCDD	7.06	-		0.0706	Total Hexa-Dioxins	9.77	-		5
OCDD	24.3	-		0.002430	Total Hepta-Dioxins	12.6	-		2
2,3,7,8-TCDF	0.988	-		0.0988					
1,2,3,7,8-PeCDF	0.735	-	J	0.0368					
2,3,4,7,8-PeCDF	1.12	-	J	0.560					
1,2,3,4,7,8-HxCDF	1.05	-	J	0.105					
1,2,3,6,7,8-HxCDF	0.881	-	J	0.0881					
2,3,4,6,7,8-HxCDF	1.25	-	J	0.125					
1,2,3,7,8,9-HxCDF	-	0.176		-	Total Tetra-Furans	22.8	-		17
1,2,3,4,6,7,8-HpCDF	5.50	-		0.0550	Total Penta-Furans	12.1	-		10
1,2,3,4,7,8,9-HpCDF	0.375	-	J	0.00376	Total Hexa-Furans	9.84	-		7
OCDF	1.98	-	J	0.000198	Total Hepta-Furans	8.07	-		4

Internal Standards	% Rec	QC Limits	Qual
13C-2,3,7,8-TCDD	82.2	40.0 - 135	
13C-1,2,3,7,8-PeCDD	78.9	40.0 - 135	
13C-1,2,3,4,7,8-HxCDD	67.2	40.0 - 135	
13C-1,2,3,6,7,8-HxCDD	73.8	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDD	69.5	40.0 - 135	
13C-OCDD	55.4	40.0 - 135	
13C-2,3,7,8-TCDF	85.1	40.0 - 135	
13C-1,2,3,7,8-PeCDF	88.8	40.0 - 135	
13C-2,3,4,7,8-PeCDF	88.5	40.0 - 135	
13C-1,2,3,4,7,8-HxCDF	89.5	40.0 - 135	
13C-1,2,3,6,7,8-HxCDF	83.4	40.0 - 135	
13C-2,3,4,6,7,8-HxCDF	77.5	40.0 - 135	
13C-1,2,3,7,8,9-HxCDF	89.3	40.0 - 135	
13C-1,2,3,4,6,7,8-HpCDF	78.4	40.0 - 135	
13C-1,2,3,4,7,8,9-HpCDF	96.6	40.0 - 135	
13C-OCDF	68.5	40.0 - 135	

Cleanup Surrogate		
37Cl-2,3,7,8-TCDD	95.8	50.0 - 150

Analyst: [signature]
Date: 1/6/06

Reviewed By: [signature]
Date: 1/6/06

[signature] 1/9/06

LDC #: 14589G21 **VALIDATION COMPLETENESS WORKSHEET** Date: 2/8/06

SDG #: 05-12-1164/3655 Level III Page: 1 of 1

Laboratory: Calscience Environmental Laboratories, Inc./FrontierAnalytical Laboratory Reviewer: 9

2nd Reviewer: 8

METHOD: HRGC/HRMS Dioxins/Dibenzofurans (EPA SW 846 Method 8290)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Technical holding times	A	Sampling dates: 12/19/05
II.	HRGC/HRMS Instrument performance check	A	
III.	Initial calibration	A	
IV.	Routine calibration	A	
V.	Blanks	A	
VI.	Matrix spike/Matrix spike duplicates	N	client specified.
VII.	Laboratory control samples	A	LCS
VIII.	Regional quality assurance and quality control	N	
IX.	Internal standards	A	
X.	Target compound identifications	N	
XI.	Compound quantitation and CRQLs	N	no confirmation for 2,3,7,8-TCDF-None/P
XII.	System performance	N	
XIII.	Overall assessment of data	A	
XIV.	Field duplicates	N	
XV.	Field blanks	N	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank

Validated Samples:

1	NM-B26 (7-8) S	11		21		31	
2	3655-001-MB	12		22		32	
3		13		23		33	
4		14		24		34	
5		15		25		35	
6		16		26		36	
7		17		27		37	
8		18		28		38	
9		19		29		39	
10		20		30		40	

Notes: