VISTA ENVIRONMENTAL CONSULTING

Hazardous Materials Survey & Soils Screening Report
Harder Elementary School
495 Wyeth Rd, Hayward, California

Prepared for:

c/o Vanir Construction Management, Inc.
HUSD Measure L Bond Program
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EXECUTIVE SUMMARY

Vista Environmental Consulting (Vista) performed a pre-demolition hazardous materials survey at Harder Elementary School located at 495 Wyeth Rd, Hayward, California. The survey was performed to identify and sample accessible suspect asbestos-containing materials, to identify representative building components for the presence of lead-containing surface coatings/lead-based paints (LCSC/LBP), and to visually identify universal waste (UW) materials, polychlorinated biphenyls (PCBs) containing devices, devices which contain ozone depleting chemicals, and other hazardous materials in the path of construction. Vista also sampled soil to screen for Naturally Occurring Asbestos (NOA), Title 22 Metals, Total Petroleum Hydrocarbons (TPH), Volatile Organic Compounds (VOC), Semi-Volatile Organic Compounds (SVOC), Organochlorine Pesticides (OCP) and Polychlorinated Biphenyls (PCBs). Vista performed the hazardous materials survey and soil sampling on August 10 to 12 and 15, 2016.

The following buildings were surveyed and contain the following hazardous materials:

Building	Asbestos	Lead-Based Paint	Universal Waste	Suspect PCBs
Ball Field	No	No	No	No
Classrooms 9 to 15	☑	☑	☑	☑*
Main Building	☑	☑	☑	☑
P16	No	No	☑	☑
P16A	☑	No	☑	☑
P17	☑	No	☑	☑
P18	☑	No	☑	☑
P19	No	No	☑	☑
P20	No	No	☑	☑
P21	No	No	☑	☑
P22	No	No	☑	☑
P23	☑	No	☑	☑
P24	No	No	☑	☑
P25	No	No	☑	☑
P26	No	No	☑	☑
P27	No	No	☑	☑
P28	No	No	☑	☑
P29	No	No	☑	☑
P30	No	No	☑	☑
P31	No	No	☑	☑
P32	No	No	☑	☑
P33	No	No	☑	☑
P34	No	No	☑	☑
P35	No	No	☑	☑
P36	No	No	☑	☑

Building	Asbestos	Lead-Based Paint	Universal Waste	Suspect PCBs
P37	No	No	☑	☑
Portable Restrooms	No	No	☑	☑
Site	☑	No	No	No

* Window Frame Sealants contain 0.54 mg/kg PCBs.

The Hazardous Materials Summary, Asbestos Sampling Inventory, Sample and Asbestos-Containing Materials Location Drawings, Asbestos Analytical Reports, Photo Documentation (If Applicable), Lead XRF Sequential Reports, and PCBs Analytical Reports (If Applicable) can be found in Appendix A – Building Data. The buildings are listed in alphanumeric order.

All asbestos (>0.1%) disturbance and/or removal operations must be conducted by a Cal/OSHA registered and State licensed asbestos removal contractor. All disturbance and/or abatement operations should be under the direction of a California Certified Asbestos Consultant.

Should the removal of identified regulated asbestos-containing materials (RACM) involve at least 100 square feet or 100 linear feet per project site, per year, then notification to BAAQMD and Cal/OSHA must be accomplished prior to the initiation of such activities.

All activities involving potential and identified lead-containing surfaces should be conducted in accordance with California Health & Safety Code sections 17920.10 and 10525, 10525.7, Title 8, California Code of Regulations (CCR), Section 1532.1.

In addition, all removal activities involving identified lead-based paints (LBP) must be conducted in accordance with Title 17, CCR, Division 1, Chapter 8, Sections 35001 through 36100, which prescribes the use of California Department of Public Health (CDPH) certified workers, work practices, and other requirements.

Written notification to Cal/OSHA must be accomplished should LBP activities involve equal to or more than 100 square feet or 100 linear feet of removal in accordance with the requirements of 8 CCR 1532.1.

Any welding, cutting or heating of metal surfaces containing surface coatings should be conducted in accordance with 8 CCR 1537 Welding, Cutting, and Heating of Coated Metals, which require surfaces covered with toxic preservatives, and in enclosed areas, be stripped of all

toxic coatings for a distance of at least 4 inches, in all directions, from the area of heat application prior to the initiation of such heat application, or 8 CCR 1536 Ventilation Requirements for Welding, Brazing, and Cutting.

All potential and identified Universal Waste materials (UW) impacted by the work should be removed and recycled or disposed of in accordance with the UW guidelines established by the DTSC, as stated in 22 CCR Sections 66261.9 and 66273.1 thru 66273.90.

All ballasts must be visually inspected prior to disposal to determine if they contain PCB's. Those ballasts marked No PCB's or PCB Free can be considered as such and should be treated as UW - electronic waste. All PCB-containing devices, including, but not limited to ballasts should be removed or have the oils removed and properly handled, collected, stored, transported and recycled or disposed of by an approved recycling or disposal facility in accordance with the requirements of Title 22 CCR 67426.1.

When removing PCBs containing caulking and cleaning the surrounding area it is important to manage the removal in a way that minimizes worker exposure to the PCBs (e.g., respirators, suits, gloves, etc.) and prevents the release of PCBs into the environment.

All PCBs should properly handled, collected, stored, transported and incinerated or disposed of by an approved incineration or disposal facility in accordance with the requirements of Title 40, CFR Part 761--Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution In Commerce, And Use Prohibitions and Title 22 CCR 67426.1. PCBs sealant wastes identified as regulated wastes shall be disposed of in a licensed waste disposal site permitted to receive wastes of the identified concentrations.

Devices containing ozone depleting chemicals, petroleum or other chemicals, should be collected, waste characterized, disposed or recycled according to California rules and regulations.

Soil

Location (Type)	Depth	Exceeds Residential ESLs?	Exceeds Worker Exposure ESLs?	Exceeds T22 Disposal Level or Needs Additional Analysis?
Section 1: East Side, North (Discrete)	0-6”	☑	☑	No
Section 2: East Side, South (Discrete)	0-6”	☑	☑	No
Section 3: South Side, East (Discrete)	0-6”	☑	☑	☑
Section 4: South Side, Central (Discrete)	0-6”	☑	☑	☑
Section 5: West Side, Ball Field (Discrete)	0-6”	☑	☑	No
Section 6: West Side, North (Discrete)	0-6”	☑	☑	☑
Section 7: North Side, Central (Discrete)	0-6”	☑	☑	No
Section 8: Main Building, Drip Line (Four Point Composite)	0-6”	☑	☑	No
Section 9: CW 9-15, Drip Line (Four Point Composite)	0-6”	☑	☑	☑

The Soil Sampling Summary, Soil Sampling Location Drawings, and Soil Sampling Analytical Results can be found in *Appendix B – Soil Data.*

All personnel who perform hazardous materials work must be trained and qualified to do so. They must also follow the most current OSHA regulations including 29 CFR 1910.120 and 8 CCR 5192, Hazardous Waste Operations and Emergency Response, as well as other applicable federal, state and local laws and regulations.

Waste stream segregation and analysis is required in accordance with 22 CCR Division 4.5, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes. The resulting wastes may be hazardous under California and federal RCRA standards for metals and therefore require proper handling, packaging, labeling, and transportation under a proper manifest to a permitted hazardous waste storage, treatment and disposal facility. The contractor should contact the waste disposal site(s) for specific waste characterization testing requirements.

The documents found in the appendices are not stand-alone documents and should not be separated from this report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction

through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

Should materials similar to those identified in this report, or if other forms of suspect hazardous materials are encountered, contractors should be instructed to immediately cease work activities which may initiate an exposure episode, and notify the appropriate management personnel.

Report prepared for the Company by:

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CAC #92-0224
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1.0 INTRODUCTION

Vista Environmental Consulting (Vista) performed a pre-demolition hazardous materials survey and soil screening sampling at Harder Elementary School located at 495 Wyeth Rd, Hayward, California.

The purpose of this survey was to identify hazardous building materials so they could be removed; waste characterized, and properly disposed of prior to being impacted by demolition activities. The data provided in this report can assist all parties involved in this project make informed decisions regarding regulatory compliance and the health and safety of their employees. This survey included the following:

- Visible and accessible suspect asbestos-containing materials (ACM) were assessed and sampled to determine asbestos content.
- Representative painted and coated building components were assessed and categorized based upon standard selective demolition practices and sampled for lead content which can be used in preliminary waste stream characterization estimates and for worker protection.
- Visible and accessible materials commonly found in buildings which can potentially have hazardous properties that are regulated were assessed, but not sampled. These materials include, but are not limited to:
    - Universal Waste (UW) materials, such as non-incandescent lamps, batteries, mercury-containing devices, and electronic waste; Batteries include, but are not limited to those found in exit signs, emergency lights, fire alarm systems, and back-up power systems.
    - Polychlorinated biphenyls (PCBs) containing devices such as lamp ballasts, wet-type transformers, and hydraulic systems;
    - Devices which may contain ozone depleting chemicals, such as Heating, Ventilation and Air Conditioning (HVAC) systems, refrigerators, freezers, fire suppression systems and water coolers/fountains.
- Representative suspect PCB solids (Caulking and Sealants) were assessed and sampled.

The purpose of the soil sampling and analysis program was to collect analytical data on soil at the Project Site to check for the presence of hazardous materials in areas where grading or trenching may occur. The soil sampling program consisted of collecting a single (4)-point composite soil sample from the drip line of both the Main Building and Classroom Wing 9 to 15

and seven discrete samples from random soil areas within the Project Site. Soil samples and sub-samples were collected from 0 – 0.5 feet below ground surface (bgs) at each boring location. For the purposes of this program, ground surface was defined as the surface of soil immediately underneath any overlying organic matter (e.g., grass). This layer was removed before commencing soil boring activities.

2.0 METHODOLOGY

Vista performed the hazardous materials survey on August 10 to 12 and 15, 2016. The asbestos survey was conducted by Christopher Burns, a State of California Division of Occupational Safety and Health (Cal/OSHA) Certified Asbestos Consultant (#92-0224). Javier Rocha, a Cal/OSHA Certified Site Surveillance Technician (#02-3244), assisted on the survey. The lead paint screening survey was conducted by Christopher Burns, who has a Lead-Related Construction Certificate (#I-663) as an Inspector/Assessor issued by the State of California Department of Public Health (CDPH). Suspect PCB containing materials and soils were sampled by Javier Rocha who is Hazardous Waste Operations and Emergency Response (HAZWOPER) trained.

The survey was not intrusive in nature and did not include access of areas and sampling of materials which would have required demolition or large scale destructive testing. Vista's intent was to perform a thorough survey. A good faith effort was made to access all building materials down to the structural components and/or interstitial spaces. Energized mechanical equipment was deemed inaccessible at the time of this survey.

Different types of fire doors were checked as part of this survey, however not all doors were checked, and/or sampled. Vista recommends that all doors are checked prior to demolition for suspect asbestos-containing materials not addressed in this report.

Quantities and locations are based upon areas that were accessed. Materials similar to those in this report may be present in areas which were not accessed.

Sub-surface areas were not included as part of this survey, hence no excavation was conducted to discover buried asbestos utility piping concealed below the surface. The project site was not assessed for the presence of Naturally Occurring Asbestos in the soil.

2.1 *Asbestos*

The asbestos survey was performed generally in accordance with the AHERA protocol (40 CFR Part 763, Subpart E). Visual identification was performed by assessing visible and accessible structural, architectural, and mechanical components for the presence of suspect ACM at the Project Site.

This limited ACM survey was conducted in the following manner:

- Suspect ACM was categorized into homogeneous materials. A homogeneous material is defined as being a surfacing material, thermal system insulation, or miscellaneous material which is uniform in color and texture. It may also be additionally subcategorized using the date of installation, when available.
- A sampling scheme was developed based upon the location and quantity of the suspect homogeneous ACM. A rough order of magnitude estimate of each suspect homogenous ACM was calculated and recorded for future reference. A sampling scheme, including a specific number of samples per suspect homogeneous ACM, was calculated prior to sampling.
- Sampling guidelines established by the United States Environmental Protection Agency (USEPA) were utilized for sampling each suspected homogeneous ACM. Methods described in Appendix K of 8 California Code of Regulation (CCR) 1529 were utilized in the collection of each suspect homogeneous ACM sample.
- Trained California asbestos certified personnel, using appropriate sampling tools and leak-tight closable bags, collected building materials that were suspected to contain ACM.
- Each suspect ACM sample was collected and sealed in its container and appropriately labeled with a unique sample identification number and recorded on an asbestos bulk sampling log. Each log contains a chain-of-custody to assure the proper transition of the samples from Vista to the analytical laboratory.
- Sampling tools were decontaminated, by using a clean wet cloth, between the collection of each suspect sample to prevent the possibility of cross contamination of subsequent suspect ACM samples.

Suspect ACM samples were delivered under proper chain-of-custody protocol to Forensic Analytical Laboratories (FAL) in Hayward, California. Forensic Analytical Laboratories is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP) and the

California Environmental Laboratory Accreditation Program (Cal-ELAP). The samples were submitted for analysis by Polarized Light Microscopy (PLM) utilizing dispersion staining techniques in accordance with the EPA's "Method for the Determination of Asbestos in Bulk Building Materials" U.S. EPA/600/R-93/116, Visual Area Estimate, dated July 1993 and adopted by the NVLAP as Test Method Code 18/A01.

Representative samples of "trace" asbestos materials were further analyzed by 400-point bulk asbestos point count utilizing National Emission Standards for Hazardous Air Pollutants (NESHAP) Final Rule, 40 CFR, Part 61 methodology.

2.2 *Lead*

Vista's lead construction screening survey used an X-Ray Fluorescence (XRF) direct read spectrum analyzer device to take readings of representative painted and coated surfaces for evaluation of lead levels for worker health and safety and preliminary waste characterization prior to construction activities. The device was a NITON Corporation XRF Spectrum Analyzer, Model XLp- 300 A. This device is a solid-state detector optimized for lead L-shell and K-shell X-ray detection and uses a 40 mCi 109Cd (1,480 Mbq) isotope for an excitation source.

This survey was a limited screening for the purpose of characterizing the lead content in paint and coatings likely to be disturbed during work activities. For this purpose, XRF analysis was used to screen for lead levels and provides results that are generally representative of typical conditions but are not inclusive of all painted/coated surfaces present at the Project Site. This survey was not a surface by surface inspection as outlined in the U.S. Department of Housing and Urban Development (HUD) Guidelines For the Evaluation and Control of Lead-Based Paint Hazards in Housing pursuant to Title X of the Housing and Community Development Act of 1992. This analytical data can be helpful in evaluation of lead-related environmental risks in general, but cannot be used to calculate worker exposures and is not a substitute for employee exposure monitoring or waste stream sampling.

Lead-Based Paint (LBP) is defined by CDPH as any paint containing lead levels exceeding 0.5 wt % (or 5000 parts per million) via paint chip sampling or 1.0 milligrams per centimeter squared (mg/cm^2) or greater via X-Ray Fluorescence (XRF) direct read instrument sampling. Cal/OSHA rules apply to "any detectable concentration of lead" without a specified detection level.

2.3 *Devices with Potential Hazardous Materials*

Devices with potential hazardous materials were visually identified during the survey walk through and their quantities were estimated and recorded. No attempt was made to disassemble devices or sample suspect materials within the devices. For example, fluorescent light fixtures must be presumed to contain Universal Waste lamps and ballasts which contain PCB oil or are electronic waste, pending removal and disassembly of each unit to determine explicit product specific information that proves otherwise.

2.4 *Polychlorinated biphenyls (PCBs)*

Vista's PCBs sampling of suspect materials used the following documents for reference: Title 40, CFR Part 761-Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution In Commerce, And Use Prohibitions, United States Environmental Protection Agency (EPA), 7-1-11 Edition (40 CFR 761), Region 1, Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCB), May 2011 and Wipe Sampling And Double Wash/Rinse Cleanup As Recommended By The Environmental Protection Agency PCB Spill Cleanup Policy, June 23, 1987, Revised and Clarified on April 18, 1991 and Region 1, Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls (PCB), May 2011.

Proper personal protective clothing and Nitrile gloves were worn during all sampling. Sealant samples were collected using a metal chisel or sharp cutting knife from a depth of 0 - 0.5 inches. The sample wounds were patched with an approved sealant.

All samples were delivered, under proper chain-of-custody protocol, to Test America Laboratories, Inc., 1220 Quarry Lane, Pleasanton, California. Samples analyzed for PCBs by EPA Method 8082 using gas chromatography.

2.5 *Soil*

All sampling tools were cleaned with a water/alconox solution and then rinsed with deionized water prior to use at each discrete sampling location. Sampling staff donned new nitrile gloves before commencing soil sampling activities at each sampling location and a second set of new nitrile gloves were donned prior to actual soil sample collection at each depth interval.

At each of the nine locations, the following soil sampling regimen was followed:

- Overlying vegetation was removed prior to soil boring and soil sample collection activities;
- A hand auger was utilized to remove soil cores at locations within a Section for discrete samples and at each of 4 sub-sampling locations for composites;
- All soil samples and sub-samples were collected from ground surface to 0.5 feet bgs. Sub-samples were placed in a bucket where they were composited;

Soil samples were then placed into stainless steel tubes and the ends of the sample tubes were preserved by covering each end with Teflon® film and plastic end caps to provide a seal. Each sample tube was labeled with a unique name and the date of collection, sealed in a plastic bag, and placed into an ice-cooled chest.

Soil samples were collected and analyzed for the following:

- CAM 17 Metals (Title 22) by USEPA Method 6010B and 7471A; and
- Organochlorine Pesticides by USEPA Method 8081A; and
- Volatile Organic Compounds by USEPA Method 8260B; and
- Semi-volatile Compounds by USEPA Method 8260C; and
- Diesel Range Organics by USEPA Method 8015B ; and
- Polychlorinated Biphenyls by USEPA Method 8082.

All soil samples were analyzed by Test America Laboratories, Inc. California certified (#2496) laboratory located at 1220 Quarry Lane, Pleasanton, CA 94566.

For purposes of comparison, all soil results were compared to the following regulatory agency comparison criteria:

- California Regional Water Quality Control Board – San Francisco Bay Region Environmental Screening Levels, Summary Table S-1. February 2016, Rev. 3, (ESLs); and
- Title 22 CCR Division 4.5, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes.

3.0 RESULTS

The following buildings were surveyed and contain the following hazardous materials:

Building	Asbestos	Lead-Based Paint	Universal Waste	Suspect PCBs
Ball Field	No	No	No	No
Classrooms 9 to 15	☑	☑	☑	☑*
Main Building	☑	☑	☑	☑
P16	No	No	☑	☑
P16A	☑	No	☑	☑
P17	☑	No	☑	☑
P18	☑	No	☑	☑
P19	No	No	☑	☑
P20	No	No	☑	☑
P21	No	No	☑	☑
P22	No	No	☑	☑
P23	☑	No	☑	☑
P24	No	No	☑	☑
P25	No	No	☑	☑
P26	No	No	☑	☑
P27	No	No	☑	☑
P28	No	No	☑	☑
P29	No	No	☑	☑
P30	No	No	☑	☑
P31	No	No	☑	☑
P32	No	No	☑	☑
P33	No	No	☑	☑
P34	No	No	☑	☑
P35	No	No	☑	☑
P36	No	No	☑	☑
P37	No	No	☑	☑
Portable Restrooms	No	No	☑	☑
Site	☑	No	No	No

* Window Frame Sealants contain 0.54 mg/kg PCBs.

The Hazardous Materials Summary, Asbestos Sampling Inventory, Sample and Asbestos-Containing Materials Location Drawings, Asbestos Analytical Reports, Photo Documentation (If Applicable), Lead XRF Sequential Reports, and PCBs Analytical Reports (If Applicable) can be found in Appendix A – Building Data. The buildings are listed in alphanumeric order.

Soil

Location (Type)	Depth	Exceeds Residential ESLs?	Exceeds Worker Exposure ESLs?	Exceeds T22 Disposal Level or Needs Additional Analysis?
Section 1: East Side, North (Discrete)	0-6”	☑	☑	No
Section 2: East Side, South (Discrete)	0-6”	☑	☑	No
Section 3: South Side, East (Discrete)	0-6”	☑	☑	☑
Section 4: South Side, Central (Discrete)	0-6”	☑	☑	☑
Section 5: West Side, Ball Field (Discrete)	0-6”	☑	☑	No
Section 6: West Side, North (Discrete)	0-6”	☑	☑	☑
Section 7: North Side, Central (Discrete)	0-6”	☑	☑	No
Section 8: Main Building, Drip Line (Four Point Composite)	0-6”	☑	☑	No
Section 9: CW 9-15, Drip Line (Four Point Composite)	0-6”	☑	☑	☑

The Soil Sampling Summary, Soil Sampling Location Drawings, and Soil Sampling Analytical Results can be found in *Appendix B – Soil Data.*

The documents found in the appendices are not stand-alone documents and should not be separated from this report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner’s representative, prior to bidding.

4.0 RECOMMENDATIONS

4.1 *Asbestos*

Work performed during any activities that disturb the asbestos-containing materials identified in this report must be done in compliance with the most recent edition of all applicable federal,

state, and local regulations, standards, and codes governing abatement, transport, and disposal of asbestos-containing materials. These include, but are not limited to, the following:

- CCR, Title 8, Chapter 3.2, Subchapter 2, Article 2.5 - Registration Asbestos-Related Work Sections 341.6 through 341.14
- CCR, Title 8, Section 1529 - Asbestos in the Construction Industry
- BAAQMD Regulation 11, Hazardous Pollutants, Rule 2, Asbestos Demolition, Renovation and Manufacturing
- 40 CFR Part 763 - Subpart E, Asbestos Containing Materials in Schools (AHERA)

Materials encountered that are not part of this report must be properly sampled for the content of asbestos or assumed to be asbestos containing prior to any disturbance.

Prior to activities which will disturb identified or assumed asbestos, a Cal/OSHA registered and California licensed asbestos contractor must be utilized for abatement of asbestos that will be impacted. Vista recommends that all abatement operations be conducted under the direction of a California Certified Asbestos Consultant.

4.2 *Lead*

At present there is no state or federal regulation requiring mandatory lead removal or abatement prior to disturbance of building materials with identified lead paint or coatings. However, there are applicable Cal/OSHA worker protection and training requirements, Cal/EPA waste disposal requirements, CDPH requirements for public and residential buildings, and SB 460 lead hazard regulations that apply to lead-related construction activities, abatement activities and their associated wastes. The following is a brief discussion and summary of applicable regulatory requirements:

♦ **Cal/OSHA:** Title 8, California Code of Regulation (CCR), Section 1532.1 (8 CCR 1532.1) governs occupational exposure to lead. This regulation requires that prior to initiation of certain activities, referred to as “trigger tasks”, workers must be trained, medically evaluated, and properly fitted with respiratory protection, and protective clothing until statistically reliable personal eight-hour time weighted average (TWA) results indicate lead exposure levels below the Personal Exposure Limit (PEL) for each unique task which disturbs lead-based and lead-containing coatings. This process is known as a Negative Exposure Assessment or NEA.

If the result of the exposure assessment is above the Action Level (AL) additional monitoring is required and if the result is above the PEL additional exposure monitoring, worker protection (including respirator protection and PPE), training and medical requirements apply. However even where the NEA criteria is met, certain hazard communication training and work practice controls still apply where lead is disturbed. "Trigger tasks" are tasks that are assumed to exceed the PEL pending an exposure assessment and they encompass the majority of construction activities that disturb surface coatings. Examples of "trigger" tasks range from manual paint scraping as a lower expected exposure up to hot work and abrasive blasting as the highest expected exposures, and include any non-listed task that the employer determines may potentially expose employees to lead levels above the AL.

"OSHA does not consider any method that relies solely on the analysis of bulk materials or surface content of lead (or other toxic material) to be acceptable for safely predicting employee exposure to airborne contaminates. Without air monitoring results or without the benefit of historical or objective data (including air sampling which clearly demonstrates that the employee can not be exposed above the action level during any process, operation, or activity) the analysis of bulk or surface samples can not be used to determine employee exposure."- OSHA Standard Interpretation May 8, 2000.

OSHA states that these rules apply to "any detectable concentration of lead" without a specified detection level. Due to the Consumer Product Safety Commission currently allowing paint to contain up to 90 parts per million (ppm) or 0.009 wt% of lead, the variation of lead content due to aging and weathering, and the variation of detection limits associated with analysis of bulk materials, such as paint chips and surface content analysis via XRF, it is recommended that all painted or coated surfaces be treated as potentially containing lead. Positive analytical results by either method can be used to indicate that detectable lead is present but negative results cannot be interpreted as conclusively demonstrating the absence of lead.

Analytical data from analysis of bulk materials or surface content of lead can be helpful in evaluation of lead-related environmental risks in general but cannot be used to calculate worker exposures and are not a substitute for employee exposure monitoring. As a result of the above, any employee that works around potential lead-based or lead-containing coatings must have HAZCOM training and personal exposure air monitoring is additionally required for employees that disturb such coatings. Significant additional certification, notification, and work practices are required for materials found to be lead-based.

Any welding, cutting or heating of metal surfaces containing surface coatings should be conducted in accordance with 29 CFR 1926.354 and 8 CCR 1537. These regulations require surfaces covered with toxic preservatives, and in enclosed areas, be stripped of all toxic coatings for a distance of at least 4 inches, in all directions, from the area of heat application prior to the initiation of such heat application.

♦ **Cal/EPA** through the Division of Toxic Substance Control (DTSC) regulates disposal of lead hazardous waste (22 CCR Division 4.5, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes). DTSC has issued guidance indicating that architectural debris with intact lead paint is normally expected to be handled as general construction waste. However, waste stream segregation and analysis is still required for all lead painted or coated debris regardless if the paint or coating is intact on a building component or not. The resulting wastes may be hazardous under California and federal RCRA standards for lead and therefore require proper handling, packaging, labeling, and transportation under a proper manifest to a permitted hazardous waste storage, treatment and disposal facility.

♦ **CDPH**: The Department of Public Health (CDPH) has specific requirements (Title 17 Sections 35001 thru 36100 et. al.) for hazard assessment and work in public or residential structures in regards to lead-based paint. These regulations require special certifications, work practices, and notify cation for such activities.

♦ **Senate Bill 460 (SB 460)**: An act to amend Section 1941.1 of the Civil Code, and to amend Sections 17961, 17980, and 124130 of, and to add Sections 17920.10, 105251, 105252, 105253, 105254, 105255, 105256, and 105257 to, the Health and Safety Code, relating to lead abatement. This bill allows for fines and criminal penalties to be levied on any person who is found to have performed lead abatement without containment or created a measurable “lead hazard” based upon current CDPH standards. A “lead hazard” means deteriorated lead-based paint, lead contaminated dust, lead contaminated soil, disturbing lead-based paint or presumed lead-based paint without containment, or any other nuisance which may result in persistent and quantifiable lead exposure.

Vista recommends that all parties that come into contact with paint and dust that has detectable lead content follow all applicable federal, state and local regulations relating to employee health and safety and proper disposal of generated wastes.

4.3 *Devices with Potential Hazardous Materials*

All potential and identified Universal Waste materials (UW) impacted by the work should be removed and recycled or disposed of in accordance with the UW guidelines established by the DTSC, as stated in 22 CCR Sections 66261.9 and 66273.1 thru 66273.90.

Vista's limited visual survey indicated that light fixtures with ballasts that may contain PCB oil are present. However, due to the limited nature of the random spot checks, Vista recommends that all ballasts be visually inspected prior to disposal to determine if they contain PCB's. Those ballasts marked No PCB's or PCB Free can be considered as such as should be treated as UW - electronic waste.

All PCB-containing devices, including, but not limited to ballasts and transformers should be removed or have the oils removed and properly handled, collected, stored, transported and recycled or disposed of by an approved recycling or disposal facility in accordance with the requirements of Title 22 CCR 67426.1.

Devices containing ozone depleting chemicals, petroleum or other chemicals, should be collected, waste characterized, disposed or recycled according to California rules and regulations.

4.4 PCBs

When removing PCBs containing caulking and cleaning the surrounding area it is important to manage the removal in a way that minimizes worker exposure to the PCBs (e.g., respirators, suits, gloves, etc.) and prevents the release of PCBs into the environment.

All PCBs should properly handled, collected, stored, transported and incinerated or disposed of by an approved incineration or disposal facility in accordance with the requirements of Title 40, CFR Part 761--Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution In Commerce, And Use Prohibitions and Title 22 CCR 67426.1. PCBs sealant wastes identified as regulated wastes (>1 mg/kg but <50 mg/kg) shall be disposed of in a licensed waste disposal site permitted to receive wastes of the identified concentrations.

4.5 *Soil*

All personnel who perform hazardous materials work must be trained and qualified to do so. They must also follow the most current OSHA regulations including 29 CFR 1910.120 and 8 CCR 5192, Hazardous Waste Operations and Emergency Response, as well as other applicable federal, state and local laws and regulations.

Analytical data from analysis of bulk materials can be helpful in evaluation of environmental risks in general but cannot be used to calculate worker exposures and are not a substitute for employee exposure monitoring required by law.

Waste stream segregation and analysis is required in accordance with 22 CCR Division 4.5, Minimum Standards for Management of Hazardous and Extremely Hazardous Wastes. The resulting wastes may be hazardous under California and federal RCRA standards for metals and therefore require proper handling, packaging, labeling, and transportation under a proper manifest to a permitted hazardous waste storage, treatment and disposal facility. The contractor should contact the waste disposal site(s) for specific waste characterization testing requirements.

All personnel who perform hazardous materials work must be trained and qualified to do so. They must also follow the most current OSHA regulations including 29 CFR 1910.120 and 8 CCR 5192, Hazardous Waste Operations and Emergency Response, as well as other applicable federal, state and local laws and regulations.

5.0 LIMITATIONS & EXCLUSIONS

Quantities and locations are based upon areas that were accessed. Materials similar those in this report may be present in areas which were not accessed. Because of this, Vista recommends including line item pricing, allowances, and/or additive/deductive wording to bid sheets for unforeseen conditions.

All material quantities reported herein are rough order of magnitude estimates and should not be used for bidding purposes. All contractors are responsible for accurately determining quantities and locations of materials identified in this report.

The survey performed was limited to representative rooms/areas, was not intrusive in nature, and did not include access of areas and sampling of materials which would have required demolition or large scale destructive testing. Vista made a good faith effort based on accepted industry standards to access all areas in order to assess their potential for having hazardous materials.

Respectfully Submitted,
Vista Environmental Consulting

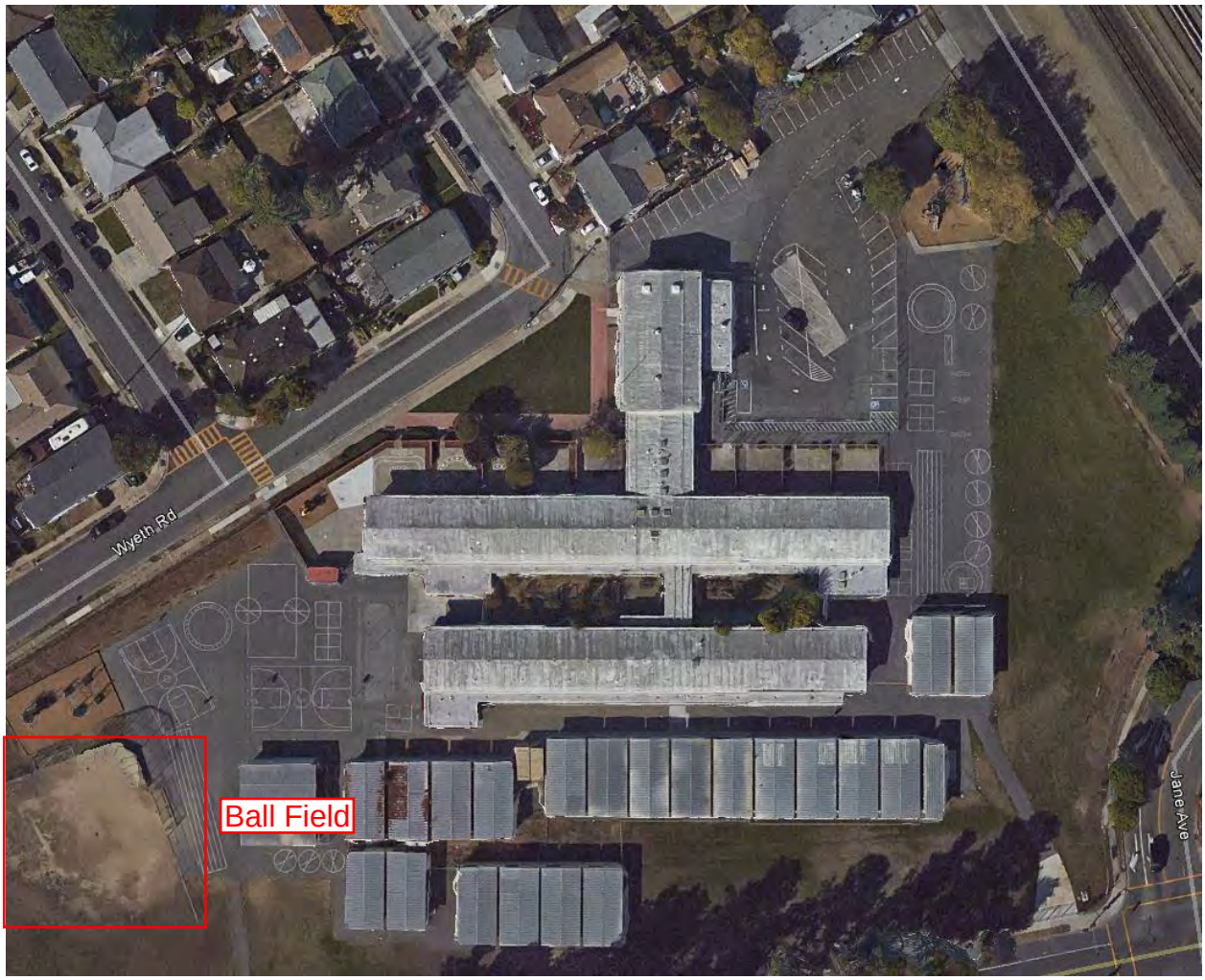
Reviewed and Approved

Christopher R. Burns
Senior Project Manager
CAC #92-0224
LRCIA #663

Charles R. Bove
Principal
CAC #92-0160

APPENDIX A - BUILDING DATA

Ball Field



The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

BALL FIELD
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 2 samples collected and analyzed

Lead-Based Paint and Materials

No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

No other hazardous materials were identified.

BALL FIELD
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Green, Wood	2

VISTA ENVIRONMENTAL CONSULTING

Asbestos Sample Location

Asbestos Material Location

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2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Ball Field

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226654
Date Received: 08/15/16
Date Analyzed: 08/19/16
Date Printed: 08/19/16
First Reported: 08/19/16

Job ID/Site: 160041001 - Harder Unified School District, Harder ES Site & Ballfield

Date(s) Collected: 08/15/2016

FALI Job ID: L1161
Total Samples Submitted: 2
Total Samples Analyzed: 2

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
BP-A01	11799924						
Layer: Green Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
BP-A02	11799925						
Layer: Green Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8-15-16

LOCATION: Harder ES Site & Ballfield

PROJECT NUMBER: 160041001

SAMPLED BY: CE

CAC OR SST NO: 16-3606

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
BP	A	01	Paint	green, Ext.		
BP	A	02	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS: * per client ok w/ 3 DAY TAT *

CHAIN OF CUSTODY:

1. [signature] TRANSFER SIGNATURE — Chris Elliott PRINTED NAME — 8-15-16 DATE/TIME

2. [signature] TRANSFER SIGNATURE — S. Hollistop PRINTED NAME — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

RECEIVED AUG 15 2016 (PL)

PAGE 1 OF 1

HUSD
Harder ES - Ball Field
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
117	BALL FIELD	INSIDE	BACKSTOP	WOOD	GREEN	INTACT	Negative	0.13	mg/cm^2
118	BALL FIELD	INSIDE	BACKSTOP	WOOD	GREEN	INTACT	Negative	0.15	mg/cm^2
119	BALL FIELD	INSIDE	BACKSTOP	WOOD	GREEN	INTACT	Negative	0.01	mg/cm^2
120	BALL FIELD	INSIDE	BACKSTOP	WOOD	GREEN	INTACT	Negative	0.01	mg/cm^2
121	BALL FIELD	INSIDE	BENCH	METAL	GREEN	INTACT	Negative	0.14	mg/cm^2
122	BALL FIELD	INSIDE	BENCH	METAL	GREEN	INTACT	Negative	0.16	mg/cm^2
123			CALIBRATE				Positive	1.1	mg/cm^2
124			CALIBRATE				Positive	1.1	mg/cm^2
125			CALIBRATE				Positive	1.1	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

CLASSROOM WING 9-15

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

CLASSROOM WING 9-15
HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY
O	Putty	White	Windows	Class II	Category II-Non-Friable	3,100 SF
S	Wallboard/Joint Compound	White/White	Classrooms 14 & 15	Class II	NA(Composite <1% by Point Count, Wallboard=ND, Joint Compound=2%)	2,675 SF
T	Sealant	Tan	Window Frames	Class II	Category I - Non-Friable	190 SF (2,280 LF)
AA	Paint/Plaster	White/Gray, Acoustic	Throughout Ceilings	Class I	Friable (RACM when Removed)	7,750 SF
GG	Mastic	Gray & Black	Roof – Patches & Penetrations	Class II	Category I-Non-Friable	60 SF
HH	Sealant	Gray	Fascia	Class II	Category I-Non-Friable	145 SF (868 LF)
II	Thermal System Insulation	4" OD Pipe & Fitting	Throughout Ceiling and Wall Voids	Class I	Friable (RACM when Removed)	775 LF

Lead-Based Paint and Materials

Reading No	Room	Component	Substrate	Color	Condition	Pb	Units
341	Outside	Column	Wood	Tan	Intact	3.6	mg/cm^2
343	Outside	Downspout	Metal	Tan	Intact	2.1	mg/cm^2
360	Outside	Window Frame	Wood	Tan	Intact	3.2	mg/cm^2
365	Outside	Fascia	Wood	Beige	Intact	4.2	mg/cm^2
371	Outside	Window Frame	Wood	Black	Intact	4.7	mg/cm^2
372	Outside	Window	Metal	Black	Intact	3.7	mg/cm^2
376	Outside	Overhang	Wood	Beige	Intact	1.7	mg/cm^2
377	Outside	Beam	Wood	Beige	Intact	1.5	mg/cm^2
384	Restrooms	Window Sill	Wood	Tan	Intact	2.1	mg/cm^2
402	Restrooms	Window Sill	Wood	Tan	Intact	1.1	mg/cm^2
410	Classrooms	Window	Metal	Tan	Intact	1.2	mg/cm^2

All remaining tested materials had lead concentrations in excess of the level for compliance with trigger activities, as defined in 8 CCR 1532.1.

CLASSROOM WING 9-15
HAZARDOUS MATERIALS SUMMARY

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	254
Light Fixture Ballasts	Polychlorinated Biphenyls	87
Compact Fluorescent	Universal Waste	18
Batteries: Emergency Lights & Exit Signs	Universal Waste	2
Smoke Detectors	Low-Level Radiation	2

Polychlorinated Biphenyls

Sample	Type	Analyte	Result	Units
CW9/15-SEAL01	Sealant	Aroclor-1254	0.53	mg/kg

PCBs detected at levels ≤ 50 mg/kg are not considered a “PCB Bulk Product Waste” according to Title 40, CFR Part 761. PCBs sealant wastes identified as regulated wastes shall be disposed of in a licensed waste disposal site permitted to receive wastes of the identified concentrations.

CLASSROOM WING 9-15
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint/Plaster	White/Gray, Smooth, Walls & Ceilings	2
B	Mortar/Grout	White/Gray, Ceramic Tile	1
C	Wallboard/Joint Compound	White/White, Restroom	1
D	Coating	Gray, Floor	1
E	Paint/Plaster	White/Gray, Rough, Walls & Ceiling	5
F	Vinyl Floor Tile/Mastic	12" Blue/Yellow & Brown	3
G	Basecove/Mastic	4" Blue/White & Brown	2
H	Acoustic Ceiling Tile/Mastic	12" White, Fissured/Yellow & Brown	2
I	Mastic	Black, Sink Undercoating	1
J	Basecove/Mastic	6" Blue/White & Brown	1
K	Mastic	Green, Carpet	1
L	Paint/Stucco	Beige/Gray. Wall	2
M	Paint/Stucco	Beige/Gray, Overhang & Walkway Ceilings	2
N	Sealant	Tan, Louver	1
O	Putty	White, Window	3
P	Vinyl Floor Tile/Mastic	12" Beige/Black	1
Q	Basecove/Mastic	4" Brown/Yellow	1
R	Sealant	White, Door Frame	2
S	Wallboard/Joint Compound	White/White, Classrooms	2
T	Sealant	Tan, Window Frame	2
U	Panel	Gray & Brown, Lower Walls	1
V	Sealant	White, Wood Trim on Wall	1

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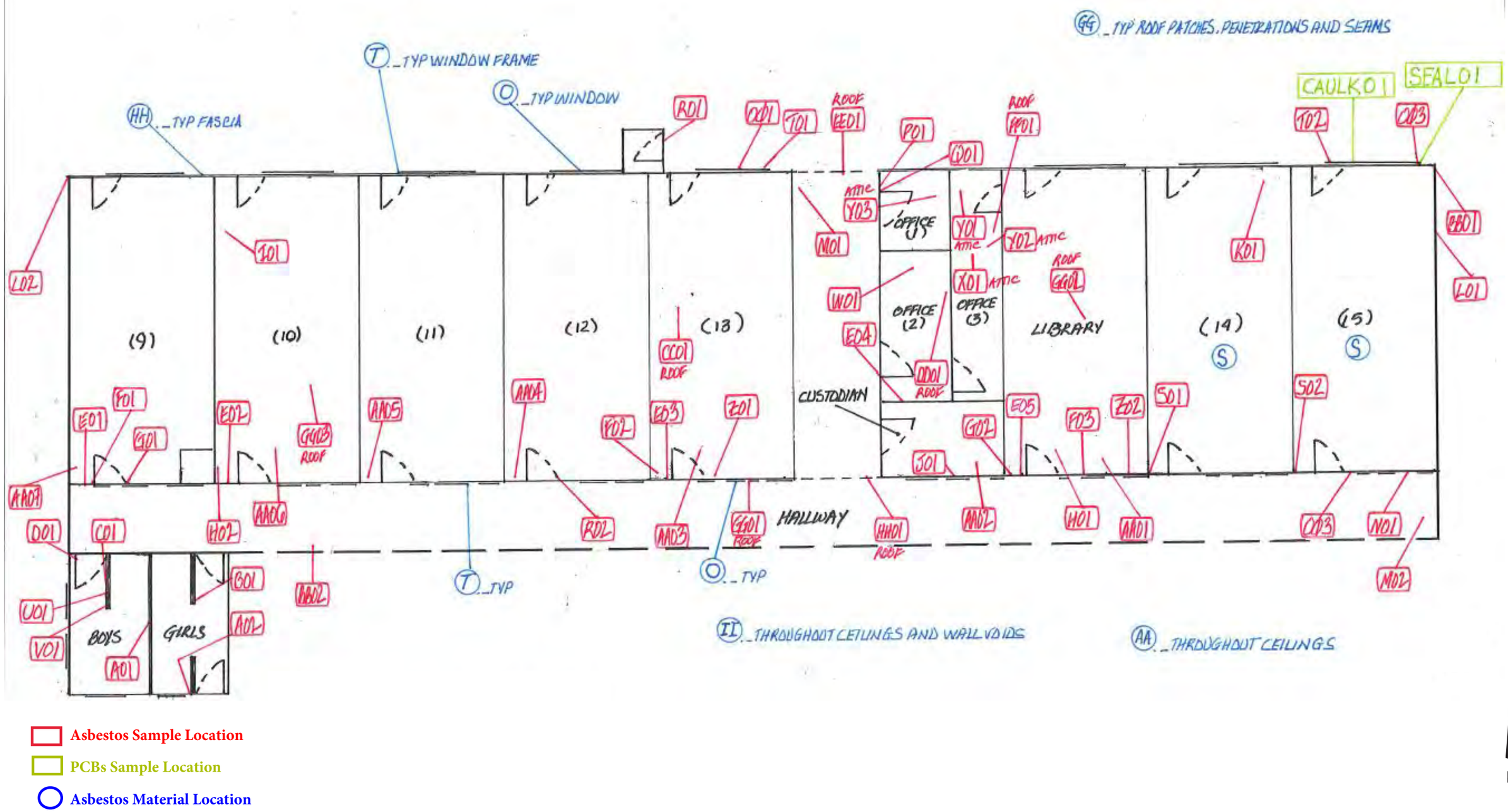
CLASSROOM WING 9-15
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
W	Lathe	White, Button Board	1
X	Wallboard	White (no Joint Compound)	1
Y	Insulation	Black, Attic	3
Z	Mastic	Brown & Black, Wall Panel	2
AA	Plaster	White, Acoustic Ceiling	7
BB	Concrete	Gray, Foundation	2
CC	Roof Field	Black, Roof	1
DD	Parapet Base	Black, Roof	1
EE	Flashing	Black, Roof	1
FF	Coating	White & Yellow, Roof	1
GG	Mastic	Gray & Black, Patches & Penetrations	3
HH	Sealant	Gray, Fascia	1



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510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Classroom Wing 9 to 15

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

CLASSROOM WING 9 TO 15
PHOTO DOCUMENTATION

Asbestos Acoustic Plaster Above Ceiling Tile

Asbestos Window Putty & Sealant

Asbestos Wallboard/Joint Compound

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226215
Date Received: 08/11/16
Date Analyzed: 08/12/16
Date Printed: 08/12/16
First Reported: 08/12/16

Job ID/Site: 160041001 - HUSD, Harder ES (Classroom Wing 9/15)

Date(s) Collected: 08/11/2016

FALI Job ID: L1161
Total Samples Submitted: 54
Total Samples Analyzed: 52

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CW9/15-A01	11796539						
Layer: Grey Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-A02	11796540						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-B01	11796541						
Layer: White Mortar			**ND**				
Layer: Grey Grout			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-C01	11796542						
Layer: White Drywall			**ND**				
Layer: Off-White Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
CW9/15-D01	11796543						
Layer: Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (Trace)							
CW9/15-E01	11796544						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

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Report Number: B226215
Client Name: Vista Environmental Consultants **Date Printed:** 08/12/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CW9/15-E02	11796545						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-E03	11796546						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-E04	11796547						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-E05	11796548						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-F01	11796549						
Layer: Blue Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (Trace)							
CW9/15-F02	11796550						
Layer: Blue Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (Trace)							
CW9/15-F03	11796551						
Layer: Blue Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (Trace)							
CW9/15-G01	11796552						
Layer: Blue Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

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Report Number: B226215
Client Name: Vista Environmental Consultants **Date Printed:** 08/12/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CW9/15-G02	11796553						
Layer: Blue Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-H01	11796554						
Layer: Tan Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (35 %) Fibrous Glass (45 %) Synthetic (Trace)							
CW9/15-H02	11796555						
Layer: Tan Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (35 %) Fibrous Glass (45 %) Synthetic (Trace)							
CW9/15-I01	11796556						
Layer: Black Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (Trace)							
CW9/15-J01	11796557						
Layer: Blue Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-K01	11796558						
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (Trace)							
CW9/15-L01	11796559						
Layer: Beige Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-L02	11796560						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

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Report Number: B226215
Client Name: Vista Environmental Consultants **Date Printed:** 08/12/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CW9/15-M01	11796561						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-M02	11796562						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-N01	11796563						
Layer: Off-White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-O01	11796564						
Layer: White Putty			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-O02	11796565						
Layer: White Putty			**ND**				
Layer: Tan Mastic		Chrysotile	**5 %**				
Total Composite Values of Fibrous Components:		**Asbestos (3%)**					
Cellulose (Trace)							
CW9/15-O03	11796566						
Layer: White Putty		Chrysotile	**2 %**				
Total Composite Values of Fibrous Components:		**Asbestos (2%)**					
Cellulose (Trace)							
CW9/15-P01	11796567						
Layer: Beige Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %) Synthetic (5 %)							
CW9/15-Q01	11796568						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9/15-R01	11796569						
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

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Report Number: B226215
Client Name: Vista Environmental Consultants **Date Printed:** 08/12/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CW9/15-R02	11796570						
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
CW9/15-S01	11796571						
Layer: White Drywall			**ND**				
Layer: Off-White Joint Compound		Chrysotile	**2 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (10 %)		**Asbestos (Trace)**					
CW9/15-S02	11796572						
Layer: White Drywall			**ND**				
Layer: Off-White Joint Compound		Chrysotile	**2 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (10 %)		**Asbestos (Trace)**					
CW9/15-T01	11796573						
Layer: Tan Semi-Fibrous Material		Chrysotile	**5 %**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (5%)**					
CW9/15-T02	11796574						
Layer: Off-White Semi-Fibrous Material		Chrysotile	**Trace**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
CW9/15-U01	11796575						
Layer: Off-White Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (30 %) Synthetic (Trace)		**Asbestos (ND)**					
CW9/15-V01	11796577						
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
CW9/15-W01	11796578						
Layer: Tan Drywall			**ND**				
Layer: Tan Tape			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (10 %)		**Asbestos (ND)**					
CW9/15-X01	11796579						
Layer: Off-White Drywall			**ND**				
Layer: Tan Tape			**ND**				
Total Composite Values of Fibrous Components: Cellulose (20 %) Fibrous Glass (10 %)		**Asbestos (ND)**					

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Report Number: B226215
Client Name: Vista Environmental Consultants **Date Printed:** 08/12/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CW9/15-Y01	11796580						
Layer: Black Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (80 %)		**Asbestos (ND)**					
CW9/15-Y02	11796581						
Layer: Black Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (80 %)		**Asbestos (ND)**					
CW9/15-Y03	11796582						
Layer: Black Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (80 %)		**Asbestos (ND)**					
CW9/15-Z01	11796583						
Layer: Brown Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (85 %)		**Asbestos (ND)**					
CW9/15-Z02	11796584						
Layer: Brown Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (85 %)		**Asbestos (ND)**					
CW9/15-AA01	11796585						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
CW9/15-AA02	11796586						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
CW9/15-AA03	11796587						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
CW9/15-AA04	11796588						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Report Number: B226215
Client Name: Vista Environmental Consultants **Date Printed:** 08/12/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CW9/15-AA05	11796589						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
CW9/15-AA06	11796590						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
CW9/15-AA07	11796591						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID:	L1161
Report Number:	N008520
Date Received:	08/11/16
Date Analyzed:	08/18/16
Date Printed:	08/18/16

Job ID/Site: 160041001 - HUSD, Harder ES (Classroom Wing 9/15)

PLM Report Number: B226215

FALI Job ID:	L1161
Total Samples Submitted:	2
Total Samples Analyzed:	2

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
CW9/15-S01	11796571	**Composite of ALL Layers** White Drywall Off-White Joint Compound Paint

Point Count Results:

Number of asbestos points counted:	0
Number of non-empty points:	400
Layer percentage of entire sample:	100
Percent asbestos in layer:	**< 1**

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

CW9/15-S02	11796572	**Composite of ALL Layers** White Drywall Off-White Joint Compound Paint

Point Count Results:

Number of asbestos points counted:	0
Number of non-empty points:	400
Layer percentage of entire sample:	100
Percent asbestos in layer:	**< 1**

Asbestos type(s) detected: Chrysotile

Comment: Asbestos was detected but no points were counted due to counting criteria. Therefore quantitation deemed to be < 1%.

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Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID:	L1161
Report Number:	N008520
Date Received:	08/11/16
Date Analyzed:	08/18/16
Date Printed:	08/18/16

Job ID/Site: 160041001 - HUSD, Harder ES (Classroom Wing 9/15)

PLM Report Number: B226215

FALI Job ID:	L1161
Total Samples Submitted:	2
Total Samples Analyzed:	2

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description

Note: Point count results are reported to the nearest percent per EPA method.

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 1%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES (CLASSROOM WING 9/15) PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
CW9/15	A	01	PAINT /PLASTER	WHITE/ GRAY, SMOOTH	W&C	
CW9/15	A	02	↓	↓		
CW9/15	B	01	MORTAR /GROUT	WHITE/GRAY, CERAMIC TILE		
CW9/15	C	01	WB/SC	WHITE/WHITE		
CW9/15	D	01	COATING	GRAY, FLOOR		
CW9/15	E	01	PAINT /PLASTER	WHITE/GRAY, ROUGH		
CW9/15	E	02	↓	↓		
CW9/15	E	03	↓	↓		
CW9/15	E	04	↓	↓		
CW9/15	E	05	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

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OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES (CLASSROOM WING 9/15) PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
CW9/15	F	01	VFT/MAS	12" BLUE/YELLOW & BROWN		
CW9/15	F	02	↓	↓		
CW9/15	F	03	↓	↓		
CW9/15	G	01	BC/M	4" Blue/ white & Brown		
CW9/15	G	02	↓	↓		
CW9/15	H	01	ACT/M	12" white, Fissured Yellow & Brown		
CW9/15	H	02	↓	↓		
CW9/15	I	01	Mastic	Black, Sink Undercoating		
CW9/15	J	01	BC/M	6" Blue white & Brown		
CW9/15	K	01	Mastic	Green, carpet		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

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ASBESTOS BULK SAMPLE LOG

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CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES (CLASSROOM WING 9/15) PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
CW9/15	L	01	Paint/ Stucco	Beige/Gray, wall		
CW9/15	L	02	↓	↓		
CW9/15	M	01	Paint/ Stucco	Beige/Gray overhang + wall/ceiling		
CW9/15	M	02	↓	↓		
CW9/15	N	01	Sealant	Tan, Louver		
CW9/15	O	01	Putty	White, Window		
CW9/15	O	02	↓	↓		
CW9/15	O	03	↓	↓		
CW9/15	P	01	VFT/M	12" Beige/ Black		
CW9/15	Q	01	BC/M	4" Brown/ Yellow		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

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ASBESTOS BULK SAMPLE LOG

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OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES (CLASSROOM WING 9/15) PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
CW9/15	R	01	Sealant	White, Door Frame		
CW9/15	R	02	↓	↓		
CW9/15	S	01	WB/JC	White/white, Classrooms		
CW9/15	S	02	↓	↓		
CW9/15	T	01	Sealant	Tan, Window Frame		
CW9/15	T	02	↓	↓		
CW9/15	U	01	Panel	Gray & Brown, lower walls		
CW9/15	U	02	↓	↓		
CW9/15	V	01	Sealant	White, wood trim on wall		
CW9/15	W	01	lathe	White, Bottom Board		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

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ASBESTOS BULK SAMPLE LOG

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SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES (CLASSROOM WING 9/15) PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
CW9/15	X	01	WB	PATINA		
CW9/15	Y	01	Insulation	Black, Attic		
CW9/15	Y	02	↓	↓		
CW9/15	Y	03	↓	↓		
CW9/15	Z	01	Mastic	Brown + Black, Wall Panel		
CW9/15	Z	02	↓	↓		
CW9/15	AA	01	Plaster	white, Acoustic ceiling		
CW9/15	AA	02	↓	↓		
CW9/15	AA	03	↓	↓		
CW9/15	AA	04	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

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ASBESTOS BULK SAMPLE LOG

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CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES (CLASSROOM WING 9/15) PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
CW9/15	AA	05	↓	↓		
CW9/15	AA	06				
CW9/15	AA	07				

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

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Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226526
Date Received: 08/15/16
Date Analyzed: 08/18/16
Date Printed: 08/18/16
First Reported: 08/18/16

Job ID/Site: 160041001 - Harder School District, Harder ES CW 9-15

FALI Job ID: L1161
Total Samples Submitted: 10
Total Samples Analyzed: 10

Date(s) Collected: 08/15/2016

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CW9-15-BB01	11799027						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9-15-BB02	11799028						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9-15-CC01	11799029						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (55 %) Fibrous Glass (10 %)							
Comment: Bulk complex sample.							

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Report Number: B226526
Client Name: Vista Environmental Consultants **Date Printed:** 08/18/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
CW9-15-DD01	11799030						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (55 %) Fibrous Glass (10 %)							
Comment: Bulk complex sample.							
CW9-15-EE01	11799031						
Layer: Tan Fibrous Material			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (95 %)							
CW9-15-FF01	11799032						
Layer: Brown Adhesive			**ND**				
Layer: White Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
CW9-15-GG01	11799033						
Layer: Black Mastic		Chrysotile	**10 %**				
Total Composite Values of Fibrous Components:		**Asbestos (10%)**					
Cellulose (Trace)							
CW9-15-GG02	11799034						
Layer: Black Mastic		Chrysotile	**10 %**				
Total Composite Values of Fibrous Components:		**Asbestos (10%)**					
Cellulose (Trace)							
CW9-15-GG03	11799035						
Layer: Black Mastic		Chrysotile	**10 %**				
Total Composite Values of Fibrous Components:		**Asbestos (10%)**					
Cellulose (Trace)							
CW9-15-HH01	11799036						
Layer: Off-White Non-Fibrous Material		Chrysotile	**2 %**				
Total Composite Values of Fibrous Components:		**Asbestos (2%)**					
Cellulose (Trace)							

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Report Number: B226526

Client Name: Vista Environmental Consultants

Date Printed: 08/18/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8-15-2016

LOCATION: Harder ES - CW 9-15

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
CW9-15	GG	03	MASTIC	GREY + BLACK, PATH, PENETRATIONS		
CW9-15	HH	01	SEALANT	GRAY, FASCIA		
CW9-15						
CW9-15						
CW9-15						
CW9-15						
CW9-15						
CW9-15						
CW9-15						
CW9-15						

TEN (10) SAMPLES JR

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS: * per client ok w/ 3 DAY TAT (SH) 8/15/16

CHAIN OF CUSTODY:

1. [signature] TRANSFER SIGNATURE — LUIS J ROCHA PRINTED NAME — 08/15/16 DATE/TIME

2. [signature] TRANSFER SIGNATURE — S. HILLISH PRINTED NAME — 8:30 DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 2 OF 2

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8-15-2016

LOCATION: Harder ES - CW.9-15

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
JR ~~CW9-15~~	~~AA~~	~~06~~	~~PLASTER~~	~~WHITE, ACOUSTIC CEILING~~		
~~CW9-15~~	~~AA~~	~~07~~	~~↓~~	~~↓~~		
CW9-15	BB	01	CONCRETE	GRAY, FOUNDATION		
CW9-15	BB	02	↓	↓		
CW9-15	CC	01	ROOF FIELD	BLACK, ROOF		
CW9-15	DD	01	BASE	BLACK, ROOF		
CW9-15	EE	01	FLASHING	BLACK, ROOF		
CW9-15	FF	01	COATING	WHITE + YELLOW, ROOF		
CW9-15	GG	01	MASTIC	GRAY + BLACK, PATH, PENETRATION		
CW9-15	GG	02	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. [signature] TRANSFER SIGNATURE — LUIS J. ROCITA PRINTED NAME — 08/15/16 DATE/TIME

2. [signature] TRANSFER SIGNATURE — S. Hollister PRINTED NAME — 08/23:30 DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 1 OF 2

HUSD
Harder ES - Classroom Wing 9-15
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
332	CW 9-15	OUTSIDE	WALL	STUCCO	BEIGE	INTACT	Negative	0.01	mg/cm^2
333	CW 9-15	OUTSIDE	WALL	STUCCO	RED	INTACT	Negative	0	mg/cm^2
334	CW 9-15	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
335	CW 9-15	OUTSIDE	DOOR	WOOD	TAN	INTACT	Negative	0	mg/cm^2
336	CW 9-15	OUTSIDE	FLOOR STRIPE	CONCRETE	YELLOW	INTACT	Negative	0.18	mg/cm^2
337	CW 9-15	OUTSIDE	FLOOR	CONCRETE	RED	INTACT	Negative	0	mg/cm^2
338	CW 9-15	OUTSIDE	WALL	STUCCO	GREEN	INTACT	Negative	0	mg/cm^2
339	CW 9-15	OUTSIDE	WALL	STUCCO	BLUE	INTACT	Negative	0	mg/cm^2
340	CW 9-15	OUTSIDE	WALL	STUCCO	YELLOW	INTACT	Negative	0	mg/cm^2
341	CW 9-15	OUTSIDE	COLUMN	WOOD	TAN	INTACT	Positive	3.6	mg/cm^2
342	CW 9-15	OUTSIDE	HAND RAIL	WOOD	TAN	INTACT	Negative	0	mg/cm^2
343	CW 9-15	OUTSIDE	DOWNSPOUT	METAL	TAN	INTACT	Positive	2.1	mg/cm^2
344	CW 9-15	OUTSIDE	OVERHANG	STUCCO	BEIGE	INTACT	Negative	0.01	mg/cm^2
345	CW 9-15	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0.05	mg/cm^2
346	CW 9-15	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
347	CW 9-15	OUTSIDE	PIPE	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
348	CW 9-15	OUTSIDE	WALL	STUCCO	BROWN	INTACT	Negative	0.01	mg/cm^2
349	CW 9-15	OUTSIDE	WALL	WOOD	BROWN	INTACT	Negative	0	mg/cm^2
350	CW 9-15	OUTSIDE	WALL	WOOD	GREEN	INTACT	Negative	0	mg/cm^2
351	CW 9-15	OUTSIDE	WALL	WOOD	BLUE	INTACT	Negative	0	mg/cm^2
352	CW 9-15	OUTSIDE	BENCH	WOOD	BROWN	DETERIORATED	Negative	0	mg/cm^2
353	CW 9-15	OUTSIDE	BENCH	WOOD	RED	DETERIORATED	Negative	0.01	mg/cm^2
354	CW 9-15	OUTSIDE	WALL	WOOD	RED	INTACT	Negative	0	mg/cm^2
355	CW 9-15	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
356	CW 9-15	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

HUSD
Harder ES - CW9-15
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
357	CW 9-15	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0.04	mg/cm^2
358	CW 9-15	OUTSIDE	WALL	STUCCO	BEIGE	INTACT	Negative	0.01	mg/cm^2
359	CW 9-15	OUTSIDE	WALL	STUCCO	RED	INTACT	Negative	0.02	mg/cm^2
360	CW 9-15	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Positive	3.2	mg/cm^2
361	CW 9-15	OUTSIDE	WINDOW	METAL	TAN	INTACT	Negative	0	mg/cm^2
362	CW 9-15	OUTSIDE	WINDOW	METAL	TAN	INTACT	Negative	0.4	mg/cm^2
363	CW 9-15	OUTSIDE	DOWNSPOUT	METAL	BEIGE	INTACT	Negative	0.08	mg/cm^2
364	CW 9-15	OUTSIDE	DOWNSPOUT	METAL	RED	INTACT	Negative	0	mg/cm^2
365	CW 9-15	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Positive	4.2	mg/cm^2
366	CW 9-15	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
367	CW 9-15	OUTSIDE	EAVE	STUCCO	BEIGE	INTACT	Negative	0.04	mg/cm^2
368	CW 9-15	OUTSIDE	SHUTTERS	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
370	CW 9-15	ROOF	PIPE	METAL	WHITE	DETERIORATED	Negative	0	mg/cm^2
371	CW 9-15	OUTSIDE	WINDOW FRAME	WOOD	BLACK	INTACT	Positive	4.7	mg/cm^2
372	CW 9-15	OUTSIDE	WINDOW	METAL	BLACK	INTACT	Positive	3.7	mg/cm^2
373	CW 9-15	OUTSIDE	WALL	STUCCO	BEIGE	INTACT	Negative	0.06	mg/cm^2
374	CW 9-15	OUTSIDE	HAND RAIL	WOOD	BROWN	DETERIORATED	Negative	0	mg/cm^2
375	CW 9-15	OUTSIDE	COLUMN	WOOD	BLUE, LIGHT	DETERIORATED	Negative	0.01	mg/cm^2
376	CW 9-15	OUTSIDE	OVERHANG	WOOD	BEIGE	INTACT	Positive	1.7	mg/cm^2
377	CW 9-15	OUTSIDE	BEAM	WOOD	BEIGE	INTACT	Positive	1.5	mg/cm^2
378	CW 9-15	OUTSIDE	FOUNDATION	CONCRETE	BEIGE	INTACT	Negative	0.02	mg/cm^2
379	CW 9-15	ESTROOM	WALL	DRYWALL	BLUE	INTACT	Negative	0	mg/cm^2
380	CW 9-15	ESTROOM	WALL	DRYWALL	WHITE	INTACT	Negative	0.01	mg/cm^2
381	CW 9-15	ESTROOM	WALL	PLASTER	WHITE	INTACT	Negative	0.04	mg/cm^2
382	CW 9-15	ESTROOM	CEILING	PLASTER	WHITE	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

HUSD
Harder ES - CW9-15
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
383	CW 9-15	ESTROOM	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0.11	mg/cm^2
384	CW 9-15	ESTROOM	WINDOW SILL	WOOD	TAN	INTACT	Positive	2.1	mg/cm^2
385	CW 9-15	ESTROOM	WINDOW	METAL	TAN	INTACT	Negative	0.8	mg/cm^2
386	CW 9-15	ESTROOM	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
387	CW 9-15	ESTROOM	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
388	CW 9-15	ESTROOM	FLOOR	CONCRETE	GRAY	INTACT	Negative	0	mg/cm^2
389	CW 9-15	ESTROOM	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
390	CW 9-15	ESTROOM	CABINET	WOOD	WHITE	INTACT	Negative	0.14	mg/cm^2
391	CW 9-15	ESTROOM	STALLS	METAL	BLACK	INTACT	Negative	0.02	mg/cm^2
392	CW 9-15	ESTROOM	WALL	CERAMIC	GRAY	INTACT	Negative	0.03	mg/cm^2
393	CW 9-15	ESTROOM	WALL	PLASTER	WHITE	INTACT	Negative	0	mg/cm^2
394	CW 9-15	ESTROOM	WALL	DRYWALL	WHITE	INTACT	Negative	0.12	mg/cm^2
395	CW 9-15	ESTROOM	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
396	CW 9-15	ESTROOM	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
397	CW 9-15	ESTROOM	CEILING	PLASTER	WHITE	INTACT	Negative	0.06	mg/cm^2
398	CW 9-15	ESTROOM	VENT	METAL	WHITE	INTACT	Negative	0	mg/cm^2
399	CW 9-15	ESTROOM	FLOOR	CERAMIC	GRAY	INTACT	Negative	0.01	mg/cm^2
400	CW 9-15	ESTROOM	STALLS	METAL	GRAY	INTACT	Negative	0	mg/cm^2
402	CW 9-15	ESTROOM	WINDOW SILL	WOOD	TAN	INTACT	Positive	1.1	mg/cm^2
403	CW 9-15	LASSROOM	WALL	PLASTER	WHITE	INTACT	Negative	0.3	mg/cm^2
404	CW 9-15	LASSROOM	TRIM	WOOD	WHITE	INTACT	Negative	0	mg/cm^2
405	CW 9-15	LASSROOM	CABINET	WOOD	WHITE	INTACT	Negative	0.1	mg/cm^2
406	CW 9-15	LASSROOM	HVAC	METAL	WHITE	INTACT	Negative	0	mg/cm^2
407	CW 9-15	LASSROOM	WALL PANEL	WOOD	WHITE	INTACT	Negative	0.03	mg/cm^2
408	CW 9-15	LASSROOM	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0.6	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

HUSD
Harder ES - CW9-15
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
409	CW 9-15	LASSROOM	WINDOW SILL	WOOD	TAN	INTACT	Negative	0.4	mg/cm^2
410	CW 9-15	LASSROOM	WINDOW	METAL	TAN	INTACT	Positive	1.2	mg/cm^2
411	CW 9-15	LASSROOM	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
412	CW 9-15	LASSROOM	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
413	CW 9-15	LASSROOM	WALL	WOOD	WHITE	INTACT	Negative	0.1	mg/cm^2
414	CW 9-15	LASSROOM	TRIM	WOOD	WHITE	INTACT	Negative	0.01	mg/cm^2
415	CW 9-15	LASSROOM	WALL PANEL	WOOD	BEIGE	INTACT	Negative	0.15	mg/cm^2
416	CW 9-15	LASSROOM	WALL	PLASTER	WHITE	INTACT	Negative	0.22	mg/cm^2
417	CW 9-15	LASSROOM	CABINET	WOOD	WHITE	INTACT	Negative	0.02	mg/cm^2
418	CW 9-15	LASSROOM	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
419	CW 9-15	LASSROOM	DOOR	WOOD	TAN	INTACT	Negative	0	mg/cm^2
420	CW 9-15	LASSROOM	WALL	DRYWALL	WHITE	INTACT	Negative	0.19	mg/cm^2
421	CW 9-15	LASSROOM	TRIM	WOOD	WHITE	INTACT	Negative	0.04	mg/cm^2
422	CW 9-15	LASSROOM	CABINET	WOOD	WHITE	INTACT	Negative	0.01	mg/cm^2
423	CW 9-15	LASSROOM	WALL	DRYWALL	WHITE	INTACT	Negative	0	mg/cm^2
424	CW 9-15	LASSROOM	PIPE	METAL	WHITE	INTACT	Negative	0	mg/cm^2
425	CW 9-15	LASSROOM	WALL	PLASTER	WHITE	INTACT	Negative	0	mg/cm^2

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-74015-1
Client Project/Site: HUSD/Harder ES

For:
Vista Environmental Consulting, Inc
2984 Teagarden Street
San Leandro, California 94577

Attn: Chris Burns

Authorized for release by:
8/25/2016 9:44:49 AM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-74015-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-74015-1

Comments
No additional comments.

Receipt
The samples were received on 8/18/2016 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 15.9º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74015-1

Client Sample ID: CW9/15-SEAL01 — Lab Sample ID: 720-74015-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor-1254	530		470		ug/Kg	1		8082	Total/NA

Client Sample ID: CW9/15-CAULK01 — Lab Sample ID: 720-74015-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74015-1

Client Sample ID: CW9/15-SEAL01

Lab Sample ID: 720-74015-1

Date Collected: 08/18/16 09:00

Matrix: Solid

Date Received: 08/18/16 16:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		470		ug/Kg		08/23/16 09:27	08/24/16 22:44	1
Aroclor-1221	ND		470		ug/Kg		08/23/16 09:27	08/24/16 22:44	1
Aroclor-1232	ND		470		ug/Kg		08/23/16 09:27	08/24/16 22:44	1
Aroclor-1242	ND		470		ug/Kg		08/23/16 09:27	08/24/16 22:44	1
Aroclor-1248	ND		470		ug/Kg		08/23/16 09:27	08/24/16 22:44	1
Aroclor-1254	**530**		470		ug/Kg		08/23/16 09:27	08/24/16 22:44	1
Aroclor-1260	ND		470		ug/Kg		08/23/16 09:27	08/24/16 22:44	1
Aroclor-1262	ND		470		ug/Kg		08/23/16 09:27	08/24/16 22:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*70*		*14 - 128*	*08/23/16 09:27*	*08/24/16 22:44*	*1*
DCB Decachlorobiphenyl	*83*		*10 - 132*	*08/23/16 09:27*	*08/24/16 22:44*	*1*

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74015-1

Client Sample ID: CW9/15-CAULK01

Lab Sample ID: 720-74015-2

Date Collected: 08/18/16 09:00

Matrix: Solid

Date Received: 08/18/16 16:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		420		ug/Kg		08/23/16 09:27	08/24/16 23:03	1
Aroclor-1221	ND		420		ug/Kg		08/23/16 09:27	08/24/16 23:03	1
Aroclor-1232	ND		420		ug/Kg		08/23/16 09:27	08/24/16 23:03	1
Aroclor-1242	ND		420		ug/Kg		08/23/16 09:27	08/24/16 23:03	1
Aroclor-1248	ND		420		ug/Kg		08/23/16 09:27	08/24/16 23:03	1
Aroclor-1254	ND		420		ug/Kg		08/23/16 09:27	08/24/16 23:03	1
Aroclor-1260	ND		420		ug/Kg		08/23/16 09:27	08/24/16 23:03	1
Aroclor-1262	ND		420		ug/Kg		08/23/16 09:27	08/24/16 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*14 - 128*	*08/23/16 09:27*	*08/24/16 23:03*	*1*
DCB Decachlorobiphenyl	*57*		*10 - 132*	*08/23/16 09:27*	*08/24/16 23:03*	*1*

Surrogate Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74015-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX2	DCB2								
Lab Sample ID	Client Sample ID	(14-128)	(10-132)								
720-74015-1	CW9/15-SEAL01	70	83								
720-74015-2	CW9/15-CAULK01	55	57								
LCS 240-243809/18-A	Lab Control Sample	72	70								
MB 240-243809/17-A	Method Blank	74	68								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

QC Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74015-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-243809/17-A
Matrix: Solid
Analysis Batch: 244157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 243809

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		500		ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1221	ND		500		ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1232	ND		500		ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1242	ND		500		ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1248	ND		500		ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1254	ND		500		ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1260	ND		500		ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1262	ND		500		ug/Kg		08/23/16 09:27	08/24/16 20:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*14 - 128*	*08/23/16 09:27*	*08/24/16 20:34*	*1*
DCB Decachlorobiphenyl	*68*		*10 - 132*	*08/23/16 09:27*	*08/24/16 20:34*	*1*

Lab Sample ID: LCS 240-243809/18-A
Matrix: Solid
Analysis Batch: 244157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 243809

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			10000	7410		ug/Kg		74	47 - 120		
Aroclor-1260			10000	7560		ug/Kg		76	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*14 - 128*
DCB Decachlorobiphenyl	*70*		*10 - 132*

QC Association Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74015-1

GC Semi VOA

Prep Batch: 243809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74015-1	CW9/15-SEAL01	Total/NA	Solid	3540C	
720-74015-2	CW9/15-CAULK01	Total/NA	Solid	3540C	
MB 240-243809/17-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-243809/18-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 244157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74015-1	CW9/15-SEAL01	Total/NA	Solid	8082	243809
720-74015-2	CW9/15-CAULK01	Total/NA	Solid	8082	243809
MB 240-243809/17-A	Method Blank	Total/NA	Solid	8082	243809
LCS 240-243809/18-A	Lab Control Sample	Total/NA	Solid	8082	243809

Lab Chronicle

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74015-1

Client Sample ID: CW9/15-SEAL01

Lab Sample ID: 720-74015-1

Date Collected: 08/18/16 09:00

Matrix: Solid

Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243809	08/23/16 09:27	SDE	TAL CAN
Total/NA	Analysis	8082		1	244157	08/24/16 22:44	LSH	TAL CAN

Client Sample ID: CW9/15-CAULK01

Lab Sample ID: 720-74015-2

Date Collected: 08/18/16 09:00

Matrix: Solid

Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243809	08/23/16 09:27	SDE	TAL CAN
Total/NA	Analysis	8082		1	244157	08/24/16 23:03	LSH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74015-1

Laboratory: TestAmerica Pleasanton

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-18

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17
Illinois	NELAP	5	200004	07-31-17
Kansas	NELAP	7	E-10336	01-31-17
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16 *
Minnesota	NELAP	5	039-999-348	12-31-16 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17
Nevada	State Program	9	OH-000482008A	07-31-17
New Jersey	NELAP	2	OH001	06-30-17
New York	NELAP	2	10975	03-31-17
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17
Pennsylvania	NELAP	3	68-00340	08-31-17
Texas	NELAP	6	T104704517-15-5	08-31-16 *
USDA	Federal		P330-13-00319	11-26-16 *
Virginia	NELAP	3	460175	09-14-16 *
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16 *
Wisconsin	State Program	5	999518190	08-31-17

* Certification renewal pending - certification considered valid.

Method Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74015-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74015-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-74015-1	CW9/15-SEAL01	Solid	08/18/16 09:00	08/18/16 16:00
720-74015-2	CW9/15-CAULK01	Solid	08/18/16 09:00	08/18/16 16:00

8/25/2016

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566
phone 925.484.1919 fax 925.600.3002

720-74015

Chain of Custody Record

170493

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Burns	Site Contact:	Date:	COC No:
Vista Environmental Consulting	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
2984 Teagarden Street	Analysis Turnaround Time			Sampler:
San Leandro, CA 94577	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
510-346-8860	TAT if different from Below _____			Walk-in Client:
888-296-0271 FAX	☐ 2 weeks			Lab Sampling:
	☒ 1 week			
Site: HUSD/Harder ES 160041001	☐ 2 days			Job / SDG No.:
CW9/15	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)			PCBs 8082	Pesticides 8081A	~~Title 22 CAM 17 Metals 6010B~~	~~VOCs 8 GRO 8260B~~	~~SVOCs 8270C~~	~~TPH MO, D 8 G 8015B~~	~~Mercury 7471A~~	Sample Specific Notes:
CW9/15-SEAL01	8/18/16	0900	C	Solid	1					X							
CW 9/15-CAULK01	8/18/16	0900	C	Solid	1					X							

720-74015 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Please email report to chrisburns@vista-env.com & molli@vista-env.com

15.9°C

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____

Relinquished by:	Company: VISTA	Date/Time: 8/18/16 1600	Received by:	Company:	Date/Time: 8/18/16 600
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

1.3 / C2,3

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sharma, Dimple	Carrier Tracking No(s):	COC No: 720-30050.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: dimple.sharma@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 720-74015-1
Address: 4101 Shuffel Street NW, ,	Due Date Requested: 8/24/2016			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: HUSD/Harder ES	Project #: 72009369			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

C246

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3550B (MOD) PCB Standard List 9 Aroclors	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
CW9/15-SEAL01 (720-74015-1)	8/18/16	09:00 Pacific		Solid			X	1	
CW9/15-CAULK01 (720-74015-2)	8/18/16	09:00 Pacific		Solid			X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:		Time:	Method of Shipment:	
Relinquished by:	Date/Time: 8/19/16 1430	Company	Received by:	Date/Time: 08/20/16 930	Company TAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

TestAmerica Canton Sample Receipt Form/Narrative **Login # :**

Canton Facility

Client TA Pleasanton Site Name 720-74015-1 Cooler unpacked by: DSD

Cooler Received on 08/20/16 Opened on 08/22/16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water None

☐ See Multiple Cooler Form

1. Cooler temperature upon receipt
   IR GUN# IR-8 (CF +1.3 °C) Observed Cooler Temp.____ °C Corrected Cooler Temp.____ °C
   IR GUN #36 (CF +1.0°C) Observed Cooler Temp. 1.3 °C Corrected Cooler Temp. 2.3 °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC574756**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #____ Yes No
15. Was a LL Hg or Me Hg trip blank present? ____ Yes No

Contacted PM ____ Date ____ by ____ via Verbal Voice Mail Other

Concerning ____

Samples processed by:

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ were received in a broken container.

Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in the laboratory.

Time preserved: ____ Preservative(s) added/Lot number(s): ____

Ref: SOP NC-SC-0005, Sample Receiving

L:\QAQC\QA Department\QA TARDIS\Document Control\Work Instructions\In Revision\WI-NC-099-061316 Cooler Receipt Form.doc djl

Login Sample Receipt Checklist

Client: Vista Environmental Consulting, Inc

Job Number: 720-74015-1

Login Number: 74015

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Arauz, Dennis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Main Building

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

MAIN BUILDING
HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY
H	Paint/Plaster	White/Gray, Acoustic	Throughout Ceilings Except the MPR and Adjacent Rooms	Class I	Friable (RACM when Removed)	13,125 SF
V	Putty	White, Window	Throughout Windows	Class II	Category II-Non-Friable	4,200 SF
W	Sealant	Tan, Window Frame	Throughout Window Frames	Class II	Category I - Non-Friable	200 SF (2,400 LF)
GG	Thermal System Insulation	4" OD Pipe & Fitting	Throughout Ceiling and Wall Voids	Class I	Friable (RACM when Removed)	1,250 LF
NN	Mastic	Gray & Black, Penetrations, Patching	Roof - Penetrations, and Patches	Class II	Category I - Non-Friable	115 SF
PP	Parapet/Base	Black, Tar & Gravel	Roof – Parapets and Bases	Class II	Category I-Non-Friable	1,425 SF

Lead-Based Paint and Materials

Reading No	Room	Component	Substrate	Color	Condition	Pb	Units
433	Outside	Column	Wood	Tan	Intact	1.4	mg/cm^2
436	Outside	Fascia	Wood	Beige	Intact	2.3	mg/cm^2
442	Outside	Window Frame	Wood	Tan	Intact	3.1	mg/cm^2
449	Outside	Door Frame	Wood	Beige	Deteriorated	2	mg/cm^2
461	Classrooms	Window Frame	Wood	Tan	Intact	1.1	mg/cm^2
462	Classrooms	Window Sill	Wood	Tan	Intact	1.3	mg/cm^2
470	Classrooms	Window	Metal	Tan	Intact	1.2	mg/cm^2
495	Restrooms	Wall	Ceramic	Tan	Intact	6.5	mg/cm^2
498	Restrooms	Wall	Ceramic	Tan	Intact	7.1	mg/cm^2
513	Office Hallway	Door Frame	Wood	Tan	Intact	1.7	mg/cm^2
526	Office	Wall	Ceramic	Tan	Intact	7	mg/cm^2

All remaining tested materials had lead concentrations in excess of the level for compliance with trigger activities, as defined in 8 CCR 1532.1.

MAIN BUILDING
HAZARDOUS MATERIALS SUMMARY

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	390
Light Fixture Ballasts	Polychlorinated Biphenyls	150
Compact Fluorescent	Universal Waste	28
Walk-in Refrigerator	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	3
Batteries: Emergency Lights & Exit Signs	Universal Waste	5

Polychlorinated Biphenyls

No PCBs were detected in the three samples of sealant and caulking collected from the Main Building

MAIN BUILDING
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint/Plaster	White/Gray, Smooth	3
B	Wallboard/Joint Compound	White/White, Restroom	1
C	Wall Panel	Blue, Louver Wall	1
D	Coating	Gray, Floor	1
E	Mortar/Grout	White/Gray, Ceramic Tile Yellow	1
F	Mortar/Grout	White/Gray, Ceramic Tile Gray	1
G	Paint/Plaster	White/Gray, Rough (Walls)	7
H	Paint/Plaster	White/Gray, Acoustic (Ceiling)	7
I	Vinyl Floor Tile/Mastic	12" Blue/Yellow	3
J	Basecove/Mastic	4" Blue/Yellow & Brown	3
K	Mastic	Green, Carpeting	2
L	Acoustic Ceiling Tile/Mastic	12" White Fissured	2
M	Mastic	Yellow, Wainscot	1
N	Basecove/Mastic	6" Blue/Yellow & Brown	1
O	Sealant	Red, Fire Stop	1
P	Brick/Mortar	Red/Brown	1
Q	Wallboard/Joint Compound	White/White, MPR Lift	1
R	Basecove/Mastic	4" Black/Yellow & Brown	1
S	Vinyl Sheet Flooring	Brown, Phone Booth	1
T	Paint/Stucco	Beige/Gray, Wall	3
U	Paint/Stucco	Beige/Gray, Walkway Ceiling Overhang	3
V	Putty	White, Window	3

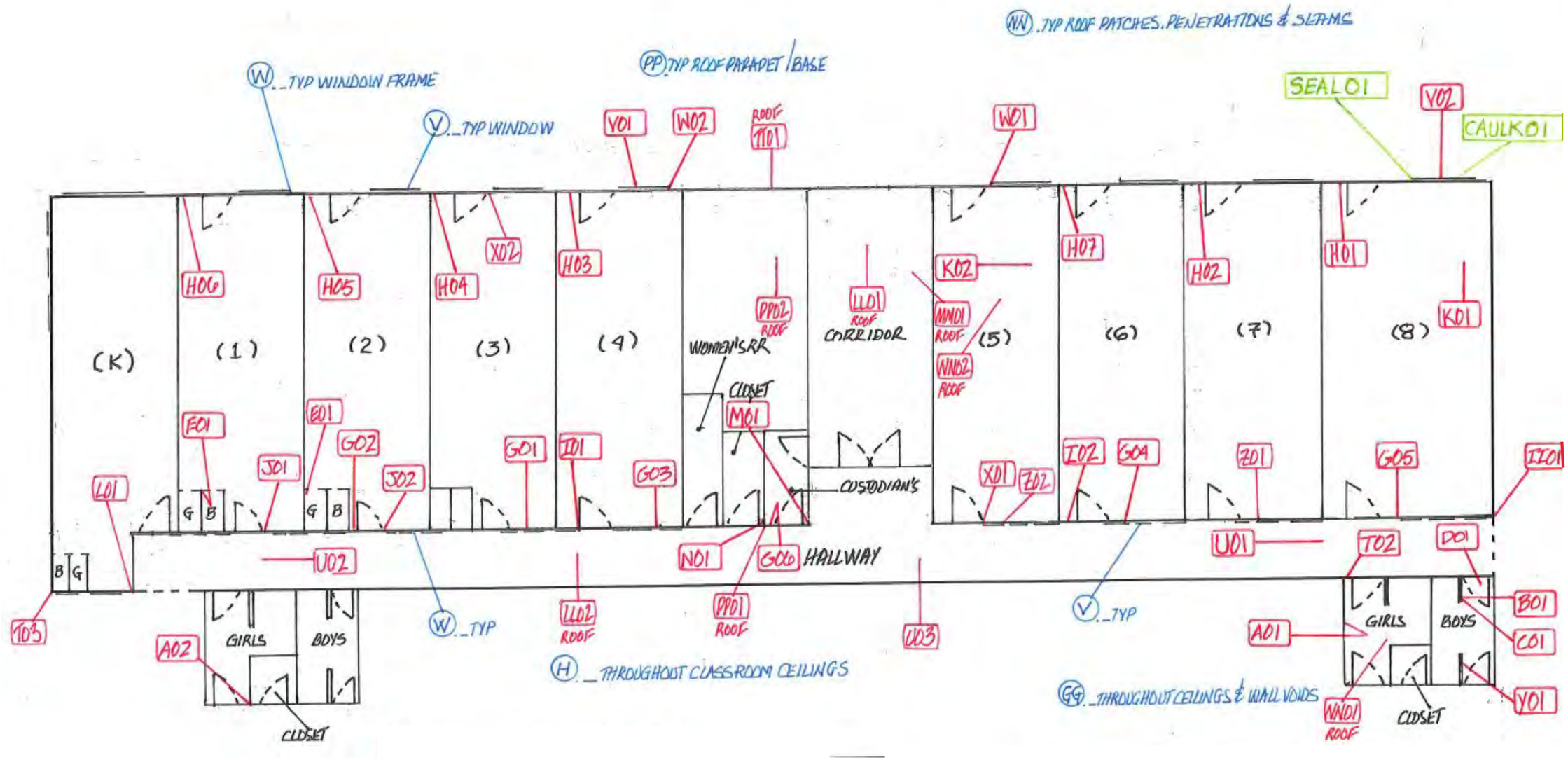
VISTA ENVIRONMENTAL CONSULTING

MAIN BUILDING
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
W	Sealant	Tan, Window Frame	3
X	Sealant	White, Door Frame (Interior)	1
Y	Sealant	White, Wood Trim on Wall	1
Z	Mastic	Brown & Black, Wall Panel	2
AA	Fire Curtain	Beige	1
BB	Coating	Beige & Green, Handrail	1
CC	Sealant	Gray, Door Frame, Exterior	1
DD	Lathe	White, Button Board	1
EE	Insulation	Black, Attic	3
FF	Wallboard	Black, no Joint Compound	1
GG	Thermal System Insulation	4" OD Pipe & Fitting	3
HH	Mastic	Yellow, Wood Paneling	1
II	Concrete	Gray, Foundation	3
JJ	Vinyl Sheet Flooring/Mastic	Blue/White & Black	2
KK	Acoustic Ceiling Tile/Mastic	12" White, Uniform Hole/Brown	1
LL	Roof Field	Black & Red, Tar & Gravel	5
MM	Coating	White & Yellow, Roof	1
NN	Mastic	Gray & Black, Penetrations, Patching	5
OO	Flashing	Black, Roof	1
PP	Parapet/Base	Black, Tar & Gravel	4
QQ	Sealant	White, Patching	1
RR	Sealant	Gray, Patching	1

MAIN BUILDING
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
SS	Sealant	Gray, Sky Lights	1
TT	Sealant	White, Fascia	1



Asbestos Sample Location

PCBs Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING

www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

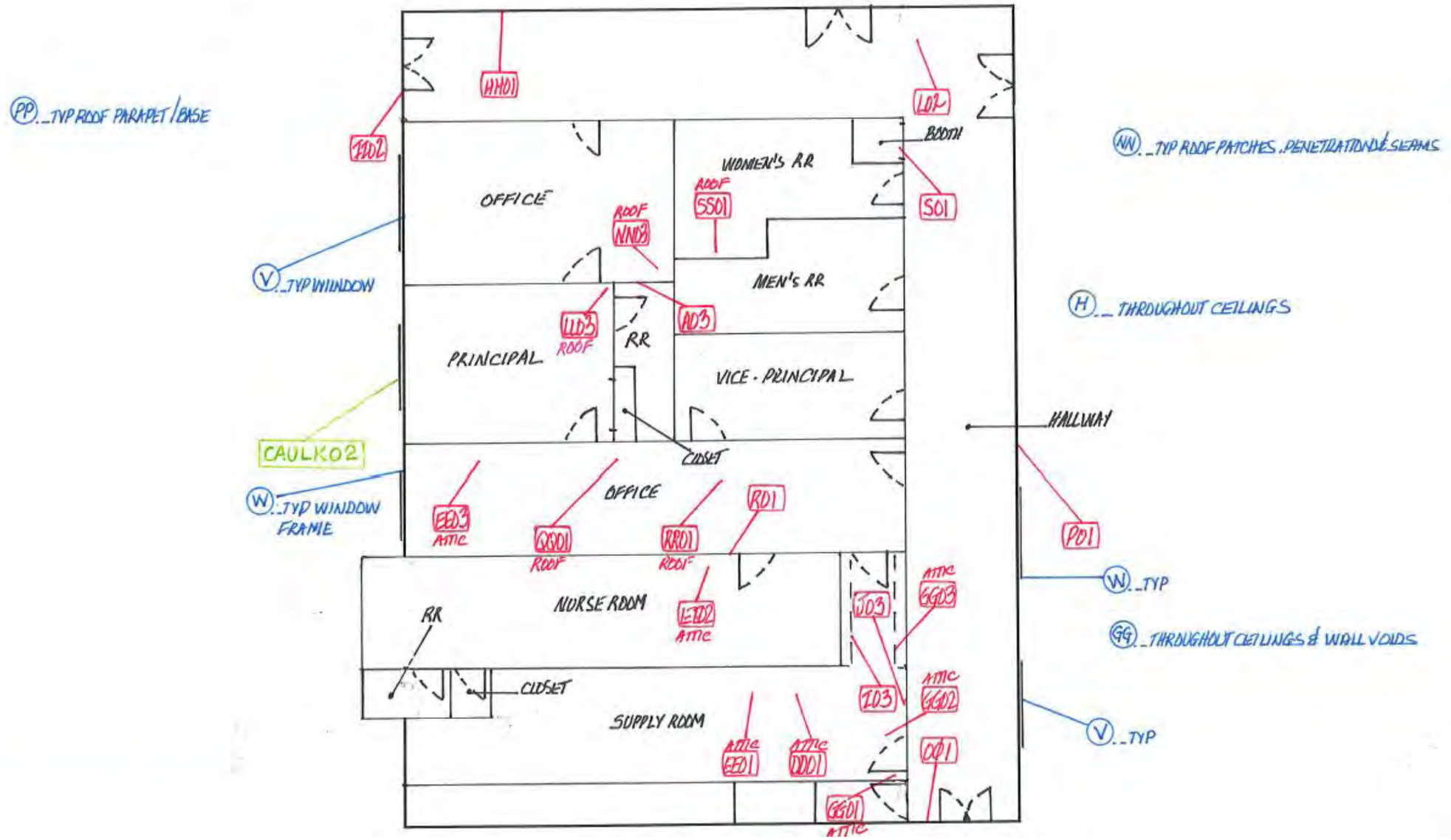
SHEET TITLE

Sample & Material Location Drawing
Main Building

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1



Asbestos Sample Location

PCBs Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING

www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

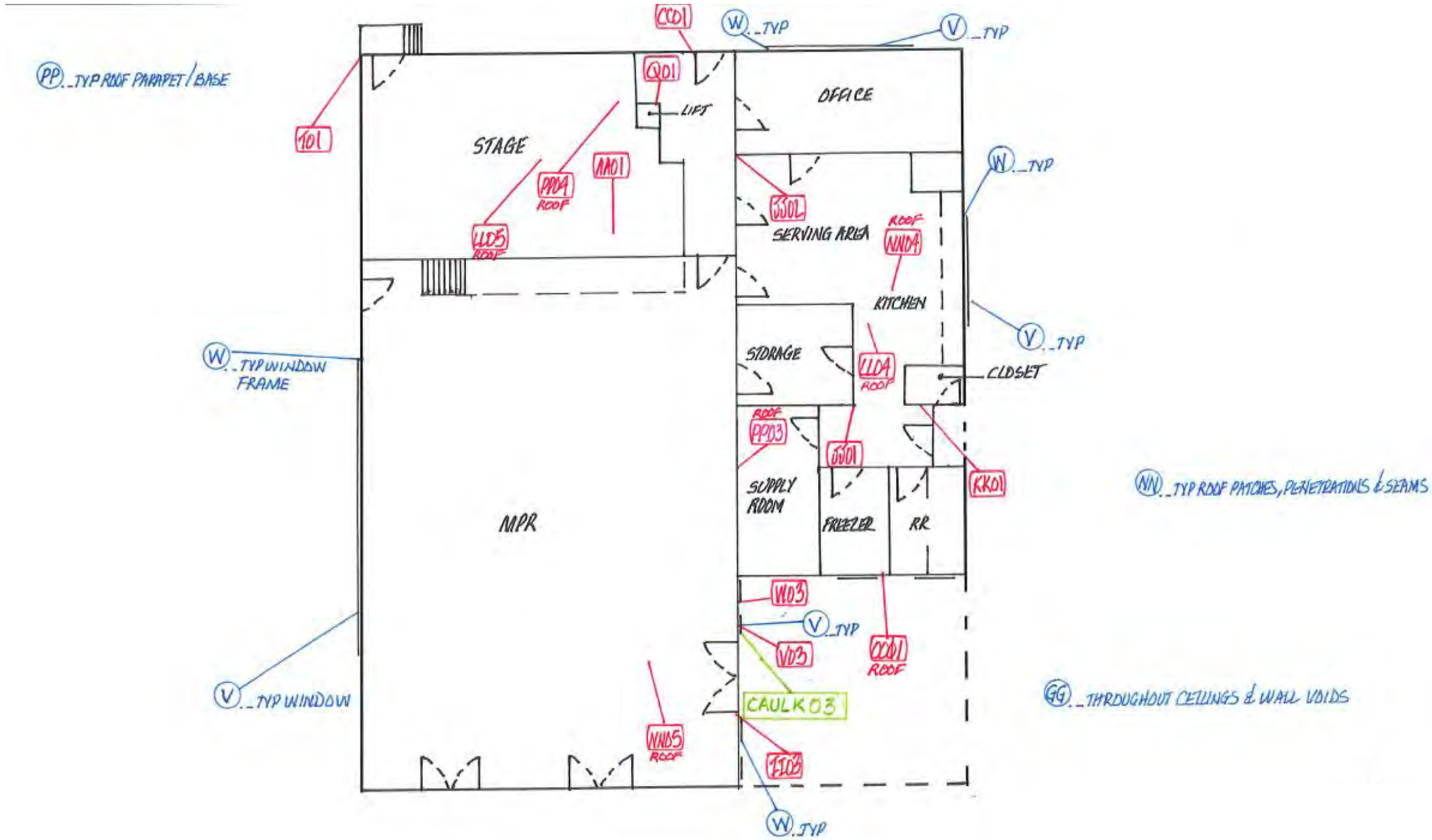
SHEET TITLE

Sample & Material Location Drawing
Main Building

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

2



Asbestos Sample Location

PCBs Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Main Building

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

3

MAIN BUILDING
PHOTO DOCUMENTATION

Asbestos Acoustic Plaster Ceiling

Asbestos Window Putty and Frame Sealant

Asbestos TSI Pipe & Fittings

Asbestos Roof Mastic

Asbestos Roof Parapet/Base

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226392
Date Received: 08/16/16
Date Analyzed: 08/18/16
Date Printed: 08/18/16
First Reported: 08/18/16

Job ID/Site: 160041001 - Harder Unified School District, Harder ES Main Building

FALI Job ID: L1161
Total Samples Submitted: 92
Total Samples Analyzed: 92

Date(s) Collected: 08/15/2016

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MAIN-A01	11798148						
Layer: Beige Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
MAIN-A02	11798149						
Layer: White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
MAIN-B01	11798150						
Layer: White Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
MAIN-C01	11798151						
Layer: Black Non-Fibrous Material			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
MAIN-D01	11798152						
Layer: Grey Cementitious Material			**ND**				
Layer: Black Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (Trace)							
MAIN-E01	11798153						
Layer: Beige Ceramic Tile			**ND**				
Layer: Off-White Grout			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MAIN-F01	11798154						
Layer: Tan Fibrous Material			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (30 %)		**Asbestos (ND)**					
MAIN-G01	11798155						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-G02	11798156						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-G03	11798157						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-G04	11798158						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-G05	11798159						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-G06	11798160						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-G07	11798161						
Layer: Off-White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MAIN-H01	11798162						
Layer: Off-White Semi-Fibrous Material		Chrysotile	**2 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (2%)**					
MAIN-H02	11798163						
Layer: Off-White Semi-Fibrous Material		Chrysotile	**2 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (2%)**					
MAIN-H03	11798164						
Layer: Off-White Semi-Fibrous Material		Chrysotile	**2 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (2%)**					
MAIN-H04	11798165						
Layer: Off-White Semi-Fibrous Material		Chrysotile	**2 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (2%)**					
MAIN-H05	11798166						
Layer: Off-White Semi-Fibrous Material		Chrysotile	**2 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (2%)**					
MAIN-H06	11798167						
Layer: Off-White Semi-Fibrous Material		Chrysotile	**2 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (2%)**					
MAIN-H07	11798168						
Layer: Off-White Semi-Fibrous Material		Chrysotile	**2 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (2%)**					
MAIN-I01	11798169						
Layer: Green Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MAIN-I02	11798170						
Layer: Green Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
MAIN-I03	11798171						
Layer: Green Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
MAIN-J01	11798172						
Layer: Green Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
MAIN-J02	11798173						
Layer: Green Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
MAIN-J03	11798174						
Layer: Green Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
MAIN-K01	11798175						
Layer: Green Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
MAIN-K02	11798176						
Layer: Green Mastic			**ND**				
Layer: Grey Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (2 %)							
MAIN-L01	11798177						
Layer: Brown Mastic			**ND**				
Layer: Beige Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (35 %) Fibrous Glass (45 %)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MAIN-L02	11798178						
Layer: Brown Mastic			**ND**				
Layer: Beige Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (35 %) Fibrous Glass (45 %)		**Asbestos (ND)**					
MAIN-M01	11798179						
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
MAIN-N01	11798180						
Layer: Green Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-O01	11798181						
Layer: Red Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (10 %)		**Asbestos (ND)**					
MAIN-P01	11798182						
Layer: Red Non-Fibrous Material			**ND**				
Layer: White Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-R01	11798183						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-S01	11798184						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (ND)**					
MAIN-T01	11798185						
Layer: Grey Cementitious Material			**ND**				
Layer: Multi-Layer Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MAIN-T02	11798186						
Layer: Grey Cementitious Material			**ND**				
Layer: Multi-Layer Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-T03	11798187						
Layer: Grey Cementitious Material			**ND**				
Layer: Multi-Layer Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-U01	11798188						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-U02	11798189						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-U03	11798190						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-V01	11798191						
Layer: Off-White Putty		Chrysotile	**2 %**				
Layer: White Putty		Chrysotile	**Trace**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
MAIN-V02	11798192						
Layer: Off-White Putty		Chrysotile	**2 %**				
Layer: White Putty		Chrysotile	**Trace**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					
MAIN-V03	11798193						
Layer: White Putty		Chrysotile	**Trace**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (Trace)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MAIN-W01	11798194						
Layer: Brown Non-Fibrous Material		Chrysotile	**10 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (10%)**					
MAIN-W02	11798195						
Layer: Brown Non-Fibrous Material		Chrysotile	**10 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (10%)**					
MAIN-W03	11798196						
Layer: Brown Non-Fibrous Material		Chrysotile	**10 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (10%)**					
MAIN-X01	11798197						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-Y01	11798198						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-Z01	11798199						
Layer: Tan Non-Fibrous Material			**ND**				
Layer: Brown Mastic			**ND**				
Layer: White Plaster			**ND**				
Layer: Off-White Plaster			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-Z02	11798200						
Layer: Off-White Semi-Fibrous Material			**ND**				
Layer: Tan Non-Fibrous Material			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %)		**Asbestos (ND)**					
MAIN-AA01	11798201						
Layer: Beige Fibrous Material			**ND**				
Layer: Blue Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Synthetic (45 %)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MAIN-BB01	11798202						
Layer: Green Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-CC01	11798203						
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Multi-Layer Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-DD01	11798204						
Layer: White Drywall			**ND**				
Total Composite Values of Fibrous Components: Cellulose (15 %)		**Asbestos (ND)**					
MAIN-EE01	11798205						
Layer: Black Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (85 %)		**Asbestos (ND)**					
MAIN-EE02	11798206						
Layer: Black Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (85 %)		**Asbestos (ND)**					
MAIN-EE03	11798207						
Layer: Black Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (85 %)		**Asbestos (ND)**					
MAIN-FF01	11798208						
Layer: White Drywall			**ND**				
Total Composite Values of Fibrous Components: Cellulose (15 %)		**Asbestos (ND)**					
MAIN-GG01	11798209						
Layer: White Semi-Fibrous Material		Chrysotile	**5 %**	Amosite	**7 %**		
Layer: Tan Woven Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (11%)**					
MAIN-GG02	11798210						
Layer: White Semi-Fibrous Material		Chrysotile	**5 %**	Amosite	**7 %**		
Layer: Tan Woven Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (11%)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MAIN-GG03	11798211						
Layer: White Semi-Fibrous Material		Chrysotile	**5 %**	Amosite	**7 %**		
Layer: Tan Woven Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (11%)**					
MAIN-HH01	11798212						
Layer: White Semi-Fibrous Material			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (85 %)		**Asbestos (ND)**					
MAIN-II01	11798213						
Layer: Grey Cementitious Material			**ND**				
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-II02	11798214						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-II03	11798215						
Layer: Grey Cementitious Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-JJ01	11798216						
Layer: Blue Sheet Flooring			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-JJ02	11798217						
Layer: Blue Sheet Flooring			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-KK01	11798218						
Layer: Tan Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (90 %)		**Asbestos (ND)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MAIN-LL01	11798219						
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (55 %) Synthetic (2 %)							
Comment: Bulk complex sample.							
MAIN-LL02	11798220						
Layer: Off-White Foam			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (55 %)							
Comment: Bulk complex sample.							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MAIN-LL03	11798221						
Layer: Off-White Foam			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (55 %)							
Comment: Bulk complex sample.							
MAIN-LL04	11798222						
Layer: Off-White Foam			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Layer: Black Tar			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (45 %) Synthetic (10 %)							
Comment: Bulk complex sample.							
MAIN-LL05	11798223						
Layer: Off-White Foam			**ND**				
Layer: Red Non-Fibrous Material			**ND**				
Layer: Black Felt			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (15 %)							
MAIN-MM01	11798224						
Layer: Yellow Foam			**ND**				
Layer: Tan Non-Fibrous Material			**ND**				
Layer: White Non-Fibrous Coating			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MAIN-NN01	11798225						
Layer: Black Mastic		Chrysotile	**10 %**				
Layer: Tan Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (10%)**					
MAIN-NN02	11798226						
Layer: Black Mastic			**ND**				
Layer: Silver Paint			**ND**				
Layer: Paint			**ND**				
Layer: Yellow Foam			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Comment: Bulk complex sample.							
MAIN-NN03	11798227						
Layer: Black Mastic		Chrysotile	**7 %**				
Layer: Silver Paint			**ND**				
Layer: Black Tar			**ND**				
Layer: Paint			**ND**				
Layer: Yellow Foam			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (Trace)**					
Comment: Bulk complex sample.							
MAIN-NN04	11798228						
Layer: Black Mastic		Chrysotile	**10 %**				
Layer: Yellow Foam			**ND**				
Layer: Tan Non-Fibrous Material			**ND**				
Layer: White Non-Fibrous Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (6%)**					
MAIN-NN05	11798229						
Layer: White Non-Fibrous Coating			**ND**				
Layer: Tan Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
MAIN-OO01	11798230						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (ND)**					
MAIN-PP01	11798231						
Layer: Black Semi-Fibrous Tar		Chrysotile	**10 %**				
Layer: Yellow Foam			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (2%)**					

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Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
MAIN-PP02	11798232						
Layer: Black Semi-Fibrous Tar			**ND**				
Layer: Red Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (7 %)							
MAIN-PP03	11798233						
Layer: Black Semi-Fibrous Tar			**ND**				
Layer: Off-White Foam			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %) Fibrous Glass (5 %) Synthetic (5 %)							
MAIN-PP04	11798234						
Layer: Black Semi-Fibrous Tar			**ND**				
Layer: Off-White Foam			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %) Synthetic (5 %)							
MAIN-QQ01	11798235						
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
MAIN-RR01	11798236						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (7 %)							
MAIN-SS01	11798237						
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
MAIN-TT01	11798238						
Layer: Off-White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
MAIN-A03	11798239						
Layer: Beige Plaster			**ND**				
Layer: White Plaster			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226392

Client Name: Vista Environmental Consultants

Date Printed: 08/18/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Point Count Analysis

(NESHAP Final Rule, 40 CFR, Part 61)

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: N008526
Date Received: 08/16/16
Date Analyzed: 08/24/16
Date Printed: 08/24/16

Job ID/Site: 160041001 - Harder Unified School District, Harder ES Main Building

PLM Report Number: B226392

FALI Job ID: L1161
Total Samples Submitted: 7
Total Samples Analyzed: 2

Sample Preparation and Analysis:

The NESHAP Final Rule does not define the preparation method for multi-layered samples. In order to determine the composite quantity of asbestos, the volume percent of each layer is determined, the asbestos containing layers are analyzed by point counting and the composite quantity of asbestos is calculated. The NESHAP Final Rule can not be applied to matrices that dissolve in refractive index liquid. This includes tar, mastic or adhesive typically found on the back of floor tiles. According to the NESHAP Final Rule, point count data is only necessary when the visual estimate of asbestos is below 10%.

Sample ID	Lab Number	Layer Description
MAIN-H01	11798162	**Off-White Semi-Fibrous Material**

Point Count Results:

Number of asbestos points counted:	3
Number of non-empty points:	400
Layer percentage of entire sample:	95
Percent asbestos in layer:	**< 1**

Asbestos type(s) detected: Chrysotile

Comment:

MAIN-H02	11798163	**Off-White Semi-Fibrous Material**

Point Count Results:

Number of asbestos points counted:	6
Number of non-empty points:	400
Layer percentage of entire sample:	95
Percent asbestos in layer:	**2**

Asbestos type(s) detected: Chrysotile

Comment:

Note: Point count results are reported to the nearest percent per EPA method.

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 1%. Trace denotes the presence of asbestos below the LOQ. ND = None Detected.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8/15/16

LOCATION: Harder ES Main Building

PROJECT NUMBER: 160041001

SAMPLED BY: Chris Burns

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
Main	A	01	Paint/ Plaster	White/Gray, smooth (w&c)		
Main	A	02	↓	↓		
Main	B	01	WB / JC	white/white, Restroom		
Main	C	01	Wall Panel	Blue, lower wall		
Main	D	01	Coating	Gray, Floor		
Main	E	01	Mortar/ Grout	white/Gray, ceramic tile, yellow		
Main	F	01	Mortar/ Grout	White, Gray, ceramic tile Gray		
Main	G	01	Paint/ Plaster	White, Gray, Rough (walls)		
Main	G	02	↓	↓		
Main	G	03	↓	↓		

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. TRANSFER SIGNATURE — Chris Burns PRINTED NAME — 8/15/16 DATE/TIME

2. TRANSFER SIGNATURE — S. Hollister PRINTED NAME — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 1 OF 10

* rep client OK w/ 2 DAY TAT * SH 8/15/16

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8/15/16

LOCATION: Harder ES Main Building

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
Main	G	04	↓	↓		
Main	G	05	↓	↓		
Main	G	06	↓	↓		
Main	G	07	↓	↓		
Main	H	01	Paint / Plaster	White / Grey, Acoustic ceiling		
Main	H	02	↓	↓		
Main	H	03	↓	↓		
Main	H	04	↓	↓		
Main	H	05	↓	↓		
Main	H	06	↓	↓		

ANALYTICAL METHOD: PLM 400 PT COUNT

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

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ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8/15/16

LOCATION: Harder ES Main Building

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92024

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
Main	H	07	↓	↓		
Main	I	01	VFT/ Mas	12" Blue/ Yellow		
Main	I	02	↓	↓		
Main	I	03	↓	↓		
Main	J	01	BC/M	4" Blue/ Yellow + Brown		
Main	J	02	↓	↓		
Main	J	03	↓	↓		
Main	K	01	Mastic	Green, carpet		
Main	K	02	↓	↓		
Main	L	01	ACT/Mas	12" White, Fissured		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
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SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. TRANSFER SIGNATURE — Chris Burns PRINTED NAME — 8/15/16 DATE/TIME

2. TRANSFER SIGNATURE — S. Hollister PRINTED NAME — DATE/TIME

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ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8/15/16

LOCATION: Harder ES Main Building

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
MAIN	L	02	↓	↓		
MAIN	M	01	Mastic	Yellow, wans COT		
MAIN	N	01	BC/M	6" Blue/ yellow + Brown		
MAIN	O	01	Sealant	Red, Fire stop		
MAIN	P	01	Brick/ Morter	Red/ Brown		
MAIN	R	01	BC/M	4" Black/ yellow + Brown		
MAIN	S	01	VSF	Brown, (Phone Booth)		
MAIN	T	01	Paint/ Stucco	Beige/ Grey, wall		
MAIN	T	02	↓	↓		
MAIN	T	03	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY (24HR) 48 HR) 3 DAY

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3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8/15/16

LOCATION: Harder ES Main Building

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
MAIN	U	01	Paint / Stucco	Beige / Gray, walkway ceiling		
MAIN	U	02	↓	↓		
MAIN	U	03	↓	↓		
MAIN	V	01	Putty	White, Window		
MAIN	V	02	↓	↓		
MAIN	V	03	↓	↓		
MAIN	W	01	Sealant	Tan, window Frame		
MAIN	W	02	↓	↓		
MAIN	W	03	↓	↓		
MAIN	X	01	Sealant	White, Door Frame (INT)		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
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1. TRANSFER SIGNATURE — PRINTED NAME: Chris Burns — DATE/TIME: 8/15/16 @ 3:10
2. TRANSFER SIGNATURE — PRINTED NAME: S. Hollister — DATE/TIME: 8/15/16
3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8/5/16

LOCATION: Harder ES Main Building

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
MAIN	Y	01	Sealant	White, wood trim on wall (E)		
MAIN	Z	01	Mastic	Brown & Black wall Panel		
MAIN	Z	02	↓	↓		
MAIN	AA	01	Fire Curtain	Beige		
MAIN	BB	01	Coating	Beige & Green, Hand rail		
MAIN	CC	01	Sealant	Gray, Door Frame. EXT		
MAIN	DD	01	lathe	White, Button Board		
MAIN	EE	01	Insulation	Black, Attic		
MAIN	EE	02	↓	↓		
MAIN	EE	03	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR ~~48 HR~~ 3 DAY

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2. TRANSFER SIGNATURE — S. Holliger PRINTED NAME — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

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SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8/15/16

LOCATION: Harder ES Main Building

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
MAIN	FF	01	Wallboard	Black, No JC		
MAIN	GG	01	TSI	4" OD pipe + Fittings		
MAIN	GG	02	↓	↓		
MAIN	GG	03	↓	↓		
MAIN	HH	01	Mastic	Yellow, wood Paneling		
MAIN	II	01	Concrete	Gray, Foundation		
MAIN	II	02	↓	↓		
MAIN	II	03	↓	↓		
MAIN	JJ	01	VSF/MASTIC	BLUE/WHITE + BLACK		
MAIN	JJ	02	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 5 DAY

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QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. TRANSFER SIGNATURE — Chris Burns (PRINTED NAME) — 8/15/16 (DATE/TIME)
2. TRANSFER SIGNATURE — S. Hollister (PRINTED NAME) — DATE/TIME
3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8/15/2016

LOCATION: Harder ES Main Building

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
MAIN	KK	01	ACOUSTIC CEILING TILE/ MASTIC	12" WHITE UNIFORM HOLES/ BROWN		
MAIN	LL	01	ROOF FIELD	BLACK + RED TAR + GRAVEL		
MAIN	LL	02	↓	↓		
MAIN	LL	03	↓	↓		
MAIN	LL	04	↓	↓		
MAIN	LL	05	↓	↓		
MAIN	MM	01	COATING	WHITE + YELLOW, ROOF		
MAIN	NN	01	MASTIC	GRAY + BLACK, PENETRATION, PATCHES		
MAIN	NN	02	↓	↓		
MAIN	NN	03	↓	↓		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	[signature]	LUIS J ROCHA	08/15/16
2.	[signature]	S. HOLLISTER	
3.			

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8-15-2016

LOCATION: Harder ES Main Building

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
MAIN	NN	04	MASTIC	GREY + BLACK, PENETRATIONS, PATCHES		
MAIN	NN	05	↓	↓		
MAIN	OO	01	FLASHING	BLACK, ROOF		
MAIN	PP	01	PARAPET/ BASE	BLACK, TAR + GRAVEL		
MAIN	PP	02	↓	↓		
MAIN	PP	03	↓	↓		
MAIN	PP	04	↓	↓		
MAIN	QQ	01	SEALANT	WHITE PATCHING		
MAIN	RR	01	SEALANT	GRAY, PATCHING		
MAIN	SS	01	SEALANT	GRAY, SKYLIGHTS		

ANALYTICAL METHOD: PLM 400 PT COUNT TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. TRANSFER SIGNATURE — LUIS J ROCHA PRINTED NAME — 8/15/16 DATE/TIME
2. TRANSFER SIGNATURE — S. Hollister PRINTED NAME — DATE/TIME
3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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ASBESTOS BULK SAMPLE LOG

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SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8-15-16

LOCATION: Harder ES Main Building

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
MAIN	TT	01	SEALANT	WHITE FASCIA		
MAIN	A	03	PAINT/ PLASTER	WHITE/ GREY, SMOOTH		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.		LUIS J ROCHA	08/15/16
2.		S. Hollister	
3.			

AUG - 5 2016

PAGE 10 OF 10

HUSD
Harder ES - Main Bldg.
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
426	MAIN	OUTSIDE	WALL	STUCCO	BEIGE	INTACT	Negative	0.01	mg/cm^2
427	MAIN	OUTSIDE	WALL	STUCCO	RED	INTACT	Negative	0	mg/cm^2
428	MAIN	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
429	MAIN	OUTSIDE	DOOR	WOOD	TAN	INTACT	Negative	0	mg/cm^2
430	MAIN	OUTSIDE	FLOOR STRIPE	CONCRETE	YELLOW	INTACT	Negative	0.4	mg/cm^2
431	MAIN	OUTSIDE	FLOOR	CONCRETE	RED	INTACT	Negative	0	mg/cm^2
432	MAIN	OUTSIDE	HAND RAIL	WOOD	TAN	INTACT	Negative	0	mg/cm^2
433	MAIN	OUTSIDE	COLUMN	WOOD	TAN	INTACT	Positive	1.4	mg/cm^2
434	MAIN	OUTSIDE	DOWNSPOUT	METAL	TAN	INTACT	Negative	0.21	mg/cm^2
435	MAIN	OUTSIDE	OVERHANG	STUCCO	BEIGE	INTACT	Negative	0	mg/cm^2
436	MAIN	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Positive	2.3	mg/cm^2
437	MAIN	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
438	MAIN	OUTSIDE	HAND RAIL BASE	CONCRETE	BEIGE	INTACT	Negative	0.06	mg/cm^2
439	MAIN	OUTSIDE	WALL	STUCCO	PURPLE	INTACT	Negative	0	mg/cm^2
440	MAIN	OUTSIDE	WALL	STUCCO	BROWN	INTACT	Negative	0.04	mg/cm^2
441	MAIN	OUTSIDE	WALL	STUCCO	BLUE, LIGHT	INTACT	Negative	0.02	mg/cm^2
442	MAIN	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Positive	3.1	mg/cm^2
443	MAIN	OUTSIDE	WINDOW	METAL	TAN	INTACT	Negative	0.8	mg/cm^2
444	MAIN	OUTSIDE	DOWNSPOUT	METAL	BEIGE	INTACT	Negative	0.16	mg/cm^2
445	MAIN	OUTSIDE	EAVE	STUCCO	BEIGE	INTACT	Negative	0	mg/cm^2
446			CALIBRATE				Positive	1	mg/cm^2
447			CALIBRATE				Positive	1.2	mg/cm^2
448			CALIBRATE				Positive	1	mg/cm^2
449	MAIN	OUTSIDE	DOOR FRAME	WOOD	BEIGE	DETERIORATED	Positive	2	mg/cm^2
450	MAIN	OUTSIDE	DOOR	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

HUSD
Harder ES - Main Bldg.
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
451	MAIN	OUTSIDE	BENCH	WOOD	RED	DETERIORATED	Negative	0.5	mg/cm^2
452	MAIN	OUTSIDE	HAND RAIL	METAL	RED	DETERIORATED	Negative	0.18	mg/cm^2
453	MAIN	OUTSIDE	FLOOR	CONCRETE	RED	INTACT	Negative	0	mg/cm^2
454	MAIN	OUTSIDE	WALL PANEL	WOOD	TAN	INTACT	Negative	0.4	mg/cm^2
455	MAIN	CLASSROOMS	WALL	WOOD	WHITE	INTACT	Negative	0.14	mg/cm^2
456	MAIN	CLASSROOMS	TRIM	WOOD	WHITE	INTACT	Negative	0.17	mg/cm^2
457	MAIN	CLASSROOMS	WALL	PLASTER	WHITE	INTACT	Negative	0.12	mg/cm^2
458	MAIN	CLASSROOMS	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
459	MAIN	CLASSROOMS	DOOR	WOOD	TAN	INTACT	Negative	0	mg/cm^2
460	MAIN	CLASSROOMS	CABINET	WOOD	WHITE	INTACT	Negative	0.15	mg/cm^2
461	MAIN	CLASSROOMS	WINDOW FRAME	WOOD	TAN	INTACT	Positive	1.1	mg/cm^2
462	MAIN	CLASSROOMS	WINDOW SILL	WOOD	TAN	INTACT	Positive	1.3	mg/cm^2
463	MAIN	CLASSROOMS	WINDOW	METAL	TAN	INTACT	Negative	0.8	mg/cm^2
464	MAIN	CLASSROOMS	HVAC	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
465	MAIN	CLASSROOMS	WALL	WOOD	WHITE	INTACT	Negative	0.1	mg/cm^2
466	MAIN	CLASSROOMS	TRIM	WOOD	WHITE	INTACT	Negative	0.17	mg/cm^2
467	MAIN	CLASSROOMS	WALL	PLASTER	WHITE	INTACT	Negative	0.18	mg/cm^2
468	MAIN	CLASSROOMS	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
469	MAIN	CLASSROOMS	CABINET	WOOD	WHITE	INTACT	Negative	0.07	mg/cm^2
470	MAIN	CLASSROOMS	WINDOW	METAL	TAN	INTACT	Positive	1.2	mg/cm^2
471	MAIN	CLASSROOMS	WALL	WOOD	WHITE	INTACT	Negative	0.03	mg/cm^2
472	MAIN	CLASSROOMS	TRIM	WOOD	WHITE	INTACT	Negative	0.02	mg/cm^2
473	MAIN	CLASSROOMS	CABINET	WOOD	WHITE	INTACT	Negative	0.02	mg/cm^2
474	MAIN	CLASSROOMS	WALL	PLASTER	WHITE	INTACT	Negative	0.04	mg/cm^2
475	MAIN	CLASSROOMS	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

HUSD
Harder ES - Main Bldg.
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
476	MAIN	CLASSROOMS	DOOR	WOOD	TAN	INTACT	Negative	0	mg/cm^2
477	MAIN	RESTROOMS	WALL PANEL	DRYWALL	BLUE	INTACT	Negative	0	mg/cm^2
478	MAIN	RESTROOMS	WALL	PLASTER	WHITE	INTACT	Negative	0	mg/cm^2
479	MAIN	RESTROOMS	TRIM	WOOD	WHITE	INTACT	Negative	0	mg/cm^2
480	MAIN	RESTROOMS	DOOR	WOOD	TAN	INTACT	Negative	0	mg/cm^2
481	MAIN	RESTROOMS	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
482	MAIN	RESTROOMS	CEILING	PLASTER	WHITE	INTACT	Negative	0.06	mg/cm^2
483	MAIN	RESTROOMS	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0.5	mg/cm^2
484	MAIN	RESTROOMS	WINDOW SILL	WOOD	TAN	INTACT	Negative	0.5	mg/cm^2
485	MAIN	RESTROOMS	WINDOW	METAL	TAN	INTACT	Negative	0.2	mg/cm^2
486	MAIN	RESTROOMS	FLOOR	CONCRETE	GRAY	INTACT	Negative	0	mg/cm^2
487	MAIN	RESTROOMS	WALL	CERAMIC	GRAY	INTACT	Negative	0.01	mg/cm^2
488	MAIN	RESTROOMS	FLOOR	CERAMIC	WHITE	INTACT	Negative	0	mg/cm^2
489	MAIN	RESTROOMS	WALL	PLASTER	WHITE	INTACT	Negative	0.1	mg/cm^2
490	MAIN	RESTROOMS	CEILING	PLASTER	WHITE	INTACT	Negative	0.11	mg/cm^2
491	MAIN	RESTROOMS	STALL	METAL	BLACK	INTACT	Negative	0	mg/cm^2
492	MAIN	RESTROOMS	STALL	METAL	GRAY	INTACT	Negative	0	mg/cm^2
493	MAIN	RESTROOMS	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
494	MAIN	RESTROOMS	DOOR	WOOD	TAN	INTACT	Negative	0	mg/cm^2
495	MAIN	RESTROOMS	WALL	CERAMIC	TAN	INTACT	Positive	6.5	mg/cm^2
496	MAIN	RESTROOMS	FLOOR	CERAMIC	GREEN	INTACT	Negative	0.01	mg/cm^2
497	MAIN	RESTROOMS	WALL	PLASTER	BLUE, LIGHT	INTACT	Negative	0.21	mg/cm^2
498	MAIN	RESTROOMS	WALL	CERAMIC	TAN	INTACT	Positive	7.1	mg/cm^2
499	MAIN	RESTROOMS	WALL	PLASTER	WHITE	INTACT	Negative	0.12	mg/cm^2
500	MAIN	RESTROOMS	FLOOR	CERAMIC	GREEN	INTACT	Negative	0.01	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

HUSD
Harder ES - Main Bldg.
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
501	MAIN	OFFICE HALLWAY	WALL PANEL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
502	MAIN	OFFICE HALLWAY	WALL PANEL	WOOD	RED	INTACT	Negative	0	mg/cm^2
503	MAIN	OFFICE HALLWAY	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
504	MAIN	OFFICE HALLWAY	DOOR	WOOD	TAN	INTACT	Negative	0	mg/cm^2
505	MAIN	OFFICE HALLWAY	DOOR	WOOD	VARNISH	INTACT	Negative	0	mg/cm^2
506	MAIN	OFFICE HALLWAY	FIRE HOSE CASE	METAL	RED	INTACT	Negative	0.8	mg/cm^2
507	MAIN	OFFICE HALLWAY	TRIM	WOOD	TAN	INTACT	Negative	0	mg/cm^2
508	MAIN	OFFICE HALLWAY	TRIM	WOOD	WHITE	INTACT	Negative	0	mg/cm^2
509	MAIN	OFFICE HALLWAY	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0.08	mg/cm^2
510	MAIN	OFFICE HALLWAY	FLOOR	VINYL	BROWN	INTACT	Negative	0	mg/cm^2
511	MAIN	OFFICE HALLWAY	WALL	WOOD	VARNISH	INTACT	Negative	0	mg/cm^2
512	MAIN	OFFICE HALLWAY	WALL PANEL	WOOD	TAN	INTACT	Negative	0.12	mg/cm^2
513	MAIN	OFFICE HALLWAY	DOOR FRAME	WOOD	TAN	INTACT	Positive	1.7	mg/cm^2
514	MAIN	MPR	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
515	MAIN	MPR	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
516	MAIN	MPR	DOOR	WOOD	TAN	INTACT	Negative	0	mg/cm^2
517	MAIN	MPR	WINDOW SILL	WOOD	TAN	INTACT	Negative	0.02	mg/cm^2
518	MAIN	MPR	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0.06	mg/cm^2
519	MAIN	MPR	WALL PANEL	WOOD	RED	INTACT	Negative	0.03	mg/cm^2
520	MAIN	MPR	WALL	PLASTER	WHITE	INTACT	Negative	0.14	mg/cm^2
521	MAIN	MPR	WINDOW	METAL	TAN	INTACT	Negative	0.24	mg/cm^2
522	MAIN	MPR	WINDOW SILL	WOOD	TAN	INTACT	Negative	0.3	mg/cm^2
523	MAIN	OFFICE	WALL	PLASTER	WHITE	INTACT	Negative	0.08	mg/cm^2
524	MAIN	OFFICE	WALL PANEL	WOOD	WHITE	INTACT	Negative	0.08	mg/cm^2
525	MAIN	OFFICE	WALL PANEL	WOOD	RED	INTACT	Negative	0.09	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

HUSD
Harder ES - Main Bldg.
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
526	MAIN	OFFICE	WALL	CERAMIC	TAN	INTACT	Positive	7	mg/cm^2
527	MAIN	OFFICE	FLOOR	CERAMIC	GREEN	INTACT	Negative	0	mg/cm^2
528	MAIN	OFFICE	DOOR FRAME	WOOD	RED	INTACT	Negative	0.03	mg/cm^2
529	MAIN	OFFICE	CEILING	PLASTER	WHITE	INTACT	Negative	0.07	mg/cm^2
530	MAIN	OFFICE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0.4	mg/cm^2
531	MAIN	OFFICE	WINDOW SILL	WOOD	TAN	INTACT	Negative	0.6	mg/cm^2
532	MAIN	OFFICE	WINDOW	METAL	TAN	INTACT	Negative	0.3	mg/cm^2
533	MAIN	OFFICE	TRIM	STUCCO	WHITE	INTACT	Negative	0.05	mg/cm^2
534	MAIN	OFFICE	CABINET	WOOD	WHITE	INTACT	Negative	0.08	mg/cm^2
535	MAIN	OFFICE	PIPE	METAL	WHITE	INTACT	Negative	0	mg/cm^2
536	MAIN	MPR	STAIRS	WOOD	VARNISH	INTACT	Negative	0	mg/cm^2
537	MAIN	MPR	STAGE	WOOD	VARNISH	INTACT	Negative	0.04	mg/cm^2
538	MAIN	MPR	STAGE	WOOD	RED	INTACT	Negative	0.18	mg/cm^2
539	MAIN	MPR	VENT	METAL	TAN	INTACT	Negative	0.04	mg/cm^2
540	MAIN	MPR	DOOR FRAME	WOOD	TAN	INTACT	Negative	0.03	mg/cm^2
541	MAIN	MPR	WALL	PLASTER	WHITE	INTACT	Negative	0.03	mg/cm^2
542	MAIN	MPR	WHEELCHAIR LIFT	METAL	BLACK	INTACT	Negative	0	mg/cm^2
543	MAIN	OFFICE RESTROOM	WALL	CERAMIC	GRAY	INTACT	Negative	0	mg/cm^2
544	MAIN	OFFICE RESTROOM	FLOOR	CERAMIC	WHITE	INTACT	Negative	0	mg/cm^2
545	MAIN	OFFICE RESTROOM	STALL	METAL	GRAY	INTACT	Negative	0	mg/cm^2
546	MAIN	OFFICE RESTROOM	CEILING	PLASTER	WHITE	INTACT	Negative	0.09	mg/cm^2
547			CALIBRATE				Positive	1.1	mg/cm^2
548			CALIBRATE				Positive	1.2	mg/cm^2
549			CALIBRATE				Positive	1.1	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-74014-1
Client Project/Site: HUSD/Harder ES

For:
Vista Environmental Consulting, Inc
2984 Teagarden Street
San Leandro, California 94577

Attn: Chris Burns

Authorized for release by:
8/25/2016 9:42:58 AM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-74014-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-74014-1

Comments
No additional comments.

Receipt
The samples were received on 8/18/2016 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 15.9º C.

GC Semi VOA
Method 8082: The following samples appear to contain polychlorinated biphenyls (PCBs); however, due to weathering or other environmental processes, the PCBs in the sample do not closely match any of the laboratory's Aroclor standards used for instrument calibration: MAIN-PCB-SEAL01 (720-74014-1). The samples have been quantified and reported as a mixture of Aroclors 1254 and 1260. Due to the poor match with the Aroclor standard, there is increased qualitative and quantitative uncertainty associated with this result.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74014-1

Client Sample ID: MAIN-PCB-SEAL01 — Lab Sample ID: 720-74014-1

No Detections.

Client Sample ID: MAIN-PCB-CAULK01 — Lab Sample ID: 720-74014-2

No Detections.

Client Sample ID: MAIN-PCB-CAULK02 — Lab Sample ID: 720-74014-3

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74014-1

Client Sample ID: MAIN-PCB-SEAL01

Lab Sample ID: 720-74014-1

Date Collected: 08/18/16 08:00

Matrix: Solid

Date Received: 08/18/16 16:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		450	220	ug/Kg		08/23/16 09:27	08/24/16 21:48	1
Aroclor-1221	ND		450	210	ug/Kg		08/23/16 09:27	08/24/16 21:48	1
Aroclor-1232	ND		450	140	ug/Kg		08/23/16 09:27	08/24/16 21:48	1
Aroclor-1242	ND		450	180	ug/Kg		08/23/16 09:27	08/24/16 21:48	1
Aroclor-1248	ND		450	150	ug/Kg		08/23/16 09:27	08/24/16 21:48	1
Aroclor-1254	ND		450	130	ug/Kg		08/23/16 09:27	08/24/16 21:48	1
Aroclor-1260	ND		450	160	ug/Kg		08/23/16 09:27	08/24/16 21:48	1
Aroclor-1262	ND		450	72	ug/Kg		08/23/16 09:27	08/24/16 21:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*14 - 128*	*08/23/16 09:27*	*08/24/16 21:48*	*1*
DCB Decachlorobiphenyl	*75*		*10 - 132*	*08/23/16 09:27*	*08/24/16 21:48*	*1*

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74014-1

Client Sample ID: MAIN-PCB-CAULK01

Lab Sample ID: 720-74014-2

Date Collected: 08/18/16 08:00

Matrix: Solid

Date Received: 08/18/16 16:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		500	240	ug/Kg		08/23/16 09:27	08/24/16 22:07	1
Aroclor-1221	ND		500	230	ug/Kg		08/23/16 09:27	08/24/16 22:07	1
Aroclor-1232	ND		500	160	ug/Kg		08/23/16 09:27	08/24/16 22:07	1
Aroclor-1242	ND		500	200	ug/Kg		08/23/16 09:27	08/24/16 22:07	1
Aroclor-1248	ND		500	170	ug/Kg		08/23/16 09:27	08/24/16 22:07	1
Aroclor-1254	ND		500	140	ug/Kg		08/23/16 09:27	08/24/16 22:07	1
Aroclor-1260	ND		500	180	ug/Kg		08/23/16 09:27	08/24/16 22:07	1
Aroclor-1262	ND		500	79	ug/Kg		08/23/16 09:27	08/24/16 22:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*14 - 128*	*08/23/16 09:27*	*08/24/16 22:07*	*1*
DCB Decachlorobiphenyl	*83*		*10 - 132*	*08/23/16 09:27*	*08/24/16 22:07*	*1*

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74014-1

Client Sample ID: MAIN-PCB-CAULK02

Lab Sample ID: 720-74014-3

Date Collected: 08/18/16 08:00

Matrix: Solid

Date Received: 08/18/16 16:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		480	230	ug/Kg		08/23/16 09:27	08/24/16 22:26	1
Aroclor-1221	ND		480	220	ug/Kg		08/23/16 09:27	08/24/16 22:26	1
Aroclor-1232	ND		480	150	ug/Kg		08/23/16 09:27	08/24/16 22:26	1
Aroclor-1242	ND		480	190	ug/Kg		08/23/16 09:27	08/24/16 22:26	1
Aroclor-1248	ND		480	160	ug/Kg		08/23/16 09:27	08/24/16 22:26	1
Aroclor-1254	ND		480	130	ug/Kg		08/23/16 09:27	08/24/16 22:26	1
Aroclor-1260	ND		480	170	ug/Kg		08/23/16 09:27	08/24/16 22:26	1
Aroclor-1262	ND		480	77	ug/Kg		08/23/16 09:27	08/24/16 22:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*48*		*14 - 128*	*08/23/16 09:27*	*08/24/16 22:26*	*1*
DCB Decachlorobiphenyl	*57*		*10 - 132*	*08/23/16 09:27*	*08/24/16 22:26*	*1*

Surrogate Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74014-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)							
		TCX2	DCB2						
Lab Sample ID	Client Sample ID	(14-128)	(10-132)						
720-74014-1	MAIN-PCB-SEAL01	66	75						
720-74014-2	MAIN-PCB-CAULK01	68	83						
720-74014-3	MAIN-PCB-CAULK02	48	57						
LCS 240-243809/18-A	Lab Control Sample	72	70						
MB 240-243809/17-A	Method Blank	74	68						

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-243809/17-A
Matrix: Solid
Analysis Batch: 244157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 243809

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor-1016	ND		500	240	ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1221	ND		500	230	ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1232	ND		500	160	ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1242	ND		500	200	ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1248	ND		500	170	ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1254	ND		500	140	ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1260	ND		500	180	ug/Kg		08/23/16 09:27	08/24/16 20:34	1
Aroclor-1262	ND		500	80	ug/Kg		08/23/16 09:27	08/24/16 20:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*14 - 128*	*08/23/16 09:27*	*08/24/16 20:34*	*1*
DCB Decachlorobiphenyl	*68*		*10 - 132*	*08/23/16 09:27*	*08/24/16 20:34*	*1*

Lab Sample ID: LCS 240-243809/18-A
Matrix: Solid
Analysis Batch: 244157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 243809

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor-1016			10000	7410		ug/Kg		74	47 - 120		
Aroclor-1260			10000	7560		ug/Kg		76	46 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*72*		*14 - 128*
DCB Decachlorobiphenyl	*70*		*10 - 132*

QC Association Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74014-1

GC Semi VOA

Prep Batch: 243809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74014-1	MAIN-PCB-SEAL01	Total/NA	Solid	3540C	
720-74014-2	MAIN-PCB-CAULK01	Total/NA	Solid	3540C	
720-74014-3	MAIN-PCB-CAULK02	Total/NA	Solid	3540C	
MB 240-243809/17-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-243809/18-A	Lab Control Sample	Total/NA	Solid	3540C	

Analysis Batch: 244157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74014-1	MAIN-PCB-SEAL01	Total/NA	Solid	8082	243809
720-74014-2	MAIN-PCB-CAULK01	Total/NA	Solid	8082	243809
720-74014-3	MAIN-PCB-CAULK02	Total/NA	Solid	8082	243809
MB 240-243809/17-A	Method Blank	Total/NA	Solid	8082	243809
LCS 240-243809/18-A	Lab Control Sample	Total/NA	Solid	8082	243809

Lab Chronicle

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74014-1

Client Sample ID: MAIN-PCB-SEAL01

Lab Sample ID: 720-74014-1
Date Collected: 08/18/16 08:00
Matrix: Solid
Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243809	08/23/16 09:27	SDE	TAL CAN
Total/NA	Analysis	8082		1	244157	08/24/16 21:48	LSH	TAL CAN

Client Sample ID: MAIN-PCB-CAULK01

Lab Sample ID: 720-74014-2
Date Collected: 08/18/16 08:00
Matrix: Solid
Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243809	08/23/16 09:27	SDE	TAL CAN
Total/NA	Analysis	8082		1	244157	08/24/16 22:07	LSH	TAL CAN

Client Sample ID: MAIN-PCB-CAULK02

Lab Sample ID: 720-74014-3
Date Collected: 08/18/16 08:00
Matrix: Solid
Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			243809	08/23/16 09:27	SDE	TAL CAN
Total/NA	Analysis	8082		1	244157	08/24/16 22:26	LSH	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74014-1

Laboratory: TestAmerica Pleasanton

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-18

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-17
Connecticut	State Program	1	PH-0590	12-31-17
Florida	NELAP	4	E87225	06-30-17
Illinois	NELAP	5	200004	07-31-17
Kansas	NELAP	7	E-10336	01-31-17
Kentucky (UST)	State Program	4	58	02-23-17
Kentucky (WW)	State Program	4	98016	12-31-16 *
Minnesota	NELAP	5	039-999-348	12-31-16 *
Minnesota (Petrofund)	State Program	1	3506	07-31-17
Nevada	State Program	9	OH-000482008A	07-31-17
New Jersey	NELAP	2	OH001	06-30-17
New York	NELAP	2	10975	03-31-17
Ohio VAP	State Program	5	CL0024	09-14-17
Oregon	NELAP	10	4062	02-23-17
Pennsylvania	NELAP	3	68-00340	08-31-17
Texas	NELAP	6	T104704517-15-5	08-31-16 *
USDA	Federal		P330-13-00319	11-26-16 *
Virginia	NELAP	3	460175	09-14-16 *
Washington	State Program	10	C971	01-12-17
West Virginia DEP	State Program	3	210	12-31-16 *
Wisconsin	State Program	5	999518190	08-31-17

* Certification renewal pending - certification considered valid.

Method Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74014-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74014-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-74014-1	MAIN-PCB-SEAL01	Solid	08/18/16 08:00	08/18/16 16:00
720-74014-2	MAIN-PCB-CAULK01	Solid	08/18/16 08:00	08/18/16 16:00
720-74014-3	MAIN-PCB-CAULK02	Solid	08/18/16 08:00	08/18/16 16:00

8/25/2016

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
phone 925.484.1919 fax 925.600.3002

720-74014

Chain of Custody Record

170494

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Burns	Site Contact:	Date:	COC No
Vista Environmental Consulting	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
2984 Teagarden Street	Analysis Turnaround Time			Sampler:
San Leandro, CA 94577	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
510-346-8860	TAT if different from Below _____			Walk-in Client:
888-296-0271 FAX	☐ 2 weeks			Lab Sampling:
	☒ 1 week			
Site: HUSD/Harder ES 160041001	☐ 2 days			Job / SDG No
Main Building	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs 8082	Pesticides-8081A	Title-22-CAM-17-Metals-6010B	VOCs-8260B	SVOCs-8270C	TPH MO, D & G-8015B	Mercury-7471A	Sample Specific Notes:
MAIN - PCB - SEALO1	8/18/16	0800	G	Solid	1			X							MAIN: Classroom
~~MAIN - PCB - SEALO2~~			G		1			X							
MAIN - PCB - CAULKO1			G		1			X							MAIN: Classroom
MAIN - PCB - CAULKO2			G		1			X							~~MPR~~ MAIN: MPR

720-74014 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments: Please email report to chrisburns@vista-env.com & molli@vista-env.com

15.9°C

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	~~CHRIS~~ VISTA	8/18/16 1500		VA	8/18/16 1600
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Phone (925) 484-1919 Fax (925) 600-3002

1.3 | C2.3

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Sharma, Dimple	Carrier Tracking No(s):	COC No: 720-30050.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: dimple.sharma@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 720-74014-1
Address: 4101 Shuffel Street NW, ,	Due Date Requested: 8/24/2016			
City: North Canton	TAT Requested (days):			
State, Zip: OH, 44720				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: HUSD/Harder ES	Project #: 72009369			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

C246

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082/3550B (MOD) PCB Standard List 9 Aroclors	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MAIN-PCB-SEAL01 (720-74014-1)	8/18/16	08:00 Pacific		Solid			X	1	
MAIN-PCB-CAULK01 (720-74014-2)	8/18/16	08:00 Pacific		Solid			X	1	
MAIN-PCB-CAULK02 (720-74014-3)	8/18/16	08:00 Pacific		Solid			X	1	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 8/19/16 1400	Company	Received by:	Date/Time: 08/20/16 930	Company JAL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** _____

Canton Facility

Client TA Pleasanton Site Name 720-74014-1 Cooler unpacked by: DSD

Cooler Received on 08/20/16 Opened on 08/22/16

FedEx: 1st Grd Exp UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

TestAmerica Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

☐ See Multiple Cooler Form

1. Cooler temperature upon receipt
   IR GUN# IR-8 (CF +1.3 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
   IR GUN #36 (CF +1.0°C) Observed Cooler Temp. 1.3 °C Corrected Cooler Temp. 2.3 °C
2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 2 Yes No
   -Were custody seals on the outside of the cooler(s) signed & dated? Yes No NA
   -Were custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
    If yes, Questions 11-15 have been checked at the originating laboratory.
11. Were sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# **HC574756**
12. Were VOAs on the COC? Yes No
13. Were air bubbles >6 mm in any VOA vials? Yes No NA
14. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____ Yes No
15. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

Samples processed by:

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

Ref: SOP NC-SC-0005, Sample Receiving

L:\QAQC\QA Department\QA TARDIS\Document Control\Work Instructions\In Revision\WI-NC-099-061316 Cooler Receipt Form.doc djl

Login Sample Receipt Checklist

Client: Vista Environmental Consulting, Inc

Job Number: 720-74014-1

Login Number: 74014

List Source: TestAmerica Pleasanton

List Number: 1

Creator: Arauz, Dennis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P16
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the eight samples collected and analyzed.

Lead-Based Paint and Materials

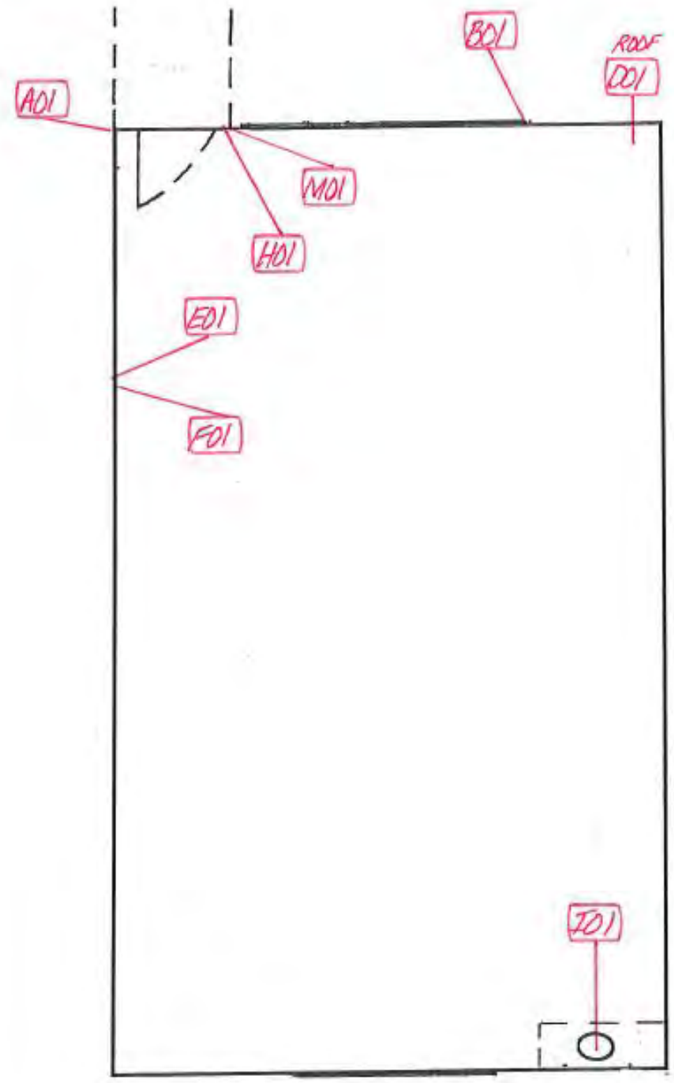
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P16
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	Tan, Window Frames & Door Frames	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Tan, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
H	Basecove/Mastic	4" Black/Beige	1
I	Mastic	Gray, Sink Undercoating	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING

www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 16

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226375
Date Received: 08/12/16
Date Analyzed: 08/17/16
Date Printed: 08/17/16
First Reported: 08/17/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P16)

Date(s) Collected: 08/11/2016

FALI Job ID: L1161
Total Samples Submitted: 8
Total Samples Analyzed: 8

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P16-A-01	11797971						
Layer: Paint			**ND**				
Layer: Tan Wood			**ND**				
Total Composite Values of Fibrous Components: Cellulose (50 %)		**Asbestos (ND)**					
P16-B-01	11797972						
Layer: Off-White Semi-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (5 %)		**Asbestos (ND)**					
P16-D-01	11797973						
Layer: Off-White Semi-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (5 %)		**Asbestos (ND)**					
P16-E-01	11797974						
Layer: Tan Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (90 %)		**Asbestos (ND)**					
P16-F-01	11797975						
Layer: Yellow Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %) Fibrous Glass (90 %)		**Asbestos (ND)**					
P16-H-01	11797976						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226375
Client Name: Vista Environmental Consultants **Date Printed:** 08/17/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P16-I-01	11797977						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P16-M-01	11797978						
Layer: Tan Mastic			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES Portables (P16)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P16	A	01	PAINT	BEIGE,	EXTERIOR	
P16	B	01	SEALANT	TAN,	WF&DF	
P16	D	01	SEALANT	OFF-WHITE,	ROOF SEAMS	
P16	E	01	PANEL/MAS	BEIGE/TAN,	WALL	
P16	F	01	ACP	2'X4' WHITE, FIBERGLASS		
P16	H	01	BASECOVE/MAS	4" BLACK/BEIGE		
P16	I	01	MASTIC	BLACK,	SINK	
P16	M	01	MASTIC	YELLOW,	CARPET	
—	—	—	8 SAMPLES		—	—

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis Rocha — TRANSFER SIGNATURE; LUIS J. ROCHA — PRINTED NAME; 08/12/16 — DATE/TIME

2. d/s — TRANSFER SIGNATURE; PRINTED NAME; 2:30 pm — DATE/TIME

3. TRANSFER SIGNATURE; PRINTED NAME; DATE/TIME

RECEIVED AUG 12 2016 CMM

PAGE 1 OF 1

HUSD
Harder ES - P16
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
280	P16	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
281	P16	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
282	P16	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
283	P16	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
284	P16	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
285	P16	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
286	P16	OUTSIDE	FLOOR STRIPE	CONCRETE	YELLOW	INTACT	Negative	0	mg/cm^2
287	P16	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
288	P16	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
289	P16	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0.04	mg/cm^2
290	P16	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0.04	mg/cm^2
291	P16	INSIDE	DOOR FRAME	METAL	BROWN	INTACT	Negative	0	mg/cm^2
292	P16	INSIDE	DOOR	METAL	BROWN	INTACT	Negative	0.01	mg/cm^2
293	P16	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
294	P16	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2
295	P16	INSIDE	CABINET	METAL	WHITE	INTACT	Negative	0	mg/cm^2
325			CALIBRATE				Positive	1.1	mg/cm^2
326			CALIBRATE				Positive	1.1	mg/cm^2
327			CALIBRATE				Positive	1	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

P16A

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

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P16A
HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY
B	Sealant	Tan	Window Frames , Door Frames & Seams	Class II	Category I - Non-Friable	17 SF (204 LF)
D	Sealant	Off-White	Roof Seams	Class II	Category I - Non-Friable	80 SF (960 LF)

Lead-Based Paint and Materials

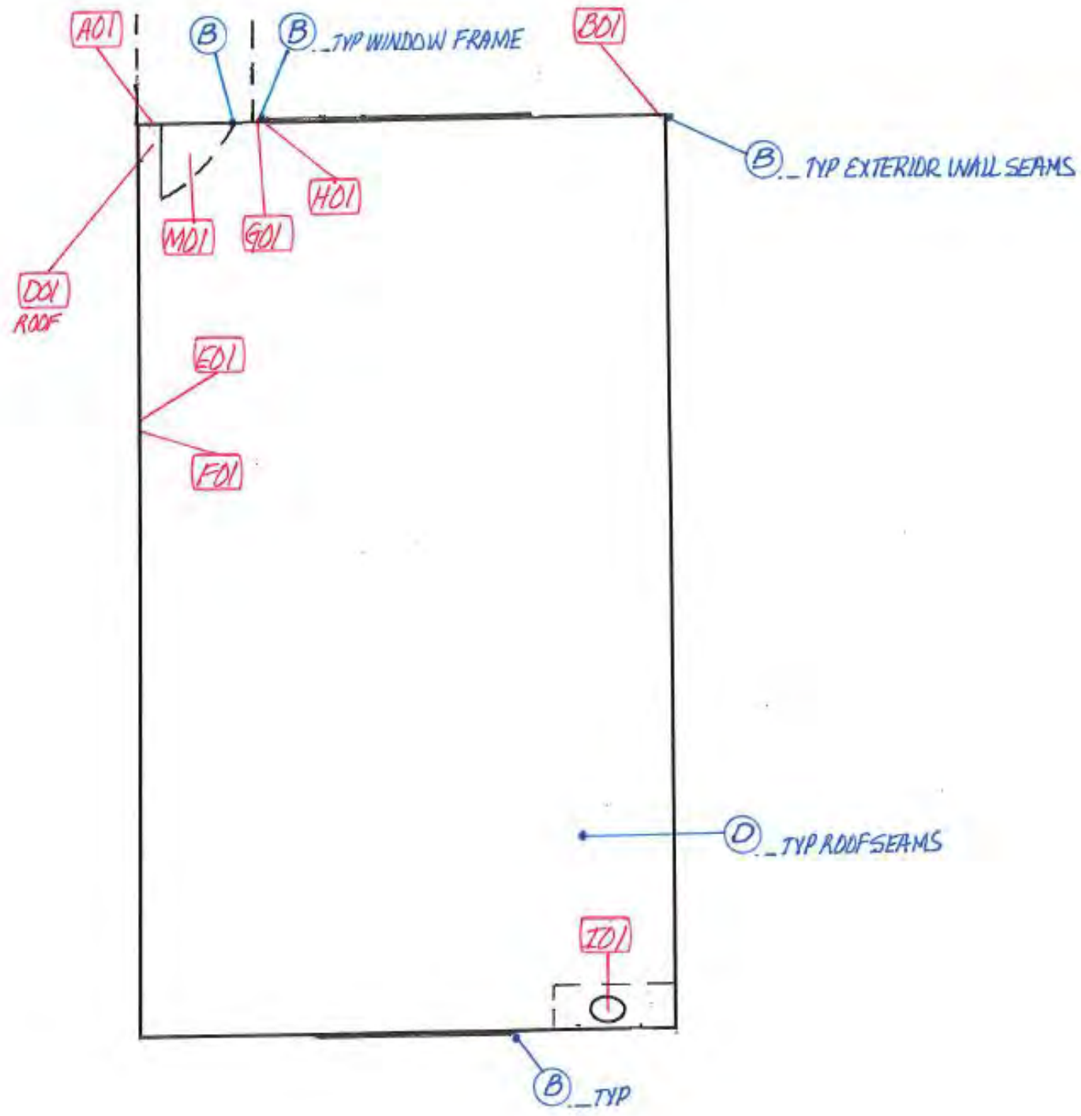
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P16A
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	Tan, Window Frames, Door Frames & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Sheet Flooring/Mastic	Off-White Pebble/Yellow	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Gray, Sink Undercoating	1
M	Mastic/Float	Yellow/White, Carpet	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 16A

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

P16A
PHOTO DOCUMENTATION

Asbestos Roof Seam Sealant

Asbestos Window Frame Sealant

Asbestos Door Frame Sealant

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226373
Date Received: 08/12/16
Date Analyzed: 08/17/16
Date Printed: 08/17/16
First Reported: 08/17/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P16A)

Date(s) Collected: 08/11/2016

FALI Job ID: L1161
Total Samples Submitted: 9
Total Samples Analyzed: 9

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P16A-A-01	11797946						
Layer: Beige Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
P16A-B-01	11797947						
Layer: Tan Semi-Fibrous Material		Chrysotile	**7 %**				
Total Composite Values of Fibrous Components:		**Asbestos (7%)**					
Cellulose (Trace) Synthetic (Trace)							
P16A-D-01	11797948						
Layer: White Semi-Fibrous Material		Chrysotile	**5 %**				
Total Composite Values of Fibrous Components:		**Asbestos (5%)**					
Cellulose (Trace)							
P16A-E-01	11797949						
Layer: Tan Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (95 %)							
P16A-F-01	11797950						
Layer: Yellow Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %) Fibrous Glass (90 %)							
P16A-G-01	11797951						
Layer: Off-White Sheet Flooring			**ND**				
Layer: Fibrous Backing			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (5 %) Synthetic (10 %)							
P16A-H-01	11797952						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

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Report Number: B226373
Client Name: Vista Environmental Consultants **Date Printed:** 08/17/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P16A-I-01	11797953						
Layer: Grey Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %) Synthetic (2 %)							
P16A-M-01	11797954						
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (Trace)							

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES Portables (P16A)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P16A	A	01	PAINT	BEIGE, EXTERIOR		
P16A	B	01	SEALANT	TAN, WF, DF		
P16A	D	01	SEALANT	BLACK & GRAY, WF & DF		
P16A	E	01	PANEL/MAS	BEIGE/BEIGE, WALL		
P16A	F	01	ACP	2'X4' WHITE, FIBERGLASS		
P16A	G	01	VSF/MAS	OFF-WHITE, PEBBLE/YELLOW		
P16A	H	01	BASECOVE/MAS	4" BROWN/BEIGE		
P16A	I	01	MASTIC	GRAY, SINK		
P16A	M	01	MASTIC/FLOOR	YELLOW/WHITE, CARPET		
			9 SAMPLES			

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis J. Rocha — TRANSFER SIGNATURE — LUIS J. ROCHA — PRINTED NAME — 08/12/16 — DATE/TIME

2. TRANSFER SIGNATURE — d/o — PRINTED NAME — 2:30 pm — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 1 OF 1

HUSD
Harder ES - P16A
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
264	P16A	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
265	P16A	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
266	P16A	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
267	P16A	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
268	P16A	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
269	P16A	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
270	P16A	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
271	P16A	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
272	P16A	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0.03	mg/cm^2
273	P16A	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0.03	mg/cm^2
274	P16A	INSIDE	DOOR FRAME	METAL	BROWN	INTACT	Negative	0	mg/cm^2
275	P16A	INSIDE	DOOR	METAL	BROWN	INTACT	Negative	0	mg/cm^2
276	P16A	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
277	P16A	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2
278	P16A	INSIDE	CABINET	WOOD	VARNISH	INTACT	Negative	0	mg/cm^2
279	P16A	INSIDE	CABINET	WOOD	WHITE	INTACT	Negative	0	mg/cm^2
325			CALIBRATE				Positive	1.1	mg/cm^2
326			CALIBRATE				Positive	1.1	mg/cm^2
327			CALIBRATE				Positive	1	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P17
HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY
B	Sealant	Tan	Window Frames , Door Frames & Seams	Class II	Category I - Non-Friable	17 SF (204 LF)
D	Sealant	Off-White	Roof Seams	Class II	Category I - Non-Friable	80 SF (960 LF)

Lead-Based Paint and Materials

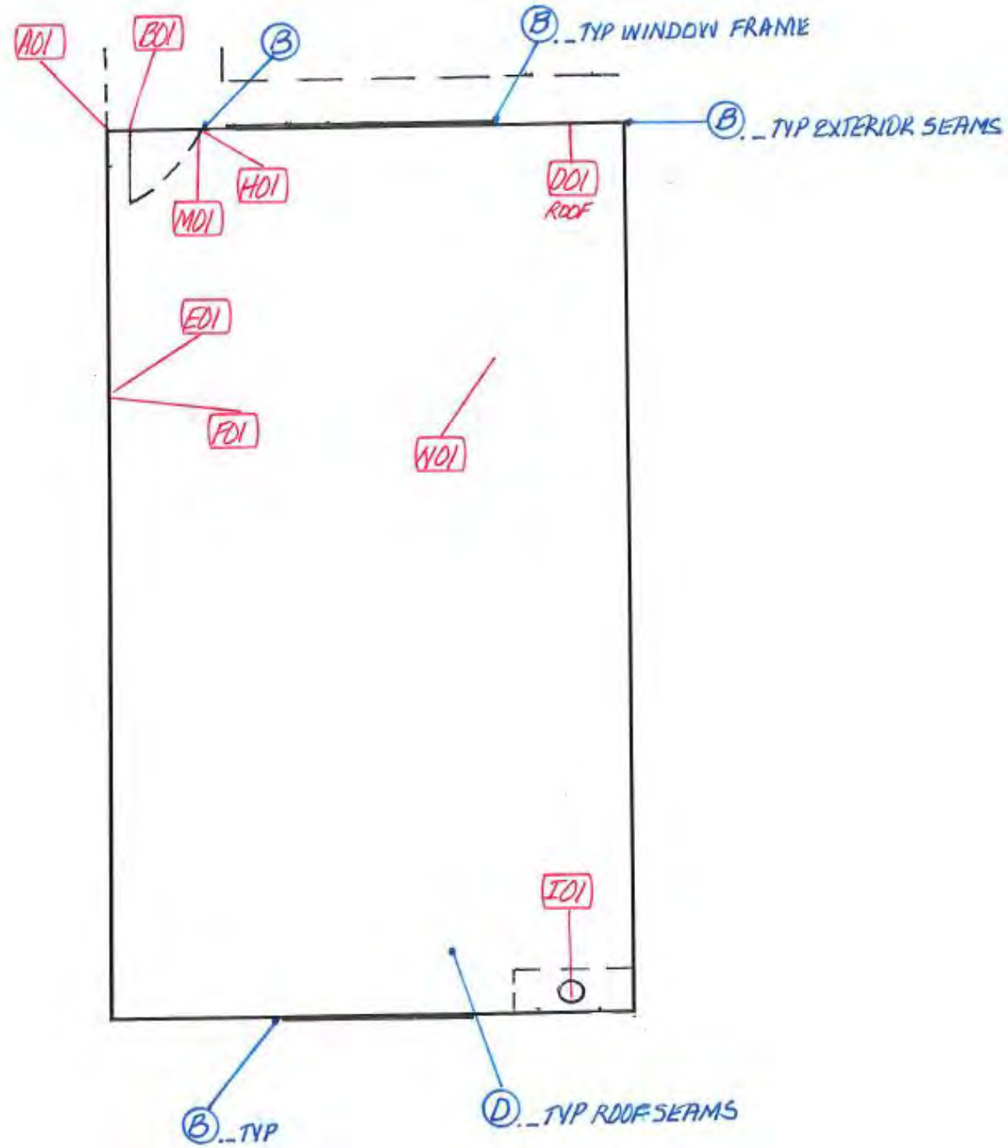
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P17
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	Tan, Window Frames, Door Frame & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Tan, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
H	Basecove/Mastic	4" Black/Beige	1
I	Mastic	Gray, Sink Undercoating	1
N	Acoustic Ceiling Panel	2'x4' Off-White Pinhole Gouges	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING

www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 17

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

PHOTO DOCUMENTATION

Asbestos Roof Seam Sealant

Asbestos Window Frame Sealant

Asbestos Door Frame Sealant

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226378
Date Received: 08/12/16
Date Analyzed: 08/16/16
Date Printed: 08/16/16
First Reported: 08/16/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P17)

Date(s) Collected: 08/11/2016

FALI Job ID: L1161
Total Samples Submitted: 9
Total Samples Analyzed: 9

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P17-A-01	11798015						
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P17-B-01	11798016						
Layer: Tan Semi-Fibrous Material		Chrysotile	**5 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (5%)**					
Cellulose (Trace)							
P17-D-01	11798017						
Layer: Off-White Non-Fibrous Material		Chrysotile	**5 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (5%)**					
Cellulose (Trace)							
P17-E-01	11798018						
Layer: Yellow Mastic			**ND**				
Layer: White Semi-Fibrous Material			**ND**				
Layer: Tan Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (25 %)							
P17-F-01	11798019						
Layer: Yellow Fibrous Material			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Fibrous Glass (95 %)							
P17-H-01	11798020						
Layer: Black Non-Fibrous Material			**ND**				
Layer: White Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P17-I-01	11798021						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					

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Report Number: B226378
Client Name: Vista Environmental Consultants **Date Printed:** 08/16/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P17-M-01	11798022						
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %)							
P17-N-01	11798023						
Layer: Beige Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (35 %) Fibrous Glass (45 %)							

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES Portables (P17)

PROJECT NUMBER: 160041001

SAMPLED BY: DR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P17	A	01	PAINT	BEIGE,	EXTERIOR	
P17	B	01	SEALANT	TAN,	WF, DF & SEAMS	
P17	D	01	SEALANT	BLACK & GRAY,	ROOF SEAMS	
P17	E	01	PANEL/MAS	BEIGE/BEIGE,	WALL	
P17	F	01	ACP	2'X4' WHITE, FIBERGLASS		
P17	H	01	BASECOVE/MAS	4" BROWN/BEIGE		
P17	I	01	MASTIC	BLACK,	SINK	
P17	M	01	MASTIC	YELLOW,	CARPET	
P17	N	01	ACP	2'X4' OFF-WHITE,	PINHOLE GOUGES	
			9 SAMPLES			

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis J Rocha — TRANSFER SIGNATURE — LUIS J ROCHA — PRINTED NAME — 08/12/16 — DATE/TIME

2. TRANSFER SIGNATURE — PRINTED NAME — 8/10 2:30 pm — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 1 OF 1

HUSD
Harder ES - P17
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
296	P17	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
297	P17	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
298	P17	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
299	P17	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
300	P17	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
301	P17	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
302	P17	OUTSIDE	FLOOR STRIPE	CONCRETE	YELLOW	INTACT	Negative	0	mg/cm^2
303	P17	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
304	P17	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
305	P17	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0.06	mg/cm^2
306	P17	INSIDE	DOOR FRAME	METAL	BROWN	INTACT	Negative	0	mg/cm^2
307	P17	INSIDE	DOOR	METAL	BROWN	INTACT	Negative	0.02	mg/cm^2
308	P17	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
309	P17	INSIDE	WINDOW SILL	WOOD	VARNISH	INTACT	Negative	0.01	mg/cm^2
310	P17	INSIDE	CABINET	WOOD	VARNISH	INTACT	Negative	0.05	mg/cm^2
311	P17	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2
325			CALIBRATE				Positive	1.1	mg/cm^2
326			CALIBRATE				Positive	1.1	mg/cm^2
327			CALIBRATE				Positive	1	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

P18

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P18
HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY
B	Sealant	Tan	Window Frames , Door Frame & Seams	Class II	Category I - Non-Friable	17 SF (204 LF)
D	Sealant	Off-White	Roof Seams	Class II	Category I - Non-Friable	80 SF (960 LF)

Lead-Based Paint and Materials

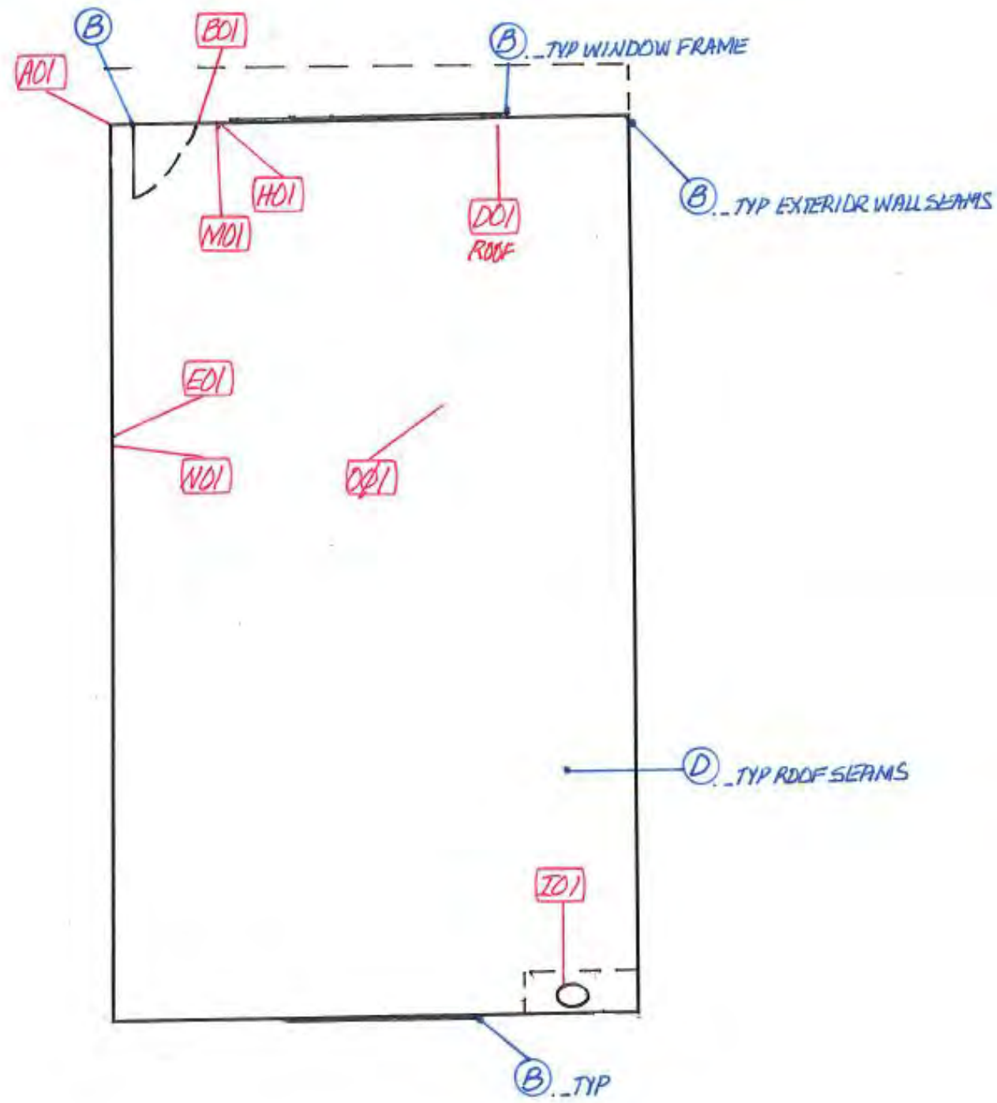
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P18
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	Tan, Window Frames, Door Frame & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Tan, Wall	1
H	Basecove/Mastic	4" Black/Beige	1
I	Mastic	Gray, Sink Undercoating	1
N	Acoustic Ceiling Panel	2'x4' Off-White Pinhole Gouges	1
O	Acoustic Ceiling Panel	2'x4' White Pinhole Chicken Feet	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 18

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

PHOTO DOCUMENTATION

Asbestos Roof Seam Sealant

Asbestos Window Frame Sealant

Asbestos Door Frame Sealant

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226380
Date Received: 08/12/16
Date Analyzed: 08/16/16
Date Printed: 08/16/16
First Reported: 08/16/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P18)

Date(s) Collected: 08/11/2016

FALI Job ID: L1161
Total Samples Submitted: 9
Total Samples Analyzed: 9

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P18-A-01	11798036						
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P18-B-01	11798037						
Layer: Tan Non-Fibrous Material		Chrysotile	**5 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (5%)**					
Cellulose (Trace)							
P18-D-01	11798038						
Layer: Tan Non-Fibrous Material		Chrysotile	**5 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (5%)**					
Cellulose (Trace)							
P18-E-01	11798039						
Layer: Yellow Mastic			**ND**				
Layer: Beige Semi-Fibrous Material			**ND**				
Layer: Tan Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (30 %)							
P18-H-01	11798040						
Layer: Black Non-Fibrous Material			**ND**				
Layer: White Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P18-I-01	11798041						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P18-M-01	11798042						
Layer: Yellow Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %)							

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226380
Client Name: Vista Environmental Consultants **Date Printed:** 08/16/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P18-N-01	11798043						
Layer: Beige Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (35 %) Fibrous Glass (45 %)							
P18-O-01	11798044						
Layer: Beige Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (35 %) Fibrous Glass (45 %)							

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES Portables (P18)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P18	A	01	PAINT	BEIGE, EXTERIOR		
P18	B	01	SEALANT	TAN, WF, DF & SEAMS		
P18	D	01	SEALANT	BLACK & GRAY, ROOF SEAMS		
P18	E	01	PANEL/MAS	BEIGE / BEIGE, WALL		
P18	H	01	BASECOVE/MAS	4" BROWN / BEIGE		
P18	I	01	MASTIC	BLACK, SINK		
P18	M	01	MASTIC	YELLOW, CARPET		
P18	N	01	ACD	2'x4' OFF-WHITE, PINHOLE GOUGES		
P18	O	01	ACD	2'x4' WHITE, PINHOLE CHICKEN		
			9 SAMPLES			

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis J Rocha — TRANSFER SIGNATURE — LUIS J ROCHA — PRINTED NAME — 08/12/16 — DATE/TIME
2. CWM — TRANSFER SIGNATURE — PRINTED NAME — d/o 2:30 pm — DATE/TIME
3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 1 OF 1

HUSD
Harder ES - P18
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
312	P18	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
313	P18	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
314	P18	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
315	P18	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
316	P18	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
317	P18	OUTSIDE	FLOOR STRIPE	CONCRETE	YELLOW	INTACT	Negative	0	mg/cm^2
318	P18	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
319	P18	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
320	P18	OUTSIDE	HAND RAIL	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
321	P18	INSIDE	DOOR FRAME	METAL	BROWN	INTACT	Negative	0	mg/cm^2
322	P18	INSIDE	DOOR	METAL	BROWN	INTACT	Negative	0.01	mg/cm^2
323	P18	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
324	P18	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2
325			CALIBRATE				Positive	1.1	mg/cm^2
326			CALIBRATE				Positive	1.1	mg/cm^2
327			CALIBRATE				Positive	1	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P19
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 11 samples collected and analyzed

Lead-Based Paint and Materials

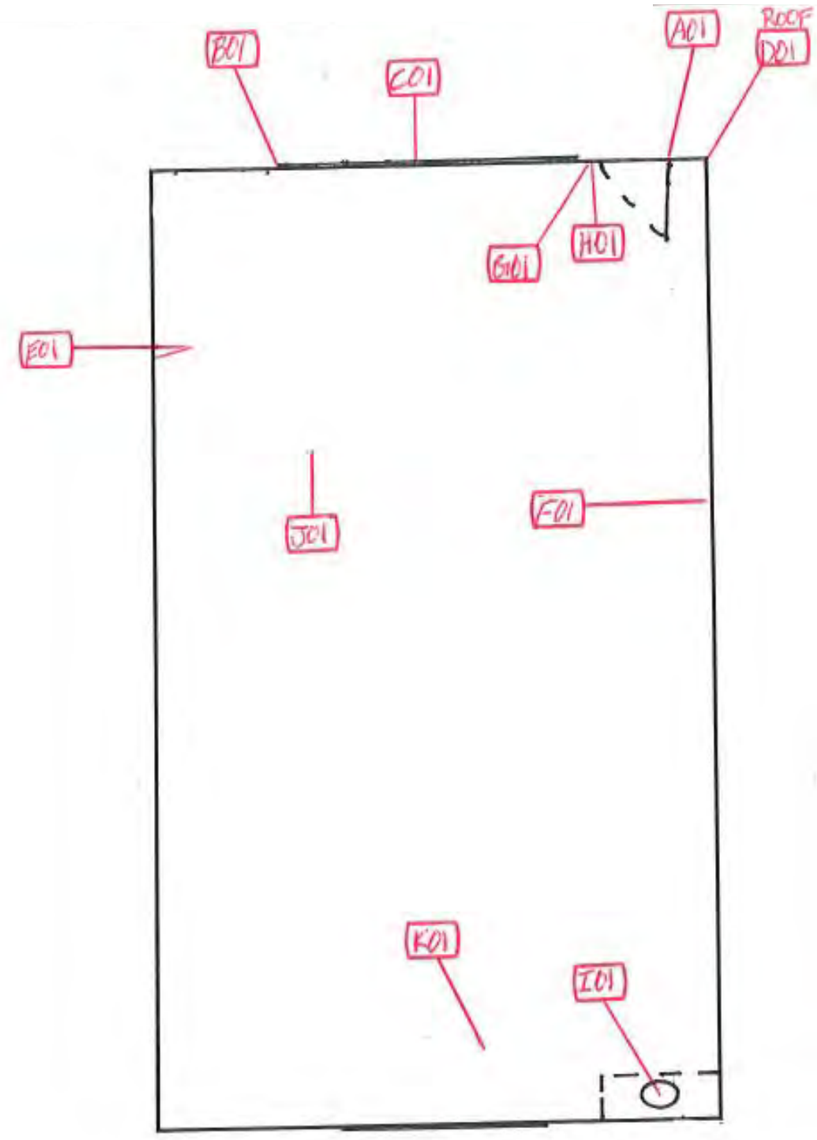
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P19
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
C	Sealant	Black & Gray, Window Frames & Door Frames	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Floor Tile/Mastic	12" Beige/Yellow	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Black, Sink	1
J	Vinyl Floor Tile/Mastic	12" Tan/Yellow, Patch	1
K	Vinyl Floor Tile/Mastic	12" Blue/Yellow, Patch	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 19

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226226
Date Received: 08/11/16
Date Analyzed: 08/15/16
Date Printed: 08/15/16
First Reported: 08/15/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P19)

Date(s) Collected: 08/10/2016

FALI Job ID: L1161
Total Samples Submitted: 11
Total Samples Analyzed: 11

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P19-A01	11796788						
Layer: Beige Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P19-B01	11796789						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P19-C01	11796790						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P19-D01	11796791						
Layer: Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P19-E01	11796792						
Layer: Tan Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
P19-F01	11796793						
Layer: Yellow Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %) Fibrous Glass (90 %)		**Asbestos (ND)**					
P19-G01	11796794						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Report Number: B226226
Client Name: Vista Environmental Consultants **Date Printed:** 08/15/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P19-H01	11796795						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P19-I01	11796796						
Layer: Black Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P19-J01	11796797						
Layer: Tan Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P19-K01	11796798						
Layer: Blue Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/10/16

LOCATION: Harder ES Portables (P19)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO:

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P19	A	01	PAINT	BEIGE, EXTERIOR		
P19	B	01	SEALANT	WHITE, WF, DF & SEAMS		
P19	C	01	SEALANT	BLACK & GRAY, WF & DF		
P19	D	01	SEALANT	OFF-WHITE, ROOF SEAMS		
P19	E	01	PANEL/MASTIC	BEIGE/BEIGE, WALL		
P19	F	01	ACP	2'X4' WHITE, FIBERGLASS		
P19	G	01	VFT/MAS	12" BEIGE/YELLOW		
P19	H	01	BASECOVE/MAS	4" BROWN/BEIGE		
P19	I	01	MASTIC	BLACK, SINK		
P19	J	01	VFT/MAS	12" TAN/YELLOW		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis J Rocha — TRANSFER SIGNATURE; LUIS J ROCHA — PRINTED NAME; 08/11/16 — DATE/TIME
2. TRANSFER SIGNATURE; S. Hollister — PRINTED NAME; DATE/TIME
3. TRANSFER SIGNATURE; PRINTED NAME; DATE/TIME

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PAGE 1 OF 2

per client OK w/ 2 DAY TAT

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/10/16

LOCATION: Harder ES Portables (P19)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO:

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P19	K	01	VFT/MAS	12" BLUE/YELLOW		

11 SAMPLES

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

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2. [signature] — TRANSFER SIGNATURE — S. Hallisey — PRINTED NAME — DATE/TIME
3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 2 OF 2

HUSD
Harder ES - P19
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
5	P19	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0.01	mg/cm^2
6	P19	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
7	P19	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
8	P19	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
9	P19	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
10	P19	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
11	P19	OUTSIDE	TRIM	METAL	TAN	DETERIORATED	Negative	0	mg/cm^2
12	P19	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
13	P19	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
14	P19	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
15	P19	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
16	P19	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
17	P19	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2
18	P19	INSIDE	CABINET	WOOD	GRAY	INTACT	Negative	0	mg/cm^2
19	P19	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P20
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 11 samples collected and analyzed

Lead-Based Paint and Materials

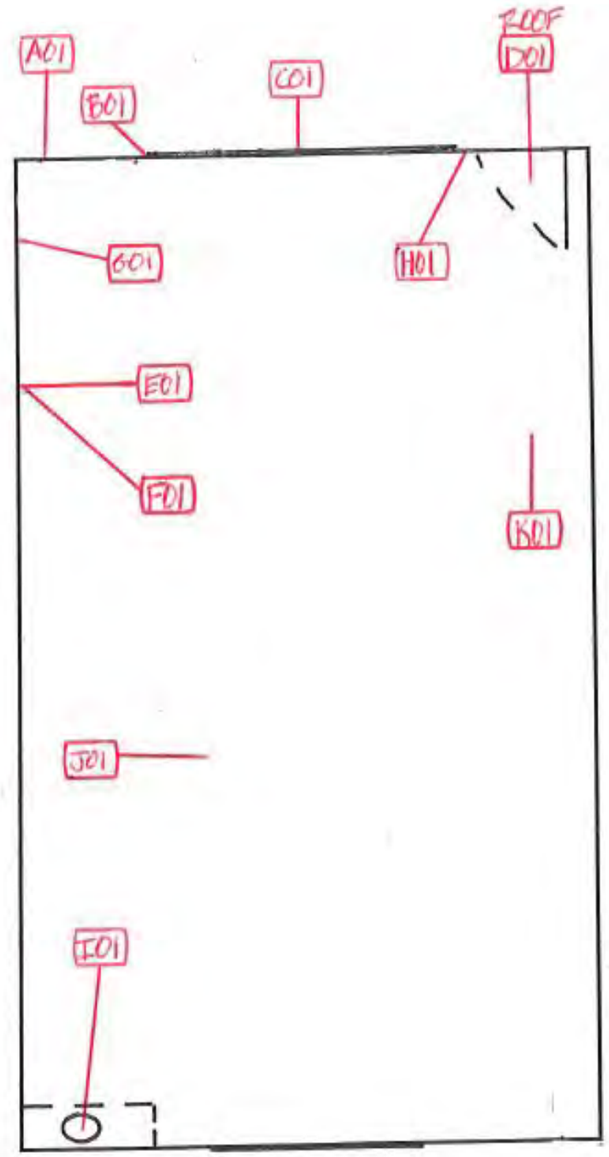
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P20
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
C	Sealant	Black & Gray, Window Frames & Door Frames	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Floor Tile/Mastic	12" Beige/Yellow	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Black, Sink	1
J	Vinyl Floor Tile/Mastic	12" Tan/Yellow, Patch	1
K	Vinyl Floor Tile/Mastic	12" Brown/Yellow	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING

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2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 20

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226233
Date Received: 08/11/16
Date Analyzed: 08/15/16
Date Printed: 08/15/16
First Reported: 08/15/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P20)

Date(s) Collected: 08/10/2016

FALI Job ID: L1161
Total Samples Submitted: 11
Total Samples Analyzed: 11

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P20-A-01	11796890						
Layer: Beige Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P20-B-01	11796891						
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P20-C-01	11796892						
Layer: Black Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P20-D-01	11796893						
Layer: Off-White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P20-E-01	11796894						
Layer: Tan Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
P20-F-01	11796895						
Layer: Yellow Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %) Fibrous Glass (90 %)		**Asbestos (ND)**					
P20-G-01	11796896						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Report Number: B226233
Client Name: Vista Environmental Consultants **Date Printed:** 08/15/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P20-H-01	11796897						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P20-I-01	11796898						
Layer: Black Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Fibrous Glass (Trace)		**Asbestos (ND)**					
P20-J-01	11796899						
Layer: Tan Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P20-K-01	11796900						
Layer: Tan Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/10/16

LOCATION: Harder ES Portables (P20)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P20	A	01	PAINT	BEIGE, EXTERIOR		
P20	B	01	SEALANT	WHITE, WF, DF & SEAMS		
P20	C	01	SEALANT	BLACK & GRAY, WF & DF		
P20	D	01	SEALANT	OFF-WHITE, ROOF SEAMS		
P20	E	01	PANEL/MAS	BEIGE/BEIGE, WALL		
P20	F	01	ACP	2'X4' WHITE, FIBERGLASS		
P20	G	01	VFT/MAS	12" BEIGE/YELLOW		
P20	H	01	BASECOVE/MAS	4" BROWN/BEIGE		
P20	I	01	MASTIC	BLACK, SINK		
P20	J	01	VFT/MAS	12" TAN/YELLOW		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis Rocha — TRANSFER SIGNATURE — LUIS J. ROCHA — PRINTED NAME — 08/11/16 — DATE/TIME

2. TRANSFER SIGNATURE — PRINTED NAME — d/o — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 1 OF 2

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/10/16

LOCATION: Harder ES Portables (P20)

PROJECT NUMBER: 160041001

SAMPLED BY: DR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P20	K	01	VFT/MAS	12" BROWN/YELLOW		
			11 SAMPLES			

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis J. Rocha — TRANSFER SIGNATURE; LUIS J. ROCHA — PRINTED NAME; 08/11/16 — DATE/TIME

2. TRANSFER SIGNATURE; PRINTED NAME; d/o DATE/TIME

3. TRANSFER SIGNATURE; PRINTED NAME; DATE/TIME

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PAGE 2 OF 2

HUSD
Harder ES - P20
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
20	P20	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
21	P20	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
22	P20	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
23	P20	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
24	P20	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
25	P20	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
26	P20	OUTSIDE	TRIM	METAL	BEIGE	DETERIORATED	Negative	0	mg/cm^2
27	P20	OUTSIDE	FLOOR STRIPE	CONCRETE	YELLOW	DETERIORATED	Negative	0	mg/cm^2
28	P20	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0.01	mg/cm^2
29	P20	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
30	P20	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
31	P20	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
32	P20	INSIDE	DOOR FRAME	METAL	BROWN	INTACT	Negative	0	mg/cm^2
33	P20	INSIDE	DOOR	METAL	BROWN	INTACT	Negative	0	mg/cm^2
34	P20	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
35	P20	INSIDE	CABINET	WOOD	GRAY	INTACT	Negative	0.02	mg/cm^2
36	P20	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P21
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the nine samples collected and analyzed

Lead-Based Paint and Materials

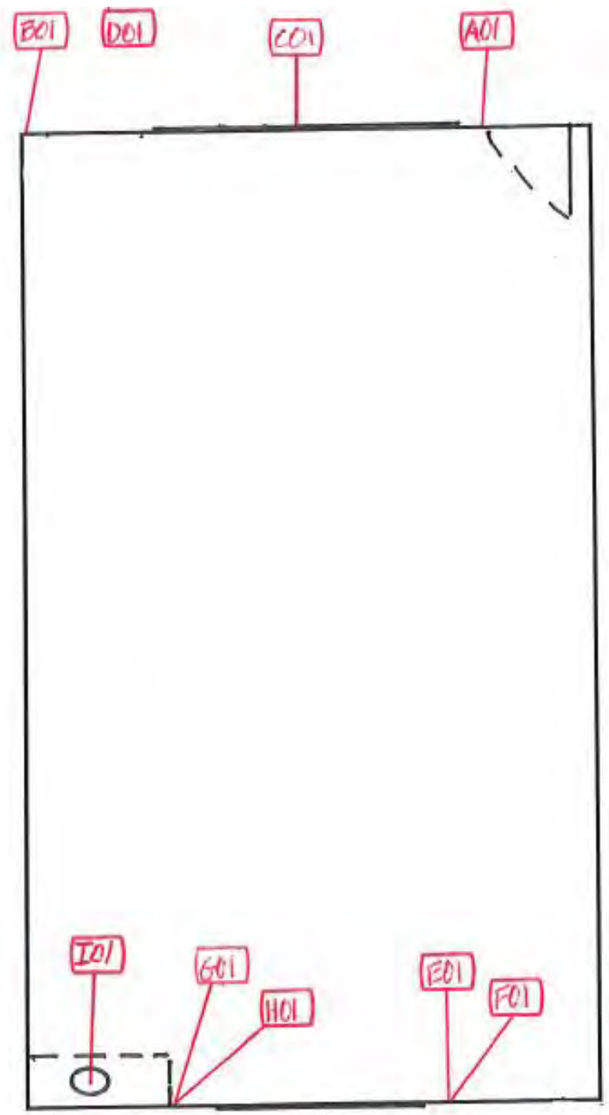
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P21
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
C	Sealant	Black & Gray, Window Frames & Door Frames	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Floor Tile/Mastic	12" Beige/Yellow	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Black, Sink	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING

www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 21

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226231
Date Received: 08/11/16
Date Analyzed: 08/15/16
Date Printed: 08/15/16
First Reported: 08/15/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P21)

Date(s) Collected: 08/10/2016

FALI Job ID: L1161
Total Samples Submitted: 9
Total Samples Analyzed: 9

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P21-A-01	11796870						
Layer: Beige Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P21-B-01	11796871						
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P21-C-01	11796872						
Layer: Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P21-D-01	11796873						
Layer: Off-White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P21-E-01	11796874						
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
P21-F-01	11796875						
Layer: Yellow Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %) Fibrous Glass (90 %)		**Asbestos (ND)**					
P21-G-01	11796876						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226231
Client Name: Vista Environmental Consultants **Date Printed:** 08/15/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P21-H-01	11796877						
Layer: Brown Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P21-I-01	11796878						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/10/16

LOCATION: Harder ES Portables (P21)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P21	A	01	PAINT	BEIGE, EXTERIOR		
P21	B	01	SEALANT	WHITE, DF, WF & SEAMS		
P21	C	01	SEALANT	BLACK & GRAY, WF & DF		
P21	D	01	SEALANT	OFF-WHITE, ROOF SEAMS		
P21	E	01	PANEL/MAS	BEIGE/BEIGE, WALL		
P21	F	01	ACP	21x4' WHITE, FIBERGLASS		
P21	G	01	VFT/MAS	12" BEIGE/YELLOW		
P21	H	01	BASECOVE/MAS	4" BROWN/BEIGE		
P21	I	01	MASTIC	BLACK, SINK		
			9 SAMPLES			

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis Rocha — TRANSFER SIGNATURE — LUIS J ROCHA — PRINTED NAME — 08/11/16 — DATE/TIME

2. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 1 OF 1

HUSD
Harder ES - P21
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
37	P21	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
38	P21	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
39	P21	OUTSIDE	TRIM	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
40	P21	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
41	P21	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
42	P21	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
43	P21	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
44	P21	OUTSIDE	FLOOR STRIPE	CONCRETE	YELLOW	DETERIORATED	Negative	0	mg/cm^2
45	P21	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
46	P21	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
47	P21	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
48	P21	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
49	P21	INSIDE	DOOR FRAME	METAL	BROWN	INTACT	Negative	0	mg/cm^2
50	P21	INSIDE	DOOR	METAL	BROWN	INTACT	Negative	0	mg/cm^2
51	P21	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
52	P21	INSIDE	CABINET	WOOD	GRAY	INTACT	Negative	0	mg/cm^2
53	P21	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P22
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the nine samples collected and analyzed

Lead-Based Paint and Materials

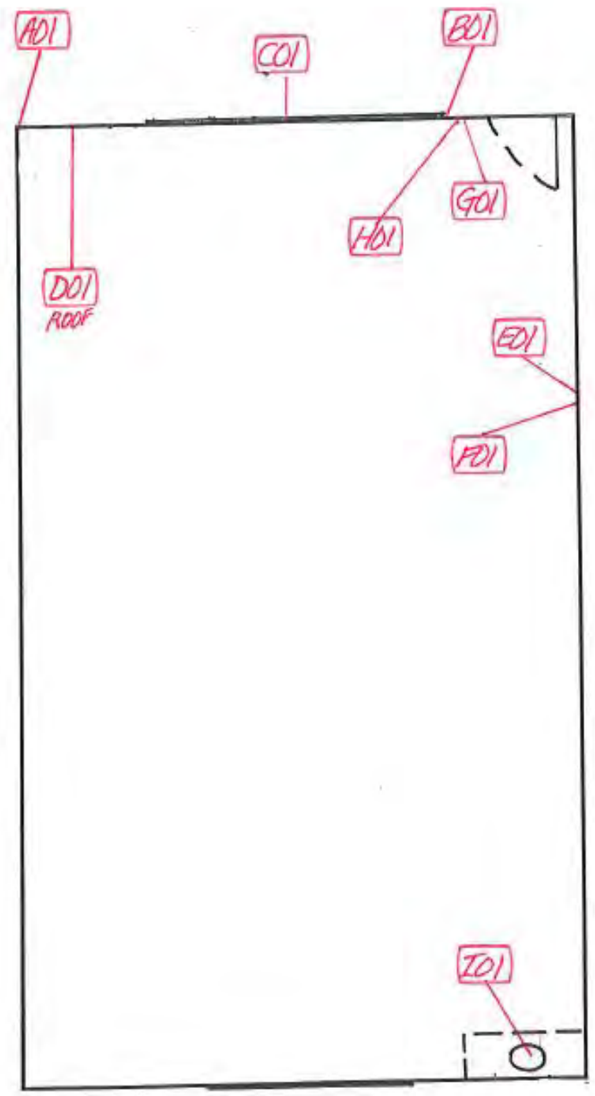
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P22
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
C	Sealant	Black & Gray, Window Frames & Door Frames	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Floor Tile/Mastic	12" Beige/Yellow	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Black, Sink	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING

www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 22

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226227
Date Received: 08/11/16
Date Analyzed: 08/15/16
Date Printed: 08/15/16
First Reported: 08/15/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P22)

Date(s) Collected: 08/10/2016

FALI Job ID: L1161
Total Samples Submitted: 9
Total Samples Analyzed: 9

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P22-A01	11796799						
Layer: Beige Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P22-B01	11796800						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P22-C01	11796801						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P22-D01	11796802						
Layer: Yellow Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
P22-E01	11796803						
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P22-F01	11796804						
Layer: Yellow Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %) Fibrous Glass (90 %)		**Asbestos (ND)**					
P22-G01	11796805						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226227
Client Name: Vista Environmental Consultants **Date Printed:** 08/15/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P22-H01	11796806						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
P22-I01	11796807						
Layer: Black Coating			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/10/16

LOCATION: Harder ES Portables (P22)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P22	A	01	PAINT	BEIGE, EXTERIOR		
P22	B	01	SEALANT	WHITE, WF, DF & SEAMS		
P22	C	01	SEALANT	BLACK & GRAY, WF & DF		
P22	D	01	SEALANT	OFF-WHITE, ROOF SEAMS		
P22	E	01	PANEL/MAS	BEIGE/BEIGE, WALLS		
P22	F	01	ACP	2'x4' WHITE FIBERGLASS		
P22	G	01	VFT/MAS	12" BEIGE/YELLOW		
P22	H	01	BASECOVE/MAS	4" BROWN/YELLOW		
P22	I	01	MASTIC	BLACK, SINK		
			9 SAMPLES			

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	Luis J Rocha	LUIS J ROCHA	08/11/16
2.		S. Tollister	
3.			

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PAGE 1 OF 1

typed client OK w/ 2 DAY TAT* SH 8/11/12

HUSD
Harder ES - P22
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
54	P22	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0.01	mg/cm^2
55	P22	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
56	P22	OUTSIDE	TRIM	METAL	BEIGE	DETERIORATED	Negative	0	mg/cm^2
57	P22	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
58	P22	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
59	P22	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
60	P22	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
61	P22	OUTSIDE	FLOOR STRIPE	CONCRETE	YELLOW	DETERIORATED	Negative	0	mg/cm^2
62	P22	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
63	P22	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
64	P22	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
65	P22	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
66	P22	INSIDE	DOOR FRAME	METAL	BROWN	INTACT	Negative	0	mg/cm^2
67	P22	INSIDE	DOOR	METAL	BROWN	INTACT	Negative	0	mg/cm^2
68	P22	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
69	P22	INSIDE	CABINET	WOOD	GRAY	INTACT	Negative	0	mg/cm^2
70	P22	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P23
HAZARDOUS MATERIALS SUMMARY

Asbestos

HOMO. ID	MATERIAL	DESCRIPTION	LOCATION	CAL/OSHA CLASS	MBUAPCD CATEGORY	ESTIMATED QUANTITY
C	Sealant	Black & Gray	Window Frames & Door Frames	Class II	Category I - Non-Friable	7 SF (84 LF)

Lead-Based Paint and Materials

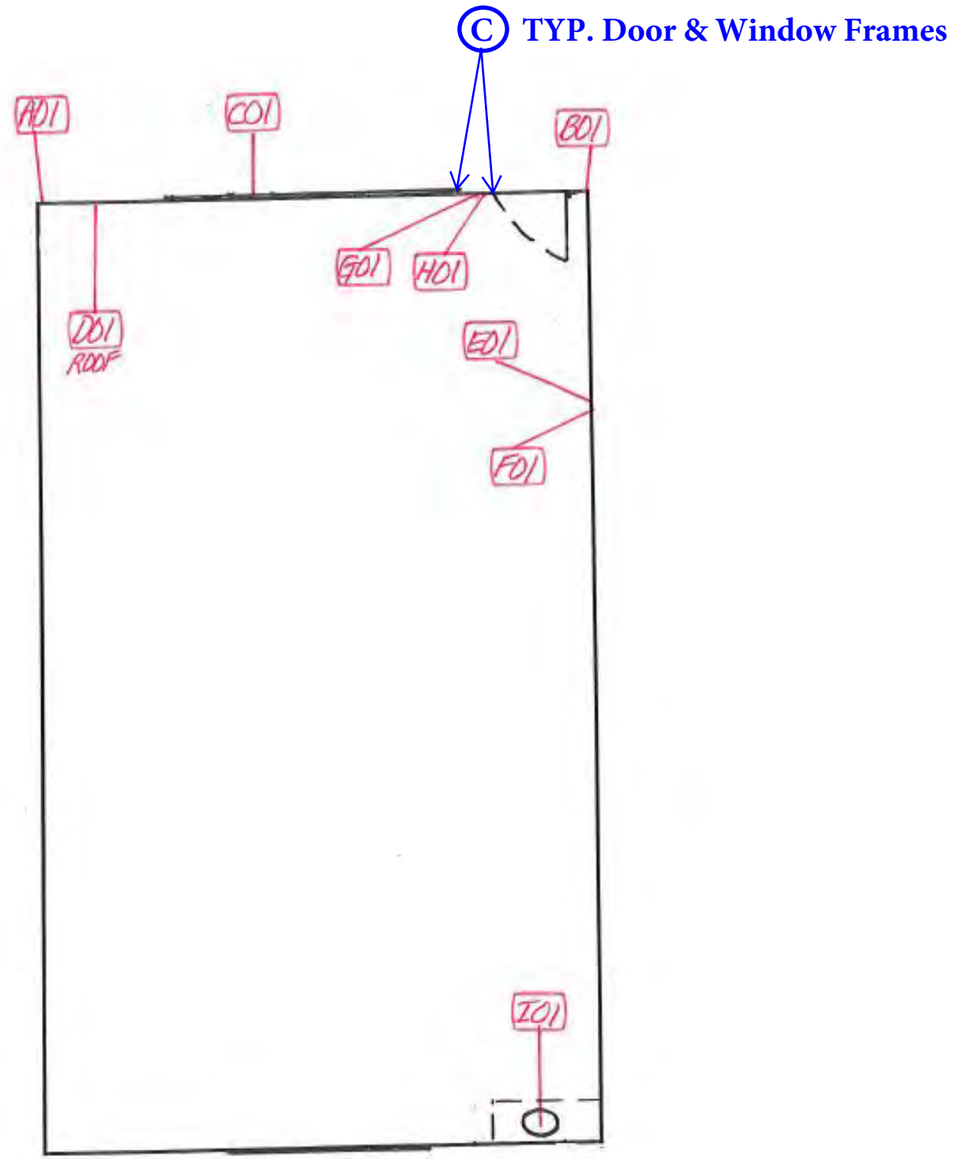
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P23
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	Greenish Gray, Window Frames, Door Frames & Seams	1
C	Sealant	Black & Gray, Window Frames & Door Frames	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Tan, Wall	1
F	Acoustic Ceiling Panel	2'x4' Pinhole, White, Fiberglass	1
G	Mastic/Float	Yellow/White, Carpet	1
H	Basecove/Mastic	4" Black/Beige	1
I	Mastic	Black, Sink	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING www.vista-env.com 2984 TEAGARDEN STREET SAN LEANDRO, CA 94577 510-346-8860	PROJECT TITLE Hayward Unified School District Harder Elementary School	SHEET TITLE Sample & Material Location Drawing Portable 23	SCALE: NA DRAWN BY: CB CHECKED BY: CB PROJECT No. 160041001 DATE: 11/07/16 DRAWING No. 1	FIGURE 1

PHOTO DOCUMENTATION

Asbestos Door Frame Sealant

Asbestos Window Frame Sealant

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226228
Date Received: 08/11/16
Date Analyzed: 08/15/16
Date Printed: 08/15/16
First Reported: 08/15/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P23)

Date(s) Collected: 08/10/2016

FALI Job ID: L1161
Total Samples Submitted: 9
Total Samples Analyzed: 9

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P23-A01	11796808						
Layer: Beige Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P23-B01	11796809						
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (10 %)		**Asbestos (ND)**					
P23-C01	11796810						
Layer: Brown Non-Fibrous Material		Chrysotile	**2 %**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (10 %)		**Asbestos (2%)**					
P23-D01	11796811						
Layer: Grey Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (10 %)		**Asbestos (ND)**					
P23-E01	11796812						
Layer: Yellow Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
P23-F01	11796813						
Layer: Yellow Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %) Fibrous Glass (90 %)		**Asbestos (ND)**					

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226228
Client Name: Vista Environmental Consultants **Date Printed:** 08/15/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P23-G01	11796814						
Layer: Beige Non-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P23-H01	11796815						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P23-I01	11796816						
Layer: Black Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/10/16

LOCATION: Harder ES Portables (P23)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P23	A	01	PAINT	BEIGE,	EXTERIOR	
P23	B	01	SEALANT	GREEN & GRAY,	WF, DF & SEAMS	
P23	C	01	SEALANT	BLACK & GRAY,	WF & DF	
P23	D	01	SEALANT	OFF-WHITE,	ROOF SEAMS	
P23	E	01	PANEL/MAS	BEIGE/TAN,	WALL	
P23	F	01	ACP	2'X4' WHITE, PINHOLE,	FG	
P23	G	01	MASTIC/FLOAT	YELLOW/WHITE,	CARPET	
P23	H	01	BASECOVE/MAS	4" BLACK/BEIGE		
P23	I	01	MASTIC	BLACK,	SINK	
			9 SAMPLES			

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	Luis Rocha	LUIS J. ROCHA	08/11/16
2.		S. HOLLISTER	
3.			

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PAGE 1 OF 1

per client OK w/ 2 DAY TAT

HUSD
Harder ES - P23
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
71	P23	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
72	P23	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
73	P23	OUTSIDE	TRIM	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
74	P23	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
75	P23	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
76	P23	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
77	P23	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
78	P23	OUTSIDE	FLOOR STRIPE	CONCRETE	YELLOW	INTACT	Negative	0	mg/cm^2
79	P23	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
80	P23	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
81	P23	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
82	P23	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0.05	mg/cm^2
83	P23	INSIDE	DOOR FRAME	METAL	BROWN	INTACT	Negative	0	mg/cm^2
84	P23	INSIDE	DOOR	METAL	BROWN	INTACT	Negative	0	mg/cm^2
85	P23	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0.01	mg/cm^2
86	P23	INSIDE	CABINET	WOOD	TAN	INTACT	Negative	0	mg/cm^2
87	P23	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P24
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 11 samples collected and analyzed

Lead-Based Paint and Materials

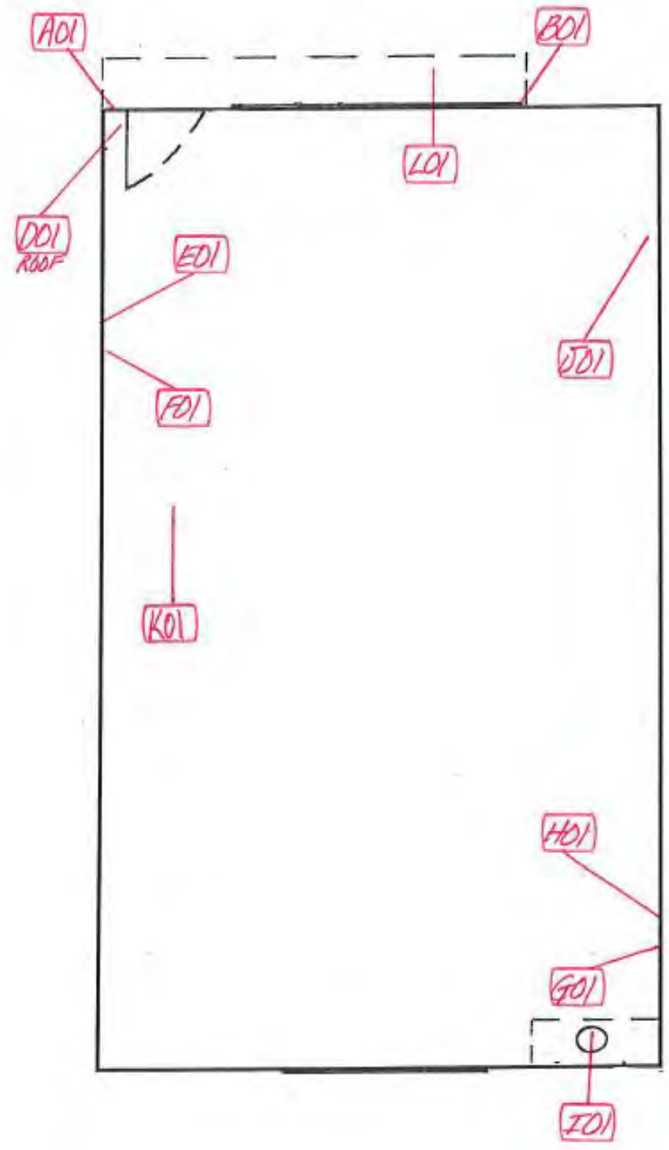
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P24
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Floor Tile/Mastic	12" Beige/Yellow	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Black, Sink	1
J	Vinyl Floor Tile/Mastic	12" Tan/Yellow, Patch	1
K	Vinyl Floor Tile/Mastic	12" Brown/Brown	1
L	Coating	Gray, Metal Ramp	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING

www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location
Drawing Portable 24

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226232
Date Received: 08/11/16
Date Analyzed: 08/15/16
Date Printed: 08/15/16
First Reported: 08/15/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P24)

Date(s) Collected: 08/10/2016

FALI Job ID: L1161
Total Samples Submitted: 11
Total Samples Analyzed: 11

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P24-A-01	11796879						
Layer: Beige Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P24-B-01	11796880						
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (10 %)		**Asbestos (ND)**					
P24-D-01	11796881						
Layer: Off-White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (10 %)		**Asbestos (ND)**					
P24-E-01	11796882						
Layer: Clear Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
P24-F-01	11796883						
Layer: Yellow Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %) Fibrous Glass (90 %)		**Asbestos (ND)**					
P24-G-01	11796884						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %) Synthetic (5 %)		**Asbestos (ND)**					
P24-H-01	11796885						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226232
Client Name: Vista Environmental Consultants **Date Printed:** 08/15/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P24-I-01	11796886						
Layer: Black Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P24-J-01	11796887						
Layer: Tan Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P24-K-01	11796888						
Layer: Tan Tile			**ND**				
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P24-L-01	11796889						
Layer: Brown Cementitious Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
OFFICE 510.346.8860
FAX 888.653.8889

ASBESTOS BULK SAMPLE LOG

CLIENT: HUSD

DATE: 08/10/16

LOCATION: Harder ES Portables (P24)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P24	A	01	PAINT	BEIGE, EXTERIOR		
P24	B	01	SEALANT	WHITE, WF DF & SEAMS		
P24	D	01	SEALANT	OFF WHITE, ROOF SEAMS		
P24	E	01	PANEL/MASTIC	BEIGE/BEIGE, WALL		
P24	F	01	ACP	2'X4' WHITE, FIBERGLASS		
P24	G	01	VFT/MAS	12" BEIGE/YELLOW		
P24	H	01	BASECOVE/MAS	4" BROWN/BEIGE		
P24	I	01	MASTIC	BLACK, SINK		
P24	J	01	VFT/MAS	12" TAN/YELLOW		
P24	K	01	VFT/MAS	12" BROWN/BROWN		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis Rocha — TRANSFER SIGNATURE — LUIS J ROCHA — PRINTED NAME — 08/11/16 — DATE/TIME
2. TRANSFER SIGNATURE — PRINTED NAME — d/o — DATE/TIME
3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/10/16

LOCATION: Harder ES Portables (P24)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO:

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P24	L	01	COATING	GRAY, METAL RAMP		

11 SAMPLES

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis J Rocha — TRANSFER SIGNATURE | LUIS J ROCHA — PRINTED NAME | 08/11/16 — DATE/TIME

2. TRANSFER SIGNATURE | PRINTED NAME | cypm d/o — DATE/TIME

3. TRANSFER SIGNATURE | PRINTED NAME | DATE/TIME

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PAGE 2 OF 2

HUSD
Harder ES - P24
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
88	P24	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
89	P24	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
90	P24	OUTSIDE	WINDOW SILL	WOOD	TAN	INTACT	Negative	0	mg/cm^2
91	P24	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
92	P24	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
93	P24	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
94	P24	OUTSIDE	FLOOR STRIPE	METAL	YELLOW	DETERIORATED	Negative	0	mg/cm^2
95	P24	OUTSIDE	RAMP	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
96	P24	OUTSIDE	HAND RAIL	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
97	P24	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
98	P24	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
99	P24	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
100	P24	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
101	P24	INSIDE	DOOR FRAME	METAL	WHITE	INTACT	Negative	0	mg/cm^2
102	P24	INSIDE	DOOR	METAL	WHITE	INTACT	Negative	0	mg/cm^2
103	P24	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
104	P24	INSIDE	CABINET	WOOD	VARNISH	INTACT	Negative	0	mg/cm^2
105	P24	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P25
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 12 samples collected and analyzed

Lead-Based Paint and Materials

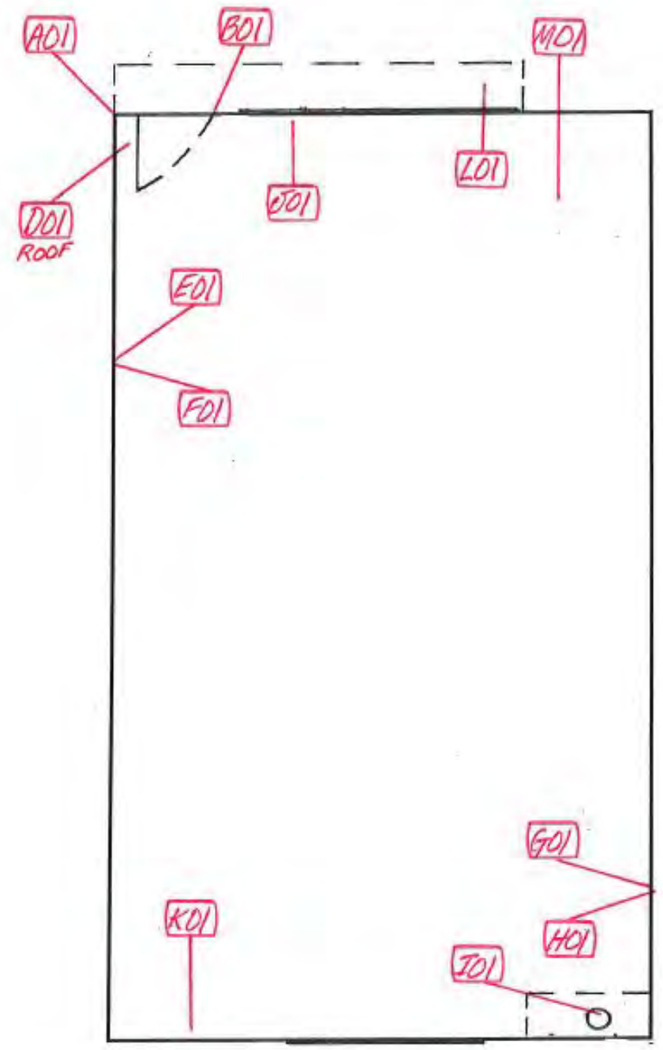
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P25
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Floor Tile/Mastic	12" Beige/Yellow	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Black, Sink	1
J	Vinyl Floor Tile/Mastic	12" Tan/Brown, Patch	1
K	Vinyl Floor Tile/Mastic	12" Blue/Yellow, Patch	1
L	Coating	Gray, Metal Ramp	1
M	Mastic	Yellow, Carpet	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 25

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226225
Date Received: 08/11/16
Date Analyzed: 08/15/16
Date Printed: 08/15/16
First Reported: 08/15/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P25)

Date(s) Collected: 08/10/2016

FALI Job ID: L1161
Total Samples Submitted: 12
Total Samples Analyzed: 12

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P25-A01	11796776						
Layer: Beige Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P25-B01	11796777						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P25-D01	11796778						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P25-E01	11796779						
Layer: Yellow Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
P25-F01	11796780						
Layer: Yellow Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %) Fibrous Glass (90 %)		**Asbestos (ND)**					
P25-G01	11796781						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226225
Client Name: Vista Environmental Consultants **Date Printed:** 08/15/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P25-H01	11796782						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P25-I01	11796783						
Layer: Black Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P25-J01	11796784						
Layer: Tan Tile			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P25-K01	11796785						
Layer: Brown Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P25-L01	11796786						
Layer: Grey Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P25-M01	11796787						
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/10/16

LOCATION: Harder ES Portables (P25)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P25	A	01	PAINT	BEIGE, EXTERIOR		
P25	B	01	SEALANT	WHITE, WF, DF & SEAMS		
P25	D	01	SEALANT	OFF-WHITE, ROOF SEAMS		
P25	E	01	PANEL/MAS	BEIGE/BEIGE, WALL		
P25	F	01	ACP	2'X4' WHITE FIBERGLASS		
P25	G	01	VFT/MAS	12" BEIGE/YELLOW		
P25	H	01	BASECOVE/MAS	4" BROWN/BEIGE		
P25	I	01	MASTIC	BLACK, SINK		
P25	J	01	VFT/MAS	12" TAN/BROWN		
P25	K	01	VFT/MAS	12" BROWN/YELLOW		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	Luis J. Rocha	LUIS J ROCHA	08/11/16
2.		S. Hollister	
3.			

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PAGE 1 OF 2

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/10/16

LOCATION: Harder ES Portables (P25)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P25	L	01	COATING	GRAY, METAL RAMP		
P25	M	01	MASTIC	YELLOW, CARPET		

12 SAMPLES

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	Luis Rocha	LUIS J ROCHA	08/11/16
2.		S. Hollister	
3.			

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PAGE 2 OF 2

HUSD
Harder ES - P25
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
106	P25	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
107	P25	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
108	P25	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
109	P25	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
110	P25	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
111	P25	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
112	P25	OUTSIDE	RAMP	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
113	P25	OUTSIDE	HAND RAIL	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
114	P25	OUTSIDE	FLOOR STRIPE	METAL	YELLOW	DETERIORATED	Negative	0	mg/cm^2
115	P25	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
116	P25	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
117	P25	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
118	P25	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0.04	mg/cm^2
119	P25	INSIDE	DOOR FRAME	METAL	WHITE	INTACT	Negative	0	mg/cm^2
120	P25	INSIDE	DOOR	METAL	WHITE	INTACT	Negative	0	mg/cm^2
121	P25	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
122	P25	INSIDE	CABINET	WOOD	VARNISH	INTACT	Negative	0	mg/cm^2
123	P25	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P26
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 11 samples collected and analyzed

Lead-Based Paint and Materials

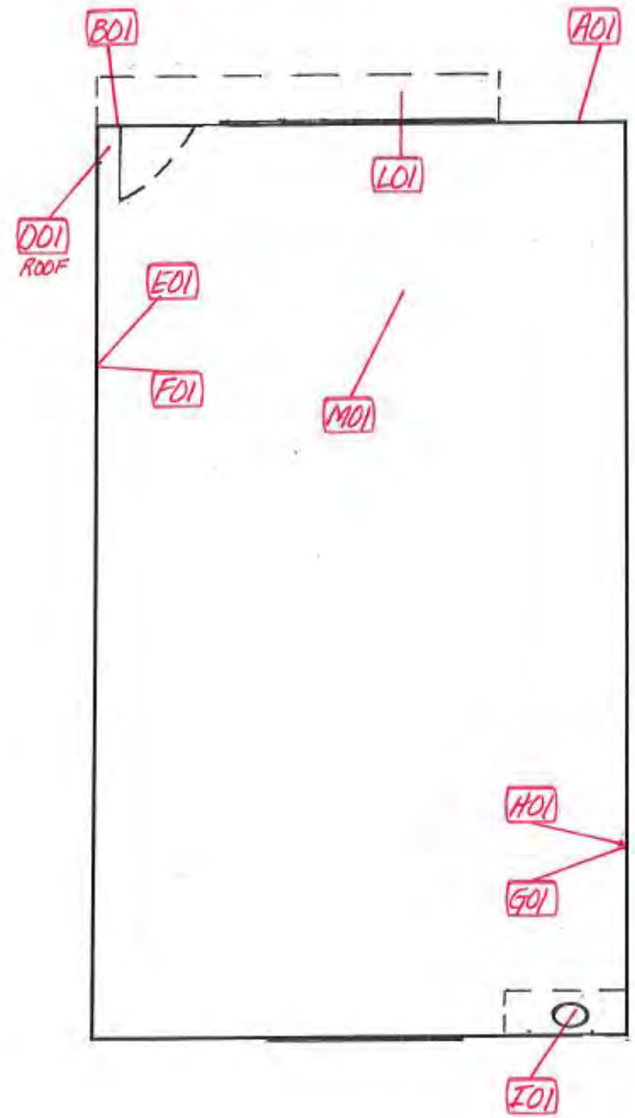
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P26
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Floor Tile/Mastic	12" Beige/Yellow	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Black, Sink	1
J	Vinyl Floor Tile/Mastic	12" Tan/Brown, Patch	1
L	Coating	Gray, Metal Ramp	1
M	Mastic	Yellow, Carpet	1



Asbestos Sample Location

Asbestos Material Location

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www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 26

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226230
Date Received: 08/11/16
Date Analyzed: 08/15/16
Date Printed: 08/15/16
First Reported: 08/15/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P26)

Date(s) Collected: 08/10/2016

FALI Job ID: L1161
Total Samples Submitted: 11
Total Samples Analyzed: 11

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P26-A01	11796845						
Layer: Beige Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P26-B01	11796846						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P26-D01	11796847						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P26-E01	11796848						
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
P26-F01	11796849						
Layer: Yellow Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %) Fibrous Glass (90 %)		**Asbestos (ND)**					
P26-G01	11796850						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P26-H01	11796851						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Report Number: B226230
Client Name: Vista Environmental Consultants **Date Printed:** 08/15/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P26-I01	11796852						
Layer: Black Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P26-J01	11796853						
Layer: Tan Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P26-L01	11796854						
Layer: Grey Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P26-M01	11796855						
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/10/16

LOCATION: Harder ES Portables (P26)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P26	A	01	PAINT	BEIGE, EXTERIOR		
P26	B	01	SEALANT	WHITE, WF, DF & SEAMS		
P26	D	01	SEALANT	OFF-WHITE, ROOF SEAMS		
P26	E	01	PANEL/MAS	BEIGE/BEIGE, WALL		
P26	F	01	ACP	2'x4' WHITE, FIBERGLASS		
P26	G	01	VFT/MAS	12" BEIGE / YELLOW		
P26	H	01	BASECOVE/MAS	4" BROWN / BEIGE		
P26	I	01	MASTIC	BLACK, SINK		
P26	J	01	VFT/MAS	12" TAN / YELLOW		
P26	L	01	COATING	GRAY, METAL RAMP		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	Luis Rocha	LUIS J. ROCHA	08/11/16
2.		S. HOLLISTER	
3.			

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PAGE 1 OF 2

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/10/16

LOCATION: Harder ES Portables (P26)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P26	M	01	MASTIC	YELLOW, CARPET		

11 SAMPLES

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	Luis Rocha	LUIS J ROCHA	08/11/16
2.		S. Hollister	
3.			

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PAGE 2 OF 2

HUSD
Harder ES - P26
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
124	P26	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
125	P26	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
126	P26	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
127	P26	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
128	P26	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
129	P26	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
130	P26	OUTSIDE	FLOOR STRIPE	METAL	YELLOW	DETERIORATED	Negative	0	mg/cm^2
131	P26	OUTSIDE	RAMP	METAL	BROWN	DETERIORATED	Negative	0.03	mg/cm^2
132	P26	OUTSIDE	HAND RAIL	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
133	P26	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
134	P26	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
135	P26	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
136	P26	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0.06	mg/cm^2
137	P26	INSIDE	DOOR FRAME	METAL	WHITE	INTACT	Negative	0	mg/cm^2
138	P26	INSIDE	DOOR	METAL	WHITE	INTACT	Negative	0	mg/cm^2
139	P26	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
140	P26	INSIDE	CABINET	WOOD	VARNISH	INTACT	Negative	0.01	mg/cm^2
141	P26	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P27
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 12 samples collected and analyzed

Lead-Based Paint and Materials

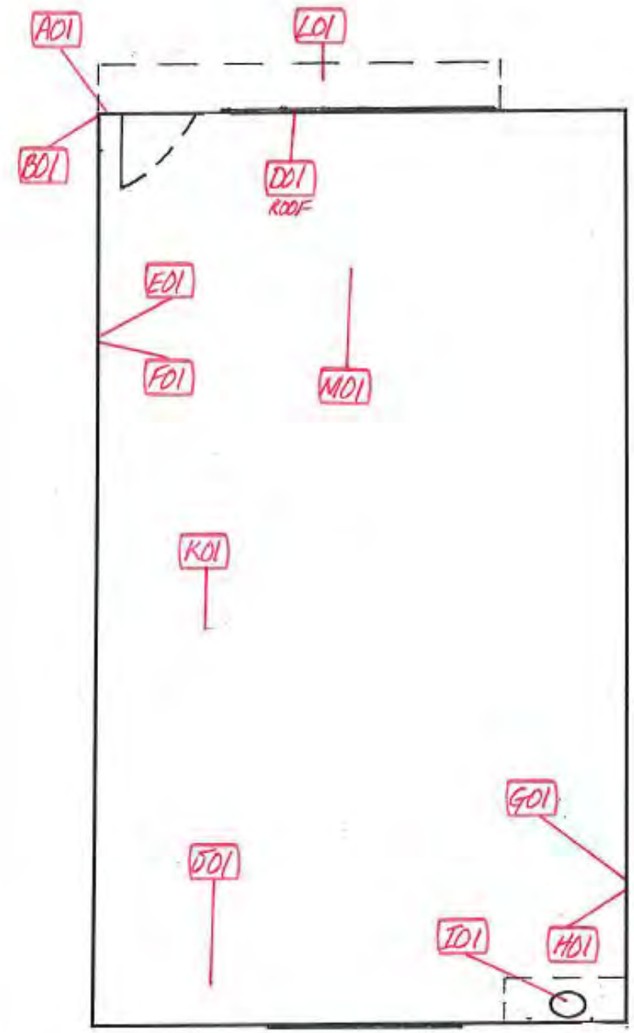
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P27
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Floor Tile/Mastic	12" Beige/Brown	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Black, Sink	1
J	Vinyl Floor Tile/Mastic	12" Tan/Yellow, Patch	1
K	Vinyl Floor Tile/Mastic	12" Blue/Brown	1
L	Coating	Gray, Metal Ramp	1
M	Mastic	Yellow, Carpet	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location
Drawing Portable 27

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226377
Date Received: 08/12/16
Date Analyzed: 08/17/16
Date Printed: 08/17/16
First Reported: 08/17/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P27)

Date(s) Collected: 08/11/2016

FALI Job ID: L1161
Total Samples Submitted: 12
Total Samples Analyzed: 12

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P27-A-01	11797999						
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %)		**Asbestos (ND)**					
P27-B-01	11798000						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (2 %)		**Asbestos (ND)**					
P27-D-01	11798001						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (2 %)		**Asbestos (ND)**					
P27-E-01	11798002						
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
P27-F-01	11798003						
Layer: Yellow Fibrous Tile			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (20 %)		**Asbestos (ND)**					
P27-G-01	11798004						
Layer: Beige Tile			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P27-H-01	11798005						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Report Number: B226377
Client Name: Vista Environmental Consultants **Date Printed:** 08/17/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P27-I-01	11798006						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P27-J-01	11798007						
Layer: Tan Mastic			**ND**				
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P27-K-01	11798008						
Layer: Beige Tile			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P27-L-01	11798009						
Layer: Brown Non-Fibrous Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P27-M-01	11798010						
Layer: Tan Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 8/11/16

LOCATION: Harder ES Portables (P27)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P27	A	01	PAINT	BEIGE, EXTERIOR		
P27	B	01	SEALANT	WHITE, WF, DF & SEAMS		
P27	D	01	SEALANT	OFF-WHITE, ROOF SEAMS		
P27	E	01	PANEL/MAS	BEIGE/BEIGE, WALL		
P27	F	01	ACP	2'X4' WHITE, FIBERGLASS		
P27	G	01	VFT/MAS	12" BEIGE/BROWN		
P27	H	01	BASECOVE/MAS	4" BROWN/BEIGE		
P27	I	01	MASTIC	BLACK, SINK		
P27	J	01	VFT/MAS	12" TAN/YELLOW		
P27	K	01	VFT/MAS	12" BROWN/BROWN		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	Luis Rocha	LUIS J. ROCHA	08/12/16
2.	[illegible]	d/o	2:30 pm
3.			

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PAGE 1 OF 2

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 8/11/16

LOCATION: Harder ES Portables (P27)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P27	L	01	COATING	GRAY, METAL RAILD		
P27	M	01	MASTIC	YELLOW, CARPET		

12 SAMPLES

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	Luis Rocha	LUIS J. ROCHA	08/12/16
2.	[illegible]	d/o	2:30pm
3.			

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PAGE 2 OF 2

HUSD
Harder ES - P27
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
142	P27	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
143	P27	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
144	P27	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
145	P27	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
146	P27	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
147	P27	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
148	P27	OUTSIDE	FLOOR STRIPE	METAL	YELLOW	DETERIORATED	Negative	0	mg/cm^2
149	P27	OUTSIDE	RAMP	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
150	P27	OUTSIDE	HAND RAIL	METAL	BROWN	DETERIORATED	Negative	0.02	mg/cm^2
151	P27	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
152	P27	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
153	P27	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
154	P27	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
155	P27	INSIDE	DOOR FRAME	METAL	WHITE	INTACT	Negative	0	mg/cm^2
156	P27	INSIDE	DOOR	METAL	WHITE	INTACT	Negative	0	mg/cm^2
157	P27	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
158	P27	INSIDE	CABINET	WOOD	VARNISH	INTACT	Negative	0	mg/cm^2
159	P27	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P28
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 10 samples collected and analyzed

Lead-Based Paint and Materials

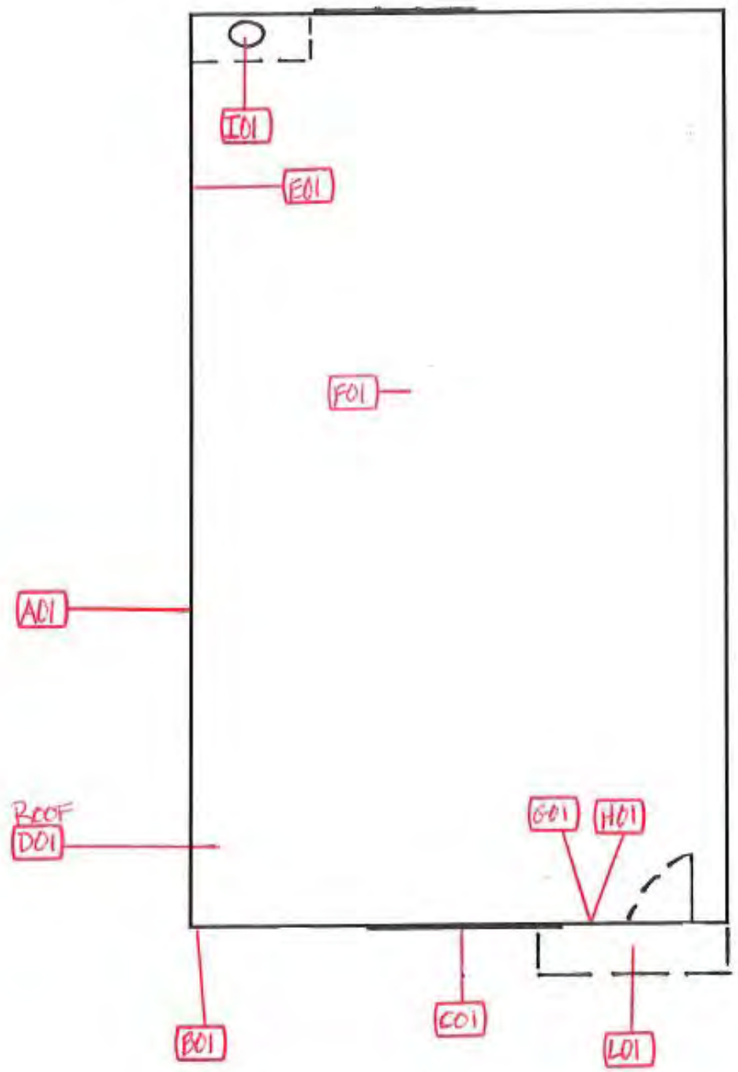
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P28
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	Greenish Gray, Window Frames, Door Frames & Seams	1
C	Sealant	Black & Gray, Window Frames & Door Frames	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Tan, Wall	1
F	Acoustic Ceiling Panel	2'x4' Pinhole, White, Fiberglass	1
G	Mastic/Float	Yellow/White, Carpet	1
H	Basecove/Mastic	4" Black/Beige	1
I	Mastic	Black, Sink	1
L	Coating	Brown, Metal Ramp	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 28

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226379
Date Received: 08/12/16
Date Analyzed: 08/16/16
Date Printed: 10/11/16
First Reported: 08/16/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P28)

Date(s) Collected: 08/11/2016

FALI Job ID: L1161
Total Samples Submitted: 10
Total Samples Analyzed: 10

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P28-A-01	11798024						
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P28-B-01	11798025						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (5 %)							
P28-C-01	11798026						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (5 %)							
P28-D-01	11798027						
Layer: Off-White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (5 %)							
P28-E-01	11798028						
Layer: Beige Semi-Fibrous Material			**ND**				
Layer: Brown Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (75 %)							
P28-F-01	11798029						
Layer: Yellow Fibrous Material			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Fibrous Glass (95 %)							
P28-G-01	11798030						
Layer: Yellow Mastic			**ND**				
Layer: Off-White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					

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Report Number: B226379

Client Name: Vista Environmental Consultants

Date Printed: 10/11/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P28-H-01	11798031						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: White Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P28-I-01	11798032						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P28-L-01	11798035						
Layer: Brown Coating			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

B226379

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES Portables (28)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P28	A	01	PAINT	BEIGE	EXTERIOR	
P28	B	01	SEALANT	WHITE	WF, DF & SEAMS	
P28	C	01	SEALANT	BLACK & GRAY	WF & DF	
P28	D	01	SEALANT	OFF-WHITE	ROOF SEAMS	
P28	E	01	PANEL/MAS	BEIGE/BEIGE	WALLS	
P28	F	01	ACP	2'X4' WHITE, FIBERGLASS	INT.	
P28	G	01	MASTIC/FLOAT	YELLOW/WHITE	CARPET	
P28	H	01	BASECOVE/MAS	4" BLACK/BEIGE	INT	
P28	I	01	MASTIC	BLACK	SINK	
P28	L	01	COATING	BROWN	METAL RAMP	

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY

1. Luis Rocha — TRANSFER SIGNATURE | Luis Javier Rocha — PRINTED NAME | 08/11/16 — DATE/TIME

2. TRANSFER SIGNATURE | PRINTED NAME | DATE/TIME

3. TRANSFER SIGNATURE | PRINTED NAME | DATE/TIME

PAGE 1 OF 1

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 8/11/16

LOCATION: Harder ES Portables (P28)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P28	A	01	PAINT	BEIGE, EXTERIOR		
P28	B	01	SEALANT	WHITE, WF & DF & SEAMS		
P28	C	01	SEALANT	BLACK & GRAY, WF & DF		
P28	D	01	SEALANT	OFF-WHITE, ROOF SEAMS		
P28	E	01	PANEL/MAS	BEIGE/BEIGE, WALL		
P28	F	01	ACP	2'X4' WHITE, FIBERGLASS		
P28	G	01	VFT/MAS	12" BEIGE/YELLOW		
P28	H	01	BASECOVE/MAS	4" BROWN/BEIGE		
P28	I	01	MASTIC	BLACK, SINK		
P28	J	01	VFT/MAS	12" TAN/YELLOW		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Rocha — LUIS J. ROCHA — 08/11/16
TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

2. d/o — 230 pm
TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

3.
TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 1 OF 2

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 8/11/16

LOCATION: Harder ES Portables (P28)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P28	K	01	VFT/MAS	12" BROWN / YELLOW		
P28	L	01	COATING	BROWN, METAL RAMP		

12 SAMPLES

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. [signature] — TRANSFER SIGNATURE — LUIS J. ROCHA — PRINTED NAME — 08/12/16 — DATE/TIME

2. TRANSFER SIGNATURE — [signature] — PRINTED NAME — d/o — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 2 OF 2

HUSD
Harder ES - P28
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
160	P28	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
161	P28	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
162	P28	OUTSIDE	DOWNSPOUT	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
163	P28	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
164	P28	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
165	P28	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
166	P28	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
168	P28	OUTSIDE	FLOOR STRIPE	METAL	YELLOW	INTACT	Negative	0.01	mg/cm^2
169	P28	OUTSIDE	RAMP	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
170	P28	OUTSIDE	HAND RAIL	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
171	P28	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
172	P28	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
173	P28	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
174	P28	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
175	P28	INSIDE	DOOR FRAME	METAL	BROWN	INTACT	Negative	0	mg/cm^2
176	P28	INSIDE	DOOR	METAL	BROWN	INTACT	Negative	0	mg/cm^2
177	P28	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
178	P28	INSIDE	CEILING	METAL	RED	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P29
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 12 samples collected and analyzed

Lead-Based Paint and Materials

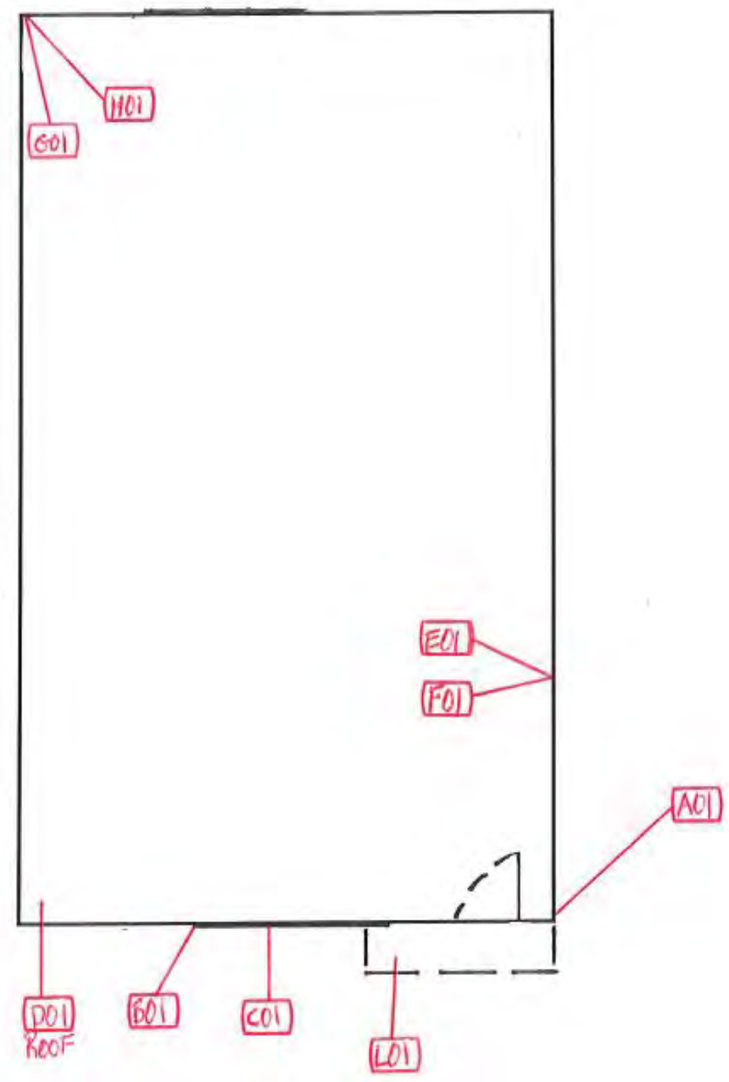
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P29
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	Greenish Gray, Window Frames, Door Frames & Seams	1
C	Sealant	Black & Gray, Window Frames & Door Frames	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Tan, Wall	1
F	Acoustic Ceiling Panel	2'x4' Pinhole, White, Fiberglass	1
G	Mastic/Float	Yellow/White, Carpet	1
H	Basecove/Mastic	4" Black/Beige	1
L	Coating	Brown, Metal Ramp	1
M	Mastic	Yellow, Carpet	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 29

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226372
Date Received: 08/12/16
Date Analyzed: 08/17/16
Date Printed: 10/11/16
First Reported: 08/17/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P29)

Date(s) Collected: 08/11/2016

FALI Job ID: L1161
Total Samples Submitted: 9
Total Samples Analyzed: 9

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P29-A-01	11797931						
Layer: Multi-Layer Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (Trace)							
P29-B-01	11797932						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (2 %)							
P29-C-01	11797933						
Layer: Black Semi-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (5 %)							
P29-D-01	11797934						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (2 %)							
P29-E-01	11797935						
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (95 %) Synthetic (2 %)							
P29-F-01	11797936						
Layer: Yellow Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %) Fibrous Glass (90 %)							
P29-H-01	11797938						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

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Report Number: B226372

Client Name: Vista Environmental Consultants

Date Printed: 10/11/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P29-L-01	11797941						
Layer: Brown Non-Fibrous Coating			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P29-M-01	11797942						
Layer: Tan Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (5 %)							

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES Portables (29)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P2	A	01	PAINT	BEIGE	EXTERIOR	
P2	B	01	SEALANT	WHITE	WF, DF, SEAMS	
P2	C	01	SEALANT	BLACK & GRAY	WF, DF	
P2	D	01	SEALANT	OFF-WHITE	ROOF SEAMS	
P29	E	01	PANEL/HAS	BEIGE/BEIGE	INT.	
P29	F	01	ACP	2'x4' WHITE, FIBERGLASS	INT.	
P29	H	01	BASECOVE/HAS	4" BLACK/BEIGE	INT.	
P29	L	01	COATING	BROWN	METAL RAMP	
P29	M	01	MASTIC	YELLOW	CARPET	
			9 SAMPLES			

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.	Luis Rocha	Luis Javier Rocha	08/12/16
2.			
3.			

PAGE 1 OF 1

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2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
OFFICE 510.346.8860
FAX 888.653.8889

ASBESTOS BULK SAMPLE LOG

CLIENT: HUSD

LOCATION: Harder ES Portables (P29)

DATE: 08/11/16

SAMPLED BY: JR

PROJECT NUMBER: 160041001

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P29	A	01	PAINT	BEIGE, EXTERIOR		
P29	B	01	SEALANT	WHITE, WF, DF & SEAMS		
P29	C	01	SEALANT	BLACK & GRAY, WF & DF		
P29	D	01	SEALANT	OFF-WHITE, ROOF SEAMS		
P29	E	01	PANEL/MAS	BEIGE/BEIGE, WALL		
P29	F	01	ACP	2'x4' WHITE, FIBERGLASS		
P29	G	01	VFT/MAS	12" BEIGE/YELLOW		
P29	H	01	BASECOVE/MAS	4" BROWN/BEIGE		
P29	J	01	VFT/MAS	12" TAN/YELLOW		
P29	K	01	VFT/MAS	12" BROWN/YELLOW		

ANALYTICAL METHOD: PLM 400 ~~PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. TRANSFER SIGNATURE — PRINTED NAME: LUIS J ROCHA — DATE/TIME: 08/12/16
2. TRANSFER SIGNATURE — PRINTED NAME: d/o — DATE/TIME: 2:30
3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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SAN LEANDRO, CA 94577
OFFICE 510.346.8860
FAX 888.653.8889

ASBESTOS BULK SAMPLE LOG

CLIENT: HUSD

LOCATION: Harder ES Portables (P29)

DATE: 08/11/16

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P29	L	01	COATING	BROWN, METAL	RAMP	
P29	M	01	MASTIC	YELLOW, CARPET		

12 SAMPLES

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis Rocha — TRANSFER SIGNATURE — LUIS J ROCHA — PRINTED NAME — 08/12/16 — DATE/TIME

2. TRANSFER SIGNATURE — PRINTED NAME — d/o 2pm 30 — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 2 OF 2

HUSD
Harder ES - P29
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
179	P29	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
180	P29	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
181	P29	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
182	P29	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
183	P29	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
184	P29	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
185	P29	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0.02	mg/cm^2
186	P29	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
187	P29	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
188	P29	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0.03	mg/cm^2
189	P29	INSIDE	DOOR FRAME	METAL	BROWN	INTACT	Negative	0	mg/cm^2
190	P29	INSIDE	DOOR	METAL	BROWN	INTACT	Negative	0	mg/cm^2
191	P29	INSIDE	BEAM	METAL	RED	INTACT	Negative	0.01	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

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P30
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the nine samples collected and analyzed

Lead-Based Paint and Materials

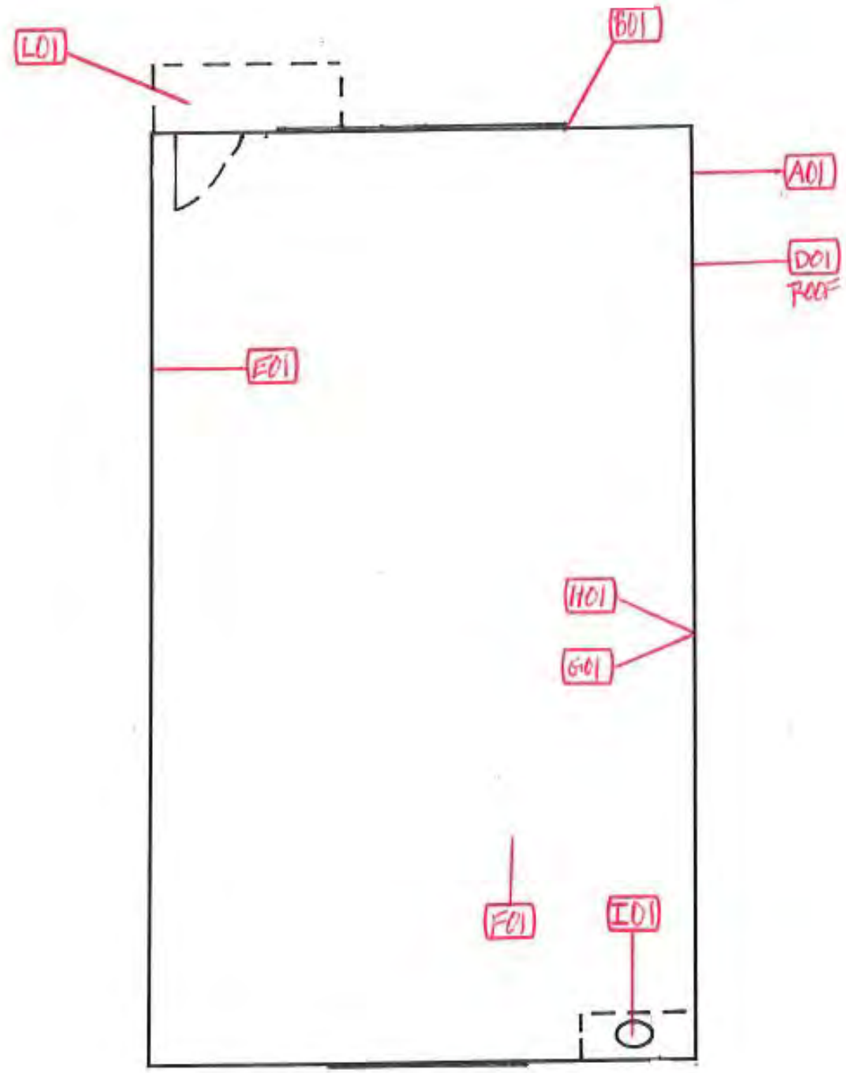
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P30
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
C	Sealant	Black & Gray, Window Frames & Door Frames	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Floor Tile/Mastic	12" Beige/Yellow	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Black, Sink	1
L	Coating	Gray, Metal Ramp	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 30

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226286
Date Received: 08/12/16
Date Analyzed: 08/16/16
Date Printed: 08/16/16
First Reported: 08/16/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P30)

Date(s) Collected: 08/12/2016

FALI Job ID: L1161
Total Samples Submitted: 9
Total Samples Analyzed: 9

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P30-A-01	11797216						
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P30-B-01	11797217						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
P30-C-01	11797218						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
P30-D-01	11797219						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
P30-E-01	11797220						
Layer: White Non-Fibrous Material			**ND**				
Layer: Beige Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (95 %)							
P30-F-01	11797221						
Layer: Yellow Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Fibrous Glass (99 %)							
P30-G-01	11797222						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226286
Client Name: Vista Environmental Consultants **Date Printed:** 08/16/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P30-H-01	11797223						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P30-L-01	11797224						
Layer: Red-Brown Coating			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/12/16

LOCATION: Harder ES Portables (P30)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P30	A	01	PAINT	BEIGE, EXTERIOR		
P30	B	01	SEALANT	WHITE, WF, DF &		
P30	C	01	SEALANT	BLACK & GRAY, WF & DF		
P30	D	01	SEALANT	OFF-WHITE, ROOF SEAMS		
P30	E	01	PANEL/MAS	BEIGE/BEIGE, WALL		
P30	F	01	ACP	2'x4' WHITE, FIBERGLASS		
P30	G	01	VFT/MAS	12" BEIGE/YELLOW		
P30	H	01	BASECOVE/MAS	4" BROWN/BEIGE		
P30	L	01	COATING	GRAY, METAL RAMP		
			9 SAMPLES			

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. [signature] — TRANSFER SIGNATURE — LUIS J ROCHA — PRINTED NAME — 08/12/16 — DATE/TIME

2. [signature] — TRANSFER SIGNATURE — d/o 2:30 pm — PRINTED NAME — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 1 OF 1

HUSD
Harder ES - P30
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
230	P30	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
231	P30	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
232	P30	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
233	P30	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
234	P30	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
235	P30	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
236	P30	OUTSIDE	FLOOR STRIPE	METAL	YELLOW	DETERIORATED	Negative	0	mg/cm^2
237	P30	OUTSIDE	RAMP	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
238	P30	OUTSIDE	HAND RAIL	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
239	P30	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
240	P30	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
241	P30	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
242	P30	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
243	P30	INSIDE	DOOR FRAME	METAL	BROWN	INTACT	Negative	0	mg/cm^2
244	P30	INSIDE	DOOR	METAL	BROWN	INTACT	Negative	0.02	mg/cm^2
245	P30	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
246	P30	INSIDE	BEAM	METAL	RED	INTACT	Negative	0.01	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P31
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the nine samples collected and analyzed

Lead-Based Paint and Materials

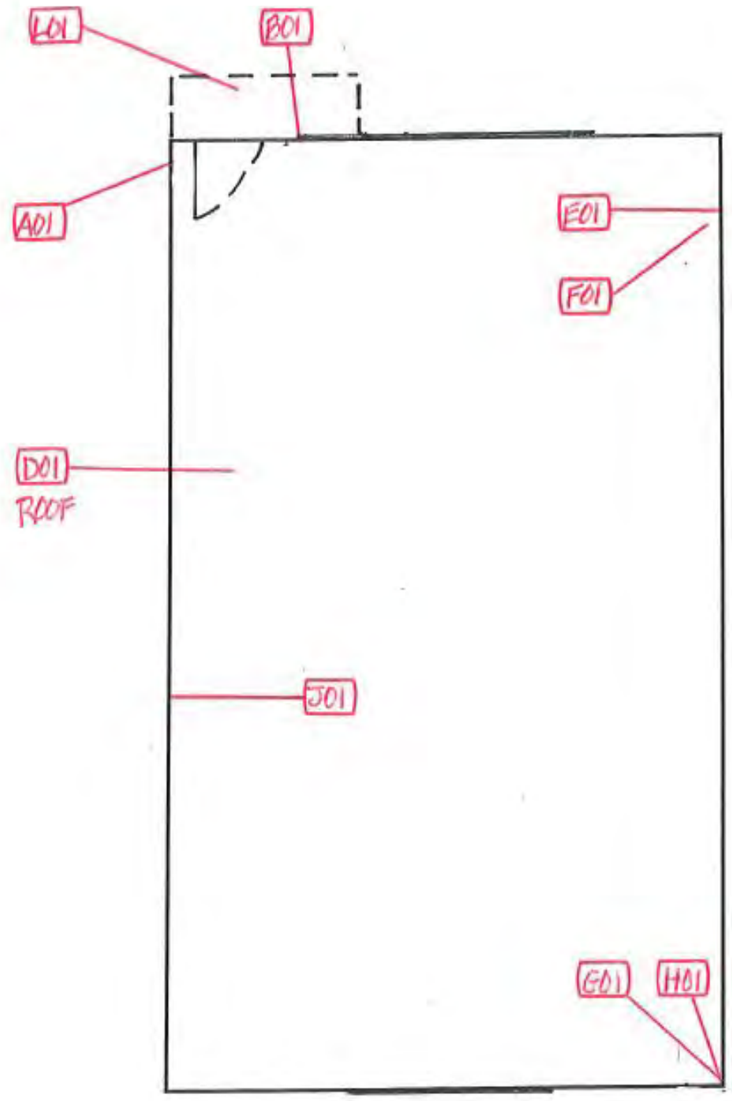
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P31
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Floor Tile/Mastic	12" Beige/Yellow	1
H	Basecove/Mastic	4" Brown/Beige	1
J	Vinyl Floor Tile/Mastic	12" Tan/Yellow, Patch	1
L	Coating	Gray, Metal Ramp	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 31

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226288
Date Received: 08/12/16
Date Analyzed: 08/16/16
Date Printed: 08/16/16
First Reported: 08/16/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P31)

Date(s) Collected: 08/11/2016

FALI Job ID: L1161
Total Samples Submitted: 9
Total Samples Analyzed: 9

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P31-A-01	11797244						
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
P31-B-01	11797245						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P31-D-01	11797246						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P31-E-01	11797247						
Layer: Brown Fibrous Material			**ND**				
Layer: Beige Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (25 %)		**Asbestos (ND)**					
P31-F-01	11797248						
Layer: Yellow Fibrous Material			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (95 %)		**Asbestos (ND)**					
P31-G-01	11797249						
Layer: White Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226288
Client Name: Vista Environmental Consultants **Date Printed:** 08/16/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P31-H-01	11797250						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Tan Mastic			**ND**				
Layer: Beige Semi-Fibrous Material			**ND**				
Layer: Tan Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (7 %)		**Asbestos (ND)**					
P31-J-01	11797251						
Layer: White Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P31-L-01	11797252						
Layer: Red-Brown Coating			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES Portables (P31)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P31	A	01	PAINT	BEIGE, EXTERIOR		
P31	B	01	SEALANT	WHITE, WF,	DF & SEAMS	
P31	D	01	SEALANT	OFF-WHITE,	ROOF SEAMS	
P31	E	01	PANEL/MAS	BEIGE/BEIGE,	WALLS	
P31	F	01	ACP	21X41 WHITE, FIBERGLASS		
P31	G	01	VFT/MAS	12" BEIGE/YELLOW		
P31	H	01	BASECOVE/MAS	4" BROWN/BEIGE		
P31	I	01	VFT/MAS	12" TAN/YELLOW		
P31	L	01	COATING	GRAY, METAL RAMP		
			9	SAMPLES		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis Rocha — TRANSFER SIGNATURE — LUIS J ROCHA — PRINTED NAME — 08/12/16 — DATE/TIME

2. TRANSFER SIGNATURE — PRINTED NAME — d/o 2:30 pm — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

RECEIVED AUG 12 2016 cym

PAGE 1 OF 1

HUSD
Harder ES - P31
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
247	P31	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
248	P31	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0.05	mg/cm^2
249	P31	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
250	P31	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
251	P31	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0.01	mg/cm^2
252	P31	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
253	P31	OUTSIDE	FLOOR STRIPE	METAL	YELLOW	DETERIORATED	Negative	0	mg/cm^2
254	P31	OUTSIDE	RAMP	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
255	P31	OUTSIDE	HAND RAIL	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
256	P31	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
257	P31	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
258	P31	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
259	P31	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
260	P31	INSIDE	DOOR FRAME	METAL	BROWN	INTACT	Negative	0	mg/cm^2
261	P31	INSIDE	DOOR	METAL	BROWN	INTACT	Negative	0	mg/cm^2
262	P31	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
263	P31	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P32
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 12 samples collected and analyzed

Lead-Based Paint and Materials

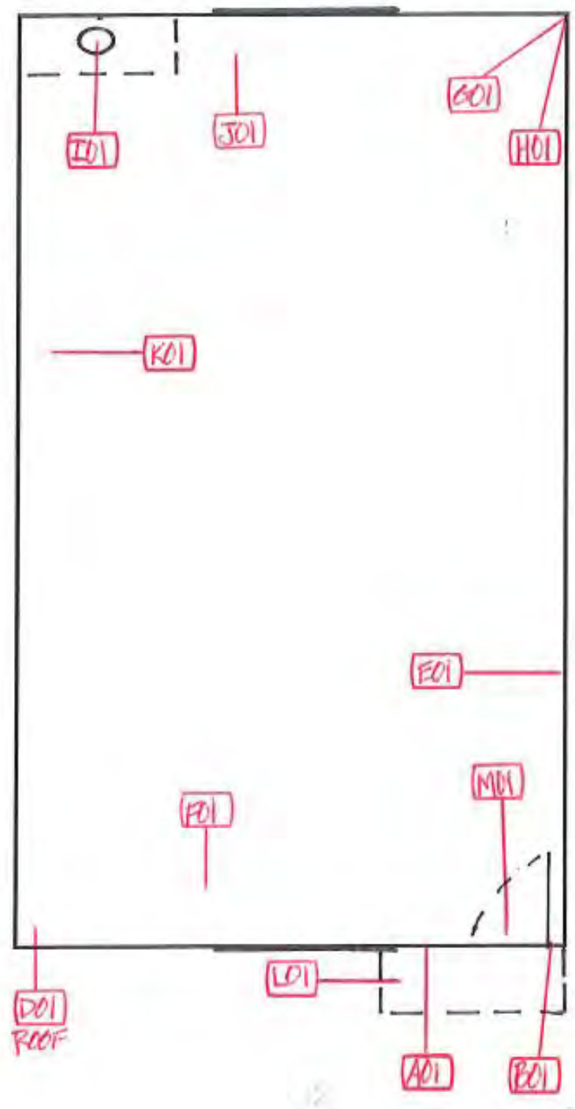
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P32
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Sheet Flooring/Mastic	12" Beige/Yellow & Black	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Black, Sink	1
J	Vinyl Floor Tile/Mastic	12" Tan/Yellow	1
K	Vinyl Floor Tile/Mastic	12" Brown/Yellow	1
L	Coating	Brown, Ramp	1
M	Mastic	Yellow, Carpet	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 32

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226402
Date Received: 08/15/16
Date Analyzed: 08/18/16
Date Printed: 08/18/16
First Reported: 08/18/16

Job ID/Site: 160041001 - Harder Unified School District, Harder ES Portable P32

Date(s) Collected: 08/15/2016

FALI Job ID: L1161
Total Samples Submitted: 12
Total Samples Analyzed: 12

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P32-A01	11798381						
Layer: Beige Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P32-B01	11798382						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P32-D01	11798383						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P32-E01	11798384						
Layer: Yellow Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
P32-F01	11798385						
Layer: Yellow Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Fibrous Glass (99 %)		**Asbestos (ND)**					
P32-G01	11798386						
Layer: Beige Tile			**ND**				
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226402
Client Name: Vista Environmental Consultants **Date Printed:** 08/18/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P32-H01	11798387						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P32-I01	11798388						
Layer: Black Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P32-J01	11798389						
Layer: Tan Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P32-K01	11798390						
Layer: Brown Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P32-L01	11798391						
Layer: Brown Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P32-M01	11798392						
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8-15-16

LOCATION: Harder ES Portable P32

PROJECT NUMBER: 160041001

SAMPLED BY: CE

CAC OR SST NO: 16-5606

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P32	A	01	Paint	Beige, Ext		
P32	B	01	Sealant	Wt, Wall frame door frame		
P32	D	01	Sealant	Off-white Roof seams		
P32	E	01	Panel/mastic	Beige/Beige Wall		
P32	F	01	Acoustic Ceiling Panel	2'x4' wt, Fiber Glass		
P32	G	01	VFT/mastic	12" Beige/Yellow & Black		
P32	H	01	Baseboard/mastic	4" Brown/Beige		
P32	I	01	Mastic	Black, sink		
P32	J	01	VFT/mastic	12" TAN/Yellow		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. TRANSFER SIGNATURE — Chris Elliott PRINTED NAME — 8-15-16 DATE/TIME

2. TRANSFER SIGNATURE — S. Hollister PRINTED NAME — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

RECEIVED AUG 15 2016 PM

PAGE 1 OF 2

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8-15-16

LOCATION: Harder ES Portable P32

PROJECT NUMBER: 160041001

SAMPLED BY: CE

CAC OR SST NO: 16-5606

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P32	R	01	VFT/Mastic	12" Brown/yellow		
P32	L	01	Coating	Brown, ramp		
P32	M	01	Mastic	Yellow, carpet		

12 Samples total

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR 48 HR (3 DAY)

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. TRANSFER SIGNATURE — Chris Elliott PRINTED NAME — 8-15-16 DATE/TIME

2. TRANSFER SIGNATURE — S. Hollister PRINTED NAME — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

RECEIVED AUG 15 2016

PAGE 2 OF 2

HUSD
Harder ES - P32
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
28			SHUTTER_CAL					5.9	cps
29			CALIBRATE				Positive	1.1	mg/cm^2
30			CALIBRATE				Positive	1.1	mg/cm^2
32			CALIBRATE				Positive	1.1	mg/cm^2
33	P32	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
34	P32	OUTSIDE	WINDOW SILL	WOOD	TAN	INTACT	Negative	0	mg/cm^2
35	P32	OUTSIDE	HAND RAIL	METAL	BROWN	INTACT	Negative	0	mg/cm^2
36	P32	OUTSIDE	RAMP	METAL	BROWN	INTACT	Negative	0	mg/cm^2
37	P32	OUTSIDE	OVERHANG	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
38	P32	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
39	P32	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
40	P32	INSIDE	BRACKET	METAL	BROWN	INTACT	Negative	0	mg/cm^2
41	P32	INSIDE	WALL	VINYL	BEIGE	INTACT	Negative	0	mg/cm^2
42	P32	INSIDE	CABINET	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
59	P32	INSIDE	DOOR FRAME	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
60	P32	INSIDE	DOOR	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
61	P32	INSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
62	P32	INSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P33
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the ten samples collected and analyzed

Lead-Based Paint and Materials

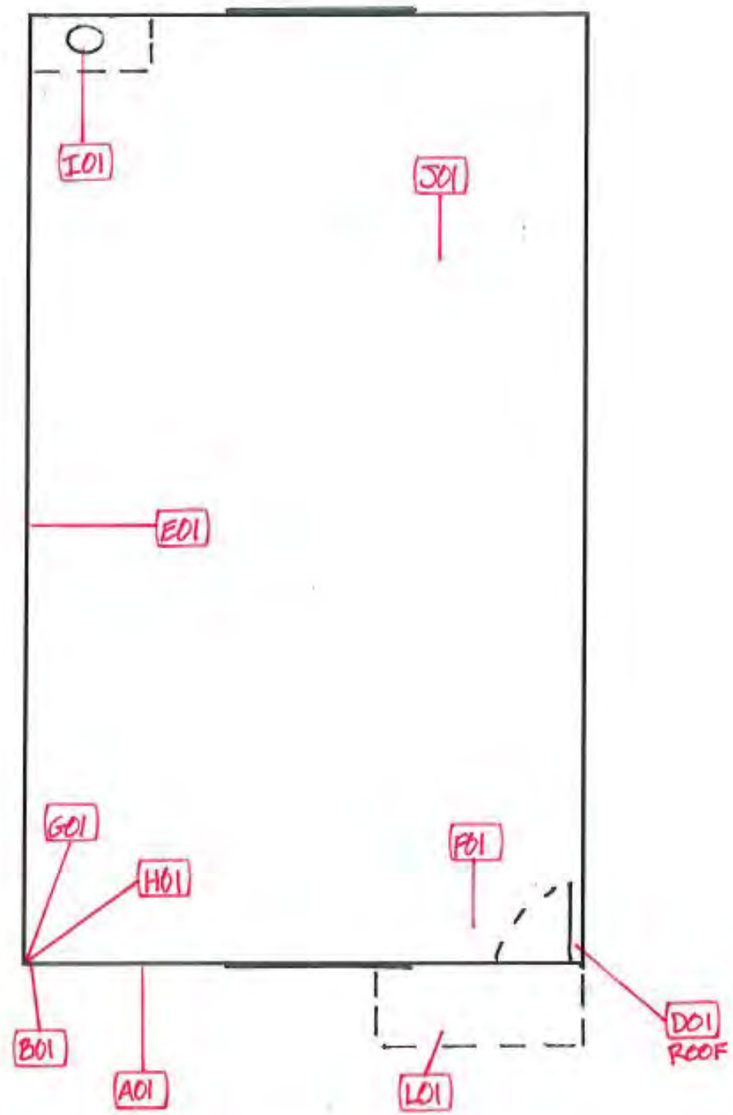
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P33
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Floor Tile/Mastic	12" Beige/Yellow	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Black, Sink	1
J	Vinyl Floor Tile/Mastic	12" Tan/Yellow, Patch	1
L	Coating	Gray, Ramp	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 33

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226374
Date Received: 08/12/16
Date Analyzed: 08/17/16
Date Printed: 08/17/16
First Reported: 08/17/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (P33)

Date(s) Collected: 08/11/2016

FALI Job ID: L1161
Total Samples Submitted: 10
Total Samples Analyzed: 10

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P33-A-01	11797958						
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %)		**Asbestos (ND)**					
P33-B-01	11797959						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (5 %)		**Asbestos (ND)**					
P33-D-01	11797960						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (5 %)		**Asbestos (ND)**					
P33-E-01	11797961						
Layer: Tan Non-Fibrous Material			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (90 %) Synthetic (2 %)		**Asbestos (ND)**					
P33-F-01	11797962						
Layer: Yellow Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %) Fibrous Glass (90 %)		**Asbestos (ND)**					
P33-G-01	11797963						
Layer: Beige Tile			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Report Number: B226374
Client Name: Vista Environmental Consultants **Date Printed:** 08/17/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P33-H-01	11797964						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P33-I-01	11797965						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P33-J-01	11797966						
Layer: Beige Tile			**ND**				
Layer: Brown Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P33-L-01	11797967						
Layer: Brown Non-Fibrous Coating			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES Portables (P33)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P33	A	01	PAINT	BEIGE, EXTERIOR		
P33	B	01	SEALANT	WHITE, WF, DF & SEAMS		
P33	D	01	SEALANT	OFF-WHITE, ROOF SEAMS		
P33	E	01	PANEL/MAS	BEIGE/BEIGE, WALL		
P33	F	01	ACP	21X4' WHITE, FIBERGLASS		
P33	G	01	VFT/MAS	12" BEIGE/YELLOW		
P33	H	01	BASECOVE/MAS	4" BROWN/BEIGE		
P33	I	01	MASTIC	BLACK, SINK		
P33	J	01	VFT/MAS	12" TAN/YELLOW		
P33	L	01	COATING	GRAY, METAL RAMP.		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis Rocha — LUIS J ROCHA — 08/12/16
TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

2. 730
TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

3.
TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

RECEIVED AUG 12 2016

PAGE 1 OF 1

HUSD
Harder ES - P33
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
212	P33	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
213	P33	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
214	P33	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
215	P33	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
216	P33	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
217	P33	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
218	P33	OUTSIDE	FLOOR STRIPE	METAL	YELLOW	DETERIORATED	Negative	0	mg/cm^2
219	P33	OUTSIDE	RAMP	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
220	P33	OUTSIDE	HAND RAIL	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
221	P33	OUTSIDE	EAVE	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
222	P33	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
223	P33	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
224	P33	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
225	P33	INSIDE	DOOR FRAME	METAL	WHITE	INTACT	Negative	0	mg/cm^2
226	P33	INSIDE	DOOR	METAL	WHITE	INTACT	Negative	0	mg/cm^2
227	P33	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
228	P33	INSIDE	CABINET	WOOD	VARNISH	INTACT	Negative	0	mg/cm^2
229	P33	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P34
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the ten samples collected and analyzed

Lead-Based Paint and Materials

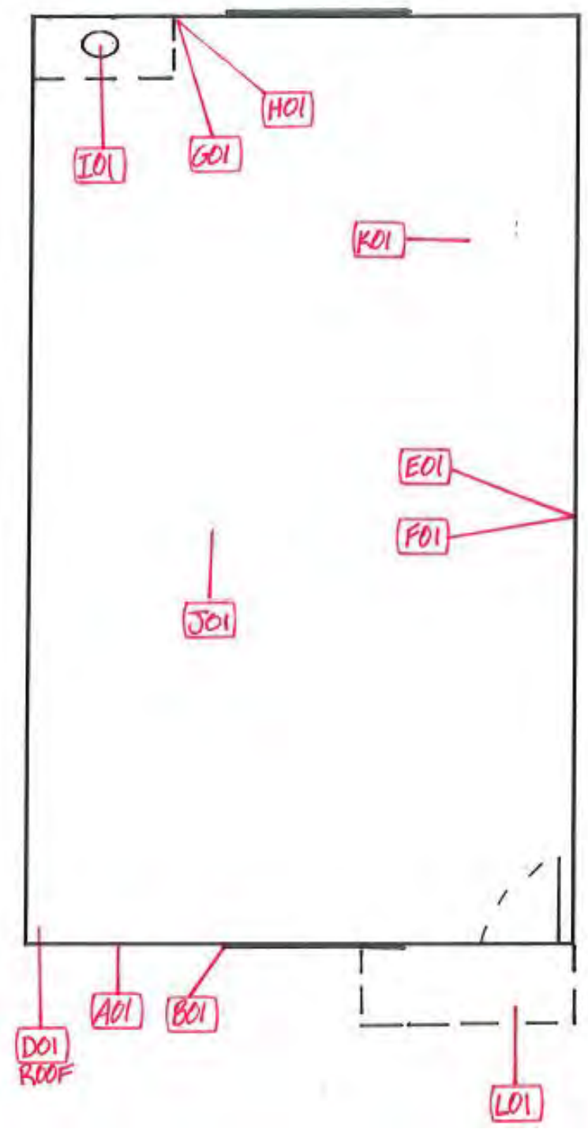
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P34
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Sheet Flooring/Mastic	12" Beige/Yellow & Black	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Black, Sink	1
J	Vinyl Floor Tile/Mastic	12" Tan/Yellow	1
K	Vinyl Floor Tile/Mastic	12" Blue/Yellow	1
L	Coating	Beige, Ramp	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING

www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 34

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226399
Date Received: 08/15/16
Date Analyzed: 08/17/16
Date Printed: 08/18/16
First Reported: 08/18/16

Job ID/Site: 160041001 - Harder Unified School District, Harder ES Portable P34

Date(s) Collected: 08/15/2016

FALI Job ID: L1161
Total Samples Submitted: 10
Total Samples Analyzed: 10

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P34-A01	11798358						
Layer: Beige Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
P34-B01	11798359						
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (5 %)							
P34-D01	11798360						
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (5 %)							
P34-F01	11798361						
Layer: Yellow Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (2 %) Fibrous Glass (90 %)							
P34-G01	11798362						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
P34-H01	11798363						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Beige Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
P34-I01	11798364						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (Trace)							

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Report Number: B226399
Client Name: Vista Environmental Consultants **Date Printed:** 08/18/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P34-J01	11798365						
Layer: Tan Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P34-K01	11798366						
Layer: Blue Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P34-L01	11798367						
Layer: Brown Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8/15/16

LOCATION: Harder ES Portable P34

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P34	A	01	Paint	Beige Ext.		
P34	B	01	Sealant	Wt, wallframe, Door frame		
P34	D	01	Sealant	Off wt, roof seams		
P34	F	01	Acoustic, ceiling Panel	2x4' wt, fiberglass		
P34	G	01	VFT/mastic	12" Beige/yellow & Black 12		
P34	H	01	Basecove/mastic	4" Brown/Beige		
P34	I	01	mastic	Black, sink		
P34	J	01	VFT/mastic	12" TAN/yellow		
P34	K	01	VFT/mastic	12" Blue/yellow		
P34	L	01	Coating	Brown, Ramp		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. _____ TRANSFER SIGNATURE — Chris Burns PRINTED NAME — 8/15/16 DATE/TIME

2. _____ TRANSFER SIGNATURE — S. Hollister PRINTED NAME — DATE/TIME

3. _____ TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 1 OF 1

HUSD
Harder ES - P34
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
43	P34	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
44	P34	OUTSIDE	WINDOW SILL	WOOD	TAN	INTACT	Negative	0	mg/cm^2
45	P34	OUTSIDE	HAND RAIL	METAL	BROWN	INTACT	Negative	0	mg/cm^2
46	P34	OUTSIDE	RAMP	METAL	TAN	INTACT	Negative	0	mg/cm^2
49	P34	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
50	P34	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
52	P34	OUTSIDE	OVERHANG	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
53	P34	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
54	P34	INSIDE	WALL	VINYL	BEIGE	INTACT	Negative	0	mg/cm^2
55	P34	INSIDE	CABINET	WOOD	VARNISH	INTACT	Negative	0	mg/cm^2
56	P34	INSIDE	BRACKET	METAL	BROWN	INTACT	Negative	0	mg/cm^2
57	P34	INSIDE	DOOR	METAL	BEIGE	INTACT	Negative	0.01	mg/cm^2
58	P34	INSIDE	DOOR FRAME	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
63	P34	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
64	P34	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
65	P34	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
123			CALIBRATE				Positive	1.1	mg/cm^2
124			CALIBRATE				Positive	1.1	mg/cm^2
125			CALIBRATE				Positive	1.1	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P35
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 10 samples collected and analyzed

Lead-Based Paint and Materials

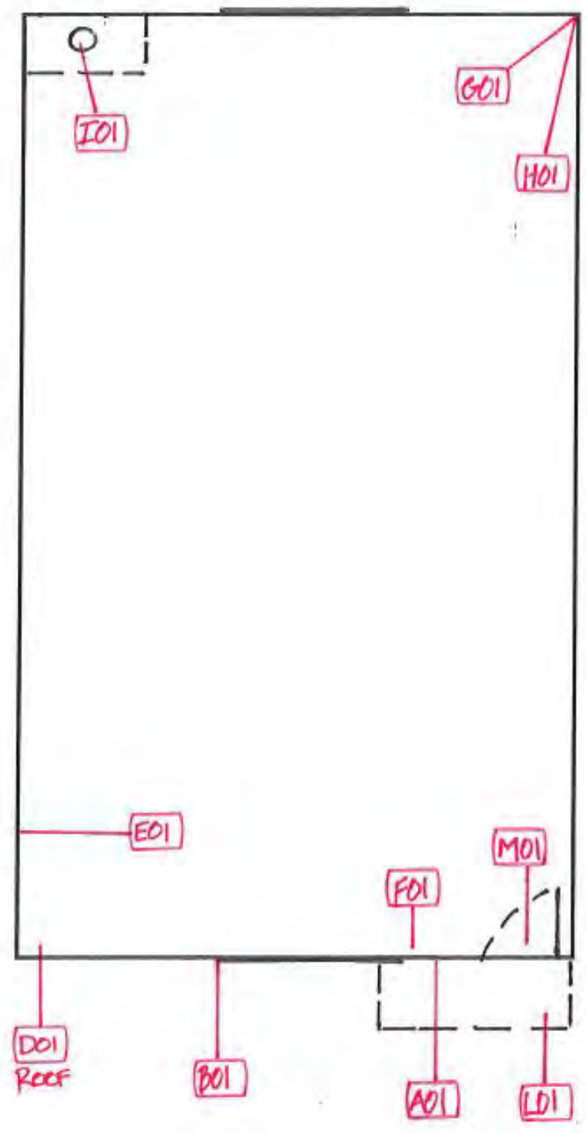
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P35
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Sheet Flooring/Mastic	12" Beige/Yellow & Black	1
H	Basecove/Mastic	4" Tan/Yellow	1
I	Mastic	Black, Sink	1
L	Coating	Beige, Ramp	1
M	Mastic	Yellow, Carpet	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 35

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226396
Date Received: 08/15/16
Date Analyzed: 08/17/16
Date Printed: 08/18/16
First Reported: 08/18/16

Job ID/Site: 160041001 - Harder Unified School District, Harder ES Portable P35

FALI Job ID: L1161
Total Samples Submitted: 10
Total Samples Analyzed: 10

Date(s) Collected: 08/15/2016

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P35-A01	11798329						
Layer: Beige Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P35-B01	11798330						
Layer: Off-White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (5 %)		**Asbestos (ND)**					
P35-D01	11798331						
Layer: Off-White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (5 %)		**Asbestos (ND)**					
P35-E01	11798332						
Layer: Tan Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
P35-F01	11798333						
Layer: Yellow Fibrous Tile			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (2 %) Fibrous Glass (90 %)		**Asbestos (ND)**					
P35-G01	11798334						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P35-I01	11798335						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Report Number: B226396
Client Name: Vista Environmental Consultants **Date Printed:** 08/18/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P35-H01	11798336						
Layer: Tan Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
P35-L01	11798337						
Layer: Beige Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Synthetic (Trace)							
P35-M01	11798338						
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (10 %) Synthetic (Trace)							

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical Laboratories Inc. (FALI) at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by FALI to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by FALI. The client is solely responsible for the use and interpretation of test results and reports requested from FALI. Forensic Analytical Laboratories Inc. is not able to assess the degree of hazard resulting from materials analyzed. FALI reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8/15/16

LOCATION: Harder ES Portable P35

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P35	A	01	Paint	Beige, Ext		
P35	B	01	Sealant	wt, wall frame Door frame		
P35	D	01	Sealant	Off-wt, Roof Seams		
P35	E	01	Panel/mastic	Beige/Beige Wall		
P35	F	01	Acoustic Ceiling Panel	2'x4' wt, Fiberglass		
P35	G	01	VFT/Mastic	12" Beige/yellow & Black		
P35	I	01	Mastic	Black, sink		
P35	H	01	Basecove/mastic	4" TAN/yellow		
P35	L	01	Coating	Beige, Ramp		
P35	M	01	mastic	yellow, carpet		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.		Chris Burns	8/15/16
2.		S. Hollister	
3.			

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PAGE 1 OF 1

HUSD
Harder ES - P35
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
66	P35	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
67	P35	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
68	P35	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0.01	mg/cm^2
69	P35	OUTSIDE	HAND RAIL	METAL	BROWN	INTACT	Negative	0	mg/cm^2
70	P35	OUTSIDE	RAMP	METAL	TAN	INTACT	Negative	0	mg/cm^2
71	P35	OUTSIDE	RAMP	METAL	YELLOW	INTACT	Negative	0	mg/cm^2
72	P35	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
73	P35	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
74	P35	OUTSIDE	OVERHANG	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
75	P35	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
76	P35	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0.01	mg/cm^2
77	P35	INSIDE	DOOR FRAME	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
78	P35	INSIDE	DOOR	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
80	P35	INSIDE	BRACKET	METAL	BROWN	INTACT	Negative	0	mg/cm^2
81	P35	INSIDE	WALL	VINYL	BEIGE	INTACT	Negative	0	mg/cm^2
82	P35	INSIDE	CABINET	WOOD	VARNISH	INTACT	Negative	0	mg/cm^2
123			CALIBRATE				Positive	1.1	mg/cm^2
124			CALIBRATE				Positive	1.1	mg/cm^2
125			CALIBRATE				Positive	1.1	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P36
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 13 samples collected and analyzed

Lead-Based Paint and Materials

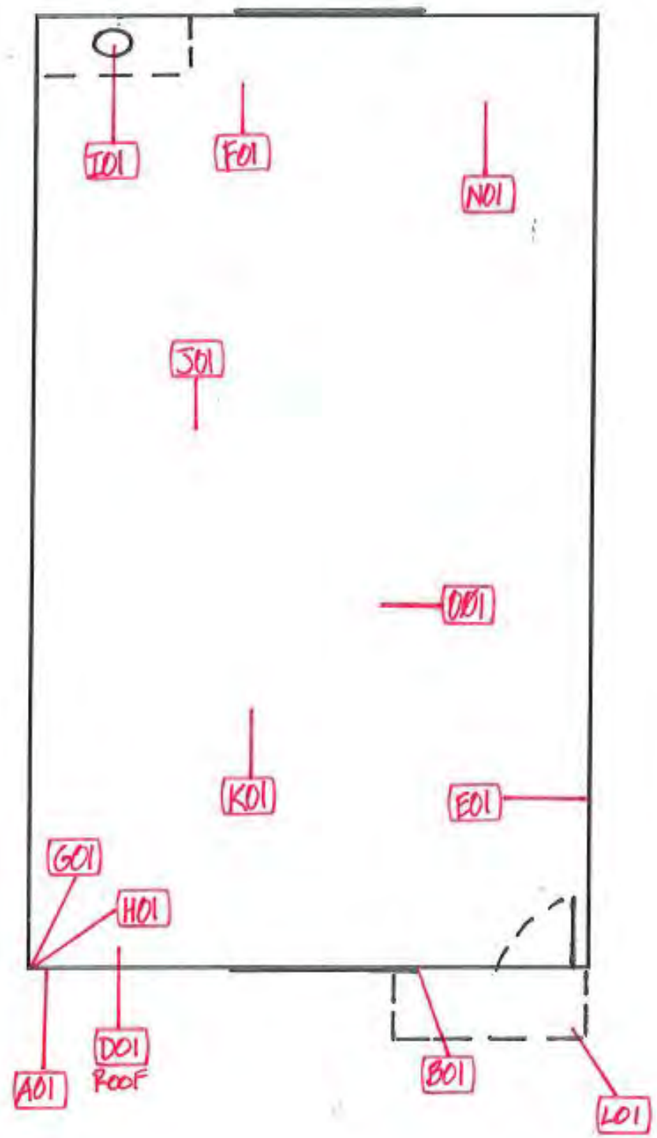
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P36
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Sheet Flooring/Mastic	12" Beige/Yellow & Black	1
H	Basecove/Mastic	4" Brown/Beige	1
I	Mastic	Black, Sink	1
J	Vinyl Floor Tile/Mastic	12" Tan/Yellow	1
K	Vinyl Floor Tile/Mastic	12" Blue/Yellow	1
L	Coating	Beige, Ramp	1
N	Vinyl Floor Tile/Mastic	12" Light Brown/Yellow	1
O	Acoustic Ceiling Panel	12" White, Fissure Pinhole	1



Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING

www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 36

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226401
Date Received: 08/15/16
Date Analyzed: 08/18/16
Date Printed: 08/18/16
First Reported: 08/18/16

Job ID/Site: 160041001 - Harder Unified School District, Harder ES Portable P36

Date(s) Collected: 08/15/2016

FALI Job ID: L1161
Total Samples Submitted: 13
Total Samples Analyzed: 13

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P36-A01	11798368						
Layer: Beige Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P36-B01	11798369						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P36-D01	11798370						
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P36-E01	11798371						
Layer: Yellow Mastic			**ND**				
Layer: Tan Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (95 %)		**Asbestos (ND)**					
P36-F01	11798372						
Layer: Yellow Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Fibrous Glass (99 %)		**Asbestos (ND)**					
P36-G01	11798373						
Layer: Beige Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P36-H01	11798374						
Layer: Brown Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

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Report Number: B226401
Client Name: Vista Environmental Consultants **Date Printed:** 08/18/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P36-I01	11798375						
Layer: Black Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P36-J01	11798376						
Layer: Tan Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P36-K01	11798377						
Layer: Brown Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P36-L01	11798378						
Layer: Brown Coating			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P36-N01	11798379						
Layer: Light Brown Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P36-O01	11798380						
Layer: Beige Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (35 %) Fibrous Glass (45 %)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8-15-16

LOCATION: Harder ES Portable P36

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P36	A	01	Paint	Beige		
P36	B	01	Sealant	wt, Wall Frames Door Frames		
P36	D	01	Sealant	off wt, Roof Seams		
P36	E	01	Panel/mastic	Beige/Beige		
P36	F	01	Acoustic ceiling Panel	2x4' wt, Fiberglass		
P36	G	01	VFT/mastic	12" Beige/Yellow Black		
P36	H	01	Basecove/mastic	4" Brown/Beige		
P36	I	01	mastic	Black, sink		
P36	J	01	VFT/mastic	12" TAN/yellow		
P36	K	01	VFT/mastic	12" Brown/Yellow		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.		Chris Burns	8/15/16
2.		S. Hollister	
3.			

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PAGE 1 OF 2

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8-15-16

LOCATION: Harder ES Portable

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P36	L	01	Coating	Beige, Ramp		
P36	N	01	VFT/Mastic	12" light Brown ~~Yellow~~		
P36	O	01	Acoustic ceiling Panel	12" white, Fissure pinhole		

13 Samples total

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

	TRANSFER SIGNATURE	PRINTED NAME	DATE/TIME
1.		Chris Burns	8/15/16
2.		S. Hollister	@ 3:30
3.			

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PAGE 2 OF 2

HUSD
Harder ES - P36
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
83	P36	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
84	P36	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
85	P36	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
86	P36	OUTSIDE	HAND RAIL	METAL	BROWN	INTACT	Negative	0	mg/cm^2
87	P36	OUTSIDE	RAMP	METAL	TAN	INTACT	Negative	0	mg/cm^2
88	P36	OUTSIDE	RAMP	METAL	YELLOW	INTACT	Negative	0	mg/cm^2
89	P36	OUTSIDE	WINDOW FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
90	P36	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
91	P36	OUTSIDE	OVERHANG	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
92	P36	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
93	P36	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
94	P36	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
95	P36	INSIDE	BRACKET	METAL	BROWN	INTACT	Negative	0	mg/cm^2
96	P36	INSIDE	DOOR FRAME	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
97	P36	INSIDE	DOOR	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
98	P36	INSIDE	WALL	VINYL	BEIGE	INTACT	Negative	0	mg/cm^2
99	P36	INSIDE	CABINET	WOOD	VARNISH	INTACT	Negative	0	mg/cm^2
123			CALIBRATE				Positive	1.1	mg/cm^2
124			CALIBRATE				Positive	1.1	mg/cm^2
125			CALIBRATE				Positive	1.1	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

P37
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 12 samples collected and analyzed

Lead-Based Paint and Materials

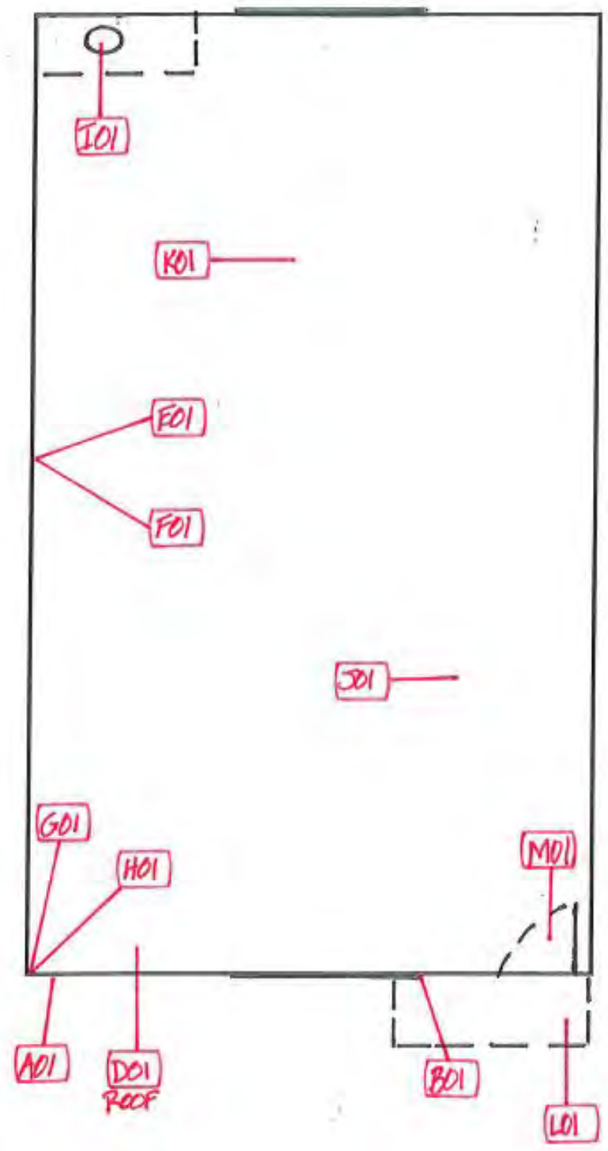
No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

P37
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Window Frames, Door Frames & Seams	1
D	Sealant	Off-White, Roof Seams	1
E	Panel/Mastic	Beige/Beige, Wall	1
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Floor Tile/Mastic	12" Blue/Yellow	1
H	Basecove/Mastic	4" Black/Yellow	1
I	Mastic	Black, Sink	1
J	Vinyl Floor Tile/Mastic	12" Dark Blue/Yellow	1
K	Vinyl Floor Tile/Mastic	12" Green/Yellow	1
L	Coating	Beige, Ramp	1
M	Mastic	Yellow, Carpet	1



Asbestos Sample Location

Asbestos Material Location

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www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Portable 37

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Chris Burns
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226397
Date Received: 08/15/16
Date Analyzed: 08/17/16
Date Printed: 08/18/16
First Reported: 08/18/16

Job ID/Site: 160041001 - Harder Unified School District, Harder ES Portable P37

Date(s) Collected: 08/15/2016

FALI Job ID: L1161
Total Samples Submitted: 12
Total Samples Analyzed: 12

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P37-A01	11798342						
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P37-B01	11798343						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
P37-D01	11798344						
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P37-E01	11798345						
Layer: Brown Fibrous Material			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (95 %)							
P37-F01	11798346						
Layer: Yellow Fibrous Material			**ND**				
Layer: White Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Fibrous Glass (95 %)							
P37-I01	11798347						
Layer: Black Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P37-G01	11798348						
Layer: Blue Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226397
Client Name: Vista Environmental Consultants **Date Printed:** 08/18/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
P37-H01	11798349						
Layer: Black Non-Fibrous Material			**ND**				
Layer: Off-White Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (10 %)		**Asbestos (ND)**					
P37-J01	11798350						
Layer: Blue Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P37-K01	11798351						
Layer: Green Tile			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
P37-L01	11798352						
Layer: Brown Coating			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
P37-M01	11798353						
Layer: Clear Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8-15-16

LOCATION: Harder ES Portable P37

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P37	A	01	Paint	Beige Ext		
P37	B	01	Sealant	wt, Wall frames Door frames		
P37	D	01	Sealant	Off wt Fiberglass		
P37	E	01	Panel/mastic	Beige/Beige		
P37	F	01	Acoustic Ceiling Panel	2'x4' wt, Fiberglass		
P37	I	01	mastic	Black, sink		
P37	G	01	VFT/Mastic	12" Blue/Yellow		
P37	H	01	Basecove/mastic	4" Black/Yellow		
P37	J	01	VFT/mastic	12" Off Blue/Yellow		
P37	K	01	VFT/mastic	12" Green/Yellow		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. TRANSFER SIGNATURE — PRINTED NAME: Chris Burns — DATE/TIME: 8/15/16
2. TRANSFER SIGNATURE — PRINTED NAME: S. Hollister — DATE/TIME
3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8-15-16

LOCATION: Harder ES Portable P37

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
P37	L	01	coating	Beige Ramp		
P37	M	01	mastic	yellow, carpet		

ANALYTICAL METHOD: PLM ~~400 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. TRANSFER SIGNATURE — Chris Burns PRINTED NAME — 8/15/16 DATE/TIME

2. TRANSFER SIGNATURE — S. Hollister PRINTED NAME — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

RECEIVED AUG 15 2016

PAGE 2 OF 2

HUSD
Harder ES - P37
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
100	P37	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
101	P37	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
102	P37	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
103	P37	OUTSIDE	HAND RAIL	METAL	BROWN	INTACT	Negative	0	mg/cm^2
104	P37	OUTSIDE	RAMP	METAL	TAN	INTACT	Negative	0	mg/cm^2
105	P37	OUTSIDE	RAMP	METAL	YELLOW	INTACT	Negative	0	mg/cm^2
106	P37	OUTSIDE	WINDOW SILL	WOOD	TAN	INTACT	Negative	0	mg/cm^2
107	P37	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
108	P37	OUTSIDE	OVERHANG	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
109	P37	OUTSIDE	FASCIA	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
110	P37	OUTSIDE	FLASHING	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
111	P37	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
112	P37	INSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0.03	mg/cm^2
113	P37	INSIDE	CABINET	WOOD	VARNISH	INTACT	Negative	0	mg/cm^2
114	P37	INSIDE	DOOR FRAME	METAL	WHITE	INTACT	Negative	0	mg/cm^2
115	P37	INSIDE	DOOR	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
116	P37	INSIDE	BRACKET	METAL	BROWN	INTACT	Negative	0	mg/cm^2
123			CALIBRATE				Positive	1.1	mg/cm^2
124			CALIBRATE				Positive	1.1	mg/cm^2
125			CALIBRATE				Positive	1.1	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

Portable Restrooms

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

PORTABLE RESTROOMS
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 12 samples collected and analyzed

Lead-Based Paint and Materials

No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

MATERIAL	CONTAMINANT	ESTIMATED QUANTITY
Fluorescent Tubes (4' Length)	Universal Waste	20
Light Fixture Ballasts	Polychlorinated Biphenyls	10
Metal Halide/ Sodium	Universal Waste	1
HVAC Unit	Ozone Depleting Chemicals	1
Smoke Detectors	Low-Level Radiation	1

PORTABLE RESTROOMS
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Paint	Beige, Exterior	1
B	Sealant	White, Door Frames & Seams	1
C	Sealant	Gray, Roof Rivets	1
D	Sealant	Off-White, Roof Seams	1
E	Mastic	Yellow, Wainscot	2
F	Acoustic Ceiling Panel	2'x4' White, Fiberglass	1
G	Vinyl Sheet Flooring/Mastic	Off-White/Gray	2
H	Paint/Wallboard/Joint Compound	White/Gray/White, Ceiling	1
I	Coating	Gray, Ramp	1
J	Wallboard	White, no Joint Compound	1

VISTA ENVIRONMENTAL CONSULTING

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226376
Date Received: 08/12/16
Date Analyzed: 08/17/16
Date Printed: 08/17/16
First Reported: 08/17/16

Job ID/Site: 160041001 - HUSD, Harder ES Portables (Restrooms)

Date(s) Collected: 08/11/2016

FALI Job ID: L1161
Total Samples Submitted: 12
Total Samples Analyzed: 12

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PRR-A-01	11797983						
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
PRR-B-01	11797984						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (5 %)		**Asbestos (ND)**					
PRR-C-01	11797985						
Layer: Grey Non-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
PRR-D-01	11797986						
Layer: White Non-Fibrous Material			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Synthetic (5 %)		**Asbestos (ND)**					
PRR-E-01	11797987						
Layer: White Semi-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Fibrous Glass (75 %)		**Asbestos (ND)**					
PRR-E-02	11797988						
Layer: White Semi-Fibrous Material			**ND**				
Layer: Yellow Mastic			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace) Fibrous Glass (75 %)		**Asbestos (ND)**					
PRR-F-01	11797989						
Layer: Yellow Fibrous Material			**ND**				
Layer: White Non-Fibrous Coating			**ND**				
Total Composite Values of Fibrous Components: Fibrous Glass (10 %)		**Asbestos (ND)**					

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226376
Client Name: Vista Environmental Consultants **Date Printed:** 08/17/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
PRR-G-01	11797990						
Layer: Off-White Sheet Flooring			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (2 %)							
PRR-G-02	11797991						
Layer: Off-White Sheet Flooring			**ND**				
Layer: Grey Semi-Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace) Fibrous Glass (2 %)							
PRR-H-01	11797992						
Layer: Pink Drywall			**ND**				
Layer: White Joint Compound			**ND**				
Layer: Yellow Fibrous Material			**ND**				
Layer: White Joint Compound			**ND**				
Layer: Paint			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (20 %) Fibrous Glass (10 %)							
PRR-I-01	11797993						
Layer: Brown Non-Fibrous Coating			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (Trace)							
PRR-J-01	11797994						
Layer: White Drywall			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (15 %) Fibrous Glass (5 %)							

Tad Thrower

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES Portables (RESTROOMS) PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
PRR	A	01	PAINT	BEIGE, EXT		
PRR	B	01	SEALANT	WHITE, DF & SEAMS		
PRR	C	01	SEALANT	GRAY, ROOF		
PRR	D	01	SEALANT	OFF-WHITE, ROOF SEAMS		
PRR	E	01	MASTIC	YELLOW, WAINSCOT		
PRR	E	02	↓	↓		
PRR	F	01	ACP	2'x4' WHITE, FIBERGLASS		
PRR	G	01	VSF/MAS	OFF-WHITE/GRAY		
PRR	G	02	↓	↓		
PRR	H	01	PAINT/WB/SC	WHITE/GRAY/	WHITE	

ANALYTICAL METHOD: PLM ~~200 PT COUNT~~ TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. Luis J. Rocha — TRANSFER SIGNATURE; LUIS J. ROCHA — PRINTED NAME; 08/12/16 — DATE/TIME
2. [illegible] — TRANSFER SIGNATURE; d/o — PRINTED NAME; 2:30 pm — DATE/TIME
3. TRANSFER SIGNATURE; PRINTED NAME; DATE/TIME

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PAGE 1 OF 2

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: HUSD

DATE: 08/11/16

LOCATION: Harder ES Portables (RESTROOM)

PROJECT NUMBER: 160041001

SAMPLED BY: JR

CAC OR SST NO: 02-3244

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
PRR	I	01	COATING	GRAY, RAMP		
PRR	J	01	WALLBOARD	WHITE, NO JOINTCOMPOUND		

12 SAMPLES

ANALYTICAL METHOD: [X] PLM [ ] ~~400 PT COUNT~~

TURNAROUND TIME: SAME DAY 24HR [X] 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. [signature] — TRANSFER SIGNATURE — LUIS J ROCHA — PRINTED NAME — 08/12/16 — DATE/TIME

2. [signature] — TRANSFER SIGNATURE — d/o — PRINTED NAME — 2:30 pm — DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 2 OF 2

HUSD
Harder ES - PRR
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.24	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1	mg/cm^2
4			CALIBRATE				Positive	1.1	mg/cm^2
192	PRR	OUTSIDE	WALL	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
193	PRR	OUTSIDE	TRIM	WOOD	BEIGE	INTACT	Negative	0	mg/cm^2
194	PRR	OUTSIDE	PIPE	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
195	PRR	OUTSIDE	DOWNSPOUT	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
196	PRR	OUTSIDE	TRIM	METAL	BEIGE	INTACT	Negative	0.01	mg/cm^2
197	PRR	OUTSIDE	DOOR FRAME	WOOD	TAN	INTACT	Negative	0	mg/cm^2
198	PRR	OUTSIDE	DOOR FRAME	METAL	TAN	INTACT	Negative	0	mg/cm^2
199	PRR	OUTSIDE	DOOR	METAL	TAN	INTACT	Negative	0	mg/cm^2
200	PRR	OUTSIDE	RAMP	METAL	TAN	DETERIORATED	Negative	0	mg/cm^2
201	PRR	OUTSIDE	HAND RAIL	METAL	BROWN	DETERIORATED	Negative	0	mg/cm^2
202	PRR	OUTSIDE	EAVE	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
203	PRR	OUTSIDE	FASCIA	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
204	PRR	OUTSIDE	GUTTER	METAL	BEIGE	INTACT	Negative	0	mg/cm^2
205	PRR	INSIDE	DOOR FRAME	METAL	WHITE	INTACT	Negative	0	mg/cm^2
206	PRR	INSIDE	DOOR	METAL	WHITE	INTACT	Negative	0	mg/cm^2
207	PRR	INSIDE	WALL	PLASTIC	WHITE	INTACT	Negative	0	mg/cm^2
208	PRR	INSIDE	VENT	METAL	WHITE	INTACT	Negative	0	mg/cm^2
209	PRR	INSIDE	BEAM	METAL	RED	INTACT	Negative	0	mg/cm^2
210	PRR	INSIDE	STALLS	METAL	BLUE, LIGHT	INTACT	Negative	0	mg/cm^2
211	PRR	INSIDE	FLOOR	VINYL	WHITE	INTACT	Negative	0	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

SITE

The information contained in these appendices are not stand alone documents and should not be separated from this report. For specific regulatory requirements regarding these materials please refer to the information provided in the Main Report. Quantities and locations listed in the tables are order of magnitude estimates and are not to be used for bidding purposes. It is the sole responsibility of the contractor to verify quantities and locations of hazardous materials in the path of construction through site visits and contractual bid set documents, including, but not limited to all specifications, drawings, and addenda. Any discrepancies between the contractual bid set documentation and site visits must be submitted in writing to the Owner or Owner's representative, prior to bidding.

BAAQMD classifications are based upon the material's condition at the time of the survey or as rendered as a result of standard manual removal/demolition techniques. The use of "mechanical means", non-standard or other aggressive removal/demolition techniques may result in a different classification. BAAQMD & Cal-OSHA classifications are based on the materials being >1% asbestos pending further analytical data that proves otherwise.

SITE
HAZARDOUS MATERIALS SUMMARY

Asbestos

No Asbestos was detected in the 19 samples collected and analyzed. Sub-surface asbestos utility piping is assumed throughout the site.

Lead-Based Paint and Materials

No Lead-Based Paints or materials were identified. Please see Recommendation section for regulatory clarifications regarding lead in paint.

Other Hazardous Materials

No other hazardous materials were identified.

SITE
ASBESTOS SAMPLING INVENTORY

HOMOGENEOUS ID	MATERIAL	DESCRIPTION	# OF SAMPLES
A	Asphalt	Black	9
B	Concrete	Gray	7
C	Mastic	Gray, Parking Stop	1
D	Matting	Black, Asphalt	1
E	Expansion Joint	Black	1

Sub-surface Asbestos Utility Piping
Assumed Throughout the Project Site

Asbestos Sample Location

Asbestos Material Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Sample & Material Location Drawing
Site

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

Forensic Analytical LABORATORIES

Final Report

Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

Vista Environmental Consultants
Project Manager
2984 Teagarden St.

San Leandro, CA 94577

Client ID: L1161
Report Number: B226287
Date Received: 08/12/16
Date Analyzed: 08/16/16
Date Printed: 08/16/16
First Reported: 08/16/16

Job ID/Site: 160041001 - HUSD, Harder ES

Date(s) Collected: 08/12/2016

FALI Job ID: L1161
Total Samples Submitted: 19
Total Samples Analyzed: 19

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
Site-A-01	11797225						
Layer: Black Cementitious Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Site-A-02	11797226						
Layer: Black Cementitious Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Site-A-03	11797227						
Layer: Black Cementitious Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Site-A-04	11797228						
Layer: Black Cementitious Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Site-A-05	11797229						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
Site-A-06	11797230						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
Site-A-07	11797231						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
Site-A-08	11797232						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226287
Client Name: Vista Environmental Consultants **Date Printed:** 08/16/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
Site-A-09	11797233						
Layer: Black Semi-Fibrous Tar			**ND**				
Total Composite Values of Fibrous Components: Cellulose (Trace)		**Asbestos (ND)**					
Site-B-01	11797234						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Site-B-02	11797235						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Site-B-03	11797236						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Site-B-04	11797237						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Site-B-05	11797238						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Site-B-06	11797239						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Site-B-07	11797240						
Layer: Grey Cementitious Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Site-C-01	11797241						
Layer: Grey Mastic			**ND**				
Total Composite Values of Fibrous Components: Synthetic (5 %)		**Asbestos (ND)**					
Site-D-01	11797242						
Layer: Black Cementitious Tar			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FASI / Fax: (510) 887-4218

Report Number: B226287

Client Name: Vista Environmental Consultants

Date Printed: 08/16/16

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
Site-E-01	11797243						
Layer: Black Fibrous Material			**ND**				
Total Composite Values of Fibrous Components:		**Asbestos (ND)**					
Cellulose (95 %)							

Tad Thrower, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification ('LOQ') = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

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VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8/12/16

LOCATION: Harder ES Site ~~& Ballfield~~

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
Site	A	01	Asphalt	Black		
Site	A	02				
Site	A	03				
Site	A	04				
Site	A	05				
Site	A	06				
Site	A	07				
Site	A	08				
Site	A	09				
Site	B	01	Concrete	Gray		

ANALYTICAL METHOD: PLM 400 PT COUNT

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. TRANSFER SIGNATURE — Chris Burns PRINTED NAME — 8/12/16, 1200 DATE/TIME

2. TRANSFER SIGNATURE — PRINTED NAME — 8/12 2:30 pm DATE/TIME

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

RECEIVED AUG 1 3 2016 cym

VISTA ENVIRONMENTAL CONSULTING

ASBESTOS BULK SAMPLE LOG

2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577

OFFICE 510.346.8860
FAX 888.653.8889

CLIENT: Harder Unified School District

DATE: 8/12/16

LOCATION: Harder ES Site ~~& Ballfield~~

PROJECT NUMBER: 160041001

SAMPLED BY: CB

CAC OR SST NO: 92-0224

BUILDING	HOMO AREA ID	NUMBER	MATERIAL	DESCRIPTION	LOCATION	QUANTITY (SF/LF/EA)
Site	B	02	Caulk	Gray		
Site	B	03				
Site	B	04				
Site	B	05				
Site	B	06				
Site	B	07				
Site	C	01	Mastic	Gray,	Parking Stop	
Site	D	01	Matting	Black,	Asphalt	
Site	E	01	Expansion Joint,	Black		

ANALYTICAL METHOD: PLM 400 PT COUNT

TURNAROUND TIME: SAME DAY 24HR 48 HR 3 DAY

DATA SENT TO: CHRISTOPHER BURNS VIA E-MAIL: CHRISBURNS@VISTA-ENV.COM
QUESTIONS CALL: 510.658.8860

SPECIAL INSTRUCTIONS:

CHAIN OF CUSTODY:

1. TRANSFER SIGNATURE — PRINTED NAME: Chris Burns — DATE/TIME: 8/12/16 1200

2. TRANSFER SIGNATURE — PRINTED NAME: d/o — DATE/TIME: 2:30 pm

3. TRANSFER SIGNATURE — PRINTED NAME — DATE/TIME

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PAGE 2 OF 2

HUSD
Harder ES -SITE
XRF Sequential Report

Reading No	Building	Room	Component	Substrate	Color	Condition	Results	PbC	Units
1			SHUTTER_CAL					6.28	cps
2			CALIBRATE				Positive	1.1	mg/cm^2
3			CALIBRATE				Positive	1.1	mg/cm^2
4			CALIBRATE				Positive	1	mg/cm^2
5	SITE	OUTSIDE	FLOOR	ASPHALT	WHITE	INTACT	Negative	0	mg/cm^2
6	SITE	OUTSIDE	FLOOR	ASPHALT	BLUE	INTACT	Negative	0	mg/cm^2
7	SITE	OUTSIDE	FLOOR	ASPHALT	BLUE	INTACT	Negative	0	mg/cm^2
8	SITE	OUTSIDE	FLOOR	ASPHALT	WHITE	INTACT	Negative	0	mg/cm^2
9	SITE	OUTSIDE	FLOOR	CONCRETE	WHITE	INTACT	Negative	0	mg/cm^2
10	SITE	OUTSIDE	FLOOR	ASPHALT	YELLOW	INTACT	Negative	0	mg/cm^2
11	SITE	OUTSIDE	FLOOR	ASPHALT	WHITE	INTACT	Negative	0	mg/cm^2
12	SITE	OUTSIDE	FLOOR	ASPHALT	WHITE	INTACT	Negative	0	mg/cm^2
14	SITE	OUTSIDE	FLOOR	ASPHALT	WHITE	INTACT	Negative	0	mg/cm^2
15	SITE	OUTSIDE	FLOOR	ASPHALT	WHITE	INTACT	Negative	0	mg/cm^2
17	SITE	OUTSIDE	FLOOR	ASPHALT	GREEN	INTACT	Negative	0	mg/cm^2
18	SITE	OUTSIDE	FLOOR	ASPHALT	BLACK	INTACT	Negative	0	mg/cm^2
19	SITE	OUTSIDE	POLE	METAL	BLACK	INTACT	Negative	0.13	mg/cm^2
20	SITE	OUTSIDE	POLE	METAL	BLUE	INTACT	Negative	0	mg/cm^2
21	SITE	OUTSIDE	RAIL	METAL	BROWN	INTACT	Negative	0	mg/cm^2
22	SITE	OUTSIDE	FLOOR STRIPE	ASPHALT	YELLOW	INTACT	Negative	0	mg/cm^2
23	SITE	OUTSIDE	FLOOR STRIPE	ASPHALT	YELLOW	INTACT	Negative	0	mg/cm^2
24	SITE	OUTSIDE	FLOOR STRIPE	ASPHALT	BLACK	INTACT	Negative	0	mg/cm^2
25			CALIBRATE				Positive	1	mg/cm^2
26			CALIBRATE				Positive	1.1	mg/cm^2
27			CALIBRATE				Positive	1	mg/cm^2

This data is a screening of lead levels and provides results that are generally representative of typical conditions, but are not inclusive of all painted/coated surfaces at the Project Site.

VISTA ENVIRONMENTAL CONSULTING

APPENDIX B - SOIL DATA

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-01, Depth: 0-6", Location: East Side, North									
Analyte	**Lab Result**	**Units**	**Conversion to mg/kg**	**ESL for Shallow Soils Residential (mg/kg)**	**Exceed the Residential ESL?**	**ESL for Shallow Soils Commercial/Industrial (mg/kg)**	**Exceed the Commercial ESL?**	**ESL for Any Land Use, Construction Worker Shallow and Deep Soil Exposure (mg/kg)**	**Exceed the Construction ESL?**
Diesel Range Organics [C10-C28]	66	mg/kg	66	230	No	1,100	No	880	No
Motor Oil Range Organics [C24-C36]	240	mg/kg	240	11,000	No	140,000	No	32,000	No
4,4'-DDE	5	ug/kg	0.005	1.9	No	8.5	No	57	No
4,4'-DDD	2	ug/kg	0.002	2.7	No	12	No	81	No
Arsenic	**7.5**	**mg/kg**	**7.5**	**0.067**	**YES**	**0.31**	**YES**	**0.98**	**YES**
Barium	160	mg/kg	160	15,000	No	220,000	No	3,000	No
Beryllium	0.35	mg/kg	0.35	150	No	2,200	No	42	No
Cadmium	0.53	mg/kg	0.53	39	No	580	No	43	No
Chromium (Based on VI)	**40**	**mg/kg**	**40**	**0.3**	**YES**	**6.2**	**YES**	**2.8**	**YES**
Cobalt	12	mg/kg	12	23	No	350	No	28	No
Copper	54	mg/kg	54	3,100	No	47,000	No	14,000	No
Lead	37	mg/kg	37	80	No	320	No	160	No
Nickel	33	mg/kg	33	820	No	11,000	No	86	No
Silver	1.7	mg/kg	1.7	390	No	5,800	No	1,800	No
Vanadium	57	mg/kg	57	390	No	5,800	No	470	No
Zinc	110	mg/kg	110	23,000	No	350,000	No	110,000	No
Mercury	0.25	mg/kg	0.25	13	No	190	No	44	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-01, Depth: 0-6", Location: East Side, North						
Analyte	**TTLC Lab Result**	**Units**	**Conversion to mg/kg**	**TTLC Cal/Haz Level (mg/kg)**	**Exceed the Cal/Haz Level?**	**Need STLC?**
4,4'-DDE	5	ug/kg	0.005	1	No	NA
4,4'-DDD	2	ug/kg	0.002	1	No	NA
Arsenic	7.5	mg/kg	7.5	500	No	No
Barium	160	mg/kg	160	10,000	No	No
Beryllium	0.35	mg/kg	0.35	75	No	No
Cadmium	0.53	mg/kg	0.53	100	No	No
Chromium	40	mg/kg	40	2,500	No	No
Cobalt	12	mg/kg	12	8,000	No	No
Copper	54	mg/kg	54	2,500	No	No
Lead	37	mg/kg	37	1,000	No	No
Nickel	33	mg/kg	33	2,000	No	No
Silver	1.7	mg/kg	1.7	500	No	No
Vanadium	57	mg/kg	57	2,400	No	No
Zinc	110	mg/kg	110	5,000	No	No
Mercury	0.25	mg/kg	0.25	20	No	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-02, Depth: 0-6", Location: East Side, South									
Analyte	**Lab Result**	**Units**	**Conversion to mg/kg**	**ESL for Shallow Soils Residential (mg/kg)**	**Exceed the Residential ESL?**	**ESL for Shallow Soils Commercial/Industrial (mg/kg)**	**Exceed the Commercial ESL?**	**ESL for Any Land Use, Construction Worker Shallow and Deep Soil Exposure (mg/kg)**	**Exceed the Construction ESL?**
Diesel Range Organics [C10-C28]	59	mg/kg	59	230	No	1,100	No	880	No
Motor Oil Range Organics [C24-C36]	240	mg/kg	240	11,000	No	140,000	No	32,000	No
Dieldrin	**88**	**ug/kg**	**0.088**	**0.038**	**YES**	**0.17**	**No**	**1.1**	**No**
Heptachlor Epoxide	8.7	ug/kg	0.0087	0.067	No	0.30	No	1.9	No
4,4'-DDT	19	ug/kg	0.019	1.9	No	8.5	No	57	No
4,4'-DDE	59	ug/kg	0.059	1.9	No	8.5	No	57	No
4,4'-DDD	7.1	ug/kg	0.0071	2.7	No	12	No	81	No
Chlordane	**871**	**ug/kg**	**0.871**	**0.48**	**YES**	**2.2**	**No**	**14**	**No**
Arsenic	**10**	**mg/kg**	**10**	**0.067**	**YES**	**0.31**	**YES**	**0.98**	**YES**
Barium	160	mg/kg	160	15,000	No	220,000	No	3,000	No
Beryllium	0.36	mg/kg	0.36	150	No	2,200	No	42	No
Cadmium	0.47	mg/kg	0.47	39	No	580	No	43	No
Chromium (Based on VI)	**42**	**mg/kg**	**42**	**0.3**	**YES**	**6.2**	**YES**	**2.8**	**YES**
Cobalt	14	mg/kg	14	23	No	350	No	28	No
Copper	52	mg/kg	52	3,100	No	47,000	No	14,000	No
Lead	36	mg/kg	36	80	No	320	No	160	No
Nickel	37	mg/kg	37	820	No	11,000	No	86	No
Silver	1.1	mg/kg	1.1	390	No	5,800	No	1,800	No
Vanadium	67	mg/kg	67	390	No	5,800	No	470	No
Zinc	110	mg/kg	110	23,000	No	350,000	No	110,000	No
Mercury	0.25	mg/kg	0.25	13	No	190	No	44	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-02, Depth: 0-6", Location: East Side, South						
Analyte	**TTLC Lab Result**	**Units**	**Conversion to mg/kg**	**TTLC Cal/Haz Level (mg/kg)**	**Exceed the Cal/Haz Level?**	**Need STLC?**
Dieldrin	88	ug/kg	0.088	8	No	NA
Heptachlor Epoxide	8.7	ug/kg	0.0087	4.7	No	NA
4,4'-DDT	19	ug/kg	0.019	1	No	NA
4,4'-DDE	59	ug/kg	0.059	1	No	NA
4,4'-DDD	7.1	ug/kg	0.0071	1	No	NA
Chlordane	871	ug/kg	0.871	2.5	No	NA
Arsenic	10	mg/kg	10	500	No	No
Barium	160	mg/kg	160	10,000	No	No
Beryllium	0.36	mg/kg	0.36	75	No	No
Cadmium	0.47	mg/kg	0.47	100	No	No
Chromium	42	mg/kg	42	2,500	No	No
Cobalt	14	mg/kg	14	8,000	No	No
Copper	52	mg/kg	52	2,500	No	No
Lead	36	mg/kg	36	1,000	No	No
Nickel	37	mg/kg	37	2,000	No	No
Silver	1.1	mg/kg	1.1	500	No	No
Vanadium	67	mg/kg	67	2,400	No	No
Zinc	110	mg/kg	110	5,000	No	No
Mercury	0.25	mg/kg	0.25	20	No	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-03, Depth: 0-6", Location: South Side, East									
Analyte	**Lab Result**	**Units**	**Conversion to mg/kg**	**ESL for Shallow Soils Residential (mg/kg)**	**Exceed the Residential ESL?**	**ESL for Shallow Soils Commercial/Industrial (mg/kg)**	**Exceed the Commercial ESL?**	**ESL for Any Land Use, Construction Worker Shallow and Deep Soil Exposure (mg/kg)**	**Exceed the Construction ESL?**
Diesel Range Organics [C10-C28]	73	mg/kg	73	230	No	1,100	No	880	No
Motor Oil Range Organics [C24-C36]	210	mg/kg	210	11,000	No	140,000	No	32,000	No
4,4'-DDT	2.5	ug/kg	0.0025	1.9	No	8.5	No	57	No
4,4'-DDE	19	ug/kg	0.019	1.9	No	8.5	No	57	No
Arsenic	**9.4**	**mg/kg**	**9.4**	**0.067**	**YES**	**0.31**	**YES**	**0.98**	**YES**
Barium	220	mg/kg	220	15,000	No	220,000	No	3,000	No
Beryllium	0.45	mg/kg	0.45	150	No	2,200	No	42	No
Cadmium	0.51	mg/kg	0.51	39	No	580	No	43	No
Chromium (Based on VI)	**50**	**mg/kg**	**50**	**0.3**	**YES**	**6.2**	**YES**	**2.8**	**YES**
Cobalt	15	mg/kg	15	23	No	350	No	28	No
Copper	65	mg/kg	65	3,100	No	47,000	No	14,000	No
Lead	46	mg/kg	46	80	No	320	No	160	No
Nickel	46	mg/kg	46	820	No	11,000	No	86	No
Silver	1.8	mg/kg	1.8	390	No	5,800	No	1,800	No
Vanadium	76	mg/kg	76	390	No	5,800	No	470	No
Zinc	120	mg/kg	120	23,000	No	350,000	No	110,000	No
Mercury	0.2	mg/kg	0.2	13	No	190	No	44	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-03, Depth: 0-6", Location: South Side, East						
Analyte	**TTLC Lab Result**	**Units**	**Conversion to mg/kg**	**TTLC Cal/Haz Level (mg/kg)**	**Exceed the Cal/Haz Level?**	**Need STLC?**
4,4'-DDT	2.5	ug/kg	0.0025	1	No	NA
4,4'-DDE	19	ug/kg	0.019	1	No	NA
Arsenic	9.4	mg/kg	9.4	500	No	No
Barium	220	mg/kg	220	10,000	No	No
Beryllium	0.45	mg/kg	0.45	75	No	No
Cadmium	0.51	mg/kg	0.51	100	No	No
Chromium	**50**	**mg/kg**	**50**	**2,500**	**No**	**YES**
Cobalt	15	mg/kg	15	8,000	No	No
Copper	65	mg/kg	65	2,500	No	No
Lead	46	mg/kg	46	1,000	No	No
Nickel	46	mg/kg	46	2,000	No	No
Silver	1.8	mg/kg	1.8	500	No	No
Vanadium	76	mg/kg	76	2,400	No	No
Zinc	120	mg/kg	120	5,000	No	No
Mercury	0.2	mg/kg	0.2	20	No	No

VISTA ENVIRONMENTAL CONSULTING

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-04, Depth: 0-6", Location: South Side, Central									
Analyte	**Lab Result**	**Units**	**Conversion to mg/kg**	**ESL for Shallow Soils Residential (mg/kg)**	**Exceed the Residential ESL?**	**ESL for Shallow Soils Commercial/Industrial (mg/kg)**	**Exceed the Commercial ESL?**	**ESL for Any Land Use, Construction Worker Shallow and Deep Soil Exposure (mg/kg)**	**Exceed the Construction ESL?**
Diesel Range Organics [C10-C28]	160	mg/kg	160	230	No	1,100	No	880	No
Motor Oil Range Organics [C24-C36]	240	mg/kg	240	11,000	No	140,000	No	32,000	No
4,4'-DDE	4	ug/kg	0.004	1.9	No	8.5	No	57	No
Arsenic	**8.5**	**mg/kg**	**8.5**	**0.067**	**YES**	**0.31**	**YES**	**0.98**	**YES**
Barium	180	mg/kg	180	15,000	No	220,000	No	3,000	No
Beryllium	0.46	mg/kg	0.46	150	No	2,200	No	42	No
Chromium (Based on VI)	**51**	**mg/kg**	**51**	**0.3**	**YES**	**6.2**	**YES**	**2.8**	**YES**
Cobalt	15	mg/kg	15	23	No	350	No	28	No
Copper	51	mg/kg	51	3,100	No	47,000	No	14,000	No
Lead	29	mg/kg	29	80	No	320	No	160	No
Nickel	45	mg/kg	45	820	No	11,000	No	86	No
Vanadium	67	mg/kg	67	390	No	5,800	No	470	No
Zinc	93	mg/kg	93	23,000	No	350,000	No	110,000	No
Mercury	0.1	mg/kg	0.1	13	No	190	No	44	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-04, Depth: 0-6", Location: South Side, Central						
Analyte	**TTLC Lab Result**	**Units**	**Conversion to mg/kg**	**TTLC Cal/Haz Level (mg/kg)**	**Exceed the Cal/Haz Level?**	**Need STLC?**
4,4'-DDE	4	ug/kg	0.004	1	No	NA
Arsenic	8.5	mg/kg	8.5	500	No	No
Barium	180	mg/kg	180	10,000	No	No
Beryllium	0.46	mg/kg	0.46	75	No	No
Chromium	**51**	**mg/kg**	**51**	**2,500**	**No**	**YES**
Cobalt	15	mg/kg	15	8,000	No	No
Copper	51	mg/kg	51	2,500	No	No
Lead	29	mg/kg	29	1,000	No	No
Nickel	45	mg/kg	45	2,000	No	No
Vanadium	67	mg/kg	67	2,400	No	No
Zinc	93	mg/kg	93	5,000	No	No
Mercury	0.1	mg/kg	0.1	20	No	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-05, Depth: 0-6", Location: West Side, Ball Field									
Analyte	**Lab Result**	**Units**	**Conversion to mg/kg**	**ESL for Shallow Soils Residential (mg/kg)**	**Exceed the Residential ESL?**	**ESL for Shallow Soils Commercial/Industrial (mg/kg)**	**Exceed the Commercial ESL?**	**ESL for Any Land Use, Construction Worker Shallow and Deep Soil Exposure (mg/kg)**	**Exceed the Construction ESL?**
Diesel Range Organics [C10-C28]	62	mg/kg	62	230	No	1,100	No	880	No
Motor Oil Range Organics [C24-C36]	260	mg/kg	260	11,000	No	140,000	No	32,000	No
4,4'-DDD	2.3	ug/kg	0.0023	2.7	No	12	No	81	No
Chlordane	84.5	ug/kg	0.0845	0.48	No	2.2	No	14	No
Arsenic	**6.8**	**mg/kg**	**6.8**	**0.067**	**YES**	**0.31**	**YES**	**0.98**	**YES**
Barium	150	mg/kg	150	15,000	No	220,000	No	3,000	No
Chromium (Based on VI)	**39**	**mg/kg**	**39**	**0.3**	**YES**	**6.2**	**YES**	**2.8**	**YES**
Cobalt	12	mg/kg	12	23	No	350	No	28	No
Copper	50	mg/kg	50	3,100	No	47,000	No	14,000	No
Lead	26	mg/kg	26	80	No	320	No	160	No
Nickel	35	mg/kg	35	820	No	11,000	No	86	No
Silver	1.2	mg/kg	1.2	390	No	5,800	No	1,800	No
Vanadium	60	mg/kg	60	390	No	5,800	No	470	No
Zinc	88	mg/kg	88	23,000	No	350,000	No	110,000	No
Mercury	0.25	mg/kg	0.25	13	No	190	No	44	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-05, Depth: 0-6", Location: West Side, Ball Field						
Analyte	**TTLC Lab Result**	**Units**	**Conversion to mg/kg**	**TTLC Cal/Haz Level (mg/kg)**	**Exceed the Cal/Haz Level?**	**Need STLC?**
4,4'-DDD	2.3	ug/kg	0.0023	1	No	NA
Chlordane	84.5	ug/kg	0.0845	2.5	No	NA
Arsenic	6.8	mg/kg	6.8	500	No	No
Barium	150	mg/kg	150	10,000	No	No
Chromium	39	mg/kg	39	2,500	No	No
Cobalt	12	mg/kg	12	8,000	No	No
Copper	50	mg/kg	50	2,500	No	No
Lead	26	mg/kg	26	1,000	No	No
Nickel	35	mg/kg	35	2,000	No	No
Silver	1.2	mg/kg	1.2	500	No	No
Vanadium	60	mg/kg	60	2,400	No	No
Zinc	88	mg/kg	88	5,000	No	No
Mercury	0.25	mg/kg	0.25	20	No	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-06, Depth: 0-6", Location: West Side, North									
Analyte	**Lab Result**	**Units**	**Conversion to mg/kg**	**ESL for Shallow Soils Residential (mg/kg)**	**Exceed the Residential ESL?**	**ESL for Shallow Soils Commercial/Industrial (mg/kg)**	**Exceed the Commercial ESL?**	**ESL for Any Land Use, Construction Worker Shallow and Deep Soil Exposure (mg/kg)**	**Exceed the Construction ESL?**
Acetone	360	ug/kg	0.36	59,000	No	630,000	No	260,000	No
4-Isopropyltoluene (Based on Benzene)	6.2	ug/kg	0.0062	0.23	No	1	No	24	No
Diesel Range Organics [C10-C28]	**250**	**mg/kg**	**250**	**230**	**YES**	**1,100**	**No**	**880**	**No**
Motor Oil Range Organics [C24-C36]	500	mg/kg	500	11,000	No	140,000	No	32,000	No
4,4'-DDT	9.1	ug/kg	0.0091	1.9	No	8.5	No	57	No
4,4'-DDE	29	ug/kg	0.029	1.9	No	8.5	No	57	No
4,4'-DDD	12	ug/kg	0.012	2.7	No	12	No	81	No
Chlordane	2.8	ug/kg	0.0028	0.48	No	2.2	No	14	No
Arsenic	**17**	**mg/kg**	**17**	**0.067**	**YES**	**0.31**	**YES**	**0.98**	**YES**
Barium	200	mg/kg	200	15,000	No	220,000	No	3,000	No
Beryllium	0.4	mg/kg	0.4	150	No	2,200	No	42	No
Cadmium	0.46	mg/kg	0.46	39	No	580	No	43	No
Chromium (Based on VI)	**41**	**mg/kg**	**41**	**0.3**	**YES**	**6.2**	**YES**	**2.8**	**YES**
Cobalt	16	mg/kg	16	23	No	350	No	28	No
Copper	50	mg/kg	50	3,100	No	47,000	No	14,000	No
Lead	61	mg/kg	61	80	No	320	No	160	No
Nickel	36	mg/kg	36	820	No	11,000	No	86	No
Vanadium	64	mg/kg	64	390	No	5,800	No	470	No
Zinc	260	mg/kg	260	23,000	No	350,000	No	110,000	No
Mercury	0.11	mg/kg	0.11	13	No	190	No	44	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-06, Depth: 0-6", Location: West Side, North						
Analyte	**TTLC Lab Result**	**Units**	**Conversion to mg/kg**	**TTLC Cal/Haz Level (mg/kg)**	**Exceed the Cal/Haz Level?**	**Need STLC?**
4,4'-DDT	9.1	ug/kg	0.0091	1	No	NA
4,4'-DDE	29	ug/kg	0.029	1	No	NA
4,4'-DDD	12	ug/kg	0.012	1	No	NA
Chlordane	2.8	ug/kg	0.0028	2.5	No	NA
Arsenic	17	mg/kg	17	500	No	No
Barium	200	mg/kg	200	10,000	No	No
Beryllium	0.4	mg/kg	0.4	75	No	No
Cadmium	0.46	mg/kg	0.46	100	No	No
Chromium	41	mg/kg	41	2,500	No	No
Cobalt	16	mg/kg	16	8,000	No	No
Copper	50	mg/kg	50	2,500	No	No
Lead	61	mg/kg	61	1,000	No	YES
Nickel	36	mg/kg	36	2,000	No	No
Vanadium	64	mg/kg	64	2,400	No	No
Zinc	260	mg/kg	260	5,000	No	No
Mercury	0.11	mg/kg	0.11	20	No	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-07, Depth: 0-6", Location: North Side, Central									
Analyte	**Lab Result**	**Units**	**Conversion to mg/kg**	**ESL for Shallow Soils Residential (mg/kg)**	**Exceed the Residential ESL?**	**ESL for Shallow Soils Commercial/Industrial (mg/kg)**	**Exceed the Commercial ESL?**	**ESL for Any Land Use, Construction Worker Shallow and Deep Soil Exposure (mg/kg)**	**Exceed the Construction ESL?**
Diesel Range Organics [C10-C28]	58	mg/kg	58	230	No	1,100	No	880	No
Motor Oil Range Organics [C24-C36]	160	mg/kg	160	11,000	No	140,000	No	32,000	No
4,4'-DDE	2.9	ug/kg	0.0029	1.9	No	8.5	No	57	No
Arsenic	**6.7**	**mg/kg**	**6.7**	**0.067**	**YES**	**0.31**	**YES**	**0.98**	**YES**
Barium	130	mg/kg	130	15,000	No	220,000	No	3,000	No
Chromium (Based on VI)	**32**	**mg/kg**	**32**	**0.3**	**YES**	**6.2**	**YES**	**2.8**	**YES**
Cobalt	9.7	mg/kg	9.7	23	No	350	No	28	No
Copper	38	mg/kg	38	3,100	No	47,000	No	14,000	No
Lead	34	mg/kg	34	80	No	320	No	160	No
Nickel	28	mg/kg	28	820	No	11,000	No	86	No
Vanadium	42	mg/kg	42	390	No	5,800	No	470	No
Zinc	110	mg/kg	110	23,000	No	350,000	No	110,000	No
Mercury	0.1	mg/kg	0.1	13	No	190	No	44	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-07, Depth: 0-6", Location: North Side, Central						
Analyte	**TTLC Lab Result**	**Units**	**Conversion to mg/kg**	**TTLC Cal/Haz Level (mg/kg)**	**Exceed the Cal/Haz Level?**	**Need STLC?**
4,4'-DDE	2.9	ug/kg	0.0029	1	No	NA
Arsenic	6.7	mg/kg	6.7	500	No	No
Barium	130	mg/kg	130	10,000	No	No
Chromium	32	mg/kg	32	2,500	No	No
Cobalt	9.7	mg/kg	9.7	8,000	No	No
Copper	38	mg/kg	38	2,500	No	No
Lead	34	mg/kg	34	1,000	No	No
Nickel	28	mg/kg	28	2,000	No	No
Vanadium	42	mg/kg	42	2,400	No	No
Zinc	110	mg/kg	110	5,000	No	No
Mercury	0.1	mg/kg	0.1	20	No	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-08, Depth: 0-6", Location: Main Building, Drip Line									
Analyte	**Lab Result**	**Units**	**Conversion to mg/kg**	**ESL for Shallow Soils Residential (mg/kg)**	**Exceed the Residential ESL?**	**ESL for Shallow Soils Commercial/Industrial (mg/kg)**	**Exceed the Commercial ESL?**	**ESL for Any Land Use, Construction Worker Shallow and Deep Soil Exposure (mg/kg)**	**Exceed the Construction ESL?**
Diesel Range Organics [C10-C28]	140	mg/kg	140	230	No	1,100	No	880	No
Motor Oil Range Organics [C24-C36]	430	mg/kg	430	11,000	No	140,000	No	32,000	No
Dieldrin	9.4	ug/kg	0.0094	0.038	No	0.17	No	1.1	No
4,4'-DDT	12	ug/kg	0.012	1.9	No	8.5	No	57	No
4,4'-DDE	18	ug/kg	0.018	1.9	No	8.5	No	57	No
4,4'-DDD	13	ug/kg	0.013	2.7	No	12	No	81	No
Chlordane	**577**	**ug/kg**	**0.577**	**0.48**	**YES**	**2.2**	**No**	**14**	**No**
Arsenic	**11**	**mg/kg**	**11**	**0.067**	**YES**	**0.31**	**YES**	**0.98**	**YES**
Barium	180	mg/kg	180	15,000	No	220,000	No	3,000	No
Beryllium	0.33	mg/kg	0.33	150	No	2,200	No	42	No
Cadmium	0.72	mg/kg	0.72	39	No	580	No	43	No
Chromium (Based on VI)	**41**	**mg/kg**	**41**	**0.3**	**YES**	**6.2**	**YES**	**2.8**	**YES**
Cobalt	11	mg/kg	11	23	No	350	No	28	No
Copper	49	mg/kg	49	3,100	No	47,000	No	14,000	No
Lead	40	mg/kg	40	80	No	320	No	160	No
Nickel	34	mg/kg	34	820	No	11,000	No	86	No
Vanadium	48	mg/kg	48	390	No	5,800	No	470	No
Zinc	1000	mg/kg	1000	23,000	No	350,000	No	110,000	No
Mercury	0.33	mg/kg	0.33	13	No	190	No	44	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-08, Depth: 0-6", Location: Main Building, Drip Line						
Analyte	**TTLC Lab Result**	**Units**	**Conversion to mg/kg**	**TTLC Cal/Haz Level (mg/kg)**	**Exceed the Cal/Haz Level?**	**Need STLC?**
Dieldrin	9.4	ug/kg	0.0094	8	No	NA
4,4'-DDT	12	ug/kg	0.012	1	No	NA
4,4'-DDE	18	ug/kg	0.018	1	No	NA
4,4'-DDD	13	ug/kg	0.013	1	No	NA
Chlordane	577	ug/kg	0.577	2.5	No	NA
Arsenic	11	mg/kg	11	500	No	No
Barium	180	mg/kg	180	10,000	No	No
Beryllium	0.33	mg/kg	0.33	75	No	No
Cadmium	0.72	mg/kg	0.72	100	No	No
Chromium	41	mg/kg	41	2,500	No	No
Cobalt	11	mg/kg	11	8,000	No	No
Copper	49	mg/kg	49	2,500	No	No
Lead	40	mg/kg	40	1,000	No	No
Nickel	34	mg/kg	34	2,000	No	No
Vanadium	48	mg/kg	48	2,400	No	No
Zinc	1000	mg/kg	1000	5,000	No	No
Mercury	0.33	mg/kg	0.33	20	No	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-09, Depth: 0-6", Location: Classroom Wing 9 to 15, Drip Line									
Analyte	**Lab Result**	**Units**	**Conversion to mg/kg**	**ESL for Shallow Soils Residential (mg/kg)**	**Exceed the Residential ESL?**	**ESL for Shallow Soils Commercial/Industrial (mg/kg)**	**Exceed the Commercial ESL?**	**ESL for Any Land Use, Construction Worker Shallow and Deep Soil Exposure (mg/kg)**	**Exceed the Construction ESL?**
Diesel Range Organics [C10-C28]	**260**	**mg/kg**	**260**	**230**	**YES**	**1,100**	**No**	**880**	**No**
Motor Oil Range Organics [C24-C36]	810	mg/kg	810	11,000	No	140,000	No	32,000	No
4,4'-DDT	140	ug/kg	0.14	1.9	No	8.5	No	57	No
4,4'-DDE	35	ug/kg	0.035	1.9	No	8.5	No	57	No
Endosulfan	180	ug/kg	0.18	420	No	5,800	No	1,500	No
Chlordane	**2660**	**ug/kg**	**2.66**	**0.48**	**YES**	**2.2**	**YES**	**14**	**No**
Arsenic	**14**	**mg/kg**	**14**	**0.067**	**YES**	**0.31**	**YES**	**0.98**	**YES**
Barium	210	mg/kg	210	15,000	No	220,000	No	3,000	No
Beryllium	0.32	mg/kg	0.32	150	No	2,200	No	42	No
Cadmium	0.46	mg/kg	0.46	39	No	580	No	43	No
Chromium (Based on VI)	**46**	**mg/kg**	**46**	**0.3**	**YES**	**6.2**	**YES**	**2.8**	**YES**
Cobalt	12	mg/kg	12	23	No	350	No	28	No
Copper	54	mg/kg	54	3,100	No	47,000	No	14,000	No
Lead	56	mg/kg	56	80	No	320	No	160	No
Nickel	50	mg/kg	50	820	No	11,000	No	86	No
Vanadium	51	mg/kg	51	390	No	5,800	No	470	No
Zinc	240	mg/kg	240	23,000	No	350,000	No	110,000	No
Mercury	0.22	mg/kg	0.22	13	No	190	No	44	No

HARDER ELEMENTARY SCHOOL
495 WYETH RD., HAYWARD, CA
SOIL SAMPLING SUMMARY

Sample: Soil-09, Depth: 0-6", Location: Classroom Wing 9 to 15, Drip Line						
Analyte	**TTLC Lab Result**	**Units**	**Conversion to mg/kg**	**TTLC Cal/Haz Level (mg/kg)**	**Exceed the Cal/Haz Level?**	**Need STLC?**
4,4'-DDT	140	ug/kg	0.14	1	No	NA
4,4'-DDE	35	ug/kg	0.035	1	No	NA
Chlordane	**2660**	**ug/kg**	**2.66**	**2.5**	**YES**	**NA**
Arsenic	14	mg/kg	14	500	No	No
Barium	210	mg/kg	210	10,000	No	No
Beryllium	0.32	mg/kg	0.32	75	No	No
Cadmium	0.46	mg/kg	0.46	100	No	No
Chromium	46	mg/kg	46	2,500	No	No
Cobalt	12	mg/kg	12	8,000	No	No
Copper	54	mg/kg	54	2,500	No	No
Lead	**56**	**mg/kg**	**56**	**1,000**	**No**	**YES**
Nickel	50	mg/kg	50	2,000	No	No
Vanadium	51	mg/kg	51	2,400	No	No
Zinc	240	mg/kg	240	5,000	No	No
Mercury	0.22	mg/kg	0.22	20	No	No

VISTA ENVIRONMENTAL CONSULTING

Discrete Sample Location

Composite Sample Location

VISTA ENVIRONMENTAL CONSULTING
www.vista-env.com
2984 TEAGARDEN STREET
SAN LEANDRO, CA 94577
510-346-8860

PROJECT TITLE

Hayward Unified School District
Harder Elementary School

SHEET TITLE

Soil Sampling Location Drawing

SCALE: NA
DRAWN BY: CB
CHECKED BY: CB
PROJECT No. 160041001
DATE: 11/07/16
DRAWING No. 1

FIGURE

1

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pleasanton
1220 Quarry Lane
Pleasanton, CA 94566
Tel: (925)484-1919

TestAmerica Job ID: 720-74013-1
Client Project/Site: HUSD/Harder ES

For:
Vista Environmental Consulting, Inc
2984 Teagarden Street
San Leandro, California 94577

Attn: Chris Burns

Authorized for release by:
8/29/2016 5:01:12 PM

Dimple Sharma, Senior Project Manager
(925)484-1919
dimple.sharma@testamericainc.com

LINKS

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www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	ISTD response or retention time outside acceptable limits

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 720-74013-1

Laboratory: TestAmerica Pleasanton

Narrative

Job Narrative
720-74013-1

Comments
No additional comments.

Receipt
The samples were received on 8/18/2016 4:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 15.9º C.

GC/MS VOA
Method 8260B: The continuing calibration verification (CCV) associated with batch 720-208283 recovered above the upper control limit for 2-Butanone (MEK), 2-Hexanone and 4-Methyl-2-pentanone (MIBK). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SITE-SOIL06 (720-74013-6), SITE-SOIL07 (720-74013-7), SITE-SOIL08 (720-74013-8) and SITE-SOIL09 (720-74013-9).

Method 8260B: Internal standard (ISTD) response for the following samples were outside control limits: SITE-SOIL01 (720-74013-1), SITE-SOIL02 (720-74013-2), SITE-SOIL03 (720-74013-3), SITE-SOIL04 (720-74013-4) and SITE-SOIL05 (720-74013-5). The samples re-analyzed with concurring results, and the original sets of data has been reported.

Method 8260B: Internal standard (ISTD) response for the following samples were outside control limits: SITE-SOIL06 (720-74013-6), SITE-SOIL08 (720-74013-8) and SITE-SOIL09 (720-74013-9). The samples were re-analyzed with concurring results, and the original sets of data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method 8270C: The following samples was diluted due to the abundance of non-target analytes: SITE-SOIL01 (720-74013-1), SITE-SOIL02 (720-74013-2), SITE-SOIL03 (720-74013-3), SITE-SOIL04 (720-74013-4), SITE-SOIL05 (720-74013-5), SITE-SOIL06 (720-74013-6), SITE-SOIL07 (720-74013-7), SITE-SOIL08 (720-74013-8) and SITE-SOIL09 (720-74013-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method 8015B: The following samples required a dilution due to the nature of the sample matrix: SITE-SOIL06 (720-74013-6), SITE-SOIL08 (720-74013-8) and SITE-SOIL09 (720-74013-9). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8081A: The following samples has clear evidence of the presence of chlordane based on the presence of alpha and gamma chlordane; however, the chlordane peaks in the sample do not closely match the laboratory's Technical Chlordane standard: SITE-SOIL09 (720-74013-9). As a result, there is increased quantitative uncertainty associated with this result.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE & alpha-Chlordane for the following samples: SITE-SOIL09 (720-74013-9). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The following samples has clear evidence of the presence of chlordane based on the presence of alpha and gamma chlordane; however, the chlordane peaks in the sample do not closely match the laboratory's Technical Chlordane standard: SITE-SOIL08 (720-74013-8). As a result, there is increased quantitative uncertainty associated with this result.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDD for the following samples: SITE-SOIL01 (720-74013-1). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDD, Heptachlor epoxide,

Job ID: 720-74013-1 (Continued)

Laboratory: TestAmerica Pleasanton (Continued)

alpha-Chlordane & gamma-Chlordane for the following samples: SITE-SOIL02 (720-74013-2). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDT for the following samples: SITE-SOIL03 (720-74013-3). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDD & alpha-Chlordane for the following samples: SITE-SOIL05 (720-74013-5). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for alpha-Chlordane for the following samples: SITE-SOIL06 (720-74013-6). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for 4,4'-DDE for the following samples: SITE-SOIL07 (720-74013-7). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8081A: The %RPD between the primary and confirmation column exceeded 40% for alpha-Chlordane for the following samples: SITE-SOIL08 (720-74013-8). The lower value has been reported and qualified in accordance with the laboratory's SOP.

Method 8082: The following samples required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: SITE-SOIL01 (720-74013-1), SITE-SOIL02 (720-74013-2), SITE-SOIL03 (720-74013-3), SITE-SOIL04 (720-74013-4), SITE-SOIL05 (720-74013-5), SITE-SOIL06 (720-74013-6), SITE-SOIL07 (720-74013-7), SITE-SOIL08 (720-74013-8), SITE-SOIL09 (720-74013-9), (LCS 720-208239/2-A) and (MB 720-208239/1-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 6010B: The serial dilution performed for the following sample associated with batch 720-208144 was outside control limits: (720-74013-A-1-D SD)

Method 6010B: The following samples was diluted due to the abundance of non-target analytes: SITE-SOIL01 (720-74013-1), SITE-SOIL02 (720-74013-2), SITE-SOIL03 (720-74013-3), SITE-SOIL04 (720-74013-4), SITE-SOIL05 (720-74013-5), SITE-SOIL06 (720-74013-6), SITE-SOIL08 (720-74013-8) and SITE-SOIL09 (720-74013-9). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL01 — Lab Sample ID: 720-74013-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	66		2.0		mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	240		99		mg/Kg	2		8015B	Total/NA
4,4'-DDE	5.0		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	2.0	p	2.0		ug/Kg	1		8081A	Total/NA
Arsenic	7.5		2.4		mg/Kg	4		6010B	Total/NA
Barium	160		1.2		mg/Kg	4		6010B	Total/NA
Beryllium	0.35		0.24		mg/Kg	4		6010B	Total/NA
Cadmium	0.53		0.30		mg/Kg	4		6010B	Total/NA
Chromium	40		1.2		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.48		mg/Kg	4		6010B	Total/NA
Copper	54		3.6		mg/Kg	4		6010B	Total/NA
Lead	37		1.2		mg/Kg	4		6010B	Total/NA
Nickel	33		1.2		mg/Kg	4		6010B	Total/NA
Silver	1.7		0.61		mg/Kg	4		6010B	Total/NA
Vanadium	57		1.2		mg/Kg	4		6010B	Total/NA
Zinc	110		3.6		mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.0091		mg/Kg	1		7471A	Total/NA

Client Sample ID: SITE-SOIL02 — Lab Sample ID: 720-74013-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	59		2.0		mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	240		99		mg/Kg	2		8015B	Total/NA
Dieldrin	88		2.0		ug/Kg	1		8081A	Total/NA
Heptachlor epoxide	8.7	p	2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	19		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	59		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	7.1	p	2.0		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	650		40		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	140	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	81	p	2.0		ug/Kg	1		8081A	Total/NA
Arsenic	10		2.8		mg/Kg	4		6010B	Total/NA
Barium	160		1.4		mg/Kg	4		6010B	Total/NA
Beryllium	0.36		0.28		mg/Kg	4		6010B	Total/NA
Cadmium	0.47		0.35		mg/Kg	4		6010B	Total/NA
Chromium	42		1.4		mg/Kg	4		6010B	Total/NA
Cobalt	14		0.57		mg/Kg	4		6010B	Total/NA
Copper	52		4.3		mg/Kg	4		6010B	Total/NA
Lead	36		1.4		mg/Kg	4		6010B	Total/NA
Nickel	37		1.4		mg/Kg	4		6010B	Total/NA
Silver	1.1		0.71		mg/Kg	4		6010B	Total/NA
Vanadium	67		1.4		mg/Kg	4		6010B	Total/NA
Zinc	110		4.3		mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.0094		mg/Kg	1		7471A	Total/NA

Client Sample ID: SITE-SOIL03 — Lab Sample ID: 720-74013-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	73		2.0		mg/Kg	2		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	210		100		mg/Kg	2		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SITE-SOIL03 (Continued) — Lab Sample ID: 720-74013-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDT	2.5	p	2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	19		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	9.4		3.7		mg/Kg	4		6010B	Total/NA
Barium	220		1.9		mg/Kg	4		6010B	Total/NA
Beryllium	0.45		0.37		mg/Kg	4		6010B	Total/NA
Cadmium	0.51		0.46		mg/Kg	4		6010B	Total/NA
Chromium	50		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	15		0.74		mg/Kg	4		6010B	Total/NA
Copper	65		5.6		mg/Kg	4		6010B	Total/NA
Lead	46		1.9		mg/Kg	4		6010B	Total/NA
Nickel	46		1.9		mg/Kg	4		6010B	Total/NA
Silver	1.8		0.93		mg/Kg	4		6010B	Total/NA
Vanadium	76		1.9		mg/Kg	4		6010B	Total/NA
Zinc	120		5.6		mg/Kg	4		6010B	Total/NA
Mercury	0.20		0.0086		mg/Kg	1		7471A	Total/NA

Client Sample ID: SITE-SOIL04 — Lab Sample ID: 720-74013-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	160		3.0		mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	240		150		mg/Kg	3		8015B	Total/NA
4,4'-DDE	4.0		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	8.5		2.5		mg/Kg	4		6010B	Total/NA
Barium	180		1.2		mg/Kg	4		6010B	Total/NA
Beryllium	0.46		0.25		mg/Kg	4		6010B	Total/NA
Chromium	51		1.2		mg/Kg	4		6010B	Total/NA
Cobalt	15		0.50		mg/Kg	4		6010B	Total/NA
Copper	51		3.7		mg/Kg	4		6010B	Total/NA
Lead	29		1.2		mg/Kg	4		6010B	Total/NA
Nickel	45		1.2		mg/Kg	4		6010B	Total/NA
Vanadium	67		1.2		mg/Kg	4		6010B	Total/NA
Zinc	93		3.7		mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.0095		mg/Kg	1		7471A	Total/NA

Client Sample ID: SITE-SOIL05 — Lab Sample ID: 720-74013-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	62		3.0		mg/Kg	3		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	260		150		mg/Kg	3		8015B	Total/NA
4,4'-DDD	2.3	p	2.0		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	80		40		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	4.5	p	2.0		ug/Kg	1		8081A	Total/NA
Arsenic	6.8		3.4		mg/Kg	4		6010B	Total/NA
Barium	150		1.7		mg/Kg	4		6010B	Total/NA
Chromium	39		1.7		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.68		mg/Kg	4		6010B	Total/NA
Copper	50		5.1		mg/Kg	4		6010B	Total/NA
Lead	26		1.7		mg/Kg	4		6010B	Total/NA
Nickel	35		1.7		mg/Kg	4		6010B	Total/NA
Silver	1.2		0.85		mg/Kg	4		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SITE-SOIL05 (Continued) — Lab Sample ID: 720-74013-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	60		1.7		mg/Kg	4		6010B	Total/NA
Zinc	88		5.1		mg/Kg	4		6010B	Total/NA
Mercury	0.25		0.0083		mg/Kg	1		7471A	Total/NA

Client Sample ID: SITE-SOIL06 — Lab Sample ID: 720-74013-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	360		49		ug/Kg	1		8260B	Total/NA
4-Isopropyltoluene	6.2	*	4.9		ug/Kg	1		8260B	Total/NA
Diesel Range Organics [C10-C28]	250		5.0		mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	500		250		mg/Kg	5		8015B	Total/NA
4,4'-DDT	9.1		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	29		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	12		2.0		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	2.8	p	2.0		ug/Kg	1		8081A	Total/NA
Arsenic	17		3.7		mg/Kg	4		6010B	Total/NA
Barium	200		1.8		mg/Kg	4		6010B	Total/NA
Beryllium	0.40		0.37		mg/Kg	4		6010B	Total/NA
Cadmium	0.46		0.46		mg/Kg	4		6010B	Total/NA
Chromium	41		1.8		mg/Kg	4		6010B	Total/NA
Cobalt	16		0.73		mg/Kg	4		6010B	Total/NA
Copper	50		5.5		mg/Kg	4		6010B	Total/NA
Lead	61		1.8		mg/Kg	4		6010B	Total/NA
Nickel	36		1.8		mg/Kg	4		6010B	Total/NA
Vanadium	64		1.8		mg/Kg	4		6010B	Total/NA
Zinc	260		5.5		mg/Kg	4		6010B	Total/NA
Mercury	0.11		0.0094		mg/Kg	1		7471A	Total/NA

Client Sample ID: SITE-SOIL07 — Lab Sample ID: 720-74013-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	58		0.99		mg/Kg	1		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	160		50		mg/Kg	1		8015B	Total/NA
4,4'-DDE	2.9	p	1.9		ug/Kg	1		8081A	Total/NA
Arsenic	6.7		3.7		mg/Kg	4		6010B	Total/NA
Barium	130		1.9		mg/Kg	4		6010B	Total/NA
Chromium	32		1.9		mg/Kg	4		6010B	Total/NA
Cobalt	9.7		0.74		mg/Kg	4		6010B	Total/NA
Copper	38		5.6		mg/Kg	4		6010B	Total/NA
Lead	34		1.9		mg/Kg	4		6010B	Total/NA
Nickel	28		1.9		mg/Kg	4		6010B	Total/NA
Vanadium	42		1.9		mg/Kg	4		6010B	Total/NA
Zinc	110		5.6		mg/Kg	4		6010B	Total/NA
Mercury	0.10		0.010		mg/Kg	1		7471A	Total/NA

Client Sample ID: SITE-SOIL08 — Lab Sample ID: 720-74013-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	140		4.9		mg/Kg	5		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	430		250		mg/Kg	5		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SITE-SOIL08 (Continued) — Lab Sample ID: 720-74013-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dieldrin	9.4		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDT	12		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDE	18		2.0		ug/Kg	1		8081A	Total/NA
4,4'-DDD	13		2.0		ug/Kg	1		8081A	Total/NA
Chlordane (technical)	420		40		ug/Kg	1		8081A	Total/NA
alpha-Chlordane	71	p	2.0		ug/Kg	1		8081A	Total/NA
gamma-Chlordane	86		2.0		ug/Kg	1		8081A	Total/NA
Arsenic	11		2.7		mg/Kg	4		6010B	Total/NA
Barium	180		1.3		mg/Kg	4		6010B	Total/NA
Beryllium	0.33		0.27		mg/Kg	4		6010B	Total/NA
Cadmium	0.72		0.33		mg/Kg	4		6010B	Total/NA
Chromium	41		1.3		mg/Kg	4		6010B	Total/NA
Cobalt	11		0.53		mg/Kg	4		6010B	Total/NA
Copper	49		4.0		mg/Kg	4		6010B	Total/NA
Lead	40		1.3		mg/Kg	4		6010B	Total/NA
Nickel	34		1.3		mg/Kg	4		6010B	Total/NA
Vanadium	48		1.3		mg/Kg	4		6010B	Total/NA
Zinc	1000		4.0		mg/Kg	4		6010B	Total/NA
Mercury	0.33		0.0085		mg/Kg	1		7471A	Total/NA

Client Sample ID: SITE-SOIL09 — Lab Sample ID: 720-74013-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Diesel Range Organics [C10-C28]	260		9.9		mg/Kg	10		8015B	Total/NA
Motor Oil Range Organics [C24-C36]	810		500		mg/Kg	10		8015B	Total/NA
4,4'-DDT	140		9.8		ug/Kg	5		8081A	Total/NA
4,4'-DDE	35	p	9.8		ug/Kg	5		8081A	Total/NA
Endosulfan II	180		9.8		ug/Kg	5		8081A	Total/NA
Chlordane (technical)	2000		200		ug/Kg	5		8081A	Total/NA
alpha-Chlordane	260	p	9.8		ug/Kg	5		8081A	Total/NA
gamma-Chlordane	400		9.8		ug/Kg	5		8081A	Total/NA
Arsenic	14		3.2		mg/Kg	4		6010B	Total/NA
Barium	210		1.6		mg/Kg	4		6010B	Total/NA
Beryllium	0.32		0.32		mg/Kg	4		6010B	Total/NA
Cadmium	0.46		0.40		mg/Kg	4		6010B	Total/NA
Chromium	46		1.6		mg/Kg	4		6010B	Total/NA
Cobalt	12		0.64		mg/Kg	4		6010B	Total/NA
Copper	54		4.8		mg/Kg	4		6010B	Total/NA
Lead	56		1.6		mg/Kg	4		6010B	Total/NA
Nickel	50		1.6		mg/Kg	4		6010B	Total/NA
Vanadium	51		1.6		mg/Kg	4		6010B	Total/NA
Zinc	240		4.8		mg/Kg	4		6010B	Total/NA
Mercury	0.22		0.0091		mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL01

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Acetone	ND		49		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Benzene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Dichlorobromomethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Bromobenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Chlorobromomethane	ND		20		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Bromoform	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Bromomethane	ND		9.8		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
2-Butanone (MEK)	ND		49		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
n-Butylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
sec-Butylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
tert-Butylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Carbon disulfide	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Carbon tetrachloride	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Chlorobenzene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Chloroethane	ND		9.8		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Chloroform	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Chloromethane	ND		9.8		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
2-Chlorotoluene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
4-Chlorotoluene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Chlorodibromomethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,2-Dichlorobenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,3-Dichlorobenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,4-Dichlorobenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,3-Dichloropropane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,1-Dichloropropene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,2-Dibromo-3-Chloropropane	ND	*	9.8		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Ethylene Dibromide	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Dibromomethane	ND		9.8		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Dichlorodifluoromethane	ND		9.8		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,1-Dichloroethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,2-Dichloroethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,1-Dichloroethene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,2-Dichloropropane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Ethylbenzene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Hexachlorobutadiene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
2-Hexanone	ND		49		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Isopropylbenzene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
4-Isopropyltoluene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Methylene Chloride	ND		9.8		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Naphthalene	ND	*	9.8		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
N-Propylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Styrene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,1,1,2-Tetrachloroethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1

Client Sample ID: SITE-SOIL01

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Tetrachloroethene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Toluene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,2,3-Trichlorobenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,2,4-Trichlorobenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Trichloroethene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Trichlorofluoromethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,2,3-Trichloropropane	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,2,4-Trimethylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
1,3,5-Trimethylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Vinyl acetate	ND		20		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Vinyl chloride	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Xylenes, Total	ND		9.8		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
2,2-Dichloropropane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 02:13	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/19/16 19:53	08/26/16 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*80*		*45 - 131*	*08/19/16 19:53*	*08/26/16 02:13*	*1*
4-Bromofluorobenzene	*74*		*45 - 131*	*08/27/16 10:43*	*08/27/16 12:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*	*08/19/16 19:53*	*08/26/16 02:13*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 140*	*08/27/16 10:43*	*08/27/16 12:23*	*1*
Toluene-d8 (Surr)	*91*		*58 - 140*	*08/19/16 19:53*	*08/26/16 02:13*	*1*
Toluene-d8 (Surr)	*89*		*58 - 140*	*08/27/16 10:43*	*08/27/16 12:23*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Bis(2-chloroethyl)ether	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2-Chlorophenol	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
1,3-Dichlorobenzene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
1,4-Dichlorobenzene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Benzyl alcohol	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
1,2-Dichlorobenzene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2-Methylphenol	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Methylphenol, 3 & 4	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
N-Nitrosodi-n-propylamine	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Hexachloroethane	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Nitrobenzene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Isophorone	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2-Nitrophenol	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2,4-Dimethylphenol	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Bis(2-chloroethoxy)methane	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2,4-Dichlorophenol	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
1,2,4-Trichlorobenzene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Naphthalene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
4-Chloroaniline	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL01

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-1

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
4-Chloro-3-methylphenol	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2-Methylnaphthalene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Hexachlorocyclopentadiene	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2,4,6-Trichlorophenol	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2,4,5-Trichlorophenol	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2-Chloronaphthalene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2-Nitroaniline	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Dimethyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Acenaphthylene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
3-Nitroaniline	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Acenaphthene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2,4-Dinitrophenol	ND		6.5		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
4-Nitrophenol	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Dibenzofuran	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2,4-Dinitrotoluene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2,6-Dinitrotoluene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Diethyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
4-Chlorophenyl phenyl ether	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Fluorene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
4-Nitroaniline	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
2-Methyl-4,6-dinitrophenol	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
N-Nitrosodiphenylamine	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
4-Bromophenyl phenyl ether	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Hexachlorobenzene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Pentachlorophenol	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Phenanthrene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Anthracene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Di-n-butyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Fluoranthene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Pyrene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Butyl benzyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
3,3'-Dichlorobenzidine	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Benzo[a]anthracene	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Bis(2-ethylhexyl) phthalate	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Chrysene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Di-n-octyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Benzo[b]fluoranthene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Benzo[a]pyrene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Benzo[k]fluoranthene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Indeno[1,2,3-cd]pyrene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Benzo[g,h,i]perylene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Benzoic acid	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Azobenzene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2
Dibenz(a,h)anthracene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 03:39	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*55*		*21 - 98*	*08/25/16 11:41*	*08/26/16 03:39*	*2*
2-Fluorobiphenyl	*70*		*30 - 112*	*08/25/16 11:41*	*08/26/16 03:39*	*2*
Terphenyl-d14	*76*		*59 - 134*	*08/25/16 11:41*	*08/26/16 03:39*	*2*

Client Sample ID: SITE-SOIL01

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-1

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*72*		*28 - 98*	*08/25/16 11:41*	*08/26/16 03:39*	*2*
Phenol-d5	*62*		*23 - 101*	*08/25/16 11:41*	*08/26/16 03:39*	*2*
2,4,6-Tribromophenol	*90*		*37 - 114*	*08/25/16 11:41*	*08/26/16 03:39*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**66**		2.0		mg/Kg		08/24/16 14:49	08/25/16 18:02	2
Motor Oil Range Organics [C24-C36]	**240**		99		mg/Kg		08/24/16 14:49	08/25/16 18:02	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*71*		*40 - 130*	*08/24/16 14:49*	*08/25/16 18:02*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
Dieldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
Endrin aldehyde	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
Endrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
Endrin ketone	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
Heptachlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
4,4'-DDT	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
4,4'-DDE	**5.0**		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
4,4'-DDD	**2.0**	**p**	2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
Endosulfan I	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
Endosulfan II	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
alpha-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
beta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
delta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
Methoxychlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
Toxaphene	ND		39		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
Chlordane (technical)	ND		39		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
alpha-Chlordane	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1
gamma-Chlordane	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 02:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*57 - 122*	*08/25/16 10:16*	*08/27/16 02:44*	*1*
DCB Decachlorobiphenyl	*104*		*21 - 136*	*08/25/16 10:16*	*08/27/16 02:44*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:10	1
PCB-1221	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:10	1
PCB-1232	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:10	1
PCB-1242	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:10	1
PCB-1248	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:10	1
PCB-1254	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:10	1

Client Sample ID: SITE-SOIL01

Lab Sample ID: 720-74013-1

Date Collected: 08/18/16 10:00

Matrix: Solid

Date Received: 08/18/16 16:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*45 - 132*	*08/25/16 09:51*	*08/26/16 01:10*	*1*
DCB Decachlorobiphenyl	*72*		*42 - 146*	*08/25/16 09:51*	*08/26/16 01:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND	F1	1.2		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Arsenic	**7.5**		2.4		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Barium	**160**		1.2		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Beryllium	**0.35**		0.24		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Cadmium	**0.53**		0.30		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Chromium	**40**		1.2		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Cobalt	**12**		0.48		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Copper	**54**		3.6		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Lead	**37**		1.2		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Molybdenum	ND		1.2		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Nickel	**33**		1.2		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Selenium	ND		2.4		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Silver	**1.7**		0.61		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Thallium	ND		1.2		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Vanadium	**57**		1.2		mg/Kg		08/22/16 13:12	08/23/16 19:48	4
Zinc	**110**		3.6		mg/Kg		08/22/16 13:12	08/23/16 19:48	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**		0.0091		mg/Kg		08/22/16 15:08	08/23/16 15:27	1

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL02

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Acetone	ND		48		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Benzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Bromobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Chlorobromomethane	ND		19		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Bromoform	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Bromomethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
2-Butanone (MEK)	ND		48		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
n-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
sec-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
tert-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Carbon disulfide	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Chlorobenzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Chloroethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Chloroform	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Chloromethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
2-Chlorotoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
4-Chlorotoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,2-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,3-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,4-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,2-Dibromo-3-Chloropropane	ND	*	9.7		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Dibromomethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Ethylbenzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Hexachlorobutadiene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
2-Hexanone	ND		48		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Isopropylbenzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
4-Isopropyltoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Methylene Chloride	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Naphthalene	ND	*	9.7		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
N-Propylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Styrene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1

Client Sample ID: SITE-SOIL02

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Tetrachloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Toluene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,2,3-Trichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,2,4-Trichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Trichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,2,3-Trichloropropane	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,2,4-Trimethylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
1,3,5-Trimethylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Vinyl acetate	ND		19		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Vinyl chloride	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Xylenes, Total	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:42	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/19/16 19:53	08/26/16 02:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*71*		*45 - 131*	*08/19/16 19:53*	*08/26/16 02:42*	*1*
4-Bromofluorobenzene	*70*	*	*45 - 131*	*08/27/16 10:43*	*08/27/16 12:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*60 - 140*	*08/19/16 19:53*	*08/26/16 02:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*121*		*60 - 140*	*08/27/16 10:43*	*08/27/16 12:53*	*1*
Toluene-d8 (Surr)	*88*		*58 - 140*	*08/19/16 19:53*	*08/26/16 02:42*	*1*
Toluene-d8 (Surr)	*85*		*58 - 140*	*08/27/16 10:43*	*08/27/16 12:53*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Bis(2-chloroethyl)ether	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2-Chlorophenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
1,3-Dichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
1,4-Dichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Benzyl alcohol	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
1,2-Dichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2-Methylphenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Methylphenol, 3 & 4	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
N-Nitrosodi-n-propylamine	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Hexachloroethane	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Nitrobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Isophorone	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2-Nitrophenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2,4-Dimethylphenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Bis(2-chloroethoxy)methane	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2,4-Dichlorophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
1,2,4-Trichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Naphthalene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
4-Chloroaniline	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2

Client Sample ID: SITE-SOIL02

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-2

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
4-Chloro-3-methylphenol	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2-Methylnaphthalene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Hexachlorocyclopentadiene	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2,4,6-Trichlorophenol	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2,4,5-Trichlorophenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2-Chloronaphthalene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2-Nitroaniline	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Dimethyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Acenaphthylene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
3-Nitroaniline	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Acenaphthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2,4-Dinitrophenol	ND		2.6		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
4-Nitrophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Dibenzofuran	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2,4-Dinitrotoluene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2,6-Dinitrotoluene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Diethyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
4-Chlorophenyl phenyl ether	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Fluorene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
4-Nitroaniline	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
2-Methyl-4,6-dinitrophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
N-Nitrosodiphenylamine	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
4-Bromophenyl phenyl ether	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Hexachlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Pentachlorophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Phenanthrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Anthracene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Di-n-butyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Fluoranthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Pyrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Butyl benzyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
3,3'-Dichlorobenzidine	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Benzo[a]anthracene	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Bis(2-ethylhexyl) phthalate	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Chrysene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Di-n-octyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Benzo[b]fluoranthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Benzo[a]pyrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Benzo[k]fluoranthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Indeno[1,2,3-cd]pyrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Benzo[g,h,i]perylene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Benzoic acid	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Azobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2
Dibenz(a,h)anthracene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:05	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*61*		*21 - 98*	*08/25/16 11:41*	*08/26/16 04:05*	*2*
2-Fluorobiphenyl	*74*		*30 - 112*	*08/25/16 11:41*	*08/26/16 04:05*	*2*
Terphenyl-d14	*81*		*59 - 134*	*08/25/16 11:41*	*08/26/16 04:05*	*2*

Client Sample ID: SITE-SOIL02

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-2

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	69		28 - 98	08/25/16 11:41	08/26/16 04:05	2
Phenol-d5	62		23 - 101	08/25/16 11:41	08/26/16 04:05	2
2,4,6-Tribromophenol	84		37 - 114	08/25/16 11:41	08/26/16 04:05	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**59**		2.0		mg/Kg		08/24/16 14:49	08/25/16 18:31	2
Motor Oil Range Organics [C24-C36]	**240**		99		mg/Kg		08/24/16 14:49	08/25/16 18:31	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	74		40 - 130	08/24/16 14:49	08/25/16 18:31	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
Dieldrin	**88**		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
Endrin aldehyde	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
Endrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
Endrin ketone	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
Heptachlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
Heptachlor epoxide	**8.7**	**p**	2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
4,4'-DDT	**19**		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
4,4'-DDE	**59**		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
4,4'-DDD	**7.1**	**p**	2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
Endosulfan I	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
Endosulfan II	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
alpha-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
beta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
delta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
Methoxychlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
Toxaphene	ND		40		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
Chlordane (technical)	**650**		40		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
alpha-Chlordane	**140**	**p**	2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1
gamma-Chlordane	**81**	**p**	2.0		ug/Kg		08/25/16 10:16	08/27/16 03:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	64		57 - 122	08/25/16 10:16	08/27/16 03:01	1
DCB Decachlorobiphenyl	103		21 - 136	08/25/16 10:16	08/27/16 03:01	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/25/16 09:51	08/26/16 01:27	1
PCB-1221	ND		50		ug/Kg		08/25/16 09:51	08/26/16 01:27	1
PCB-1232	ND		50		ug/Kg		08/25/16 09:51	08/26/16 01:27	1
PCB-1242	ND		50		ug/Kg		08/25/16 09:51	08/26/16 01:27	1
PCB-1248	ND		50		ug/Kg		08/25/16 09:51	08/26/16 01:27	1
PCB-1254	ND		50		ug/Kg		08/25/16 09:51	08/26/16 01:27	1

Client Sample ID: SITE-SOIL02

Lab Sample ID: 720-74013-2

Date Collected: 08/18/16 10:00

Matrix: Solid

Date Received: 08/18/16 16:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		50		ug/Kg		08/25/16 09:51	08/26/16 01:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*45 - 132*	*08/25/16 09:51*	*08/26/16 01:27*	*1*
DCB Decachlorobiphenyl	*77*		*42 - 146*	*08/25/16 09:51*	*08/26/16 01:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.4		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Arsenic	**10**		2.8		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Barium	**160**		1.4		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Beryllium	**0.36**		0.28		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Cadmium	**0.47**		0.35		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Chromium	**42**		1.4		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Cobalt	**14**		0.57		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Copper	**52**		4.3		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Lead	**36**		1.4		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Molybdenum	ND		1.4		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Nickel	**37**		1.4		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Selenium	ND		2.8		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Silver	**1.1**		0.71		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Thallium	ND		1.4		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Vanadium	**67**		1.4		mg/Kg		08/22/16 13:12	08/23/16 19:53	4
Zinc	**110**		4.3		mg/Kg		08/22/16 13:12	08/23/16 19:53	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**		0.0094		mg/Kg		08/22/16 15:08	08/23/16 15:30	1

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL03

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-3

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Acetone	ND		50		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Benzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Bromobenzene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Chlorobromomethane	ND		20		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Bromoform	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Bromomethane	ND		10		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
2-Butanone (MEK)	ND		50		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
n-Butylbenzene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
sec-Butylbenzene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
tert-Butylbenzene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Carbon disulfide	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Chlorobenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Chloroethane	ND		10		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Chloroform	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Chloromethane	ND		10		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
2-Chlorotoluene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
4-Chlorotoluene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,2-Dichlorobenzene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,3-Dichlorobenzene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,4-Dichlorobenzene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,2-Dibromo-3-Chloropropane	ND	*	10		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Dibromomethane	ND		10		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Dichlorodifluoromethane	ND		10		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Ethylbenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Hexachlorobutadiene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
2-Hexanone	ND		50		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Isopropylbenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
4-Isopropyltoluene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Methylene Chloride	ND		10		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Naphthalene	ND	*	10		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
N-Propylbenzene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Styrene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1

Client Sample ID: SITE-SOIL03

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Tetrachloroethene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Toluene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,2,3-Trichlorobenzene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,2,4-Trichlorobenzene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Trichloroethene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,2,3-Trichloropropane	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,2,4-Trimethylbenzene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
1,3,5-Trimethylbenzene	ND	*	5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Vinyl acetate	ND		20		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Vinyl chloride	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Xylenes, Total	ND		10		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 03:12	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/19/16 19:53	08/26/16 03:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*78*		*45 - 131*	*08/19/16 19:53*	*08/26/16 03:12*	*1*
4-Bromofluorobenzene	*71*	*	*45 - 131*	*08/27/16 10:43*	*08/27/16 13:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*118*		*60 - 140*	*08/19/16 19:53*	*08/26/16 03:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*137*		*60 - 140*	*08/27/16 10:43*	*08/27/16 13:22*	*1*
Toluene-d8 (Surr)	*89*		*58 - 140*	*08/19/16 19:53*	*08/26/16 03:12*	*1*
Toluene-d8 (Surr)	*84*		*58 - 140*	*08/27/16 10:43*	*08/27/16 13:22*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Bis(2-chloroethyl)ether	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2-Chlorophenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
1,3-Dichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
1,4-Dichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Benzyl alcohol	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
1,2-Dichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2-Methylphenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Methylphenol, 3 & 4	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
N-Nitrosodi-n-propylamine	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Hexachloroethane	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Nitrobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Isophorone	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2-Nitrophenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2,4-Dimethylphenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Bis(2-chloroethoxy)methane	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2,4-Dichlorophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
1,2,4-Trichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Naphthalene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
4-Chloroaniline	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2

Client Sample ID: SITE-SOIL03

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-3

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
4-Chloro-3-methylphenol	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2-Methylnaphthalene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Hexachlorocyclopentadiene	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2,4,6-Trichlorophenol	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2,4,5-Trichlorophenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2-Chloronaphthalene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2-Nitroaniline	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Dimethyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Acenaphthylene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
3-Nitroaniline	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Acenaphthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2,4-Dinitrophenol	ND		2.6		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
4-Nitrophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Dibenzofuran	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2,4-Dinitrotoluene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2,6-Dinitrotoluene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Diethyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
4-Chlorophenyl phenyl ether	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Fluorene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
4-Nitroaniline	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
2-Methyl-4,6-dinitrophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
N-Nitrosodiphenylamine	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
4-Bromophenyl phenyl ether	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Hexachlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Pentachlorophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Phenanthrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Anthracene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Di-n-butyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Fluoranthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Pyrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Butyl benzyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
3,3'-Dichlorobenzidine	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Benzo[a]anthracene	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Bis(2-ethylhexyl) phthalate	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Chrysene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Di-n-octyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Benzo[b]fluoranthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Benzo[a]pyrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Benzo[k]fluoranthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Indeno[1,2,3-cd]pyrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Benzo[g,h,i]perylene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Benzoic acid	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Azobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2
Dibenz(a,h)anthracene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:31	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*65*		*21 - 98*	*08/25/16 11:41*	*08/26/16 04:31*	*2*
2-Fluorobiphenyl	*78*		*30 - 112*	*08/25/16 11:41*	*08/26/16 04:31*	*2*
Terphenyl-d14	*82*		*59 - 134*	*08/25/16 11:41*	*08/26/16 04:31*	*2*

Client Sample ID: SITE-SOIL03

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-3

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	75		28 - 98	08/25/16 11:41	08/26/16 04:31	2
Phenol-d5	60		23 - 101	08/25/16 11:41	08/26/16 04:31	2
2,4,6-Tribromophenol	87		37 - 114	08/25/16 11:41	08/26/16 04:31	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**73**		2.0		mg/Kg		08/24/16 14:49	08/25/16 23:54	2
Motor Oil Range Organics [C24-C36]	**210**		100		mg/Kg		08/24/16 14:49	08/25/16 23:54	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	69		40 - 130	08/24/16 14:49	08/25/16 23:54	2

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
Dieldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
Endrin aldehyde	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
Endrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
Endrin ketone	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
Heptachlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
4,4'-DDT	**2.5**	**p**	2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
4,4'-DDE	**19**		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
4,4'-DDD	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
Endosulfan I	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
Endosulfan II	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
alpha-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
beta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
delta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
Methoxychlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
Toxaphene	ND		39		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
Chlordane (technical)	ND		39		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
alpha-Chlordane	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1
gamma-Chlordane	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	100		57 - 122	08/25/16 10:16	08/27/16 03:18	1
DCB Decachlorobiphenyl	110		21 - 136	08/25/16 10:16	08/27/16 03:18	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:44	1
PCB-1221	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:44	1
PCB-1232	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:44	1
PCB-1242	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:44	1
PCB-1248	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:44	1
PCB-1254	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:44	1

Client Sample ID: SITE-SOIL03

Lab Sample ID: 720-74013-3

Date Collected: 08/18/16 10:00

Matrix: Solid

Date Received: 08/18/16 16:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		49		ug/Kg		08/25/16 09:51	08/26/16 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*45 - 132*	*08/25/16 09:51*	*08/26/16 01:44*	*1*
DCB Decachlorobiphenyl	*75*		*42 - 146*	*08/25/16 09:51*	*08/26/16 01:44*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Arsenic	**9.4**		3.7		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Barium	**220**		1.9		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Beryllium	**0.45**		0.37		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Cadmium	**0.51**		0.46		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Chromium	**50**		1.9		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Cobalt	**15**		0.74		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Copper	**65**		5.6		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Lead	**46**		1.9		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Molybdenum	ND		1.9		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Nickel	**46**		1.9		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Selenium	ND		3.7		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Silver	**1.8**		0.93		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Thallium	ND		1.9		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Vanadium	**76**		1.9		mg/Kg		08/22/16 13:12	08/23/16 19:59	4
Zinc	**120**		5.6		mg/Kg		08/22/16 13:12	08/23/16 19:59	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**		0.0086		mg/Kg		08/22/16 15:08	08/23/16 15:32	1

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL04

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-4

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Acetone	ND		48		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Benzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Bromobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Chlorobromomethane	ND		19		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Bromoform	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Bromomethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
2-Butanone (MEK)	ND		48		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
n-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
sec-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
tert-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Carbon disulfide	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Chlorobenzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Chloroethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Chloroform	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Chloromethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
2-Chlorotoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
4-Chlorotoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,2-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,3-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,4-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,2-Dibromo-3-Chloropropane	ND	*	9.7		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Dibromomethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Ethylbenzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Hexachlorobutadiene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
2-Hexanone	ND		48		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Isopropylbenzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
4-Isopropyltoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Methylene Chloride	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Naphthalene	ND	*	9.7		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
N-Propylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Styrene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1

Client Sample ID: SITE-SOIL04

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-4

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Tetrachloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Toluene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,2,3-Trichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,2,4-Trichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Trichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,2,3-Trichloropropane	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,2,4-Trimethylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
1,3,5-Trimethylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Vinyl acetate	ND		19		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Vinyl chloride	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Xylenes, Total	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:41	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/19/16 19:53	08/26/16 03:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*72*		*45 - 131*	*08/19/16 19:53*	*08/26/16 03:41*	*1*
4-Bromofluorobenzene	*66*		*45 - 131*	*08/27/16 10:43*	*08/27/16 13:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*	*08/19/16 19:53*	*08/26/16 03:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*114*		*60 - 140*	*08/27/16 10:43*	*08/27/16 13:51*	*1*
Toluene-d8 (Surr)	*89*		*58 - 140*	*08/19/16 19:53*	*08/26/16 03:41*	*1*
Toluene-d8 (Surr)	*86*		*58 - 140*	*08/27/16 10:43*	*08/27/16 13:51*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Bis(2-chloroethyl)ether	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2-Chlorophenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
1,3-Dichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
1,4-Dichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Benzyl alcohol	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
1,2-Dichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2-Methylphenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Methylphenol, 3 & 4	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
N-Nitrosodi-n-propylamine	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Hexachloroethane	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Nitrobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Isophorone	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2-Nitrophenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2,4-Dimethylphenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Bis(2-chloroethoxy)methane	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2,4-Dichlorophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
1,2,4-Trichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Naphthalene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
4-Chloroaniline	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL04

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-4

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
4-Chloro-3-methylphenol	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2-Methylnaphthalene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Hexachlorocyclopentadiene	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2,4,6-Trichlorophenol	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2,4,5-Trichlorophenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2-Chloronaphthalene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2-Nitroaniline	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Dimethyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Acenaphthylene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
3-Nitroaniline	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Acenaphthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2,4-Dinitrophenol	ND		2.6		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
4-Nitrophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Dibenzofuran	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2,4-Dinitrotoluene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2,6-Dinitrotoluene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Diethyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
4-Chlorophenyl phenyl ether	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Fluorene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
4-Nitroaniline	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
2-Methyl-4,6-dinitrophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
N-Nitrosodiphenylamine	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
4-Bromophenyl phenyl ether	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Hexachlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Pentachlorophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Phenanthrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Anthracene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Di-n-butyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Fluoranthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Pyrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Butyl benzyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
3,3'-Dichlorobenzidine	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Benzo[a]anthracene	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Bis(2-ethylhexyl) phthalate	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Chrysene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Di-n-octyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Benzo[b]fluoranthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Benzo[a]pyrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Benzo[k]fluoranthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Indeno[1,2,3-cd]pyrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Benzo[g,h,i]perylene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Benzoic acid	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Azobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2
Dibenz(a,h)anthracene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 04:58	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*65*		*21 - 98*	*08/25/16 11:41*	*08/26/16 04:58*	*2*
2-Fluorobiphenyl	*83*		*30 - 112*	*08/25/16 11:41*	*08/26/16 04:58*	*2*
Terphenyl-d14	*81*		*59 - 134*	*08/25/16 11:41*	*08/26/16 04:58*	*2*

Client Sample ID: SITE-SOIL04

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-4

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*82*		*28 - 98*	*08/25/16 11:41*	*08/26/16 04:58*	*2*
Phenol-d5	*66*		*23 - 101*	*08/25/16 11:41*	*08/26/16 04:58*	*2*
2,4,6-Tribromophenol	*96*		*37 - 114*	*08/25/16 11:41*	*08/26/16 04:58*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**160**		3.0		mg/Kg		08/24/16 14:49	08/26/16 00:24	3
Motor Oil Range Organics [C24-C36]	**240**		150		mg/Kg		08/24/16 14:49	08/26/16 00:24	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*89*		*40 - 130*	*08/24/16 14:49*	*08/26/16 00:24*	*3*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
Dieldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
Endrin aldehyde	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
Endrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
Endrin ketone	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
Heptachlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
4,4'-DDT	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
4,4'-DDE	**4.0**		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
4,4'-DDD	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
Endosulfan I	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
Endosulfan II	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
alpha-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
beta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
delta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
Methoxychlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
Toxaphene	ND		40		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
Chlordane (technical)	ND		40		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
alpha-Chlordane	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1
gamma-Chlordane	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*57 - 122*	*08/25/16 10:16*	*08/27/16 03:34*	*1*
DCB Decachlorobiphenyl	*108*		*21 - 136*	*08/25/16 10:16*	*08/27/16 03:34*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:00	1
PCB-1221	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:00	1
PCB-1232	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:00	1
PCB-1242	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:00	1
PCB-1248	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:00	1
PCB-1254	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:00	1

Client Sample ID: SITE-SOIL04

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-4

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*45 - 132*	*08/25/16 09:51*	*08/26/16 02:00*	*1*
DCB Decachlorobiphenyl	*84*		*42 - 146*	*08/25/16 09:51*	*08/26/16 02:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.2		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Arsenic	**8.5**		2.5		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Barium	**180**		1.2		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Beryllium	**0.46**		0.25		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Cadmium	ND		0.31		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Chromium	**51**		1.2		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Cobalt	**15**		0.50		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Copper	**51**		3.7		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Lead	**29**		1.2		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Molybdenum	ND		1.2		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Nickel	**45**		1.2		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Selenium	ND		2.5		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Silver	ND		0.62		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Thallium	ND		1.2		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Vanadium	**67**		1.2		mg/Kg		08/22/16 13:12	08/23/16 20:15	4
Zinc	**93**		3.7		mg/Kg		08/22/16 13:12	08/23/16 20:15	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.0095		mg/Kg		08/22/16 15:08	08/23/16 15:36	1

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL05

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Acetone	ND		48		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Benzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Bromobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Chlorobromomethane	ND		19		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Bromoform	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Bromomethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
2-Butanone (MEK)	ND		48		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
n-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
sec-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
tert-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Carbon disulfide	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Chlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Chloroethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Chloroform	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Chloromethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
2-Chlorotoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
4-Chlorotoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,2-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,3-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,4-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,2-Dibromo-3-Chloropropane	ND	*	9.7		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Dibromomethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Ethylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Hexachlorobutadiene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
2-Hexanone	ND		48		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Isopropylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
4-Isopropyltoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Methylene Chloride	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Naphthalene	ND	*	9.7		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
N-Propylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Styrene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,1,1,2-Tetrachloroethane	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1

Client Sample ID: SITE-SOIL05

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Tetrachloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Toluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,2,3-Trichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,2,4-Trichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Trichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,2,3-Trichloropropane	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,2,4-Trimethylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
1,3,5-Trimethylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Vinyl acetate	ND		19		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Vinyl chloride	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Xylenes, Total	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 04:10	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/19/16 19:53	08/26/16 04:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*71*	*	*45 - 131*	*08/19/16 19:53*	*08/26/16 04:10*	*1*
4-Bromofluorobenzene	*64*		*45 - 131*	*08/27/16 10:43*	*08/27/16 14:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*111*		*60 - 140*	*08/19/16 19:53*	*08/26/16 04:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*60 - 140*	*08/27/16 10:43*	*08/27/16 14:21*	*1*
Toluene-d8 (Surr)	*87*		*58 - 140*	*08/19/16 19:53*	*08/26/16 04:10*	*1*
Toluene-d8 (Surr)	*85*		*58 - 140*	*08/27/16 10:43*	*08/27/16 14:21*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Bis(2-chloroethyl)ether	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2-Chlorophenol	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
1,3-Dichlorobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
1,4-Dichlorobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Benzyl alcohol	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
1,2-Dichlorobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2-Methylphenol	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Methylphenol, 3 & 4	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
N-Nitrosodi-n-propylamine	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Hexachloroethane	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Nitrobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Isophorone	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2-Nitrophenol	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2,4-Dimethylphenol	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Bis(2-chloroethoxy)methane	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2,4-Dichlorophenol	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
1,2,4-Trichlorobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Naphthalene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
4-Chloroaniline	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2

Client Sample ID: SITE-SOIL05

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-5

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
4-Chloro-3-methylphenol	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2-Methylnaphthalene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Hexachlorocyclopentadiene	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2,4,6-Trichlorophenol	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2,4,5-Trichlorophenol	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2-Chloronaphthalene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2-Nitroaniline	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Dimethyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Acenaphthylene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
3-Nitroaniline	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Acenaphthene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2,4-Dinitrophenol	ND		6.6		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
4-Nitrophenol	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Dibenzofuran	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2,4-Dinitrotoluene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2,6-Dinitrotoluene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Diethyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
4-Chlorophenyl phenyl ether	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Fluorene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
4-Nitroaniline	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
2-Methyl-4,6-dinitrophenol	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
N-Nitrosodiphenylamine	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
4-Bromophenyl phenyl ether	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Hexachlorobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Pentachlorophenol	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Phenanthrene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Anthracene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Di-n-butyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Fluoranthene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Pyrene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Butyl benzyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
3,3'-Dichlorobenzidine	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Benzo[a]anthracene	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Bis(2-ethylhexyl) phthalate	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Chrysene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Di-n-octyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Benzo[b]fluoranthene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Benzo[a]pyrene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Benzo[k]fluoranthene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Indeno[1,2,3-cd]pyrene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Benzo[g,h,i]perylene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Benzoic acid	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Azobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2
Dibenz(a,h)anthracene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 05:24	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*50*		*21 - 98*	*08/25/16 11:41*	*08/26/16 05:24*	*2*
2-Fluorobiphenyl	*63*		*30 - 112*	*08/25/16 11:41*	*08/26/16 05:24*	*2*
Terphenyl-d14	*74*		*59 - 134*	*08/25/16 11:41*	*08/26/16 05:24*	*2*

Client Sample ID: SITE-SOIL05

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-5

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*70*		*28 - 98*	*08/25/16 11:41*	*08/26/16 05:24*	*2*
Phenol-d5	*60*		*23 - 101*	*08/25/16 11:41*	*08/26/16 05:24*	*2*
2,4,6-Tribromophenol	*85*		*37 - 114*	*08/25/16 11:41*	*08/26/16 05:24*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**62**		3.0		mg/Kg		08/24/16 14:49	08/26/16 00:53	3
Motor Oil Range Organics [C24-C36]	**260**		150		mg/Kg		08/24/16 14:49	08/26/16 00:53	3

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*81*		*40 - 130*	*08/24/16 14:49*	*08/26/16 00:53*	*3*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
Dieldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
Endrin aldehyde	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
Endrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
Endrin ketone	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
Heptachlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
4,4'-DDT	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
4,4'-DDE	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
4,4'-DDD	**2.3**	**p**	2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
Endosulfan I	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
Endosulfan II	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
alpha-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
beta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
delta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
Methoxychlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
Toxaphene	ND		40		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
Chlordane (technical)	**80**		40		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
alpha-Chlordane	**4.5**	**p**	2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1
gamma-Chlordane	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*57 - 122*	*08/25/16 10:16*	*08/27/16 03:51*	*1*
DCB Decachlorobiphenyl	*127*		*21 - 136*	*08/25/16 10:16*	*08/27/16 03:51*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:17	1
PCB-1221	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:17	1
PCB-1232	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:17	1
PCB-1242	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:17	1
PCB-1248	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:17	1
PCB-1254	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:17	1

Client Sample ID: SITE-SOIL05

Lab Sample ID: 720-74013-5

Date Collected: 08/18/16 10:00

Matrix: Solid

Date Received: 08/18/16 16:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*45 - 132*	*08/25/16 09:51*	*08/26/16 02:17*	*1*
DCB Decachlorobiphenyl	*82*		*42 - 146*	*08/25/16 09:51*	*08/26/16 02:17*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.7		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Arsenic	**6.8**		3.4		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Barium	**150**		1.7		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Beryllium	ND		0.34		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Cadmium	ND		0.43		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Chromium	**39**		1.7		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Cobalt	**12**		0.68		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Copper	**50**		5.1		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Lead	**26**		1.7		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Molybdenum	ND		1.7		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Nickel	**35**		1.7		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Selenium	ND		3.4		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Silver	**1.2**		0.85		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Thallium	ND		1.7		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Vanadium	**60**		1.7		mg/Kg		08/22/16 13:12	08/23/16 20:20	4
Zinc	**88**		5.1		mg/Kg		08/22/16 13:12	08/23/16 20:20	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**		0.0083		mg/Kg		08/22/16 15:08	08/23/16 15:39	1

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL06

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Acetone	**360**		49		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Benzene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Dichlorobromomethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Bromobenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Chlorobromomethane	ND		20		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Bromoform	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Bromomethane	ND		9.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
2-Butanone (MEK)	ND		49		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
n-Butylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
sec-Butylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
tert-Butylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Carbon disulfide	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Carbon tetrachloride	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Chlorobenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Chloroethane	ND		9.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Chloroform	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Chloromethane	ND		9.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
2-Chlorotoluene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
4-Chlorotoluene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Chlorodibromomethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,2-Dichlorobenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,3-Dichlorobenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,4-Dichlorobenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,3-Dichloropropane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,1-Dichloropropene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,2-Dibromo-3-Chloropropane	ND	*	9.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Ethylene Dibromide	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Dibromomethane	ND		9.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Dichlorodifluoromethane	ND		9.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,1-Dichloroethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,2-Dichloroethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,1-Dichloroethene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
cis-1,2-Dichloroethene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
trans-1,2-Dichloroethene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,2-Dichloropropane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
cis-1,3-Dichloropropene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
trans-1,3-Dichloropropene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Ethylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Hexachlorobutadiene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
2-Hexanone	ND		49		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Isopropylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
4-Isopropyltoluene	**6.2**	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Methylene Chloride	ND		9.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
4-Methyl-2-pentanone (MIBK)	ND		49		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Naphthalene	ND	*	9.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
N-Propylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Styrene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,1,1,2-Tetrachloroethane	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1

Client Sample ID: SITE-SOIL06

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Tetrachloroethene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Toluene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,2,3-Trichlorobenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,2,4-Trichlorobenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,1,1-Trichloroethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,1,2-Trichloroethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Trichloroethene	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Trichlorofluoromethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,2,3-Trichloropropane	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,2,4-Trimethylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
1,3,5-Trimethylbenzene	ND	*	4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Vinyl acetate	ND		20		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Vinyl chloride	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Xylenes, Total	ND		9.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
2,2-Dichloropropane	ND		4.9		ug/Kg		08/19/16 19:53	08/26/16 01:45	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/19/16 19:53	08/26/16 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*70*	*	*45 - 131*	*08/19/16 19:53*	*08/26/16 01:45*	*1*
4-Bromofluorobenzene	*56*	*	*45 - 131*	*08/27/16 10:43*	*08/27/16 14:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 140*	*08/19/16 19:53*	*08/26/16 01:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*124*		*60 - 140*	*08/27/16 10:43*	*08/27/16 14:50*	*1*
Toluene-d8 (Surr)	*86*		*58 - 140*	*08/19/16 19:53*	*08/26/16 01:45*	*1*
Toluene-d8 (Surr)	*76*		*58 - 140*	*08/27/16 10:43*	*08/27/16 14:50*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Bis(2-chloroethyl)ether	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2-Chlorophenol	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
1,3-Dichlorobenzene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
1,4-Dichlorobenzene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Benzyl alcohol	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
1,2-Dichlorobenzene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2-Methylphenol	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Methylphenol, 3 & 4	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
N-Nitrosodi-n-propylamine	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Hexachloroethane	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Nitrobenzene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Isophorone	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2-Nitrophenol	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2,4-Dimethylphenol	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Bis(2-chloroethoxy)methane	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2,4-Dichlorophenol	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
1,2,4-Trichlorobenzene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Naphthalene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
4-Chloroaniline	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2

Client Sample ID: SITE-SOIL06

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-6

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
4-Chloro-3-methylphenol	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2-Methylnaphthalene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Hexachlorocyclopentadiene	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2,4,6-Trichlorophenol	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2,4,5-Trichlorophenol	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2-Chloronaphthalene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2-Nitroaniline	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Dimethyl phthalate	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Acenaphthylene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
3-Nitroaniline	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Acenaphthene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2,4-Dinitrophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
4-Nitrophenol	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Dibenzofuran	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2,4-Dinitrotoluene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2,6-Dinitrotoluene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Diethyl phthalate	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
4-Chlorophenyl phenyl ether	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Fluorene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
4-Nitroaniline	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
2-Methyl-4,6-dinitrophenol	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
N-Nitrosodiphenylamine	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
4-Bromophenyl phenyl ether	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Hexachlorobenzene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Pentachlorophenol	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Phenanthrene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Anthracene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Di-n-butyl phthalate	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Fluoranthene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Pyrene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Butyl benzyl phthalate	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
3,3'-Dichlorobenzidine	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Benzo[a]anthracene	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Bis(2-ethylhexyl) phthalate	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Chrysene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Di-n-octyl phthalate	ND		0.34		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Benzo[b]fluoranthene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Benzo[a]pyrene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Benzo[k]fluoranthene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Indeno[1,2,3-cd]pyrene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Benzo[g,h,i]perylene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Benzoic acid	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Azobenzene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2
Dibenz(a,h)anthracene	ND		0.13		mg/Kg		08/25/16 11:41	08/26/16 05:50	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*59*		*21 - 98*	*08/25/16 11:41*	*08/26/16 05:50*	*2*
2-Fluorobiphenyl	*72*		*30 - 112*	*08/25/16 11:41*	*08/26/16 05:50*	*2*
Terphenyl-d14	*72*		*59 - 134*	*08/25/16 11:41*	*08/26/16 05:50*	*2*

Client Sample ID: SITE-SOIL06

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-6

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorophenol	*66*		*28 - 98*	*08/25/16 11:41*	*08/26/16 05:50*	*2*
Phenol-d5	*55*		*23 - 101*	*08/25/16 11:41*	*08/26/16 05:50*	*2*
2,4,6-Tribromophenol	*78*		*37 - 114*	*08/25/16 11:41*	*08/26/16 05:50*	*2*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**250**		5.0		mg/Kg		08/24/16 14:49	08/26/16 01:23	5
Motor Oil Range Organics [C24-C36]	**500**		250		mg/Kg		08/24/16 14:49	08/26/16 01:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*0*	*X D*	*40 - 130*	*08/24/16 14:49*	*08/26/16 01:23*	*5*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
Dieldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
Endrin aldehyde	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
Endrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
Endrin ketone	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
Heptachlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
4,4'-DDT	**9.1**		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
4,4'-DDE	**29**		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
4,4'-DDD	**12**		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
Endosulfan I	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
Endosulfan II	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
alpha-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
beta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
delta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
Methoxychlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
Toxaphene	ND		40		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
Chlordane (technical)	ND		40		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
alpha-Chlordane	**2.8**	**p**	2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1
gamma-Chlordane	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*57 - 122*	*08/25/16 10:16*	*08/27/16 04:08*	*1*
DCB Decachlorobiphenyl	*86*		*21 - 136*	*08/25/16 10:16*	*08/27/16 04:08*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:33	1
PCB-1221	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:33	1
PCB-1232	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:33	1
PCB-1242	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:33	1
PCB-1248	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:33	1
PCB-1254	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:33	1

Client Sample ID: SITE-SOIL06

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-6

Matrix: Solid

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		50		ug/Kg		08/25/16 09:51	08/26/16 02:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*45 - 132*	*08/25/16 09:51*	*08/26/16 02:33*	*1*
DCB Decachlorobiphenyl	*74*		*42 - 146*	*08/25/16 09:51*	*08/26/16 02:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.8		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Arsenic	**17**		3.7		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Barium	**200**		1.8		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Beryllium	**0.40**		0.37		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Cadmium	**0.46**		0.46		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Chromium	**41**		1.8		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Cobalt	**16**		0.73		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Copper	**50**		5.5		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Lead	**61**		1.8		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Molybdenum	ND		1.8		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Nickel	**36**		1.8		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Selenium	ND		3.7		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Silver	ND		0.92		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Thallium	ND		1.8		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Vanadium	**64**		1.8		mg/Kg		08/22/16 13:12	08/23/16 20:25	4
Zinc	**260**		5.5		mg/Kg		08/22/16 13:12	08/23/16 20:25	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.11**		0.0094		mg/Kg		08/22/16 15:08	08/23/16 15:48	1

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL07

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Acetone	ND		50		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Benzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Dichlorobromomethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Bromobenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Chlorobromomethane	ND		20		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Bromoform	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Bromomethane	ND		10		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
2-Butanone (MEK)	ND		50		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
n-Butylbenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
sec-Butylbenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
tert-Butylbenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Carbon disulfide	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Carbon tetrachloride	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Chlorobenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Chloroethane	ND		10		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Chloroform	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Chloromethane	ND		10		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
2-Chlorotoluene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
4-Chlorotoluene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Chlorodibromomethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,3-Dichloropropane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,1-Dichloropropene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Ethylene Dibromide	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Dibromomethane	ND		10		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Dichlorodifluoromethane	ND		10		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,1-Dichloroethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,2-Dichloroethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,1-Dichloroethene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,2-Dichloropropane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Ethylbenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Hexachlorobutadiene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
2-Hexanone	ND		50		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Isopropylbenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
4-Isopropyltoluene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Methylene Chloride	ND		10		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Naphthalene	ND		10		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
N-Propylbenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Styrene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1

Client Sample ID: SITE-SOIL07

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Tetrachloroethene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Toluene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Trichloroethene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Trichlorofluoromethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Vinyl acetate	ND		20		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Vinyl chloride	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Xylenes, Total	ND		10		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
2,2-Dichloropropane	ND		5.0		ug/Kg		08/19/16 19:53	08/26/16 02:15	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg		08/19/16 19:53	08/26/16 02:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*90*		*45 - 131*	*08/19/16 19:53*	*08/26/16 02:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*60 - 140*	*08/19/16 19:53*	*08/26/16 02:15*	*1*
Toluene-d8 (Surr)	*93*		*58 - 140*	*08/19/16 19:53*	*08/26/16 02:15*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Bis(2-chloroethyl)ether	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2-Chlorophenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
1,3-Dichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
1,4-Dichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Benzyl alcohol	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
1,2-Dichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2-Methylphenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Methylphenol, 3 & 4	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
N-Nitrosodi-n-propylamine	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Hexachloroethane	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Nitrobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Isophorone	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2-Nitrophenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2,4-Dimethylphenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Bis(2-chloroethoxy)methane	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2,4-Dichlorophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
1,2,4-Trichlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Naphthalene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
4-Chloroaniline	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Hexachlorobutadiene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
4-Chloro-3-methylphenol	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2-Methylnaphthalene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2

Client Sample ID: SITE-SOIL07

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-7

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2,4,6-Trichlorophenol	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2,4,5-Trichlorophenol	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2-Chloronaphthalene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2-Nitroaniline	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Dimethyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Acenaphthylene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
3-Nitroaniline	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Acenaphthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2,4-Dinitrophenol	ND		2.6		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
4-Nitrophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Dibenzofuran	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2,4-Dinitrotoluene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2,6-Dinitrotoluene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Diethyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
4-Chlorophenyl phenyl ether	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Fluorene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
4-Nitroaniline	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
2-Methyl-4,6-dinitrophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
N-Nitrosodiphenylamine	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
4-Bromophenyl phenyl ether	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Hexachlorobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Pentachlorophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Phenanthrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Anthracene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Di-n-butyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Fluoranthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Pyrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Butyl benzyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
3,3'-Dichlorobenzidine	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Benzo[a]anthracene	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Bis(2-ethylhexyl) phthalate	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Chrysene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Di-n-octyl phthalate	ND		0.68		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Benzo[b]fluoranthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Benzo[a]pyrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Benzo[k]fluoranthene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Indeno[1,2,3-cd]pyrene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Benzo[g,h,i]perylene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Benzoic acid	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Azobenzene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2
Dibenz(a,h)anthracene	ND		0.27		mg/Kg		08/25/16 11:41	08/26/16 06:16	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*60*		*21 - 98*	*08/25/16 11:41*	*08/26/16 06:16*	*2*
2-Fluorobiphenyl	*75*		*30 - 112*	*08/25/16 11:41*	*08/26/16 06:16*	*2*
Terphenyl-d14	*82*		*59 - 134*	*08/25/16 11:41*	*08/26/16 06:16*	*2*
2-Fluorophenol	*72*		*28 - 98*	*08/25/16 11:41*	*08/26/16 06:16*	*2*
Phenol-d5	*61*		*23 - 101*	*08/25/16 11:41*	*08/26/16 06:16*	*2*
2,4,6-Tribromophenol	*87*		*37 - 114*	*08/25/16 11:41*	*08/26/16 06:16*	*2*

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**58**		0.99		mg/Kg		08/24/16 14:49	08/26/16 01:52	1
Motor Oil Range Organics [C24-C36]	**160**		50		mg/Kg		08/24/16 14:49	08/26/16 01:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*75*		*40 - 130*	*08/24/16 14:49*	*08/26/16 01:52*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
Dieldrin	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
Endrin aldehyde	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
Endrin	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
Endrin ketone	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
Heptachlor	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
Heptachlor epoxide	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
4,4'-DDT	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
4,4'-DDE	**2.9**	**p**	1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
4,4'-DDD	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
Endosulfan I	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
Endosulfan II	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
alpha-BHC	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
beta-BHC	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
gamma-BHC (Lindane)	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
delta-BHC	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
Endosulfan sulfate	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
Methoxychlor	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
Toxaphene	ND		39		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
Chlordane (technical)	ND		39		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
alpha-Chlordane	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1
gamma-Chlordane	ND		1.9		ug/Kg		08/25/16 10:16	08/27/16 04:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*57 - 122*	*08/25/16 10:16*	*08/27/16 04:25*	*1*
DCB Decachlorobiphenyl	*96*	*p*	*21 - 136*	*08/25/16 10:16*	*08/27/16 04:25*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		08/25/16 09:51	08/26/16 02:50	1
PCB-1221	ND		49		ug/Kg		08/25/16 09:51	08/26/16 02:50	1
PCB-1232	ND		49		ug/Kg		08/25/16 09:51	08/26/16 02:50	1
PCB-1242	ND		49		ug/Kg		08/25/16 09:51	08/26/16 02:50	1
PCB-1248	ND		49		ug/Kg		08/25/16 09:51	08/26/16 02:50	1
PCB-1254	ND		49		ug/Kg		08/25/16 09:51	08/26/16 02:50	1
PCB-1260	ND		49		ug/Kg		08/25/16 09:51	08/26/16 02:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*45 - 132*	*08/25/16 09:51*	*08/26/16 02:50*	*1*
DCB Decachlorobiphenyl	*87*		*42 - 146*	*08/25/16 09:51*	*08/26/16 02:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.9		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Arsenic	**6.7**		3.7		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Barium	**130**		1.9		mg/Kg		08/22/16 13:12	08/23/16 20:31	4

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL07

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-7

Matrix: Solid

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		0.37		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Cadmium	ND		0.46		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Chromium	**32**		1.9		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Cobalt	**9.7**		0.74		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Copper	**38**		5.6		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Lead	**34**		1.9		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Molybdenum	ND		1.9		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Nickel	**28**		1.9		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Selenium	ND		3.7		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Silver	ND		0.93		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Thallium	ND		1.9		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Vanadium	**42**		1.9		mg/Kg		08/22/16 13:12	08/23/16 20:31	4
Zinc	**110**		5.6		mg/Kg		08/22/16 13:12	08/23/16 20:31	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.010		mg/Kg		08/22/16 15:08	08/23/16 15:50	1

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL08

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-8

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Acetone	ND		48		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Benzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Bromobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Chlorobromomethane	ND		19		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Bromoform	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Bromomethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
2-Butanone (MEK)	ND		48		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
n-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
sec-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
tert-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Carbon disulfide	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Chlorobenzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Chloroethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Chloroform	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Chloromethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
2-Chlorotoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
4-Chlorotoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,2-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,3-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,4-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,2-Dibromo-3-Chloropropane	ND	*	9.7		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Dibromomethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Dichlorodifluoromethane	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Ethylbenzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Hexachlorobutadiene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
2-Hexanone	ND		48		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Isopropylbenzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
4-Isopropyltoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Methylene Chloride	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Naphthalene	ND	*	9.7		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
N-Propylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Styrene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1

Client Sample ID: SITE-SOIL08

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Tetrachloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Toluene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,2,3-Trichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,2,4-Trichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Trichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,2,3-Trichloropropane	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,2,4-Trimethylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
1,3,5-Trimethylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Vinyl acetate	ND		19		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Vinyl chloride	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Xylenes, Total	ND		9.7		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 02:46	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/19/16 19:53	08/26/16 02:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*87*		*45 - 131*	*08/19/16 19:53*	*08/26/16 02:46*	*1*
4-Bromofluorobenzene	*56*	*	*45 - 131*	*08/27/16 10:43*	*08/27/16 15:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*60 - 140*	*08/19/16 19:53*	*08/26/16 02:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*60 - 140*	*08/27/16 10:43*	*08/27/16 15:19*	*1*
Toluene-d8 (Surr)	*94*		*58 - 140*	*08/19/16 19:53*	*08/26/16 02:46*	*1*
Toluene-d8 (Surr)	*76*		*58 - 140*	*08/27/16 10:43*	*08/27/16 15:19*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Bis(2-chloroethyl)ether	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2-Chlorophenol	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
1,3-Dichlorobenzene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
1,4-Dichlorobenzene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Benzyl alcohol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
1,2-Dichlorobenzene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2-Methylphenol	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Methylphenol, 3 & 4	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
N-Nitrosodi-n-propylamine	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Hexachloroethane	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Nitrobenzene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Isophorone	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2-Nitrophenol	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2,4-Dimethylphenol	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Bis(2-chloroethoxy)methane	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2,4-Dichlorophenol	ND		2.6		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
1,2,4-Trichlorobenzene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Naphthalene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
4-Chloroaniline	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4

Client Sample ID: SITE-SOIL08

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-8

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
4-Chloro-3-methylphenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2-Methylnaphthalene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Hexachlorocyclopentadiene	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2,4,6-Trichlorophenol	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2,4,5-Trichlorophenol	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2-Chloronaphthalene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2-Nitroaniline	ND		2.6		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Dimethyl phthalate	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Acenaphthylene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
3-Nitroaniline	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Acenaphthene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2,4-Dinitrophenol	ND		5.2		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
4-Nitrophenol	ND		2.6		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Dibenzofuran	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2,4-Dinitrotoluene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2,6-Dinitrotoluene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Diethyl phthalate	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
4-Chlorophenyl phenyl ether	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Fluorene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
4-Nitroaniline	ND		2.6		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
2-Methyl-4,6-dinitrophenol	ND		2.6		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
N-Nitrosodiphenylamine	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
4-Bromophenyl phenyl ether	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Hexachlorobenzene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Pentachlorophenol	ND		2.6		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Phenanthrene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Anthracene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Di-n-butyl phthalate	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Fluoranthene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Pyrene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Butyl benzyl phthalate	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
3,3'-Dichlorobenzidine	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Benzo[a]anthracene	ND		2.6		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Bis(2-ethylhexyl) phthalate	ND		2.6		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Chrysene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Di-n-octyl phthalate	ND		1.3		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Benzo[b]fluoranthene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Benzo[a]pyrene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Benzo[k]fluoranthene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Indeno[1,2,3-cd]pyrene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Benzo[g,h,i]perylene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Benzoic acid	ND		2.6		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Azobenzene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4
Dibenz(a,h)anthracene	ND		0.53		mg/Kg		08/25/16 11:41	08/26/16 06:42	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*57*		*21 - 98*	*08/25/16 11:41*	*08/26/16 06:42*	*4*
2-Fluorobiphenyl	*70*		*30 - 112*	*08/25/16 11:41*	*08/26/16 06:42*	*4*
Terphenyl-d14	*78*		*59 - 134*	*08/25/16 11:41*	*08/26/16 06:42*	*4*

Client Sample ID: SITE-SOIL08

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-8

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	76		28 - 98	08/25/16 11:41	08/26/16 06:42	4
Phenol-d5	58		23 - 101	08/25/16 11:41	08/26/16 06:42	4
2,4,6-Tribromophenol	88		37 - 114	08/25/16 11:41	08/26/16 06:42	4

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**140**		4.9		mg/Kg		08/24/16 14:49	08/25/16 19:30	5
Motor Oil Range Organics [C24-C36]	**430**		250		mg/Kg		08/24/16 14:49	08/25/16 19:30	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	08/24/16 14:49	08/25/16 19:30	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
Dieldrin	**9.4**		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
Endrin aldehyde	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
Endrin	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
Endrin ketone	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
Heptachlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
4,4'-DDT	**12**		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
4,4'-DDE	**18**		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
4,4'-DDD	**13**		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
Endosulfan I	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
Endosulfan II	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
alpha-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
beta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
delta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
Methoxychlor	ND		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
Toxaphene	ND		40		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
Chlordane (technical)	**420**		40		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
alpha-Chlordane	**71**	**p**	2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1
gamma-Chlordane	**86**		2.0		ug/Kg		08/25/16 10:16	08/27/16 04:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	66	p	57 - 122	08/25/16 10:16	08/27/16 04:41	1
DCB Decachlorobiphenyl	111	p	21 - 136	08/25/16 10:16	08/27/16 04:41	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/25/16 09:51	08/26/16 03:07	1
PCB-1221	ND		50		ug/Kg		08/25/16 09:51	08/26/16 03:07	1
PCB-1232	ND		50		ug/Kg		08/25/16 09:51	08/26/16 03:07	1
PCB-1242	ND		50		ug/Kg		08/25/16 09:51	08/26/16 03:07	1
PCB-1248	ND		50		ug/Kg		08/25/16 09:51	08/26/16 03:07	1
PCB-1254	ND		50		ug/Kg		08/25/16 09:51	08/26/16 03:07	1

Client Sample ID: SITE-SOIL08

Lab Sample ID: 720-74013-8

Date Collected: 08/18/16 10:00

Matrix: Solid

Date Received: 08/18/16 16:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		50		ug/Kg		08/25/16 09:51	08/26/16 03:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*45 - 132*	*08/25/16 09:51*	*08/26/16 03:07*	*1*
DCB Decachlorobiphenyl	*96*		*42 - 146*	*08/25/16 09:51*	*08/26/16 03:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.3		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Arsenic	**11**		2.7		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Barium	**180**		1.3		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Beryllium	**0.33**		0.27		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Cadmium	**0.72**		0.33		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Chromium	**41**		1.3		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Cobalt	**11**		0.53		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Copper	**49**		4.0		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Lead	**40**		1.3		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Molybdenum	ND		1.3		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Nickel	**34**		1.3		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Selenium	ND		2.7		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Silver	ND		0.67		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Thallium	ND		1.3		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Vanadium	**48**		1.3		mg/Kg		08/22/16 13:12	08/23/16 20:36	4
Zinc	**1000**		4.0		mg/Kg		08/22/16 13:12	08/23/16 20:36	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.33**		0.0085		mg/Kg		08/22/16 15:08	08/23/16 15:53	1

Client Sample Results

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL09

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-9

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Acetone	ND		48		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Benzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Dichlorobromomethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Bromobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Chlorobromomethane	ND		19		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Bromoform	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Bromomethane	ND		9.6		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
2-Butanone (MEK)	ND		48		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
n-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
sec-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
tert-Butylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Carbon disulfide	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Carbon tetrachloride	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Chlorobenzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Chloroethane	ND		9.6		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Chloroform	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Chloromethane	ND		9.6		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
2-Chlorotoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
4-Chlorotoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Chlorodibromomethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,2-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,3-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,4-Dichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,3-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,1-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,2-Dibromo-3-Chloropropane	ND	*	9.6		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Ethylene Dibromide	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Dibromomethane	ND		9.6		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Dichlorodifluoromethane	ND		9.6		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,1-Dichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,2-Dichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,1-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
cis-1,2-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
trans-1,2-Dichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,2-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
cis-1,3-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
trans-1,3-Dichloropropene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Ethylbenzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Hexachlorobutadiene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
2-Hexanone	ND		48		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Isopropylbenzene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
4-Isopropyltoluene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Methylene Chloride	ND		9.6		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
4-Methyl-2-pentanone (MIBK)	ND		48		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Naphthalene	ND	*	9.6		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
N-Propylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Styrene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,1,1,2-Tetrachloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1

Client Sample ID: SITE-SOIL09

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Tetrachloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Toluene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,2,3-Trichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,2,4-Trichlorobenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,1,1-Trichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,1,2-Trichloroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Trichloroethene	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Trichlorofluoromethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,2,3-Trichloropropane	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,2,4-Trimethylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
1,3,5-Trimethylbenzene	ND	*	4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Vinyl acetate	ND		19		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Vinyl chloride	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Xylenes, Total	ND		9.6		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
2,2-Dichloropropane	ND		4.8		ug/Kg		08/19/16 19:53	08/26/16 03:16	1
Gasoline Range Organics (GRO) -C5-C12	ND		240		ug/Kg		08/19/16 19:53	08/26/16 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*45 - 131*	*08/19/16 19:53*	*08/26/16 03:16*	*1*
4-Bromofluorobenzene	*57*	*	*45 - 131*	*08/27/16 10:43*	*08/27/16 15:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*115*		*60 - 140*	*08/19/16 19:53*	*08/26/16 03:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*132*	*	*60 - 140*	*08/27/16 10:43*	*08/27/16 15:49*	*1*
Toluene-d8 (Surr)	*92*		*58 - 140*	*08/19/16 19:53*	*08/26/16 03:16*	*1*
Toluene-d8 (Surr)	*75*	*	*58 - 140*	*08/27/16 10:43*	*08/27/16 15:49*	*1*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Bis(2-chloroethyl)ether	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2-Chlorophenol	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
1,3-Dichlorobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
1,4-Dichlorobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Benzyl alcohol	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
1,2-Dichlorobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2-Methylphenol	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Methylphenol, 3 & 4	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
N-Nitrosodi-n-propylamine	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Hexachloroethane	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Nitrobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Isophorone	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2-Nitrophenol	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2,4-Dimethylphenol	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Bis(2-chloroethoxy)methane	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2,4-Dichlorophenol	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
1,2,4-Trichlorobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Naphthalene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
4-Chloroaniline	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2

Client Sample ID: SITE-SOIL09

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-9

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobutadiene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
4-Chloro-3-methylphenol	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2-Methylnaphthalene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Hexachlorocyclopentadiene	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2,4,6-Trichlorophenol	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2,4,5-Trichlorophenol	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2-Chloronaphthalene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2-Nitroaniline	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Dimethyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Acenaphthylene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
3-Nitroaniline	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Acenaphthene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2,4-Dinitrophenol	ND		6.6		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
4-Nitrophenol	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Dibenzofuran	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2,4-Dinitrotoluene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2,6-Dinitrotoluene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Diethyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
4-Chlorophenyl phenyl ether	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Fluorene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
4-Nitroaniline	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
2-Methyl-4,6-dinitrophenol	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
N-Nitrosodiphenylamine	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
4-Bromophenyl phenyl ether	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Hexachlorobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Pentachlorophenol	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Phenanthrene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Anthracene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Di-n-butyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Fluoranthene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Pyrene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Butyl benzyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
3,3'-Dichlorobenzidine	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Benzo[a]anthracene	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Bis(2-ethylhexyl) phthalate	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Chrysene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Di-n-octyl phthalate	ND		1.7		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Benzo[b]fluoranthene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Benzo[a]pyrene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Benzo[k]fluoranthene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Indeno[1,2,3-cd]pyrene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Benzo[g,h,i]perylene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Benzoic acid	ND		3.3		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Azobenzene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2
Dibenz(a,h)anthracene	ND		0.67		mg/Kg		08/25/16 11:41	08/26/16 07:08	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*54*		*21 - 98*	*08/25/16 11:41*	*08/26/16 07:08*	*2*
2-Fluorobiphenyl	*68*		*30 - 112*	*08/25/16 11:41*	*08/26/16 07:08*	*2*
Terphenyl-d14	*70*		*59 - 134*	*08/25/16 11:41*	*08/26/16 07:08*	*2*

Client Sample ID: SITE-SOIL09

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-9

Matrix: Solid

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorophenol	71		28 - 98	08/25/16 11:41	08/26/16 07:08	2
Phenol-d5	58		23 - 101	08/25/16 11:41	08/26/16 07:08	2
2,4,6-Tribromophenol	86		37 - 114	08/25/16 11:41	08/26/16 07:08	2

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	**260**		9.9		mg/Kg		08/24/16 14:49	08/25/16 19:01	10
Motor Oil Range Organics [C24-C36]	**810**		500		mg/Kg		08/24/16 14:49	08/25/16 19:01	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
p-Terphenyl	0	X D	40 - 130	08/24/16 14:49	08/25/16 19:01	10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
Dieldrin	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
Endrin aldehyde	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
Endrin	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
Endrin ketone	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
Heptachlor	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
Heptachlor epoxide	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
4,4'-DDT	**140**		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
4,4'-DDE	**35**	**p**	9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
4,4'-DDD	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
Endosulfan I	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
Endosulfan II	**180**		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
alpha-BHC	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
beta-BHC	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
gamma-BHC (Lindane)	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
delta-BHC	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
Endosulfan sulfate	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
Methoxychlor	ND		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
Toxaphene	ND		200		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
Chlordane (technical)	**2000**		200		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
alpha-Chlordane	**260**	**p**	9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5
gamma-Chlordane	**400**		9.8		ug/Kg		08/25/16 10:16	08/29/16 11:30	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	114		57 - 122	08/25/16 10:16	08/29/16 11:30	5
DCB Decachlorobiphenyl	63	p	21 - 136	08/25/16 10:16	08/29/16 11:30	5

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		49		ug/Kg		08/25/16 10:23	08/25/16 21:00	1
PCB-1221	ND		49		ug/Kg		08/25/16 10:23	08/25/16 21:00	1
PCB-1232	ND		49		ug/Kg		08/25/16 10:23	08/25/16 21:00	1
PCB-1242	ND		49		ug/Kg		08/25/16 10:23	08/25/16 21:00	1
PCB-1248	ND		49		ug/Kg		08/25/16 10:23	08/25/16 21:00	1
PCB-1254	ND		49		ug/Kg		08/25/16 10:23	08/25/16 21:00	1

Client Sample ID: SITE-SOIL09

Lab Sample ID: 720-74013-9

Date Collected: 08/18/16 10:00

Matrix: Solid

Date Received: 08/18/16 16:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	ND		49		ug/Kg		08/25/16 10:23	08/25/16 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*45 - 132*	*08/25/16 10:23*	*08/25/16 21:00*	*1*
DCB Decachlorobiphenyl	*75*		*42 - 146*	*08/25/16 10:23*	*08/25/16 21:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		1.6		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Arsenic	**14**		3.2		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Barium	**210**		1.6		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Beryllium	**0.32**		0.32		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Cadmium	**0.46**		0.40		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Chromium	**46**		1.6		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Cobalt	**12**		0.64		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Copper	**54**		4.8		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Lead	**56**		1.6		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Molybdenum	ND		1.6		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Nickel	**50**		1.6		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Selenium	ND		3.2		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Silver	ND		0.80		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Thallium	ND		1.6		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Vanadium	**51**		1.6		mg/Kg		08/22/16 13:12	08/23/16 20:42	4
Zinc	**240**		4.8		mg/Kg		08/22/16 13:12	08/23/16 20:42	4

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.0091		mg/Kg		08/22/16 15:08	08/23/16 15:55	1

Surrogate Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	12DCE	TOL
Lab Sample ID	Client Sample ID	(45-131)	(60-140)	(58-140)
720-74013-1	SITE-SOIL01	80	114	91
720-74013-1	SITE-SOIL01	74	118	89
720-74013-2	SITE-SOIL02	71	107	88
720-74013-2	SITE-SOIL02	70 *	121	85
720-74013-3	SITE-SOIL03	78	118	89
720-74013-3	SITE-SOIL03	71 *	137	84
720-74013-4	SITE-SOIL04	72	106	89
720-74013-4	SITE-SOIL04	66	114	86
720-74013-5	SITE-SOIL05	71 *	111	87
720-74013-5	SITE-SOIL05	64	116	85
720-74013-6	SITE-SOIL06	70 *	115	86
720-74013-6	SITE-SOIL06	56 *	124	76
720-74013-7	SITE-SOIL07	90	110	93
720-74013-8	SITE-SOIL08	87	109	94
720-74013-8	SITE-SOIL08	56 *	120	76
720-74013-9	SITE-SOIL09	85	115	92
720-74013-9	SITE-SOIL09	57 *	132 *	75 *
LCS 720-208282/5	Lab Control Sample	94	105	98
LCS 720-208282/7	Lab Control Sample	96	104	99
LCS 720-208283/5	Lab Control Sample	103	97	103
LCS 720-208283/7	Lab Control Sample	104	100	103
LCS 720-208362/5	Lab Control Sample	92	106	99
LCS 720-208362/7	Lab Control Sample	96	104	98
LCSD 720-208282/6	Lab Control Sample Dup	94	102	98
LCSD 720-208282/8	Lab Control Sample Dup	96	103	98
LCSD 720-208283/6	Lab Control Sample Dup	103	96	103
LCSD 720-208283/8	Lab Control Sample Dup	104	101	104
LCSD 720-208362/6	Lab Control Sample Dup	94	102	98
LCSD 720-208362/8	Lab Control Sample Dup	95	105	98
MB 720-208282/4	Method Blank	94	103	97
MB 720-208283/4	Method Blank	103	100	103
MB 720-208362/4	Method Blank	92	106	97

Surrogate Legend

BFB = 4-Bromofluorobenzene
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPH	2FP	PHL	TBP
Lab Sample ID	Client Sample ID	(21-98)	(30-112)	(59-134)	(28-98)	(23-101)	(37-114)
720-74013-1	SITE-SOIL01	55	70	76	72	62	90
720-74013-2	SITE-SOIL02	61	74	81	69	62	84
720-74013-3	SITE-SOIL03	65	78	82	75	60	87
720-74013-4	SITE-SOIL04	65	83	81	82	66	96
720-74013-5	SITE-SOIL05	50	63	74	70	60	85

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		NBZ	FBP	TPH	2FP	PHL	TBP
Lab Sample ID	Client Sample ID	(21-98)	(30-112)	(59-134)	(28-98)	(23-101)	(37-114)
720-74013-6	SITE-SOIL06	59	72	72	66	55	78
720-74013-7	SITE-SOIL07	60	75	82	72	61	87
720-74013-8	SITE-SOIL08	57	70	78	76	58	88
720-74013-9	SITE-SOIL09	54	68	70	71	58	86
LCS 720-208256/2-A	Lab Control Sample	82	95	96	90	79	85
MB 720-208256/1-A	Method Blank	79	98	122	83	68	83

Surrogate Legend

NBZ = Nitrobenzene-d5
FBP = 2-Fluorobiphenyl
TPH = Terphenyl-d14
2FP = 2-Fluorophenol
PHL = Phenol-d5
TBP = 2,4,6-Tribromophenol

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		PTP1
Lab Sample ID	Client Sample ID	(40-130)
720-74013-1	SITE-SOIL01	71
720-74013-2	SITE-SOIL02	74
720-74013-3	SITE-SOIL03	69
720-74013-4	SITE-SOIL04	89
720-74013-5	SITE-SOIL05	81
720-74013-6	SITE-SOIL06	0 X D
720-74013-7	SITE-SOIL07	75
720-74013-8	SITE-SOIL08	0 X D
720-74013-9	SITE-SOIL09	0 X D
LCS 720-208188/2-A	Lab Control Sample	95
MB 720-208188/1-A	Method Blank	100

Surrogate Legend

PTP = p-Terphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB2
Lab Sample ID	Client Sample ID	(57-122)	(21-136)
720-74013-1	SITE-SOIL01	64	104
720-74013-2	SITE-SOIL02	64	103
720-74013-3	SITE-SOIL03	100	110
720-74013-4	SITE-SOIL04	81	108
LCS 720-208241/2-A	Lab Control Sample	94	117
MB 720-208241/1-A	Method Blank	95	117

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(57-122)	(21-136)
720-74013-5	SITE-SOIL05	87	127
720-74013-6	SITE-SOIL06	76	86
720-74013-7	SITE-SOIL07	98	96 p
720-74013-9	SITE-SOIL09	114	63 p

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB1
Lab Sample ID	Client Sample ID	(57-122)	(21-136)
720-74013-8	SITE-SOIL08	66 p	111 p

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(45-132)	(42-146)
720-74013-1	SITE-SOIL01	86	72
720-74013-2	SITE-SOIL02	88	77
720-74013-3	SITE-SOIL03	88	75
720-74013-4	SITE-SOIL04	91	84
720-74013-5	SITE-SOIL05	87	82
720-74013-6	SITE-SOIL06	79	74
720-74013-7	SITE-SOIL07	82	87
720-74013-8	SITE-SOIL08	87	96
720-74013-9	SITE-SOIL09	77	75
LCS 720-208239/2-A	Lab Control Sample	84	98
MB 720-208239/1-A	Method Blank	75	88

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 720-208282/4
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			08/25/16 19:23	1
Acetone	ND		50		ug/Kg			08/25/16 19:23	1
Benzene	ND		5.0		ug/Kg			08/25/16 19:23	1
Dichlorobromomethane	ND		5.0		ug/Kg			08/25/16 19:23	1
Bromobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
Chlorobromomethane	ND		20		ug/Kg			08/25/16 19:23	1
Bromoform	ND		5.0		ug/Kg			08/25/16 19:23	1
Bromomethane	ND		10		ug/Kg			08/25/16 19:23	1
2-Butanone (MEK)	ND		50		ug/Kg			08/25/16 19:23	1
n-Butylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
sec-Butylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
tert-Butylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
Carbon disulfide	ND		5.0		ug/Kg			08/25/16 19:23	1
Carbon tetrachloride	ND		5.0		ug/Kg			08/25/16 19:23	1
Chlorobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
Chloroethane	ND		10		ug/Kg			08/25/16 19:23	1
Chloroform	ND		5.0		ug/Kg			08/25/16 19:23	1
Chloromethane	ND		10		ug/Kg			08/25/16 19:23	1
2-Chlorotoluene	ND		5.0		ug/Kg			08/25/16 19:23	1
4-Chlorotoluene	ND		5.0		ug/Kg			08/25/16 19:23	1
Chlorodibromomethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,3-Dichloropropane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,1-Dichloropropene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			08/25/16 19:23	1
Ethylene Dibromide	ND		5.0		ug/Kg			08/25/16 19:23	1
Dibromomethane	ND		10		ug/Kg			08/25/16 19:23	1
Dichlorodifluoromethane	ND		10		ug/Kg			08/25/16 19:23	1
1,1-Dichloroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2-Dichloroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,1-Dichloroethene	ND		5.0		ug/Kg			08/25/16 19:23	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			08/25/16 19:23	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2-Dichloropropane	ND		5.0		ug/Kg			08/25/16 19:23	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			08/25/16 19:23	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			08/25/16 19:23	1
Ethylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
Hexachlorobutadiene	ND		5.0		ug/Kg			08/25/16 19:23	1
2-Hexanone	ND		50		ug/Kg			08/25/16 19:23	1
Isopropylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
4-Isopropyltoluene	ND		5.0		ug/Kg			08/25/16 19:23	1
Methylene Chloride	ND		10		ug/Kg			08/25/16 19:23	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			08/25/16 19:23	1
Naphthalene	ND		10		ug/Kg			08/25/16 19:23	1
N-Propylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
Styrene	ND		5.0		ug/Kg			08/25/16 19:23	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-208282/4
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
Tetrachloroethene	ND		5.0		ug/Kg			08/25/16 19:23	1
Toluene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
Trichloroethene	ND		5.0		ug/Kg			08/25/16 19:23	1
Trichlorofluoromethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			08/25/16 19:23	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			08/25/16 19:23	1
Vinyl acetate	ND		20		ug/Kg			08/25/16 19:23	1
Vinyl chloride	ND		5.0		ug/Kg			08/25/16 19:23	1
Xylenes, Total	ND		10		ug/Kg			08/25/16 19:23	1
2,2-Dichloropropane	ND		5.0		ug/Kg			08/25/16 19:23	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			08/25/16 19:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*45 - 131*		*08/25/16 19:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*		*08/25/16 19:23*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*		*08/25/16 19:23*	*1*

Lab Sample ID: LCS 720-208282/5
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	60.4		ug/Kg		121	70 - 144
Acetone	250	239		ug/Kg		95	30 - 162
Benzene	50.0	55.4		ug/Kg		111	70 - 130
Dichlorobromomethane	50.0	57.0		ug/Kg		114	70 - 140
Bromobenzene	50.0	52.4		ug/Kg		105	70 - 130
Chlorobromomethane	50.0	52.0		ug/Kg		104	70 - 130
Bromoform	50.0	53.3		ug/Kg		107	59 - 158
Bromomethane	50.0	49.4		ug/Kg		99	59 - 132
2-Butanone (MEK)	250	241		ug/Kg		97	53 - 133
n-Butylbenzene	50.0	55.6		ug/Kg		111	70 - 142
sec-Butylbenzene	50.0	55.8		ug/Kg		112	70 - 136
tert-Butylbenzene	50.0	54.0		ug/Kg		108	70 - 130
Carbon disulfide	50.0	54.0		ug/Kg		108	60 - 140
Carbon tetrachloride	50.0	62.3		ug/Kg		125	70 - 142
Chlorobenzene	50.0	51.0		ug/Kg		102	70 - 130
Chloroethane	50.0	53.5		ug/Kg		107	65 - 130
Chloroform	50.0	54.2		ug/Kg		108	77 - 127

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-208282/5
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	57.6		ug/Kg		115	55 - 140
2-Chlorotoluene	50.0	56.4		ug/Kg		113	70 - 138
4-Chlorotoluene	50.0	56.1		ug/Kg		112	70 - 136
Chlorodibromomethane	50.0	54.1		ug/Kg		108	70 - 146
1,2-Dichlorobenzene	50.0	52.6		ug/Kg		105	70 - 130
1,3-Dichlorobenzene	50.0	51.2		ug/Kg		102	70 - 131
1,4-Dichlorobenzene	50.0	51.3		ug/Kg		103	70 - 130
1,3-Dichloropropane	50.0	54.4		ug/Kg		109	70 - 140
1,1-Dichloropropene	50.0	55.1		ug/Kg		110	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	53.4		ug/Kg		107	60 - 145
Ethylene Dibromide	50.0	55.4		ug/Kg		111	70 - 140
Dibromomethane	50.0	55.9		ug/Kg		112	70 - 139
Dichlorodifluoromethane	50.0	53.3		ug/Kg		107	37 - 158
1,1-Dichloroethane	50.0	55.9		ug/Kg		112	70 - 130
1,2-Dichloroethane	50.0	57.6		ug/Kg		115	70 - 130
1,1-Dichloroethene	50.0	49.5		ug/Kg		99	74 - 122
cis-1,2-Dichloroethene	50.0	57.5		ug/Kg		115	70 - 138
trans-1,2-Dichloroethene	50.0	54.4		ug/Kg		109	67 - 130
1,2-Dichloropropane	50.0	58.3		ug/Kg		117	73 - 127
cis-1,3-Dichloropropene	50.0	58.6		ug/Kg		117	68 - 147
trans-1,3-Dichloropropene	50.0	57.2		ug/Kg		114	70 - 155
Ethylbenzene	50.0	53.0		ug/Kg		106	80 - 137
Hexachlorobutadiene	50.0	48.7		ug/Kg		97	70 - 132
2-Hexanone	250	283		ug/Kg		113	44 - 133
Isopropylbenzene	50.0	53.5		ug/Kg		107	70 - 130
4-Isopropyltoluene	50.0	53.5		ug/Kg		107	70 - 133
Methylene Chloride	50.0	54.7		ug/Kg		109	70 - 134
4-Methyl-2-pentanone (MIBK)	250	289		ug/Kg		115	60 - 160
Naphthalene	50.0	53.5		ug/Kg		107	60 - 147
N-Propylbenzene	50.0	58.1		ug/Kg		116	70 - 130
Styrene	50.0	52.4		ug/Kg		105	70 - 130
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/Kg		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	58.0		ug/Kg		116	70 - 146
Tetrachloroethene	50.0	49.6		ug/Kg		99	70 - 132
Toluene	50.0	52.2		ug/Kg		104	75 - 120
1,2,3-Trichlorobenzene	50.0	49.2		ug/Kg		98	60 - 140
1,2,4-Trichlorobenzene	50.0	50.3		ug/Kg		101	60 - 140
1,1,1-Trichloroethane	50.0	60.2		ug/Kg		120	70 - 130
1,1,2-Trichloroethane	50.0	56.4		ug/Kg		113	70 - 130
Trichloroethene	50.0	50.9		ug/Kg		102	70 - 133
Trichlorofluoromethane	50.0	57.0		ug/Kg		114	60 - 140
1,2,3-Trichloropropane	50.0	58.4		ug/Kg		117	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	49.8		ug/Kg		100	60 - 140
1,2,4-Trimethylbenzene	50.0	55.1		ug/Kg		110	70 - 130
1,3,5-Trimethylbenzene	50.0	55.8		ug/Kg		112	70 - 131
Vinyl acetate	50.0	78.4		ug/Kg		157	38 - 176
Vinyl chloride	50.0	49.0		ug/Kg		98	58 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-208282/5
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
m-Xylene & p-Xylene	50.0	53.0		ug/Kg		106	70 - 146
o-Xylene	50.0	52.5		ug/Kg		105	70 - 140
2,2-Dichloropropane	50.0	69.5		ug/Kg		139	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCS 720-208282/7
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1060		ug/Kg		106	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Lab Sample ID: LCSD 720-208282/6
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	55.2		ug/Kg		110	70 - 144	9	20
Acetone	250	220		ug/Kg		88	30 - 162	8	30
Benzene	50.0	52.3		ug/Kg		105	70 - 130	6	20
Dichlorobromomethane	50.0	53.5		ug/Kg		107	70 - 140	6	20
Bromobenzene	50.0	49.5		ug/Kg		99	70 - 130	6	20
Chlorobromomethane	50.0	48.4		ug/Kg		97	70 - 130	7	20
Bromoform	50.0	49.5		ug/Kg		99	59 - 158	7	20
Bromomethane	50.0	45.9		ug/Kg		92	59 - 132	7	20
2-Butanone (MEK)	250	212		ug/Kg		85	53 - 133	13	20
n-Butylbenzene	50.0	54.0		ug/Kg		108	70 - 142	3	20
sec-Butylbenzene	50.0	53.7		ug/Kg		107	70 - 136	4	20
tert-Butylbenzene	50.0	52.5		ug/Kg		105	70 - 130	3	20
Carbon disulfide	50.0	51.2		ug/Kg		102	60 - 140	5	20
Carbon tetrachloride	50.0	59.6		ug/Kg		119	70 - 142	5	20
Chlorobenzene	50.0	48.8		ug/Kg		98	70 - 130	4	20
Chloroethane	50.0	49.7		ug/Kg		99	65 - 130	7	20
Chloroform	50.0	51.0		ug/Kg		102	77 - 127	6	20
Chloromethane	50.0	53.7		ug/Kg		107	55 - 140	7	20
2-Chlorotoluene	50.0	54.3		ug/Kg		109	70 - 138	4	20
4-Chlorotoluene	50.0	54.0		ug/Kg		108	70 - 136	4	20
Chlorodibromomethane	50.0	50.0		ug/Kg		100	70 - 146	8	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-208282/6
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichlorobenzene	50.0	50.7		ug/Kg		101	70 - 130	4	20
1,3-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 131	4	20
1,4-Dichlorobenzene	50.0	49.3		ug/Kg		99	70 - 130	4	20
1,3-Dichloropropane	50.0	50.1		ug/Kg		100	70 - 140	8	20
1,1-Dichloropropene	50.0	52.5		ug/Kg		105	70 - 130	5	20
1,2-Dibromo-3-Chloropropane	50.0	48.7		ug/Kg		97	60 - 145	9	20
Ethylene Dibromide	50.0	51.3		ug/Kg		103	70 - 140	8	20
Dibromomethane	50.0	51.3		ug/Kg		103	70 - 139	9	20
Dichlorodifluoromethane	50.0	48.2		ug/Kg		96	37 - 158	10	20
1,1-Dichloroethane	50.0	53.1		ug/Kg		106	70 - 130	5	20
1,2-Dichloroethane	50.0	53.0		ug/Kg		106	70 - 130	8	20
1,1-Dichloroethene	50.0	46.8		ug/Kg		94	74 - 122	6	20
cis-1,2-Dichloroethene	50.0	53.8		ug/Kg		108	70 - 138	7	20
trans-1,2-Dichloroethene	50.0	51.5		ug/Kg		103	67 - 130	5	20
1,2-Dichloropropane	50.0	55.2		ug/Kg		110	73 - 127	5	20
cis-1,3-Dichloropropene	50.0	54.0		ug/Kg		108	68 - 147	8	20
trans-1,3-Dichloropropene	50.0	52.7		ug/Kg		105	70 - 155	8	20
Ethylbenzene	50.0	51.3		ug/Kg		103	80 - 137	3	20
Hexachlorobutadiene	50.0	47.6		ug/Kg		95	70 - 132	2	20
2-Hexanone	250	247		ug/Kg		99	44 - 133	14	20
Isopropylbenzene	50.0	52.0		ug/Kg		104	70 - 130	3	20
4-Isopropyltoluene	50.0	51.9		ug/Kg		104	70 - 133	3	20
Methylene Chloride	50.0	51.5		ug/Kg		103	70 - 134	6	20
4-Methyl-2-pentanone (MIBK)	250	257		ug/Kg		103	60 - 160	12	20
Naphthalene	50.0	50.6		ug/Kg		101	60 - 147	6	20
N-Propylbenzene	50.0	56.0		ug/Kg		112	70 - 130	4	20
Styrene	50.0	50.3		ug/Kg		101	70 - 130	4	20
1,1,1,2-Tetrachloroethane	50.0	49.9		ug/Kg		100	70 - 130	4	20
1,1,2,2-Tetrachloroethane	50.0	52.9		ug/Kg		106	70 - 146	9	20
Tetrachloroethene	50.0	47.3		ug/Kg		95	70 - 132	5	20
Toluene	50.0	50.5		ug/Kg		101	75 - 120	3	20
1,2,3-Trichlorobenzene	50.0	47.4		ug/Kg		95	60 - 140	4	20
1,2,4-Trichlorobenzene	50.0	48.5		ug/Kg		97	60 - 140	3	20
1,1,1-Trichloroethane	50.0	57.1		ug/Kg		114	70 - 130	5	20
1,1,2-Trichloroethane	50.0	51.7		ug/Kg		103	70 - 130	9	20
Trichloroethene	50.0	48.1		ug/Kg		96	70 - 133	6	20
Trichlorofluoromethane	50.0	53.6		ug/Kg		107	60 - 140	6	20
1,2,3-Trichloropropane	50.0	52.7		ug/Kg		105	70 - 146	10	20
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	47.4		ug/Kg		95	60 - 140	5	20
1,2,4-Trimethylbenzene	50.0	53.2		ug/Kg		106	70 - 130	4	20
1,3,5-Trimethylbenzene	50.0	53.7		ug/Kg		107	70 - 131	4	20
Vinyl acetate	50.0	70.9		ug/Kg		142	38 - 176	10	20
Vinyl chloride	50.0	46.2		ug/Kg		92	58 - 125	6	20
m-Xylene & p-Xylene	50.0	51.2		ug/Kg		102	70 - 146	3	20
o-Xylene	50.0	50.5		ug/Kg		101	70 - 140	4	20
2,2-Dichloropropane	50.0	66.3		ug/Kg		133	70 - 162	5	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-208282/6
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCSD 720-208282/8
Matrix: Solid
Analysis Batch: 208282

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12			1000	1060		ug/Kg		106	61 - 128	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*103*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: MB 720-208283/4
Matrix: Solid
Analysis Batch: 208283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			08/25/16 19:41	1
Acetone	ND		50		ug/Kg			08/25/16 19:41	1
Benzene	ND		5.0		ug/Kg			08/25/16 19:41	1
Dichlorobromomethane	ND		5.0		ug/Kg			08/25/16 19:41	1
Bromobenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
Chlorobromomethane	ND		20		ug/Kg			08/25/16 19:41	1
Bromoform	ND		5.0		ug/Kg			08/25/16 19:41	1
Bromomethane	ND		10		ug/Kg			08/25/16 19:41	1
2-Butanone (MEK)	ND		50		ug/Kg			08/25/16 19:41	1
n-Butylbenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
sec-Butylbenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
tert-Butylbenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
Carbon disulfide	ND		5.0		ug/Kg			08/25/16 19:41	1
Carbon tetrachloride	ND		5.0		ug/Kg			08/25/16 19:41	1
Chlorobenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
Chloroethane	ND		10		ug/Kg			08/25/16 19:41	1
Chloroform	ND		5.0		ug/Kg			08/25/16 19:41	1
Chloromethane	ND		10		ug/Kg			08/25/16 19:41	1
2-Chlorotoluene	ND		5.0		ug/Kg			08/25/16 19:41	1
4-Chlorotoluene	ND		5.0		ug/Kg			08/25/16 19:41	1
Chlorodibromomethane	ND		5.0		ug/Kg			08/25/16 19:41	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
1,3-Dichloropropane	ND		5.0		ug/Kg			08/25/16 19:41	1
1,1-Dichloropropene	ND		5.0		ug/Kg			08/25/16 19:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-208283/4
Matrix: Solid
Analysis Batch: 208283

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			08/25/16 19:41	1
Ethylene Dibromide	ND		5.0		ug/Kg			08/25/16 19:41	1
Dibromomethane	ND		10		ug/Kg			08/25/16 19:41	1
Dichlorodifluoromethane	ND		10		ug/Kg			08/25/16 19:41	1
1,1-Dichloroethane	ND		5.0		ug/Kg			08/25/16 19:41	1
1,2-Dichloroethane	ND		5.0		ug/Kg			08/25/16 19:41	1
1,1-Dichloroethene	ND		5.0		ug/Kg			08/25/16 19:41	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			08/25/16 19:41	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			08/25/16 19:41	1
1,2-Dichloropropane	ND		5.0		ug/Kg			08/25/16 19:41	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			08/25/16 19:41	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			08/25/16 19:41	1
Ethylbenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
Hexachlorobutadiene	ND		5.0		ug/Kg			08/25/16 19:41	1
2-Hexanone	ND		50		ug/Kg			08/25/16 19:41	1
Isopropylbenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
4-Isopropyltoluene	ND		5.0		ug/Kg			08/25/16 19:41	1
Methylene Chloride	ND		10		ug/Kg			08/25/16 19:41	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			08/25/16 19:41	1
Naphthalene	ND		10		ug/Kg			08/25/16 19:41	1
N-Propylbenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
Styrene	ND		5.0		ug/Kg			08/25/16 19:41	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			08/25/16 19:41	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			08/25/16 19:41	1
Tetrachloroethene	ND		5.0		ug/Kg			08/25/16 19:41	1
Toluene	ND		5.0		ug/Kg			08/25/16 19:41	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			08/25/16 19:41	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			08/25/16 19:41	1
Trichloroethene	ND		5.0		ug/Kg			08/25/16 19:41	1
Trichlorofluoromethane	ND		5.0		ug/Kg			08/25/16 19:41	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			08/25/16 19:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			08/25/16 19:41	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			08/25/16 19:41	1
Vinyl acetate	ND		20		ug/Kg			08/25/16 19:41	1
Vinyl chloride	ND		5.0		ug/Kg			08/25/16 19:41	1
Xylenes, Total	ND		10		ug/Kg			08/25/16 19:41	1
2,2-Dichloropropane	ND		5.0		ug/Kg			08/25/16 19:41	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			08/25/16 19:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*45 - 131*		*08/25/16 19:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*		*08/25/16 19:41*	*1*
Toluene-d8 (Surr)	*103*		*58 - 140*		*08/25/16 19:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-208283/5
Matrix: Solid
Analysis Batch: 208283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	53.7		ug/Kg		107	70 - 144
Acetone	250	286		ug/Kg		114	30 - 162
Benzene	50.0	52.1		ug/Kg		104	70 - 130
Dichlorobromomethane	50.0	54.6		ug/Kg		109	70 - 140
Bromobenzene	50.0	51.4		ug/Kg		103	70 - 130
Chlorobromomethane	50.0	51.6		ug/Kg		103	70 - 130
Bromoform	50.0	56.5		ug/Kg		113	59 - 158
Bromomethane	50.0	48.0		ug/Kg		96	59 - 132
2-Butanone (MEK)	250	316		ug/Kg		126	53 - 133
n-Butylbenzene	50.0	51.2		ug/Kg		102	70 - 142
sec-Butylbenzene	50.0	49.1		ug/Kg		98	70 - 136
tert-Butylbenzene	50.0	48.7		ug/Kg		97	70 - 130
Carbon disulfide	50.0	49.7		ug/Kg		99	60 - 140
Carbon tetrachloride	50.0	53.4		ug/Kg		107	70 - 142
Chlorobenzene	50.0	50.4		ug/Kg		101	70 - 130
Chloroethane	50.0	49.4		ug/Kg		99	65 - 130
Chloroform	50.0	51.3		ug/Kg		103	77 - 127
Chloromethane	50.0	47.2		ug/Kg		94	55 - 140
2-Chlorotoluene	50.0	49.5		ug/Kg		99	70 - 138
4-Chlorotoluene	50.0	50.9		ug/Kg		102	70 - 136
Chlorodibromomethane	50.0	51.9		ug/Kg		104	70 - 146
1,2-Dichlorobenzene	50.0	52.8		ug/Kg		106	70 - 130
1,3-Dichlorobenzene	50.0	49.9		ug/Kg		100	70 - 131
1,4-Dichlorobenzene	50.0	49.7		ug/Kg		99	70 - 130
1,3-Dichloropropane	50.0	52.5		ug/Kg		105	70 - 140
1,1-Dichloropropene	50.0	50.4		ug/Kg		101	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	52.2		ug/Kg		104	60 - 145
Ethylene Dibromide	50.0	55.3		ug/Kg		111	70 - 140
Dibromomethane	50.0	52.8		ug/Kg		106	70 - 139
Dichlorodifluoromethane	50.0	38.7		ug/Kg		77	37 - 158
1,1-Dichloroethane	50.0	49.7		ug/Kg		99	70 - 130
1,2-Dichloroethane	50.0	51.3		ug/Kg		103	70 - 130
1,1-Dichloroethene	50.0	48.9		ug/Kg		98	74 - 122
cis-1,2-Dichloroethene	50.0	51.3		ug/Kg		103	70 - 138
trans-1,2-Dichloroethene	50.0	50.5		ug/Kg		101	67 - 130
1,2-Dichloropropane	50.0	53.3		ug/Kg		107	73 - 127
cis-1,3-Dichloropropene	50.0	58.4		ug/Kg		117	68 - 147
trans-1,3-Dichloropropene	50.0	53.1		ug/Kg		106	70 - 155
Ethylbenzene	50.0	49.6		ug/Kg		99	80 - 137
Hexachlorobutadiene	50.0	52.3		ug/Kg		105	70 - 132
2-Hexanone	250	323		ug/Kg		129	44 - 133
Isopropylbenzene	50.0	50.7		ug/Kg		101	70 - 130
4-Isopropyltoluene	50.0	49.5		ug/Kg		99	70 - 133
Methylene Chloride	50.0	48.9		ug/Kg		98	70 - 134
4-Methyl-2-pentanone (MIBK)	250	324		ug/Kg		129	60 - 160
Naphthalene	50.0	56.0		ug/Kg		112	60 - 147
N-Propylbenzene	50.0	50.2		ug/Kg		100	70 - 130
Styrene	50.0	54.7		ug/Kg		109	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-208283/5
Matrix: Solid
Analysis Batch: 208283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	56.2		ug/Kg		112	70 - 130
1,1,2,2-Tetrachloroethane	50.0	57.6		ug/Kg		115	70 - 146
Tetrachloroethene	50.0	51.3		ug/Kg		103	70 - 132
Toluene	50.0	50.4		ug/Kg		101	75 - 120
1,2,3-Trichlorobenzene	50.0	52.6		ug/Kg		105	60 - 140
1,2,4-Trichlorobenzene	50.0	54.3		ug/Kg		109	60 - 140
1,1,1-Trichloroethane	50.0	49.8		ug/Kg		100	70 - 130
1,1,2-Trichloroethane	50.0	53.7		ug/Kg		107	70 - 130
Trichloroethene	50.0	50.8		ug/Kg		102	70 - 133
Trichlorofluoromethane	50.0	47.9		ug/Kg		96	60 - 140
1,2,3-Trichloropropane	50.0	56.1		ug/Kg		112	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.0		ug/Kg		100	60 - 140
1,2,4-Trimethylbenzene	50.0	50.1		ug/Kg		100	70 - 130
1,3,5-Trimethylbenzene	50.0	50.3		ug/Kg		101	70 - 131
Vinyl acetate	50.0	60.1		ug/Kg		120	38 - 176
Vinyl chloride	50.0	49.0		ug/Kg		98	58 - 125
m-Xylene & p-Xylene	50.0	50.5		ug/Kg		101	70 - 146
o-Xylene	50.0	49.6		ug/Kg		99	70 - 140
2,2-Dichloropropane	50.0	54.1		ug/Kg		108	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*97*		*60 - 140*
Toluene-d8 (Surr)	*103*		*58 - 140*

Lab Sample ID: LCS 720-208283/7
Matrix: Solid
Analysis Batch: 208283

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO) -C5-C12	1000	1050		ug/Kg		105	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*100*		*60 - 140*
Toluene-d8 (Surr)	*103*		*58 - 140*

Lab Sample ID: LCSD 720-208283/6
Matrix: Solid
Analysis Batch: 208283

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether	50.0	52.7		ug/Kg		105	70 - 144	2	20
Acetone	250	260		ug/Kg		104	30 - 162	9	30
Benzene	50.0	51.7		ug/Kg		103	70 - 130	1	20
Dichlorobromomethane	50.0	55.4		ug/Kg		111	70 - 140	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-208283/6
Matrix: Solid
Analysis Batch: 208283

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	50.5		ug/Kg		101	70 - 130	2	20
Chlorobromomethane	50.0	50.8		ug/Kg		102	70 - 130	2	20
Bromoform	50.0	56.3		ug/Kg		113	59 - 158	0	20
Bromomethane	50.0	48.2		ug/Kg		96	59 - 132	0	20
2-Butanone (MEK)	250	306		ug/Kg		122	53 - 133	3	20
n-Butylbenzene	50.0	50.9		ug/Kg		102	70 - 142	1	20
sec-Butylbenzene	50.0	48.4		ug/Kg		97	70 - 136	1	20
tert-Butylbenzene	50.0	48.3		ug/Kg		97	70 - 130	1	20
Carbon disulfide	50.0	50.2		ug/Kg		100	60 - 140	1	20
Carbon tetrachloride	50.0	53.9		ug/Kg		108	70 - 142	1	20
Chlorobenzene	50.0	50.2		ug/Kg		100	70 - 130	0	20
Chloroethane	50.0	49.5		ug/Kg		99	65 - 130	0	20
Chloroform	50.0	50.9		ug/Kg		102	77 - 127	1	20
Chloromethane	50.0	45.6		ug/Kg		91	55 - 140	4	20
2-Chlorotoluene	50.0	48.6		ug/Kg		97	70 - 138	2	20
4-Chlorotoluene	50.0	50.2		ug/Kg		100	70 - 136	1	20
Chlorodibromomethane	50.0	51.1		ug/Kg		102	70 - 146	2	20
1,2-Dichlorobenzene	50.0	51.9		ug/Kg		104	70 - 130	2	20
1,3-Dichlorobenzene	50.0	48.9		ug/Kg		98	70 - 131	2	20
1,4-Dichlorobenzene	50.0	49.0		ug/Kg		98	70 - 130	1	20
1,3-Dichloropropane	50.0	51.2		ug/Kg		102	70 - 140	2	20
1,1-Dichloropropene	50.0	49.7		ug/Kg		99	70 - 130	1	20
1,2-Dibromo-3-Chloropropane	50.0	51.3		ug/Kg		103	60 - 145	2	20
Ethylene Dibromide	50.0	54.0		ug/Kg		108	70 - 140	2	20
Dibromomethane	50.0	52.0		ug/Kg		104	70 - 139	1	20
Dichlorodifluoromethane	50.0	38.5		ug/Kg		77	37 - 158	1	20
1,1-Dichloroethane	50.0	49.2		ug/Kg		98	70 - 130	1	20
1,2-Dichloroethane	50.0	49.9		ug/Kg		100	70 - 130	3	20
1,1-Dichloroethene	50.0	48.8		ug/Kg		98	74 - 122	0	20
cis-1,2-Dichloroethene	50.0	50.4		ug/Kg		101	70 - 138	2	20
trans-1,2-Dichloroethene	50.0	50.0		ug/Kg		100	67 - 130	1	20
1,2-Dichloropropane	50.0	52.6		ug/Kg		105	73 - 127	1	20
cis-1,3-Dichloropropene	50.0	57.2		ug/Kg		114	68 - 147	2	20
trans-1,3-Dichloropropene	50.0	52.3		ug/Kg		105	70 - 155	1	20
Ethylbenzene	50.0	49.5		ug/Kg		99	80 - 137	0	20
Hexachlorobutadiene	50.0	52.0		ug/Kg		104	70 - 132	1	20
2-Hexanone	250	312		ug/Kg		125	44 - 133	4	20
Isopropylbenzene	50.0	50.7		ug/Kg		101	70 - 130	0	20
4-Isopropyltoluene	50.0	49.1		ug/Kg		98	70 - 133	1	20
Methylene Chloride	50.0	48.4		ug/Kg		97	70 - 134	1	20
4-Methyl-2-pentanone (MIBK)	250	313		ug/Kg		125	60 - 160	3	20
Naphthalene	50.0	55.4		ug/Kg		111	60 - 147	1	20
N-Propylbenzene	50.0	49.4		ug/Kg		99	70 - 130	2	20
Styrene	50.0	54.1		ug/Kg		108	70 - 130	1	20
1,1,1,2-Tetrachloroethane	50.0	56.4		ug/Kg		113	70 - 130	0	20
1,1,2,2-Tetrachloroethane	50.0	55.6		ug/Kg		111	70 - 146	3	20
Tetrachloroethene	50.0	50.8		ug/Kg		102	70 - 132	1	20
Toluene	50.0	50.1		ug/Kg		100	75 - 120	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-208283/6
Matrix: Solid
Analysis Batch: 208283

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,3-Trichlorobenzene	50.0	52.4		ug/Kg		105	60 - 140	0	20
1,2,4-Trichlorobenzene	50.0	53.8		ug/Kg		108	60 - 140	1	20
1,1,1-Trichloroethane	50.0	50.1		ug/Kg		100	70 - 130	1	20
1,1,2-Trichloroethane	50.0	52.0		ug/Kg		104	70 - 130	3	20
Trichloroethene	50.0	50.1		ug/Kg		100	70 - 133	1	20
Trichlorofluoromethane	50.0	47.8		ug/Kg		96	60 - 140	0	20
1,2,3-Trichloropropane	50.0	53.9		ug/Kg		108	70 - 146	4	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.5		ug/Kg		101	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	49.4		ug/Kg		99	70 - 130	2	20
1,3,5-Trimethylbenzene	50.0	49.6		ug/Kg		99	70 - 131	1	20
Vinyl acetate	50.0	59.0		ug/Kg		118	38 - 176	2	20
Vinyl chloride	50.0	49.2		ug/Kg		98	58 - 125	0	20
m-Xylene & p-Xylene	50.0	50.2		ug/Kg		100	70 - 146	1	20
o-Xylene	50.0	49.2		ug/Kg		98	70 - 140	1	20
2,2-Dichloropropane	50.0	56.1		ug/Kg		112	70 - 162	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*96*		*60 - 140*
Toluene-d8 (Surr)	*103*		*58 - 140*

Lab Sample ID: LCSD 720-208283/8
Matrix: Solid
Analysis Batch: 208283

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	1060		ug/Kg		106	61 - 128	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*101*		*60 - 140*
Toluene-d8 (Surr)	*104*		*58 - 140*

Lab Sample ID: MB 720-208362/4
Matrix: Solid
Analysis Batch: 208362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		5.0		ug/Kg			08/27/16 09:57	1
Acetone	ND		50		ug/Kg			08/27/16 09:57	1
Benzene	ND		5.0		ug/Kg			08/27/16 09:57	1
Dichlorobromomethane	ND		5.0		ug/Kg			08/27/16 09:57	1
Bromobenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
Chlorobromomethane	ND		20		ug/Kg			08/27/16 09:57	1
Bromoform	ND		5.0		ug/Kg			08/27/16 09:57	1
Bromomethane	ND		10		ug/Kg			08/27/16 09:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-208362/4
Matrix: Solid
Analysis Batch: 208362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	ND		50		ug/Kg			08/27/16 09:57	1
n-Butylbenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
sec-Butylbenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
tert-Butylbenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
Carbon disulfide	ND		5.0		ug/Kg			08/27/16 09:57	1
Carbon tetrachloride	ND		5.0		ug/Kg			08/27/16 09:57	1
Chlorobenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
Chloroethane	ND		10		ug/Kg			08/27/16 09:57	1
Chloroform	ND		5.0		ug/Kg			08/27/16 09:57	1
Chloromethane	ND		10		ug/Kg			08/27/16 09:57	1
2-Chlorotoluene	ND		5.0		ug/Kg			08/27/16 09:57	1
4-Chlorotoluene	ND		5.0		ug/Kg			08/27/16 09:57	1
Chlorodibromomethane	ND		5.0		ug/Kg			08/27/16 09:57	1
1,2-Dichlorobenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
1,3-Dichlorobenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
1,4-Dichlorobenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
1,3-Dichloropropane	ND		5.0		ug/Kg			08/27/16 09:57	1
1,1-Dichloropropene	ND		5.0		ug/Kg			08/27/16 09:57	1
1,2-Dibromo-3-Chloropropane	ND		10		ug/Kg			08/27/16 09:57	1
Ethylene Dibromide	ND		5.0		ug/Kg			08/27/16 09:57	1
Dibromomethane	ND		10		ug/Kg			08/27/16 09:57	1
Dichlorodifluoromethane	ND		10		ug/Kg			08/27/16 09:57	1
1,1-Dichloroethane	ND		5.0		ug/Kg			08/27/16 09:57	1
1,2-Dichloroethane	ND		5.0		ug/Kg			08/27/16 09:57	1
1,1-Dichloroethene	ND		5.0		ug/Kg			08/27/16 09:57	1
cis-1,2-Dichloroethene	ND		5.0		ug/Kg			08/27/16 09:57	1
trans-1,2-Dichloroethene	ND		5.0		ug/Kg			08/27/16 09:57	1
1,2-Dichloropropane	ND		5.0		ug/Kg			08/27/16 09:57	1
cis-1,3-Dichloropropene	ND		5.0		ug/Kg			08/27/16 09:57	1
trans-1,3-Dichloropropene	ND		5.0		ug/Kg			08/27/16 09:57	1
Ethylbenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
Hexachlorobutadiene	ND		5.0		ug/Kg			08/27/16 09:57	1
2-Hexanone	ND		50		ug/Kg			08/27/16 09:57	1
Isopropylbenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
4-Isopropyltoluene	ND		5.0		ug/Kg			08/27/16 09:57	1
Methylene Chloride	ND		10		ug/Kg			08/27/16 09:57	1
4-Methyl-2-pentanone (MIBK)	ND		50		ug/Kg			08/27/16 09:57	1
Naphthalene	ND		10		ug/Kg			08/27/16 09:57	1
N-Propylbenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
Styrene	ND		5.0		ug/Kg			08/27/16 09:57	1
1,1,1,2-Tetrachloroethane	ND		5.0		ug/Kg			08/27/16 09:57	1
1,1,2,2-Tetrachloroethane	ND		5.0		ug/Kg			08/27/16 09:57	1
Tetrachloroethene	ND		5.0		ug/Kg			08/27/16 09:57	1
Toluene	ND		5.0		ug/Kg			08/27/16 09:57	1
1,2,3-Trichlorobenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
1,2,4-Trichlorobenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
1,1,1-Trichloroethane	ND		5.0		ug/Kg			08/27/16 09:57	1
1,1,2-Trichloroethane	ND		5.0		ug/Kg			08/27/16 09:57	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 720-208362/4
Matrix: Solid
Analysis Batch: 208362

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		5.0		ug/Kg			08/27/16 09:57	1
Trichlorofluoromethane	ND		5.0		ug/Kg			08/27/16 09:57	1
1,2,3-Trichloropropane	ND		5.0		ug/Kg			08/27/16 09:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0		ug/Kg			08/27/16 09:57	1
1,2,4-Trimethylbenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
1,3,5-Trimethylbenzene	ND		5.0		ug/Kg			08/27/16 09:57	1
Vinyl acetate	ND		20		ug/Kg			08/27/16 09:57	1
Vinyl chloride	ND		5.0		ug/Kg			08/27/16 09:57	1
Xylenes, Total	ND		10		ug/Kg			08/27/16 09:57	1
2,2-Dichloropropane	ND		5.0		ug/Kg			08/27/16 09:57	1
Gasoline Range Organics (GRO) -C5-C12	ND		250		ug/Kg			08/27/16 09:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*45 - 131*		*08/27/16 09:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*		*08/27/16 09:57*	*1*
Toluene-d8 (Surr)	*97*		*58 - 140*		*08/27/16 09:57*	*1*

Lab Sample ID: LCS 720-208362/5
Matrix: Solid
Analysis Batch: 208362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methyl tert-butyl ether	50.0	57.0		ug/Kg		114	70 - 144
Acetone	250	221		ug/Kg		88	30 - 162
Benzene	50.0	50.9		ug/Kg		102	70 - 130
Dichlorobromomethane	50.0	54.1		ug/Kg		108	70 - 140
Bromobenzene	50.0	46.9		ug/Kg		94	70 - 130
Chlorobromomethane	50.0	48.5		ug/Kg		97	70 - 130
Bromoform	50.0	51.0		ug/Kg		102	59 - 158
Bromomethane	50.0	40.8		ug/Kg		82	59 - 132
2-Butanone (MEK)	250	234		ug/Kg		94	53 - 133
n-Butylbenzene	50.0	51.4		ug/Kg		103	70 - 142
sec-Butylbenzene	50.0	50.1		ug/Kg		100	70 - 136
tert-Butylbenzene	50.0	48.4		ug/Kg		97	70 - 130
Carbon disulfide	50.0	49.0		ug/Kg		98	60 - 140
Carbon tetrachloride	50.0	58.1		ug/Kg		116	70 - 142
Chlorobenzene	50.0	47.4		ug/Kg		95	70 - 130
Chloroethane	50.0	45.0		ug/Kg		90	65 - 130
Chloroform	50.0	50.1		ug/Kg		100	77 - 127
Chloromethane	50.0	49.3		ug/Kg		99	55 - 140
2-Chlorotoluene	50.0	50.1		ug/Kg		100	70 - 138
4-Chlorotoluene	50.0	50.2		ug/Kg		100	70 - 136
Chlorodibromomethane	50.0	51.6		ug/Kg		103	70 - 146
1,2-Dichlorobenzene	50.0	48.4		ug/Kg		97	70 - 130
1,3-Dichlorobenzene	50.0	47.4		ug/Kg		95	70 - 131
1,4-Dichlorobenzene	50.0	47.4		ug/Kg		95	70 - 130
1,3-Dichloropropane	50.0	51.5		ug/Kg		103	70 - 140

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 720-208362/5
Matrix: Solid
Analysis Batch: 208362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	50.0	51.2		ug/Kg		102	70 - 130
1,2-Dibromo-3-Chloropropane	50.0	49.1		ug/Kg		98	60 - 145
Ethylene Dibromide	50.0	52.5		ug/Kg		105	70 - 140
Dibromomethane	50.0	52.3		ug/Kg		105	70 - 139
Dichlorodifluoromethane	50.0	38.3		ug/Kg		77	37 - 158
1,1-Dichloroethane	50.0	51.1		ug/Kg		102	70 - 130
1,2-Dichloroethane	50.0	54.7		ug/Kg		109	70 - 130
1,1-Dichloroethene	50.0	46.1		ug/Kg		92	74 - 122
cis-1,2-Dichloroethene	50.0	53.7		ug/Kg		107	70 - 138
trans-1,2-Dichloroethene	50.0	49.2		ug/Kg		98	67 - 130
1,2-Dichloropropane	50.0	54.8		ug/Kg		110	73 - 127
cis-1,3-Dichloropropene	50.0	54.7		ug/Kg		109	68 - 147
trans-1,3-Dichloropropene	50.0	54.3		ug/Kg		109	70 - 155
Ethylbenzene	50.0	49.2		ug/Kg		98	80 - 137
Hexachlorobutadiene	50.0	45.4		ug/Kg		91	70 - 132
2-Hexanone	250	275		ug/Kg		110	44 - 133
Isopropylbenzene	50.0	50.0		ug/Kg		100	70 - 130
4-Isopropyltoluene	50.0	48.4		ug/Kg		97	70 - 133
Methylene Chloride	50.0	49.5		ug/Kg		99	70 - 134
4-Methyl-2-pentanone (MIBK)	250	282		ug/Kg		113	60 - 160
Naphthalene	50.0	49.4		ug/Kg		99	60 - 147
N-Propylbenzene	50.0	51.8		ug/Kg		104	70 - 130
Styrene	50.0	49.1		ug/Kg		98	70 - 130
1,1,1,2-Tetrachloroethane	50.0	48.2		ug/Kg		96	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.2		ug/Kg		106	70 - 146
Tetrachloroethene	50.0	46.5		ug/Kg		93	70 - 132
Toluene	50.0	48.3		ug/Kg		97	75 - 120
1,2,3-Trichlorobenzene	50.0	46.3		ug/Kg		93	60 - 140
1,2,4-Trichlorobenzene	50.0	47.8		ug/Kg		96	60 - 140
1,1,1-Trichloroethane	50.0	53.6		ug/Kg		107	70 - 130
1,1,2-Trichloroethane	50.0	53.7		ug/Kg		107	70 - 130
Trichloroethene	50.0	47.4		ug/Kg		95	70 - 133
Trichlorofluoromethane	50.0	49.7		ug/Kg		99	60 - 140
1,2,3-Trichloropropane	50.0	52.1		ug/Kg		104	70 - 146
1,1,2-Trichloro-1,2,2-trifluoroetha ne	50.0	45.9		ug/Kg		92	60 - 140
1,2,4-Trimethylbenzene	50.0	49.6		ug/Kg		99	70 - 130
1,3,5-Trimethylbenzene	50.0	50.3		ug/Kg		101	70 - 131
Vinyl acetate	50.0	71.9		ug/Kg		144	38 - 176
Vinyl chloride	50.0	40.3		ug/Kg		81	58 - 125
m-Xylene & p-Xylene	50.0	49.3		ug/Kg		99	70 - 146
o-Xylene	50.0	48.9		ug/Kg		98	70 - 140
2,2-Dichloropropane	50.0	55.9		ug/Kg		112	70 - 162

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*92*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*106*		*60 - 140*
Toluene-d8 (Surr)	*99*		*58 - 140*

Lab Sample ID: LCS 720-208362/7
Matrix: Solid
Analysis Batch: 208362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO) -C5-C12			1000	1080		ug/Kg		108	61 - 128		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*104*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCSD 720-208362/6
Matrix: Solid
Analysis Batch: 208362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methyl tert-butyl ether			50.0	56.0		ug/Kg		112	70 - 144	2	20
Acetone			250	223		ug/Kg		89	30 - 162	1	30
Benzene			50.0	50.9		ug/Kg		102	70 - 130	0	20
Dichlorobromomethane			50.0	52.1		ug/Kg		104	70 - 140	4	20
Bromobenzene			50.0	47.7		ug/Kg		95	70 - 130	2	20
Chlorobromomethane			50.0	47.8		ug/Kg		96	70 - 130	1	20
Bromoform			50.0	50.6		ug/Kg		101	59 - 158	1	20
Bromomethane			50.0	40.8		ug/Kg		82	59 - 132	0	20
2-Butanone (MEK)			250	223		ug/Kg		89	53 - 133	5	20
n-Butylbenzene			50.0	52.3		ug/Kg		105	70 - 142	2	20
sec-Butylbenzene			50.0	51.6		ug/Kg		103	70 - 136	3	20
tert-Butylbenzene			50.0	49.8		ug/Kg		100	70 - 130	3	20
Carbon disulfide			50.0	49.6		ug/Kg		99	60 - 140	1	20
Carbon tetrachloride			50.0	58.5		ug/Kg		117	70 - 142	1	20
Chlorobenzene			50.0	47.7		ug/Kg		95	70 - 130	1	20
Chloroethane			50.0	44.5		ug/Kg		89	65 - 130	1	20
Chloroform			50.0	49.8		ug/Kg		100	77 - 127	1	20
Chloromethane			50.0	48.8		ug/Kg		98	55 - 140	1	20
2-Chlorotoluene			50.0	51.5		ug/Kg		103	70 - 138	3	20
4-Chlorotoluene			50.0	51.6		ug/Kg		103	70 - 136	3	20
Chlorodibromomethane			50.0	50.1		ug/Kg		100	70 - 146	3	20
1,2-Dichlorobenzene			50.0	48.3		ug/Kg		97	70 - 130	0	20
1,3-Dichlorobenzene			50.0	47.4		ug/Kg		95	70 - 131	0	20
1,4-Dichlorobenzene			50.0	47.7		ug/Kg		95	70 - 130	0	20
1,3-Dichloropropane			50.0	49.5		ug/Kg		99	70 - 140	4	20
1,1-Dichloropropene			50.0	51.2		ug/Kg		102	70 - 130	0	20
1,2-Dibromo-3-Chloropropane			50.0	50.6		ug/Kg		101	60 - 145	3	20
Ethylene Dibromide			50.0	51.3		ug/Kg		103	70 - 140	2	20
Dibromomethane			50.0	51.0		ug/Kg		102	70 - 139	2	20
Dichlorodifluoromethane			50.0	38.0		ug/Kg		76	37 - 158	1	20
1,1-Dichloroethane			50.0	51.4		ug/Kg		103	70 - 130	0	20
1,2-Dichloroethane			50.0	53.4		ug/Kg		107	70 - 130	3	20
1,1-Dichloroethene			50.0	46.3		ug/Kg		93	74 - 122	0	20
cis-1,2-Dichloroethene			50.0	53.2		ug/Kg		106	70 - 138	1	20
trans-1,2-Dichloroethene			50.0	50.0		ug/Kg		100	67 - 130	2	20
1,2-Dichloropropane			50.0	54.2		ug/Kg		108	73 - 127	1	20
cis-1,3-Dichloropropene			50.0	53.2		ug/Kg		106	68 - 147	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-208362/6
Matrix: Solid
Analysis Batch: 208362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	50.0	53.1		ug/Kg		106	70 - 155	2	20
Ethylbenzene	50.0	50.3		ug/Kg		101	80 - 137	2	20
Hexachlorobutadiene	50.0	46.5		ug/Kg		93	70 - 132	3	20
2-Hexanone	250	271		ug/Kg		108	44 - 133	1	20
Isopropylbenzene	50.0	50.8		ug/Kg		102	70 - 130	1	20
4-Isopropyltoluene	50.0	49.8		ug/Kg		100	70 - 133	3	20
Methylene Chloride	50.0	49.3		ug/Kg		99	70 - 134	0	20
4-Methyl-2-pentanone (MIBK)	250	277		ug/Kg		111	60 - 160	2	20
Naphthalene	50.0	52.0		ug/Kg		104	60 - 147	5	20
N-Propylbenzene	50.0	53.6		ug/Kg		107	70 - 130	3	20
Styrene	50.0	49.0		ug/Kg		98	70 - 130	0	20
1,1,1,2-Tetrachloroethane	50.0	48.2		ug/Kg		96	70 - 130	0	20
1,1,2,2-Tetrachloroethane	50.0	53.5		ug/Kg		107	70 - 146	0	20
Tetrachloroethene	50.0	46.8		ug/Kg		94	70 - 132	1	20
Toluene	50.0	49.0		ug/Kg		98	75 - 120	1	20
1,2,3-Trichlorobenzene	50.0	46.9		ug/Kg		94	60 - 140	1	20
1,2,4-Trichlorobenzene	50.0	48.1		ug/Kg		96	60 - 140	1	20
1,1,1-Trichloroethane	50.0	53.8		ug/Kg		108	70 - 130	0	20
1,1,2-Trichloroethane	50.0	52.6		ug/Kg		105	70 - 130	2	20
Trichloroethene	50.0	47.2		ug/Kg		94	70 - 133	1	20
Trichlorofluoromethane	50.0	50.1		ug/Kg		100	60 - 140	1	20
1,2,3-Trichloropropane	50.0	53.6		ug/Kg		107	70 - 146	3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	46.3		ug/Kg		93	60 - 140	1	20
1,2,4-Trimethylbenzene	50.0	50.6		ug/Kg		101	70 - 130	2	20
1,3,5-Trimethylbenzene	50.0	51.2		ug/Kg		102	70 - 131	2	20
Vinyl acetate	50.0	70.9		ug/Kg		142	38 - 176	1	20
Vinyl chloride	50.0	40.5		ug/Kg		81	58 - 125	1	20
m-Xylene & p-Xylene	50.0	49.6		ug/Kg		99	70 - 146	1	20
o-Xylene	50.0	49.1		ug/Kg		98	70 - 140	0	20
2,2-Dichloropropane	50.0	55.1		ug/Kg		110	70 - 162	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*94*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*102*		*60 - 140*
Toluene-d8 (Surr)	*98*		*58 - 140*

Lab Sample ID: LCSD 720-208362/8
Matrix: Solid
Analysis Batch: 208362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO) -C5-C12	1000	1050		ug/Kg		105	61 - 128	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*45 - 131*
1,2-Dichloroethane-d4 (Surr)	*105*		*60 - 140*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 720-208362/8
Matrix: Solid
Analysis Batch: 208362

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*58 - 140*

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Lab Sample ID: MB 720-208256/1-A
Matrix: Solid
Analysis Batch: 208238

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208256

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Bis(2-chloroethyl)ether	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2-Chlorophenol	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
1,3-Dichlorobenzene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
1,4-Dichlorobenzene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Benzyl alcohol	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
1,2-Dichlorobenzene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2-Methylphenol	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Methylphenol, 3 & 4	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
N-Nitrosodi-n-propylamine	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Hexachloroethane	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Nitrobenzene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Isophorone	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2-Nitrophenol	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2,4-Dimethylphenol	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Bis(2-chloroethoxy)methane	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2,4-Dichlorophenol	ND		0.33		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
1,2,4-Trichlorobenzene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Naphthalene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
4-Chloroaniline	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Hexachlorobutadiene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
4-Chloro-3-methylphenol	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2-Methylnaphthalene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Hexachlorocyclopentadiene	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2,4,6-Trichlorophenol	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2,4,5-Trichlorophenol	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2-Chloronaphthalene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2-Nitroaniline	ND		0.33		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Dimethyl phthalate	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Acenaphthylene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
3-Nitroaniline	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Acenaphthene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2,4-Dinitrophenol	ND		0.66		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
4-Nitrophenol	ND		0.33		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Dibenzofuran	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2,4-Dinitrotoluene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2,6-Dinitrotoluene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Diethyl phthalate	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
4-Chlorophenyl phenyl ether	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: MB 720-208256/1-A
Matrix: Solid
Analysis Batch: 208238

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208256

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
4-Nitroaniline	ND		0.33		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
2-Methyl-4,6-dinitrophenol	ND		0.33		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
N-Nitrosodiphenylamine	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
4-Bromophenyl phenyl ether	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Hexachlorobenzene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Pentachlorophenol	ND		0.33		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Phenanthrene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Anthracene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Di-n-butyl phthalate	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Fluoranthene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Pyrene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Butyl benzyl phthalate	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
3,3'-Dichlorobenzidine	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Benzo[a]anthracene	ND		0.33		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Bis(2-ethylhexyl) phthalate	ND		0.33		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Chrysene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Di-n-octyl phthalate	ND		0.17		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Benzo[b]fluoranthene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Benzo[a]pyrene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Benzo[k]fluoranthene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Indeno[1,2,3-cd]pyrene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Benzo[g,h,i]perylene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Benzoic acid	ND		0.33		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Azobenzene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1
Dibenz(a,h)anthracene	ND		0.067		mg/Kg		08/25/16 11:41	08/26/16 00:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*79*		*21 - 98*	*08/25/16 11:41*	*08/26/16 00:11*	*1*
2-Fluorobiphenyl	*98*		*30 - 112*	*08/25/16 11:41*	*08/26/16 00:11*	*1*
Terphenyl-d14	*122*		*59 - 134*	*08/25/16 11:41*	*08/26/16 00:11*	*1*
2-Fluorophenol	*83*		*28 - 98*	*08/25/16 11:41*	*08/26/16 00:11*	*1*
Phenol-d5	*68*		*23 - 101*	*08/25/16 11:41*	*08/26/16 00:11*	*1*
2,4,6-Tribromophenol	*83*		*37 - 114*	*08/25/16 11:41*	*08/26/16 00:11*	*1*

Lab Sample ID: LCS 720-208256/2-A
Matrix: Solid
Analysis Batch: 208238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208256

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Phenol	1.33	1.03		mg/Kg		78	48 - 115
Bis(2-chloroethyl)ether	1.33	0.986		mg/Kg		74	45 - 115
2-Chlorophenol	1.33	1.10		mg/Kg		83	48 - 115
1,3-Dichlorobenzene	1.33	1.01		mg/Kg		76	41 - 115
1,4-Dichlorobenzene	1.33	1.01		mg/Kg		76	40 - 115
Benzyl alcohol	1.33	1.07		mg/Kg		80	51 - 115
1,2-Dichlorobenzene	1.33	1.06		mg/Kg		80	44 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-208256/2-A
Matrix: Solid
Analysis Batch: 208238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208256

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	1.33	1.09		mg/Kg		82	54 - 115
Methylphenol, 3 & 4	1.33	1.06		mg/Kg		80	42 - 115
N-Nitrosodi-n-propylamine	1.33	1.01		mg/Kg		75	46 - 115
Hexachloroethane	1.33	1.09		mg/Kg		82	44 - 115
Nitrobenzene	1.33	1.03		mg/Kg		77	48 - 115
Isophorone	1.33	1.02		mg/Kg		76	54 - 115
2-Nitrophenol	1.33	0.937		mg/Kg		70	48 - 115
2,4-Dimethylphenol	1.33	1.14		mg/Kg		86	52 - 115
Bis(2-chloroethoxy)methane	1.33	0.960		mg/Kg		72	46 - 115
2,4-Dichlorophenol	1.33	1.21		mg/Kg		91	49 - 100
1,2,4-Trichlorobenzene	1.33	1.09		mg/Kg		82	47 - 115
Naphthalene	1.33	1.13		mg/Kg		85	44 - 115
4-Chloroaniline	1.33	1.05		mg/Kg		79	30 - 115
Hexachlorobutadiene	1.33	1.14		mg/Kg		86	44 - 115
4-Chloro-3-methylphenol	1.33	1.12		mg/Kg		84	58 - 115
2-Methylnaphthalene	1.33	1.19		mg/Kg		89	49 - 115
Hexachlorocyclopentadiene	1.33	1.13		mg/Kg		85	42 - 132
2,4,6-Trichlorophenol	1.33	1.09		mg/Kg		81	45 - 115
2,4,5-Trichlorophenol	1.33	1.14		mg/Kg		86	48 - 115
2-Chloronaphthalene	1.33	1.29		mg/Kg		97	52 - 115
2-Nitroaniline	1.33	0.988		mg/Kg		74	54 - 115
Dimethyl phthalate	1.33	1.06		mg/Kg		80	64 - 119
Acenaphthylene	1.33	1.13		mg/Kg		85	61 - 129
3-Nitroaniline	1.33	1.11		mg/Kg		83	50 - 115
Acenaphthene	1.33	1.20		mg/Kg		90	50 - 115
2,4-Dinitrophenol	2.67	2.29		mg/Kg		86	15 - 115
4-Nitrophenol	2.67	2.63		mg/Kg		99	54 - 125
Dibenzofuran	1.33	1.41		mg/Kg		105	55 - 115
2,4-Dinitrotoluene	1.33	1.23		mg/Kg		92	57 - 115
2,6-Dinitrotoluene	1.33	1.08		mg/Kg		81	54 - 119
Diethyl phthalate	1.33	1.13		mg/Kg		85	49 - 117
4-Chlorophenyl phenyl ether	1.33	1.42		mg/Kg		107	57 - 115
Fluorene	1.33	1.39		mg/Kg		104	54 - 115
4-Nitroaniline	1.33	1.09		mg/Kg		82	59 - 115
2-Methyl-4,6-dinitrophenol	2.67	2.42		mg/Kg		91	39 - 115
N-Nitrosodiphenylamine	1.33	1.13		mg/Kg		85	56 - 115
4-Bromophenyl phenyl ether	1.33	1.25		mg/Kg		93	53 - 115
Hexachlorobenzene	1.33	1.25		mg/Kg		94	55 - 115
Pentachlorophenol	2.67	2.28		mg/Kg		86	35 - 115
Phenanthrene	1.33	1.37		mg/Kg		103	54 - 115
Anthracene	1.33	1.25		mg/Kg		94	55 - 115
Di-n-butyl phthalate	1.33	1.26		mg/Kg		95	55 - 115
Fluoranthene	1.33	1.35		mg/Kg		101	52 - 130
Pyrene	1.33	1.12		mg/Kg		84	48 - 115
Butyl benzyl phthalate	1.33	1.08		mg/Kg		81	53 - 115
3,3'-Dichlorobenzidine	1.33	1.14		mg/Kg		86	42 - 115
Benzo[a]anthracene	1.33	1.35		mg/Kg		101	55 - 115

Method: 8270C - Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) (Continued)

Lab Sample ID: LCS 720-208256/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208238 — **Prep Batch: 208256**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	1.33	1.16		mg/Kg		87	53 - 115
Chrysene	1.33	1.21		mg/Kg		91	58 - 115
Di-n-octyl phthalate	1.33	1.12		mg/Kg		84	53 - 115
Benzo[b]fluoranthene	1.33	1.40		mg/Kg		105	50 - 119
Benzo[a]pyrene	1.33	1.22		mg/Kg		91	57 - 122
Benzo[k]fluoranthene	1.33	1.32		mg/Kg		99	55 - 120
Indeno[1,2,3-cd]pyrene	1.33	1.20		mg/Kg		90	56 - 115
Benzo[g,h,i]perylene	1.33	1.17		mg/Kg		88	56 - 115
Benzoic acid	1.33	1.05		mg/Kg		78	10 - 115
Azobenzene	1.33	1.13		mg/Kg		85	52 - 115
Dibenz(a,h)anthracene	1.33	1.23		mg/Kg		92	57 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*82*		*21 - 98*
2-Fluorobiphenyl	*95*		*30 - 112*
Terphenyl-d14	*96*		*59 - 134*
2-Fluorophenol	*90*		*28 - 98*
Phenol-d5	*79*		*23 - 101*
2,4,6-Tribromophenol	*85*		*37 - 114*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 720-208188/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208226 — **Prep Batch: 208188**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		1.0		mg/Kg		08/24/16 14:49	08/25/16 20:59	1
Motor Oil Range Organics [C24-C36]	ND		50		mg/Kg		08/24/16 14:49	08/25/16 20:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
p-Terphenyl	*100*		*40 - 130*	*08/24/16 14:49*	*08/25/16 20:59*	*1*

Lab Sample ID: LCS 720-208188/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208226 — **Prep Batch: 208188**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Diesel Range Organics [C10-C28]	83.3	74.1		mg/Kg		89	50 - 150

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
p-Terphenyl	*95*		*40 - 130*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 720-208241/1-A
Matrix: Solid
Analysis Batch: 208290

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Dieldrin	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Endrin aldehyde	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Endrin	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Endrin ketone	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Heptachlor	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Heptachlor epoxide	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
4,4'-DDT	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
4,4'-DDE	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
4,4'-DDD	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Endosulfan I	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Endosulfan II	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
alpha-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
beta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
gamma-BHC (Lindane)	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
delta-BHC	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Endosulfan sulfate	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Methoxychlor	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Toxaphene	ND		40		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
Chlordane (technical)	ND		40		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
alpha-Chlordane	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1
gamma-Chlordane	ND		2.0		ug/Kg		08/25/16 10:16	08/26/16 03:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*95*		*57 - 122*	*08/25/16 10:16*	*08/26/16 03:51*	*1*
DCB Decachlorobiphenyl	*117*		*21 - 136*	*08/25/16 10:16*	*08/26/16 03:51*	*1*

Lab Sample ID: LCS 720-208241/2-A
Matrix: Solid
Analysis Batch: 208290

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aldrin	16.7	14.9		ug/Kg		90	65 - 120
Dieldrin	16.7	17.7		ug/Kg		106	72 - 120
Endrin aldehyde	16.7	16.8		ug/Kg		101	68 - 120
Endrin	16.7	17.8		ug/Kg		107	68 - 120
Endrin ketone	16.7	20.4		ug/Kg		122	84 - 133
Heptachlor	16.7	16.4		ug/Kg		98	69 - 120
Heptachlor epoxide	16.7	17.6		ug/Kg		105	68 - 120
4,4'-DDT	16.7	18.2		ug/Kg		109	63 - 127
4,4'-DDE	16.7	18.1		ug/Kg		109	84 - 126
4,4'-DDD	16.7	19.1		ug/Kg		115	85 - 128
Endosulfan I	16.7	17.6		ug/Kg		106	62 - 120
Endosulfan II	16.7	18.4		ug/Kg		111	65 - 120
alpha-BHC	16.7	16.2		ug/Kg		97	62 - 120
beta-BHC	16.7	19.1		ug/Kg		114	78 - 136
gamma-BHC (Lindane)	16.7	16.6		ug/Kg		100	72 - 120
delta-BHC	16.7	15.0		ug/Kg		90	43 - 125

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 720-208241/2-A
Matrix: Solid
Analysis Batch: 208290

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endosulfan sulfate	16.7	18.3		ug/Kg		110	74 - 121
Methoxychlor	16.7	19.5		ug/Kg		117	71 - 132
alpha-Chlordane	16.7	17.2		ug/Kg		103	70 - 120
gamma-Chlordane	16.7	16.9		ug/Kg		102	68 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*94*		*57 - 122*
DCB Decachlorobiphenyl	*117*		*21 - 136*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 720-208239/1-A
Matrix: Solid
Analysis Batch: 208232

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208239

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1
PCB-1221	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1
PCB-1232	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1
PCB-1242	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1
PCB-1248	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1
PCB-1254	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1
PCB-1260	ND		50		ug/Kg		08/25/16 09:51	08/25/16 21:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*45 - 132*	*08/25/16 09:51*	*08/25/16 21:00*	*1*
DCB Decachlorobiphenyl	*88*		*42 - 146*	*08/25/16 09:51*	*08/25/16 21:00*	*1*

Lab Sample ID: LCS 720-208239/2-A
Matrix: Solid
Analysis Batch: 208232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208239

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	133	111		ug/Kg		83	65 - 121
PCB-1260	133	124		ug/Kg		93	68 - 127

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*84*		*45 - 132*
DCB Decachlorobiphenyl	*98*		*42 - 146*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 720-208020/1-A
Matrix: Solid
Analysis Batch: 208144

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 208020

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.50		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Arsenic	ND		1.0		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Barium	ND		0.50		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Beryllium	ND		0.10		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Cadmium	ND		0.13		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Chromium	ND		0.50		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Cobalt	ND		0.20		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Copper	ND		1.5		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Lead	ND		0.50		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Molybdenum	ND		0.50		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Nickel	ND		0.50		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Selenium	ND		1.0		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Silver	ND		0.25		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Thallium	ND		0.50		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Vanadium	ND		0.50		mg/Kg		08/22/16 13:12	08/23/16 19:10	1
Zinc	ND		1.5		mg/Kg		08/22/16 13:12	08/23/16 19:10	1

Lab Sample ID: LCS 720-208020/2-A
Matrix: Solid
Analysis Batch: 208144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208020

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	50.0	47.2		mg/Kg		94	80 - 120
Arsenic	50.0	47.7		mg/Kg		95	80 - 120
Barium	50.0	50.1		mg/Kg		100	80 - 120
Beryllium	50.0	50.3		mg/Kg		101	80 - 120
Cadmium	50.0	48.9		mg/Kg		98	80 - 120
Chromium	50.0	51.9		mg/Kg		104	80 - 120
Cobalt	50.0	49.9		mg/Kg		100	80 - 120
Copper	50.0	51.4		mg/Kg		103	80 - 120
Lead	50.0	49.4		mg/Kg		99	80 - 120
Molybdenum	50.0	49.1		mg/Kg		98	80 - 120
Nickel	50.0	50.2		mg/Kg		100	80 - 120
Selenium	50.0	46.3		mg/Kg		93	80 - 120
Silver	25.0	24.7		mg/Kg		99	80 - 120
Thallium	50.0	49.3		mg/Kg		99	80 - 120
Vanadium	50.0	50.4		mg/Kg		101	80 - 120
Zinc	50.0	48.8		mg/Kg		98	80 - 120

Lab Sample ID: LCSSRM 720-208020/3-A
Matrix: Solid
Analysis Batch: 208144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208020

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	74.6	39.9		mg/Kg		53	11 - 101
Arsenic	45.5	42.7		mg/Kg		94	69 - 119
Barium	579	523		mg/Kg		90	61 - 117
Beryllium	155	144		mg/Kg		93	56 - 102

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSSRM 720-208020/3-A
Matrix: Solid
Analysis Batch: 208144

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 208020

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	201	185		mg/Kg		92	67 - 118
Chromium	106	104		mg/Kg		98	67 - 121
Cobalt	247	233		mg/Kg		95	64 - 133
Copper	130	129		mg/Kg		99	68 - 126
Lead	302	268		mg/Kg		89	62 - 113
Molybdenum	165	150		mg/Kg		91	62 - 128
Nickel	305	286		mg/Kg		94	65 - 117
Selenium	133	124		mg/Kg		93	63 - 126
Silver	33.5	32.4		mg/Kg		97	51 - 130
Thallium	191	169		mg/Kg		88	64 - 124
Vanadium	214	206		mg/Kg		96	67 - 123
Zinc	388	349		mg/Kg		90	62 - 110

Lab Sample ID: 720-74013-1 MS
Matrix: Solid
Analysis Batch: 208144

Client Sample ID: SITE-SOIL01
Prep Type: Total/NA
Prep Batch: 208020

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND	F1	32.3	9.13	F1	mg/Kg		26	75 - 125
Arsenic	7.5		32.3	35.9		mg/Kg		88	75 - 125
Barium	160		32.3	199	4	mg/Kg		132	75 - 125
Beryllium	0.35		32.3	29.3		mg/Kg		90	75 - 125
Cadmium	0.53		32.3	29.5		mg/Kg		90	75 - 125
Chromium	40		32.3	74.8		mg/Kg		109	75 - 125
Cobalt	12		32.3	41.8		mg/Kg		93	75 - 125
Copper	54		32.3	91.0		mg/Kg		115	75 - 125
Lead	37		32.3	66.8		mg/Kg		93	75 - 125
Molybdenum	ND		32.3	27.4		mg/Kg		83	75 - 125
Nickel	33		32.3	64.7		mg/Kg		98	75 - 125
Selenium	ND		32.3	28.5		mg/Kg		87	75 - 125
Silver	1.7		16.1	17.7		mg/Kg		99	75 - 125
Thallium	ND		32.3	27.4		mg/Kg		85	75 - 125
Vanadium	57		32.3	93.9		mg/Kg		114	75 - 125
Zinc	110		32.3	140		mg/Kg		100	75 - 125

Lab Sample ID: 720-74013-1 MSD
Matrix: Solid
Analysis Batch: 208144

Client Sample ID: SITE-SOIL01
Prep Type: Total/NA
Prep Batch: 208020

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND	F1	34.0	9.14	F1	mg/Kg		24	75 - 125	0	20
Arsenic	7.5		34.0	38.1		mg/Kg		90	75 - 125	6	20
Barium	160		34.0	201	4	mg/Kg		132	75 - 125	1	20
Beryllium	0.35		34.0	31.3		mg/Kg		91	75 - 125	6	20
Cadmium	0.53		34.0	31.6		mg/Kg		91	75 - 125	7	20
Chromium	40		34.0	79.3		mg/Kg		117	75 - 125	6	20
Cobalt	12		34.0	43.3		mg/Kg		93	75 - 125	4	20
Copper	54		34.0	94.0		mg/Kg		117	75 - 125	3	20
Lead	37		34.0	69.7		mg/Kg		96	75 - 125	4	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 720-74013-1 MSD — **Client Sample ID: SITE-SOIL01**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208144 — **Prep Batch: 208020**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Molybdenum	ND		34.0	28.8		mg/Kg		83	75 - 125	5	20
Nickel	33		34.0	67.3		mg/Kg		101	75 - 125	4	20
Selenium	ND		34.0	29.7		mg/Kg		86	75 - 125	4	20
Silver	1.7		17.0	18.2		mg/Kg		97	75 - 125	3	20
Thallium	ND		34.0	29.3		mg/Kg		86	75 - 125	7	20
Vanadium	57		34.0	99.1		mg/Kg		124	75 - 125	5	20
Zinc	110		34.0	145		mg/Kg		111	75 - 125	4	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 720-208032/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208114 — **Prep Batch: 208032**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.010		mg/Kg		08/22/16 15:08	08/23/16 15:14	1

Lab Sample ID: LCS 720-208032/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 208114 — **Prep Batch: 208032**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.825		mg/Kg		99	80 - 120

QC Association Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

GC/MS VOA

Prep Batch: 207940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	5030B	
720-74013-2	SITE-SOIL02	Total/NA	Solid	5030B	
720-74013-3	SITE-SOIL03	Total/NA	Solid	5030B	
720-74013-4	SITE-SOIL04	Total/NA	Solid	5030B	
720-74013-5	SITE-SOIL05	Total/NA	Solid	5030B	
720-74013-6	SITE-SOIL06	Total/NA	Solid	5030B	
720-74013-7	SITE-SOIL07	Total/NA	Solid	5030B	
720-74013-8	SITE-SOIL08	Total/NA	Solid	5030B	
720-74013-9	SITE-SOIL09	Total/NA	Solid	5030B	

Analysis Batch: 208282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	8260B	207940
720-74013-2	SITE-SOIL02	Total/NA	Solid	8260B	207940
720-74013-3	SITE-SOIL03	Total/NA	Solid	8260B	207940
720-74013-4	SITE-SOIL04	Total/NA	Solid	8260B	207940
720-74013-5	SITE-SOIL05	Total/NA	Solid	8260B	207940
MB 720-208282/4	Method Blank	Total/NA	Solid	8260B	
LCS 720-208282/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-208282/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-208282/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-208282/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 208283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-6	SITE-SOIL06	Total/NA	Solid	8260B	207940
720-74013-7	SITE-SOIL07	Total/NA	Solid	8260B	207940
720-74013-8	SITE-SOIL08	Total/NA	Solid	8260B	207940
720-74013-9	SITE-SOIL09	Total/NA	Solid	8260B	207940
MB 720-208283/4	Method Blank	Total/NA	Solid	8260B	
LCS 720-208283/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-208283/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-208283/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-208283/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 208362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	8260B	208374
720-74013-2	SITE-SOIL02	Total/NA	Solid	8260B	208374
720-74013-3	SITE-SOIL03	Total/NA	Solid	8260B	208374
720-74013-4	SITE-SOIL04	Total/NA	Solid	8260B	208374
720-74013-5	SITE-SOIL05	Total/NA	Solid	8260B	208374
720-74013-6	SITE-SOIL06	Total/NA	Solid	8260B	208374
720-74013-8	SITE-SOIL08	Total/NA	Solid	8260B	208374
720-74013-9	SITE-SOIL09	Total/NA	Solid	8260B	208374
MB 720-208362/4	Method Blank	Total/NA	Solid	8260B	
LCS 720-208362/5	Lab Control Sample	Total/NA	Solid	8260B	
LCS 720-208362/7	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 720-208362/6	Lab Control Sample Dup	Total/NA	Solid	8260B	
LCSD 720-208362/8	Lab Control Sample Dup	Total/NA	Solid	8260B	

GC/MS VOA (Continued)

Prep Batch: 208374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	5030B	
720-74013-2	SITE-SOIL02	Total/NA	Solid	5030B	
720-74013-3	SITE-SOIL03	Total/NA	Solid	5030B	
720-74013-4	SITE-SOIL04	Total/NA	Solid	5030B	
720-74013-5	SITE-SOIL05	Total/NA	Solid	5030B	
720-74013-6	SITE-SOIL06	Total/NA	Solid	5030B	
720-74013-8	SITE-SOIL08	Total/NA	Solid	5030B	
720-74013-9	SITE-SOIL09	Total/NA	Solid	5030B	

GC/MS Semi VOA

Analysis Batch: 208238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	8270C	208256
720-74013-2	SITE-SOIL02	Total/NA	Solid	8270C	208256
720-74013-3	SITE-SOIL03	Total/NA	Solid	8270C	208256
720-74013-4	SITE-SOIL04	Total/NA	Solid	8270C	208256
720-74013-5	SITE-SOIL05	Total/NA	Solid	8270C	208256
720-74013-6	SITE-SOIL06	Total/NA	Solid	8270C	208256
720-74013-7	SITE-SOIL07	Total/NA	Solid	8270C	208256
720-74013-8	SITE-SOIL08	Total/NA	Solid	8270C	208256
720-74013-9	SITE-SOIL09	Total/NA	Solid	8270C	208256
MB 720-208256/1-A	Method Blank	Total/NA	Solid	8270C	208256
LCS 720-208256/2-A	Lab Control Sample	Total/NA	Solid	8270C	208256

Prep Batch: 208256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	3546	
720-74013-2	SITE-SOIL02	Total/NA	Solid	3546	
720-74013-3	SITE-SOIL03	Total/NA	Solid	3546	
720-74013-4	SITE-SOIL04	Total/NA	Solid	3546	
720-74013-5	SITE-SOIL05	Total/NA	Solid	3546	
720-74013-6	SITE-SOIL06	Total/NA	Solid	3546	
720-74013-7	SITE-SOIL07	Total/NA	Solid	3546	
720-74013-8	SITE-SOIL08	Total/NA	Solid	3546	
720-74013-9	SITE-SOIL09	Total/NA	Solid	3546	
MB 720-208256/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-208256/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC Semi VOA

Prep Batch: 208188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	3546	
720-74013-2	SITE-SOIL02	Total/NA	Solid	3546	
720-74013-3	SITE-SOIL03	Total/NA	Solid	3546	
720-74013-4	SITE-SOIL04	Total/NA	Solid	3546	
720-74013-5	SITE-SOIL05	Total/NA	Solid	3546	
720-74013-6	SITE-SOIL06	Total/NA	Solid	3546	
720-74013-7	SITE-SOIL07	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 208188 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-8	SITE-SOIL08	Total/NA	Solid	3546	
720-74013-9	SITE-SOIL09	Total/NA	Solid	3546	
MB 720-208188/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-208188/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 208226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	8015B	208188
720-74013-2	SITE-SOIL02	Total/NA	Solid	8015B	208188
720-74013-3	SITE-SOIL03	Total/NA	Solid	8015B	208188
720-74013-4	SITE-SOIL04	Total/NA	Solid	8015B	208188
720-74013-5	SITE-SOIL05	Total/NA	Solid	8015B	208188
720-74013-6	SITE-SOIL06	Total/NA	Solid	8015B	208188
720-74013-7	SITE-SOIL07	Total/NA	Solid	8015B	208188
720-74013-8	SITE-SOIL08	Total/NA	Solid	8015B	208188
720-74013-9	SITE-SOIL09	Total/NA	Solid	8015B	208188
MB 720-208188/1-A	Method Blank	Total/NA	Solid	8015B	208188
LCS 720-208188/2-A	Lab Control Sample	Total/NA	Solid	8015B	208188

Analysis Batch: 208231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-9	SITE-SOIL09	Total/NA	Solid	8082	208239

Analysis Batch: 208232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	8082	208239
720-74013-2	SITE-SOIL02	Total/NA	Solid	8082	208239
720-74013-3	SITE-SOIL03	Total/NA	Solid	8082	208239
720-74013-4	SITE-SOIL04	Total/NA	Solid	8082	208239
720-74013-5	SITE-SOIL05	Total/NA	Solid	8082	208239
720-74013-6	SITE-SOIL06	Total/NA	Solid	8082	208239
720-74013-7	SITE-SOIL07	Total/NA	Solid	8082	208239
720-74013-8	SITE-SOIL08	Total/NA	Solid	8082	208239
MB 720-208239/1-A	Method Blank	Total/NA	Solid	8082	208239
LCS 720-208239/2-A	Lab Control Sample	Total/NA	Solid	8082	208239

Prep Batch: 208239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	3546	
720-74013-2	SITE-SOIL02	Total/NA	Solid	3546	
720-74013-3	SITE-SOIL03	Total/NA	Solid	3546	
720-74013-4	SITE-SOIL04	Total/NA	Solid	3546	
720-74013-5	SITE-SOIL05	Total/NA	Solid	3546	
720-74013-6	SITE-SOIL06	Total/NA	Solid	3546	
720-74013-7	SITE-SOIL07	Total/NA	Solid	3546	
720-74013-8	SITE-SOIL08	Total/NA	Solid	3546	
720-74013-9	SITE-SOIL09	Total/NA	Solid	3546	
MB 720-208239/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-208239/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 208241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	3546	
720-74013-2	SITE-SOIL02	Total/NA	Solid	3546	
720-74013-3	SITE-SOIL03	Total/NA	Solid	3546	
720-74013-4	SITE-SOIL04	Total/NA	Solid	3546	
720-74013-5	SITE-SOIL05	Total/NA	Solid	3546	
720-74013-6	SITE-SOIL06	Total/NA	Solid	3546	
720-74013-7	SITE-SOIL07	Total/NA	Solid	3546	
720-74013-8	SITE-SOIL08	Total/NA	Solid	3546	
720-74013-9	SITE-SOIL09	Total/NA	Solid	3546	
MB 720-208241/1-A	Method Blank	Total/NA	Solid	3546	
LCS 720-208241/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 208290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 720-208241/1-A	Method Blank	Total/NA	Solid	8081A	208241
LCS 720-208241/2-A	Lab Control Sample	Total/NA	Solid	8081A	208241

Analysis Batch: 208357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	8081A	208241
720-74013-2	SITE-SOIL02	Total/NA	Solid	8081A	208241
720-74013-3	SITE-SOIL03	Total/NA	Solid	8081A	208241
720-74013-4	SITE-SOIL04	Total/NA	Solid	8081A	208241
720-74013-5	SITE-SOIL05	Total/NA	Solid	8081A	208241
720-74013-6	SITE-SOIL06	Total/NA	Solid	8081A	208241
720-74013-7	SITE-SOIL07	Total/NA	Solid	8081A	208241
720-74013-8	SITE-SOIL08	Total/NA	Solid	8081A	208241

Analysis Batch: 208386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-9	SITE-SOIL09	Total/NA	Solid	8081A	208241

Metals

Prep Batch: 208020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	3050B	
720-74013-2	SITE-SOIL02	Total/NA	Solid	3050B	
720-74013-3	SITE-SOIL03	Total/NA	Solid	3050B	
720-74013-4	SITE-SOIL04	Total/NA	Solid	3050B	
720-74013-5	SITE-SOIL05	Total/NA	Solid	3050B	
720-74013-6	SITE-SOIL06	Total/NA	Solid	3050B	
720-74013-7	SITE-SOIL07	Total/NA	Solid	3050B	
720-74013-8	SITE-SOIL08	Total/NA	Solid	3050B	
720-74013-9	SITE-SOIL09	Total/NA	Solid	3050B	
MB 720-208020/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 720-208020/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSSRM 720-208020/3-A	Lab Control Sample	Total/NA	Solid	3050B	
720-74013-1 MS	SITE-SOIL01	Total/NA	Solid	3050B	
720-74013-1 MSD	SITE-SOIL01	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 208032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	7471A	
720-74013-2	SITE-SOIL02	Total/NA	Solid	7471A	
720-74013-3	SITE-SOIL03	Total/NA	Solid	7471A	
720-74013-4	SITE-SOIL04	Total/NA	Solid	7471A	
720-74013-5	SITE-SOIL05	Total/NA	Solid	7471A	
720-74013-6	SITE-SOIL06	Total/NA	Solid	7471A	
720-74013-7	SITE-SOIL07	Total/NA	Solid	7471A	
720-74013-8	SITE-SOIL08	Total/NA	Solid	7471A	
720-74013-9	SITE-SOIL09	Total/NA	Solid	7471A	
MB 720-208032/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 720-208032/2-A	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 208114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	7471A	208032
720-74013-2	SITE-SOIL02	Total/NA	Solid	7471A	208032
720-74013-3	SITE-SOIL03	Total/NA	Solid	7471A	208032
720-74013-4	SITE-SOIL04	Total/NA	Solid	7471A	208032
720-74013-5	SITE-SOIL05	Total/NA	Solid	7471A	208032
720-74013-6	SITE-SOIL06	Total/NA	Solid	7471A	208032
720-74013-7	SITE-SOIL07	Total/NA	Solid	7471A	208032
720-74013-8	SITE-SOIL08	Total/NA	Solid	7471A	208032
720-74013-9	SITE-SOIL09	Total/NA	Solid	7471A	208032
MB 720-208032/1-A	Method Blank	Total/NA	Solid	7471A	208032
LCS 720-208032/2-A	Lab Control Sample	Total/NA	Solid	7471A	208032

Analysis Batch: 208144

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
720-74013-1	SITE-SOIL01	Total/NA	Solid	6010B	208020
720-74013-2	SITE-SOIL02	Total/NA	Solid	6010B	208020
720-74013-3	SITE-SOIL03	Total/NA	Solid	6010B	208020
720-74013-4	SITE-SOIL04	Total/NA	Solid	6010B	208020
720-74013-5	SITE-SOIL05	Total/NA	Solid	6010B	208020
720-74013-6	SITE-SOIL06	Total/NA	Solid	6010B	208020
720-74013-7	SITE-SOIL07	Total/NA	Solid	6010B	208020
720-74013-8	SITE-SOIL08	Total/NA	Solid	6010B	208020
720-74013-9	SITE-SOIL09	Total/NA	Solid	6010B	208020
MB 720-208020/1-A	Method Blank	Total/NA	Solid	6010B	208020
LCS 720-208020/2-A	Lab Control Sample	Total/NA	Solid	6010B	208020
LCSSRM 720-208020/3-A	Lab Control Sample	Total/NA	Solid	6010B	208020
720-74013-1 MS	SITE-SOIL01	Total/NA	Solid	6010B	208020
720-74013-1 MSD	SITE-SOIL01	Total/NA	Solid	6010B	208020

Lab Chronicle

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL01

Lab Sample ID: 720-74013-1
Matrix: Solid

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			207940	08/19/16 19:53	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208282	08/26/16 02:13	LPL	TAL PLS
Total/NA	Prep	5030B			208374	08/27/16 10:43	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208362	08/27/16 12:23	LPL	TAL PLS
Total/NA	Prep	3546			208256	08/25/16 11:41	BSY	TAL PLS
Total/NA	Analysis	8270C		2	208238	08/26/16 03:39	MQL	TAL PLS
Total/NA	Prep	3546			208188	08/24/16 14:49	BSY	TAL PLS
Total/NA	Analysis	8015B		2	208226	08/25/16 18:02	JXL	TAL PLS
Total/NA	Prep	3546			208241	08/25/16 10:16	TTC	TAL PLS
Total/NA	Analysis	8081A		1	208357	08/27/16 02:44	JZT	TAL PLS
Total/NA	Prep	3546			208239	08/25/16 09:51	TTC	TAL PLS
Total/NA	Analysis	8082		1	208232	08/26/16 01:10	DCH	TAL PLS
Total/NA	Prep	3050B			208020	08/22/16 13:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	208144	08/23/16 19:48	ASB	TAL PLS
Total/NA	Prep	7471A			208032	08/22/16 15:08	OBI	TAL PLS
Total/NA	Analysis	7471A		1	208114	08/23/16 15:27	ASB	TAL PLS

Client Sample ID: SITE-SOIL02

Lab Sample ID: 720-74013-2
Matrix: Solid

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			207940	08/19/16 19:53	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208282	08/26/16 02:42	LPL	TAL PLS
Total/NA	Prep	5030B			208374	08/27/16 10:43	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208362	08/27/16 12:53	LPL	TAL PLS
Total/NA	Prep	3546			208256	08/25/16 11:41	BSY	TAL PLS
Total/NA	Analysis	8270C		2	208238	08/26/16 04:05	MQL	TAL PLS
Total/NA	Prep	3546			208188	08/24/16 14:49	BSY	TAL PLS
Total/NA	Analysis	8015B		2	208226	08/25/16 18:31	JXL	TAL PLS
Total/NA	Prep	3546			208241	08/25/16 10:16	TTC	TAL PLS
Total/NA	Analysis	8081A		1	208357	08/27/16 03:01	JZT	TAL PLS
Total/NA	Prep	3546			208239	08/25/16 09:51	TTC	TAL PLS
Total/NA	Analysis	8082		1	208232	08/26/16 01:27	DCH	TAL PLS
Total/NA	Prep	3050B			208020	08/22/16 13:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	208144	08/23/16 19:53	ASB	TAL PLS
Total/NA	Prep	7471A			208032	08/22/16 15:08	OBI	TAL PLS
Total/NA	Analysis	7471A		1	208114	08/23/16 15:30	ASB	TAL PLS

Lab Chronicle

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL03

Lab Sample ID: 720-74013-3
Date Collected: 08/18/16 10:00
Matrix: Solid
Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			207940	08/19/16 19:53	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208282	08/26/16 03:12	LPL	TAL PLS
Total/NA	Prep	5030B			208374	08/27/16 10:43	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208362	08/27/16 13:22	LPL	TAL PLS
Total/NA	Prep	3546			208256	08/25/16 11:41	BSY	TAL PLS
Total/NA	Analysis	8270C		2	208238	08/26/16 04:31	MQL	TAL PLS
Total/NA	Prep	3546			208188	08/24/16 14:49	BSY	TAL PLS
Total/NA	Analysis	8015B		2	208226	08/25/16 23:54	JXL	TAL PLS
Total/NA	Prep	3546			208241	08/25/16 10:16	TTC	TAL PLS
Total/NA	Analysis	8081A		1	208357	08/27/16 03:18	JZT	TAL PLS
Total/NA	Prep	3546			208239	08/25/16 09:51	TTC	TAL PLS
Total/NA	Analysis	8082		1	208232	08/26/16 01:44	DCH	TAL PLS
Total/NA	Prep	3050B			208020	08/22/16 13:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	208144	08/23/16 19:59	ASB	TAL PLS
Total/NA	Prep	7471A			208032	08/22/16 15:08	OBI	TAL PLS
Total/NA	Analysis	7471A		1	208114	08/23/16 15:32	ASB	TAL PLS

Client Sample ID: SITE-SOIL04

Lab Sample ID: 720-74013-4
Date Collected: 08/18/16 10:00
Matrix: Solid
Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			207940	08/19/16 19:53	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208282	08/26/16 03:41	LPL	TAL PLS
Total/NA	Prep	5030B			208374	08/27/16 10:43	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208362	08/27/16 13:51	LPL	TAL PLS
Total/NA	Prep	3546			208256	08/25/16 11:41	BSY	TAL PLS
Total/NA	Analysis	8270C		2	208238	08/26/16 04:58	MQL	TAL PLS
Total/NA	Prep	3546			208188	08/24/16 14:49	BSY	TAL PLS
Total/NA	Analysis	8015B		3	208226	08/26/16 00:24	JXL	TAL PLS
Total/NA	Prep	3546			208241	08/25/16 10:16	TTC	TAL PLS
Total/NA	Analysis	8081A		1	208357	08/27/16 03:34	JZT	TAL PLS
Total/NA	Prep	3546			208239	08/25/16 09:51	TTC	TAL PLS
Total/NA	Analysis	8082		1	208232	08/26/16 02:00	DCH	TAL PLS
Total/NA	Prep	3050B			208020	08/22/16 13:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	208144	08/23/16 20:15	ASB	TAL PLS
Total/NA	Prep	7471A			208032	08/22/16 15:08	OBI	TAL PLS
Total/NA	Analysis	7471A		1	208114	08/23/16 15:36	ASB	TAL PLS

Lab Chronicle

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL05

Lab Sample ID: 720-74013-5
Date Collected: 08/18/16 10:00
Matrix: Solid
Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			207940	08/19/16 19:53	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208282	08/26/16 04:10	LPL	TAL PLS
Total/NA	Prep	5030B			208374	08/27/16 10:43	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208362	08/27/16 14:21	LPL	TAL PLS
Total/NA	Prep	3546			208256	08/25/16 11:41	BSY	TAL PLS
Total/NA	Analysis	8270C		2	208238	08/26/16 05:24	MQL	TAL PLS
Total/NA	Prep	3546			208188	08/24/16 14:49	BSY	TAL PLS
Total/NA	Analysis	8015B		3	208226	08/26/16 00:53	JXL	TAL PLS
Total/NA	Prep	3546			208241	08/25/16 10:16	TTC	TAL PLS
Total/NA	Analysis	8081A		1	208357	08/27/16 03:51	JZT	TAL PLS
Total/NA	Prep	3546			208239	08/25/16 09:51	TTC	TAL PLS
Total/NA	Analysis	8082		1	208232	08/26/16 02:17	DCH	TAL PLS
Total/NA	Prep	3050B			208020	08/22/16 13:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	208144	08/23/16 20:20	ASB	TAL PLS
Total/NA	Prep	7471A			208032	08/22/16 15:08	OBI	TAL PLS
Total/NA	Analysis	7471A		1	208114	08/23/16 15:39	ASB	TAL PLS

Client Sample ID: SITE-SOIL06

Lab Sample ID: 720-74013-6
Date Collected: 08/18/16 10:00
Matrix: Solid
Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			208374	08/27/16 10:43	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208362	08/27/16 14:50	LPL	TAL PLS
Total/NA	Prep	5030B			207940	08/19/16 19:53	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208283	08/26/16 01:45	JRM	TAL PLS
Total/NA	Prep	3546			208256	08/25/16 11:41	BSY	TAL PLS
Total/NA	Analysis	8270C		2	208238	08/26/16 05:50	MQL	TAL PLS
Total/NA	Prep	3546			208188	08/24/16 14:49	BSY	TAL PLS
Total/NA	Analysis	8015B		5	208226	08/26/16 01:23	JXL	TAL PLS
Total/NA	Prep	3546			208241	08/25/16 10:16	TTC	TAL PLS
Total/NA	Analysis	8081A		1	208357	08/27/16 04:08	JZT	TAL PLS
Total/NA	Prep	3546			208239	08/25/16 09:51	TTC	TAL PLS
Total/NA	Analysis	8082		1	208232	08/26/16 02:33	DCH	TAL PLS
Total/NA	Prep	3050B			208020	08/22/16 13:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	208144	08/23/16 20:25	ASB	TAL PLS
Total/NA	Prep	7471A			208032	08/22/16 15:08	OBI	TAL PLS
Total/NA	Analysis	7471A		1	208114	08/23/16 15:48	ASB	TAL PLS

Client Sample ID: SITE-SOIL07 — Lab Sample ID: 720-74013-7

Date Collected: 08/18/16 10:00 — **Matrix: Solid**
Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			207940	08/19/16 19:53	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208283	08/26/16 02:15	JRM	TAL PLS
Total/NA	Prep	3546			208256	08/25/16 11:41	BSY	TAL PLS
Total/NA	Analysis	8270C		2	208238	08/26/16 06:16	MQL	TAL PLS
Total/NA	Prep	3546			208188	08/24/16 14:49	BSY	TAL PLS
Total/NA	Analysis	8015B		1	208226	08/26/16 01:52	JXL	TAL PLS
Total/NA	Prep	3546			208241	08/25/16 10:16	TTC	TAL PLS
Total/NA	Analysis	8081A		1	208357	08/27/16 04:25	JZT	TAL PLS
Total/NA	Prep	3546			208239	08/25/16 09:51	TTC	TAL PLS
Total/NA	Analysis	8082		1	208232	08/26/16 02:50	DCH	TAL PLS
Total/NA	Prep	3050B			208020	08/22/16 13:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	208144	08/23/16 20:31	ASB	TAL PLS
Total/NA	Prep	7471A			208032	08/22/16 15:08	OBI	TAL PLS
Total/NA	Analysis	7471A		1	208114	08/23/16 15:50	ASB	TAL PLS

Client Sample ID: SITE-SOIL08 — Lab Sample ID: 720-74013-8

Date Collected: 08/18/16 10:00 — **Matrix: Solid**
Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			208374	08/27/16 10:43	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208362	08/27/16 15:19	LPL	TAL PLS
Total/NA	Prep	5030B			207940	08/19/16 19:53	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208283	08/26/16 02:46	JRM	TAL PLS
Total/NA	Prep	3546			208256	08/25/16 11:41	BSY	TAL PLS
Total/NA	Analysis	8270C		4	208238	08/26/16 06:42	MQL	TAL PLS
Total/NA	Prep	3546			208188	08/24/16 14:49	BSY	TAL PLS
Total/NA	Analysis	8015B		5	208226	08/25/16 19:30	JXL	TAL PLS
Total/NA	Prep	3546			208241	08/25/16 10:16	TTC	TAL PLS
Total/NA	Analysis	8081A		1	208357	08/27/16 04:41	JZT	TAL PLS
Total/NA	Prep	3546			208239	08/25/16 09:51	TTC	TAL PLS
Total/NA	Analysis	8082		1	208232	08/26/16 03:07	DCH	TAL PLS
Total/NA	Prep	3050B			208020	08/22/16 13:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	208144	08/23/16 20:36	ASB	TAL PLS
Total/NA	Prep	7471A			208032	08/22/16 15:08	OBI	TAL PLS
Total/NA	Analysis	7471A		1	208114	08/23/16 15:53	ASB	TAL PLS

Client Sample ID: SITE-SOIL09 — Lab Sample ID: 720-74013-9

Date Collected: 08/18/16 10:00 — **Matrix: Solid**
Date Received: 08/18/16 16:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			208374	08/27/16 10:43	JRM	TAL PLS

Lab Chronicle

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Client Sample ID: SITE-SOIL09

Date Collected: 08/18/16 10:00
Date Received: 08/18/16 16:00

Lab Sample ID: 720-74013-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	208362	08/27/16 15:49	LPL	TAL PLS
Total/NA	Prep	5030B			207940	08/19/16 19:53	JRM	TAL PLS
Total/NA	Analysis	8260B		1	208283	08/26/16 03:16	JRM	TAL PLS
Total/NA	Prep	3546			208256	08/25/16 11:41	BSY	TAL PLS
Total/NA	Analysis	8270C		2	208238	08/26/16 07:08	MQL	TAL PLS
Total/NA	Prep	3546			208188	08/24/16 14:49	BSY	TAL PLS
Total/NA	Analysis	8015B		10	208226	08/25/16 19:01	JXL	TAL PLS
Total/NA	Prep	3546			208241	08/25/16 10:16	TTC	TAL PLS
Total/NA	Analysis	8081A		5	208386	08/29/16 11:30	JZT	TAL PLS
Total/NA	Prep	3546			208239	08/25/16 10:23	TTC	TAL PLS
Total/NA	Analysis	8082		1	208231	08/25/16 21:00	DCH	TAL PLS
Total/NA	Prep	3050B			208020	08/22/16 13:12	BRB	TAL PLS
Total/NA	Analysis	6010B		4	208144	08/23/16 20:42	ASB	TAL PLS
Total/NA	Prep	7471A			208032	08/22/16 15:08	OBI	TAL PLS
Total/NA	Analysis	7471A		1	208114	08/23/16 15:55	ASB	TAL PLS

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Certification Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Laboratory: TestAmerica Pleasanton

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	State Program	9	2496	01-31-18

Analysis Method	Prep Method	Matrix	Analyte

Method Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PLS
8270C	Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	SW846	TAL PLS
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL PLS
8081A	Organochlorine Pesticides (GC)	SW846	TAL PLS
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL PLS
6010B	Metals (ICP)	SW846	TAL PLS
7471A	Mercury (CVAA)	SW846	TAL PLS

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PLS = TestAmerica Pleasanton, 1220 Quarry Lane, Pleasanton, CA 94566, TEL (925)484-1919

Sample Summary

Client: Vista Environmental Consulting, Inc
Project/Site: HUSD/Harder ES

TestAmerica Job ID: 720-74013-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
720-74013-1	SITE-SOIL01	Solid	08/18/16 10:00	08/18/16 16:00
720-74013-2	SITE-SOIL02	Solid	08/18/16 10:00	08/18/16 16:00
720-74013-3	SITE-SOIL03	Solid	08/18/16 10:00	08/18/16 16:00
720-74013-4	SITE-SOIL04	Solid	08/18/16 10:00	08/18/16 16:00
720-74013-5	SITE-SOIL05	Solid	08/18/16 10:00	08/18/16 16:00
720-74013-6	SITE-SOIL06	Solid	08/18/16 10:00	08/18/16 16:00
720-74013-7	SITE-SOIL07	Solid	08/18/16 10:00	08/18/16 16:00
720-74013-8	SITE-SOIL08	Solid	08/18/16 10:00	08/18/16 16:00
720-74013-9	SITE-SOIL09	Solid	08/18/16 10:00	08/18/16 16:00

TestAmerica Pleasanton
1220 Quarry Lane

Pleasanton, CA 94566
phone 925.484.1919 fax 925.600.3002

720 -74013

Chain of Custody Record

170495

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

8/29/2016

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Chris Burns	Site Contact:	Date:	COC No:
Vista Environmental Consulting	Tel/Fax:	Lab Contact:	Carrier:	1 of 1 COCs
2984 Teagarden Street	Analysis Turnaround Time			Sampler:
San Leandro, CA 94577	☐ CALENDAR DAYS ☒ WORKING DAYS			For Lab Use Only:
510-346-8860	TAT if different from Below _____			Walk-in Client:
888-296-0271 FAX	☐ 2 weeks			Lab Sampling:
	☒ 1 week			
Site: HUSD/Harder ES 160041001	☐ 2 days			Job / SDG No.:
Site	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	PCBs 8082	Pesticides 8081A	Title 22 CAM 17 Metals 6010B	VOCs & GRO 8260B	SVOCs 8270C	TPH MO, D & G 8015B	Mercury 7471A	Sample Specific Notes.
SITE - SOIL 01	8/18/16	1000	G	Soil	1			X	X	X	X	X	X	X	EAST: North Side
SITE - SOIL 02	↓	↓	G	↓	↓			↓	↓	↓	↓	↓	↓	↓	EAST: South Side
SITE - SOIL 03	↓	↓	G	↓	↓			↓	↓	↓	↓	↓	↓	↓	South: East Side
SITE - SOIL 04	↓	↓	G	↓	↓			↓	↓	↓	↓	↓	↓	↓	South: Central
SITE - SOIL 05	↓	↓	G	↓	↓			↓	↓	↓	↓	↓	↓	↓	WEST ~~SIDE~~: Ball Field
SITE - SOIL 06	↓	↓	G	↓	↓			↓	↓	↓	↓	↓	↓	↓	WEST ~~SIDE~~: North Side
SITE - SOIL 07	↓	↓	G	↓	↓			↓	↓	↓	↓	↓	↓	↓	North: Central
SITE - SOIL 08	↓	↓	~~G~~ C	↓	↓			↓	↓	↓	↓	↓	↓	↓	MAIN: Drip line 4pt Comp
SITE - SOIL 09	↓	↓	~~G~~ C	↓	↓			↓	↓	↓	↓	↓	↓	↓	CW 9/15: Drip line 4pt Comp

720-74013 Chain of Custody

Preservative: 5=NaOH; 6= Other _____

Possible Hazard Identification
Are any samples hazardous? List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: Please email report to chrisburns@vista-env.com & molli@vista-env.com

15.9°C

Custody Seals Intact? ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time
[signature]	VSTA	8/18/16 1600	[signature]	TA	8/18/16 1600
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time.	Received in Laboratory by:	Company:	Date/Time:

Login Sample Receipt Checklist

Client: Vista Environmental Consulting, Inc

Job Number: 720-74013-1

Login Number: 74013
List Number: 1
Creator: Arauz, Dennis

List Source: TestAmerica Pleasanton

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	