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LIMITED ASBESTOS AND LEAD CHIP ASSESSMENT

Interstate 15 Express Lanes Project Southern Extension (ELPSE)

08-RIV-15 PM 20.3 to 38.8
Lake Elsinore to Corona
County of Riverside
State of California

Project Number: Atch-192661
EA: OJO820, ID 08-18000063

May 4, 2020

Cover

ASBESTOS AND LEAD

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Atch-192661
Limited Asbestos and Lead Chip Assessment
Campbell Ranch Road
Corona, California 92883

May 4, 2020

HDR Engineering, Inc.
2280 Market Street, Suite 100
Riverside, California 92501

Attn: Mr. Mark Hager

Re: Interstate 15 Express Lanes Project Southern Extension
Lake Elsinore to Corona and Unincorporated Riverside County, California 92883

Pursuant to your request, A-Tech Consulting, Inc. (A-Tech) completed a Limited Asbestos and Lead Chip Assessment associated with the Interstate 15 (I-15) Express Lanes Project Southern Extension (ELPSE) in Lake Elsinore, Corona and the Unincorporated Riverside County, California.

1.0 INTRODUCTION

The I-15 ELPSE project proposes to increase capacity by adding two tolled express lanes in both directions within the I-15 median to accommodate increasing traffic volumes in western Riverside County. Associated improvements, including advance signage and transition striping, would extend two miles from each end of the project limits to Postmile 20.3 in the south and Postmile 38.8 in the north.

This report presents the results for the Limited Asbestos and Lead Chip Assessment for the I-15 ELPSE (Subject Property), in Lake Elsinore, Corona and the Unincorporated Riverside County, California. The hazardous materials sampling was conducted by Hugo Good – CSST #16-5643 and CDPH Sampling Technician #27136 on January 6 to January 10, on January 13, from January 22 to January 23, from January 27 to January 31, and from February 4 to February 7, 2020. This report does not represent a HUD level inspection. This report is not intended to be a comprehensive assessment.

The inspector who conducted the site sampling/assessment is a state certified California Department of Public Health (CDPH) Sampling Technician and has completed an EPA-sponsored curriculum in the Lead Sampling Technician Training. At the time of this report, the CDPH, Childhood Lead Poisoning Branch, has implemented a State Certification and Model Accreditation Plan adopted from the EPA.

This Limited Asbestos and Lead Assessment was conducted in accordance with the Scope of Services authorized by Mr. Mark Hager with HDR Engineering, Inc. in accordance with current regulatory guidelines. All sampling was conducted at the direction of Mr. Mark Hager and was limited to the areas and materials with the potential for impact (concrete inside/outside barrier, lanes and under decking of bridge) during the upcoming I-15 ELPSE. This includes the inside and outside rails for both Northbound and Southbound directions of all bridges and overpasses related to this project.

2.0 SCOPE OF ASSESSMENT

During the PS&E Phase, RCTC will ensure that an ACM and LBP survey will be conducted for any structure requiring modification or removal. The RCTC will ensure that the survey will be conducted in conformance with the U.S. EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR, SCAQMD Rule 1403, and in accordance with Caltrans SSP 14-11.13, Disturbance of Existing Paint Systems on Bridges, and Caltrans SSP 14-11.16, Asbestos-Containing Construction Materials in Bridges.

Asbestos

As a limited asbestos assessment, this work was performed to identify visible and/or readily accessible suspect friable and non-friable Asbestos-Containing Materials (ACMs) at the Subject Property. The intent of this assessment was to satisfy all regulatory requirements for renovation and/or demolition. Friable ACM, as defined by the United States Environmental Protection Agency (EPA) and South Coast Air Quality Management District (SCAQMD), Rule 1403, is a material that, when dry, can be easily pulverized, crushed or reduced to powder by hand pressure. Non-friable ACM that can potentially be broken, crumbled, pulverized or reduced to powder in the course of demolition or renovation activities and are classified as Category I or Category II, non-friable ACM. These assessments are typically accomplished by, and limited to, an in-depth site reconnaissance, a review of readily available building records, and a review of readily available asbestos Operation and Maintenance (O&M) plans. In the event that suspected or known ACMs exist at a given site, samples of the potential ACMs may be collected for subsequent laboratory analysis.

This inspection was limited to representative locations in the Subject Property Area that may be affected by the renovation activities. Limited intrusive and/or non-destructive sampling was conducted as a part of the scope of services performed. If additional suspect materials are observed by the contractor, abatement contractor, building owner and/or its representatives, A-Tech should be notified to conduct additional testing. Certain materials may not have been visible/accessible during the initial assessment such as subsurface materials, live electrical equipment, materials in pipe chases and materials under the bridge structure, etc.

Lead

The limited inspection was performed in accordance with United States Environmental Protection Agency (EPA) and the California Division of Occupational Safety and Health Administration (Cal/OSHA) requirements, utilizing United States Department of Housing and Urban Development (HUD) protocols. The purpose of this Lead Containing Material (LCM) inspection is to identify and assess the LCM present at the Subject Property with the potential for impact during upcoming renovation/demolition activities.

The intent was to ascertain the presence of LCM above the specified level for objective data (600 PPM) established by Cal/OSHA. If LCM was found, the inspection would identify individual architectural components and their respective concentrations of lead in such a manner that this report would be used as a basis for the subsequent stabilization and/or abatement activity.

3.0 SITE DESCRIPTION

The project work area included approximately a total of 15 miles of bridges on both the Northbound and Southbound sides of the I-15, between Nichols Road and Cajalco Road (between Lake Elsinore and Corona), this includes both the inside and outside rails at 15 bridge locations. A metal guard rail barrier fastened to concrete walls support is present along the inside portions of the bridges Weirick Road Undercrossing to Brown Canyon Wash on both the Northbound and Southbound sides of I-15. A black pavement sealer was applied at the concrete to asphalt seam on both ends of both bridges, and a black adhesive is present beneath the reflectors on both sides of the interstate. Yellow striping is present as the inside median lane demarcation on both sides of the interstate. While white striping is present on the outside median lane demarcation on both sides of the interstate. There were no suspect utility finishes, such as wire wrap or pipe insulation, observed within the project areas.

The Subject Property inspected consists of fifteen freeway bridges that span from Lake Elsinore to Corona. A detailed description of each bridge follows:

<u>Postmile</u>	<u>Structure Name</u>	<u>Location</u>
25.55	56-0726L/R – Gavilan Wash	Lake Elsinore
26.69	56-0682L/R – Lake Street Undercrossing	Lake Elsinore
27.78	56-0681L/R – Temescal Canyon Road Overhead	Lake Elsinore
28.04	56-0680L/R – Temescal Wash	Corona
28.87	56-0679L/R – Horsethief Canyon Road Undercrossing	Corona

<u>Postmile</u>	<u>Structure Name</u>	<u>Location</u>
29.13	56-0678L/R – Horsethief Canyon Wash	Corona
30.09	56-0677L/R - Indian Wash	Corona
30.4	56-0676L/R - Indian Truck Trail Undercrossing	Corona
31.9	56-0675L/R – Temescal Canyon Road Undercrossing	Corona
31.97	56-0675L/R – Mayhew Wash	Corona
32.96	56-0543L/R – Coldwater Wash	Corona
33.25	56-0542L/R – Temescal Canyon Road Undercrossing	Corona
34.72	56-0559L/R – Brown Canyon Wash	Corona
35.64	56-0541L/R – Weirick Road Undercrossing	Corona
36.58	56-0540L/R – Bedford Wash	Corona

4.0 VISUAL INSPECTION AND SAMPLING/ANALYTICAL METHODOLOGY

Asbestos

Visual Inspection

To identify suspect friable and non-friable ACM, as required under California law, a California Division of Occupational Safety Health Administration (Cal/OSHA), Certified Site Surveillance Technicians (CSST) and/or Certified Asbestos Consultant (CAC) is required to conduct visual and/or bulk assessments of a Subject Property.

During this assessment, A-Tech identified homogeneous areas of suspected ACMs and assessed the condition and estimated quantity for the purpose of sampling in accordance with current Cal/OSHA /EPA Asbestos Hazard Emergency Response Act (AHERA) requirements. These areas were defined with respect to similarities in appearance, age, use, type, color, and/or texture. Based upon A-Tech's observations, two hundred and thirty-three (233) homogeneous suspect asbestos containing materials were identified. Please refer to Appendix A for a complete list of sampled materials.

Sampling Procedure/Analytical Methodology

To evaluate the presence of asbestos in these suspected ACMs, A-Tech obtained six hundred and fifty-three (653) bulk samples, which appeared to represent each homogeneous area (see tables). However, some of the samples analyzed may have multiple layers of material, which the laboratory is required to separate and analyze independently. The total amount of samples analyzed was seven hundred and fifty-eight (758). Regarding multiple layered materials, if one layer tests positive for asbestos content, the entire sample is considered positive.

Materials containing greater than one-tenth of one percent (>0.1%) asbestos by weight is considered positive in this report and defined as asbestos containing construction material (ACCM), and anything >1% is an asbestos containing material.

Following AHERA inspection methodology, the inspector identifies each suspect material and categorizes it into one of three established material types: surfacing, thermal system or miscellaneous (See attached table: Asbestos Bulk Sample Analysis for individual sample identification). The following describes the characteristics for these three categories:

- *Surfacing material* - means material in a building that is sprayed on, troweled on, or otherwise applied to surfaces such as acoustical plaster on ceilings, fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes.
- *Thermal system insulation* - means material in a building applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat loss or gain, or water condensation, or for other purposes.
- *Miscellaneous material* - means interior building material on structural components, structural members or fixtures, such as floor and ceiling tiles, and does not include surfacing material or thermal system insulation.

After collecting each sample, the sampling equipment was cleaned with a moist towelette. Each sample was sealed in a sample container and assigned a discrete sample identification number.

Lead

Visual Inspection

A visual inspection consisting of a walkthrough of the Subject Property was conducted to determine the presence of suspect LCM components that were readily accessible and/or exposed. This included the identification of suspect lead-based painted components, etc., and the determination of the condition of those components. All coated surfaces, including but not limited to, painted surfaces, were tested for lead content.

Sampling Procedure/Analytical Methodology

Sampling was conducted at the Subject Property by collecting specific paint chip or bulk samples, which represented each specific suspect lead material, paint type and substrate. Samples were placed in a conical or double bag container and assigned a discrete sample identification number. The sample collection tool was cleaned between each sample. The sample collection was conducted in accordance with HUD and EPA guidelines. Care was taken not to include substrate in the samples collected.

Samples represent all materials that are similar (homogenous). If a testing combination is found positive in one location, it is presumed to be positive in all other locations. Therefore, you cannot continue sampling to rebut an original positive finding, unless there is plausible evidence that the suspected material was constructed and/or replaced at a later time.

CDPH and HUD defines lead-based paint (LBP) as paints containing equal to or greater than 1.0 mg/cm², 0.5% lead by weight or 5,000 milligrams per kilogram (mg/kg) or parts per million (ppm) total lead. Cal/OSHA's current level for objective data/negative determination is 600 ppm. However, anyone performing trigger tasks, regardless of the level of lead, as outlined in 29 CFR 1926.62 and Title 8 CCR 1532.1 can reasonably assume risk of lead exposure. Examples of trigger tasks include sanding/abrading lead-based paint and/or lead containing materials. Work activities, which may lead to any amount of lead exposure, must be conducted in accordance with safe lead work practices, current regulatory guidelines, and current proper protective equipment protocols.

5.0 LABORATORY ACCREDITATION AND ANALYTICAL PROCEDURES

Asbestos

The six hundred and fifty-three (653) samples obtained from the Subject Property were delivered for analysis to Aerobiology Laboratory Associates, Inc. of Huntington Beach, California at (714) 895-8401 and Aerobiology Laboratory Associates, Inc. of Golden, Colorado at (302) 232-3746, following chain-of-custody procedures. These laboratories are fully accredited laboratories by the National Institute of Standards and Technology (NIST) through participation in the National Voluntary Laboratory Accreditation Program (NVLAP) lab code #500079-0 and lab code #200860-0, respectively.

The samples were analyzed for asbestos by Polarized Light Microscopy (PLM), using dispersion staining in accordance with U.S. EPA Procedures outlined in 40 CFR 763, Subpart F, Appendix A (AHERA). Utilizing the PLM 600R/R-93/116 method, the result given is a semi-quantitative result (down to <1%) which reflects a calibrated visual estimate from an analyst using both PLM and Stereomicroscopy.

Lead

The two hundred and twenty-six (226) samples obtained from the Subject Property were delivered for analysis to AIH Laboratory of Anaheim, California at (562) 860-2201, following chain-of-custody procedures. AIH Laboratory of Anaheim is a fully accredited laboratory by the CDPH, Environmental Laboratory Accreditation Program and certified by the National Lead Laboratory Accreditation Program (NLLAP).

The samples were analyzed for lead content by Flame Atomic Absorption Spectrometry (AAS) using EPA Methods SW-846 3050B/7000B.

6.0 RESULTS

Asbestos

Based upon the analytical results, asbestos is present in eighteen (18) of the six hundred and fifty-three (653) samples analyzed. All of these samples were considered to be non-friable materials and were obtained from the gray felt pad.

Based upon the analytical results, asbestos is present in the following material:

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Asbestos Type - Percentage</u>	<u>Friability</u>	<u>Est. Qty.</u>
192661-A-0468	Gray Felt Pad	56-0540L – Southbound Bedford Wash, Inner Guard Rail	Chrysotile - 55 %	Non-Friable	6 SF
192661-A-0469	Gray Felt Pad	56-0540L – Southbound Bedford Wash, Inner Guard Rail	Chrysotile - 50 %	Non-Friable	See 468
192661-A-0470	Gray Felt Pad	56-0540L – Southbound Bedford Wash, Inner Guard Rail	Chrysotile - 50 %	Non-Friable	See 468
192661-A-0482	Gray Felt Pad	56-0541L – Southbound Weirick Road Undercrossing, Inner Guard Rail	Chrysotile - 60 %	Non-Friable	6 SF
192661-A-0483	Gray Felt Pad	56-0541L – Southbound Weirick Road Undercrossing, Inner Guard Rail	Chrysotile - 55 %	Non-Friable	See 482
192661-A-0484	Gray Felt Pad	56-0541L – Southbound Weirick Road Undercrossing, Inner Guard Rail	Chrysotile - 50 %	Non-Friable	See 482
192661-A-0493	Gray Felt Pad	56-0559L – Southbound Brown Canyon Wash, Inner Guard Rail	Chrysotile - 25 %	Non-Friable	6 SF
192661-A-0494	Gray Felt Pad	56-0559L – Southbound Brown Canyon Wash, Inner Guard Rail	Chrysotile - 25 %	Non-Friable	See 493
192661-A-0495	Gray Felt Pad	56-0559L – Southbound Brown Canyon Wash, Inner Guard Rail	Chrysotile - 25 %	Non-Friable	See 493
192661-A-0624	Gray Felt Pad	56-0559R – Northbound Brown Canyon Wash, Inner Guard Rail	Chrysotile - 25 %	Non-Friable	6 SF
192661-A-0625	Gray Felt Pad	56-0559R – Northbound Brown Canyon Wash, Inner Guard Rail	Chrysotile - 25 %	Non-Friable	See 624
192661-A-0626	Gray Felt Pad	56-0559R – Northbound Brown Canyon Wash, Inner Guard Rail	Chrysotile - 25 %	Non-Friable	See 624
192661-A-0639	Gray Felt Pad	56-0541R – Northbound Weirick Road Undercrossing, Inner Guard Rail	Chrysotile - 40 %	Non-Friable	6 SF
192661-A-0640	Gray Felt Pad	56-0541R – Northbound Weirick Road Undercrossing, Inner Guard Rail	Chrysotile - 40 %	Non-Friable	See 639
192661-A-0641	Gray Felt Pad	56-0541R – Northbound Weirick Road Undercrossing, Inner Guard Rail	Chrysotile - 45 %	Non-Friable	See 639
192661-A-0645	Gray Felt Pad	56-0540R – Northbound Bedford Wash, Inner Guard Rail	Chrysotile - 45 %	Non-Friable	6 SF
192661-A-0646	Gray Felt Pad	56-0540R – Northbound Bedford Wash, Inner Guard Rail	Chrysotile - 45 %	Non-Friable	See 645
192661-A-0647	Gray Felt Pad	56-0540R – Northbound Bedford Wash, Inner Guard Rail	Chrysotile - 45 %	Non-Friable	See 645

Please refer to Appendix A: Tables: Asbestos Bulk Sample Analysis for detailed sample information.

The homogenous locations for the material containing asbestos are as follows:

<u>Materials</u>	<u>Material Locations</u>
Gray Felt Pad	56-0540L - Southbound Bedford Wash
Gray Felt Pad	56-0541L - Southbound Weirick Road Undercrossing
Gray Felt Pad	56-0559L - Southbound Brown Canyon Wash
Gray Felt Pad	56-0559R - Northbound Brown Canyon Wash
Gray Felt Pad	56-0541R - Northbound Weirick Road Undercrossing
Gray Felt Pad	56-0540R - Northbound Bedford Wash

Lead

Based on the laboratory analytical results, the following materials contained lead content greater than 600 ppm:

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0189	56-0680R – Northbound Temescal Wash, Inside Rail	Rail	D	Light Gray	Concrete	Intact	883	60 SF
192661-L-0200	56-0677R – Northbound Indian Wash, Inside Rail	Lane Surface Paint	-	Yellow	Concrete	Intact	12,587	125 SF

Please refer to Appendix B: Tables: Lead Paint Chip Sample Analysis for detailed sample information.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Asbestos

The results of this limited assessment indicate that ACM are present at the Subject Property and may be impacted by the proposed construction activities. Asbestos was present in the gray felt pad at Bedford Wash Postmile 36.58, Weirick Road Undercrossing Postmile 35.64 and Brown Canyon Wash Postmile 34.72 at 25-60% Chrysotile. These materials are further described in the Appendix A: Tables: Asbestos Bulk Sample Analysis. It appears that some or all of these materials will be impacted by the I-15 ELPSE.

Prior to renovation, specifications should be properly modified to incorporate the removal of ACM. If removal of ACM is required in connection with demolition, such work should only be performed by personnel who are appropriately trained, experienced, and registered. Intentional disturbance of ACM should be performed in a manner such that emissions are controlled. Control measures should include, but not be limited to:

- wet methods
- encapsulation
- removal with HEPA-filter equipped vacuums
- appropriately labeled polyethylene bags

CAL/OSHA must be notified a minimum of 24 hours prior to the start of any asbestos-abatement project. The local National Emission Standards for Hazardous Air Pollutants (NESHAP) regulatory agency as listed below must be notified 10 working days prior to the start of any demolition or asbestos abatement projects which exceed 100 square feet or 120 linear feet of asbestos-containing material. This project is within the jurisdiction of the SCAQMD, Rule 1403.

Air monitoring relating to such work should be performed by or under the direct supervision of a California State Certified Asbestos Consultant before, during, and after the abatement work, as required by EPA and other regulations.

There are potential liabilities associated with the presence, and removal of ACM. Precautionary measures, as outlined herein, should be taken in accordance with the guidelines set forth by the EPA, Cal/OSHA and other regulatory agencies.

If any further suspect asbestos containing materials are discovered and are to be impacted as part of the renovation activities, they must be sampled for asbestos content prior to being impacted.

Lead

There were two paints/coatings samples identified at the Subject Property with lead content sufficient to be categorized as LBP. The light gray paint on the rail at the Northbound Temescal Wash Postmile 28.04 and the yellow lane surface paint at the Northbound Indian Wash Postmile 30.09 were detected well above the Cal/OSHA 600 ppm level for determining LBP. These materials are further described in the Appendix B: Tables: Lead Paint Chip Sample Analysis. It appears that some or all of these materials will be impacted by the I-15 ELPSE.

Lead is a hazardous substance and poses a health risk when impacted, damaged or sufficiently deteriorated to produce respirable/digestible dust. If lead-based/containing components are to be impacted during work activities including, but not limited to, sanding, chipping, demolition, renovation, and/or construction, specifications should incorporate detailed methodology for proper stabilization and/or removal of the lead surfaces.

For any materials that will remain in place, a Lead Management Program should be prepared and implemented to avoid incidental and/or accidental disturbance of LCM present at the subject site. The program should set forth operational and maintenance guidelines to minimize lead consumption or exposures that may be caused by age, normal wear and tear, delamination, building maintenance, repairs, renovation and other activities that may impact LCM. Further assessments should be scheduled with a licensed Risk Assessor/Inspector on an annual basis, to ensure LCM conditions remain stable. Any signs of paint deterioration should be immediately stabilized. Any work activities that may exceed the Cal/OSHA action level of lead particles of 30 micrograms per cubic meter (ug/m³) or air for an eight-hour time weighted average must comply with Cal/OSHA requirements. Any work activities meeting or exceeding the Cal/OSHA Permissible Exposure Limit of exposure to lead particles of ug/m³ of air shall comply with Title 8 CCR 1532.1-Lead Construction Standard. All workers and supervisors shall be trained by a state-accredited training provider and certified by the CDPH (worker or supervisor certified). All employee exposure monitoring must be adhered to in accordance with Cal/OSHA requirements.

8.0 LIMITATIONS

Purpose and Use of Report

The conclusions presented in this report are professional opinions based solely upon visual observations at the Subject Property and laboratory analysis of the tested samples. They are intended exclusively for the purpose outlined herein, and for the Subject Property location and project indicated.

This assessment report is not intended as specifications for asbestos and/or lead abatement and it should not be used as a stand-alone asbestos or lead abatement bid document. Recognizing that even the most comprehensive assessment may fail to detect ACMs or LCMs at a particular site, this study was not intended to identify all potential ACMs or LCMs present at the Subject Property for such reasons as the possible existence of buried, covered and inaccessible areas and features. A-Tech does not warrant that all sub-surface, bridge cavity or other inaccessible materials were tested. A-Tech did not test any live electrical components. These components may contain untested suspect ACMs or LCMs. If any suspect ACMs or LCMs not tested herein are discovered, they must be tested prior to impact.

This report is intended for the sole use of the contracted client and its authorized representatives. The exchange of information was unique between A-Tech and the client regarding the mutually agreed upon Scope of Service. Unless explicitly authorized in this report, no third party is beneficiary to the contract or findings of this report. The unauthorized use or reliance of this document or the findings, conclusion or recommendations presented herein, by any other party or parties is at the sole risk of any such third party. For the same reasons, no warranties or representations, expressed or implied in this report, are provided to any such third party.

Samples

This limited inspection was planned, developed, and implemented based on A-Tech's Scope of Services provided by the client. This limited inspection was conducted in compliance with current regulatory protocols. A-Tech utilized state-of-the-art-practices and techniques in accordance with regulatory standards, while performing this limited inspection. A-Tech's evaluation of the relative risk of exposure to asbestos and lead, identified during this limited inspection, is based on conditions observed at the time of the limited inspection.

Samples were collected from materials of similar appearance, age, use, type, color and/or texture. However, this does not guarantee that they are of the same composition. A-Tech cannot be responsible for changing conditions that may alter the relative lead exposure risk or for future changes in accepted lead sampling methodology. The floor plans and actual test results for each of the tested areas are contained within this report. No guarantee is expressed or implied that all ACMs or LCMs have been identified. **Asbestos and Lead quantities are estimates only (see Appendix A: Tables: Asbestos Bulk Sample Analysis and Appendix B: Tables: Lead Paint Chip Sample Analysis for Estimated Quantity). Exact quantities should be verified by the abatement contractor prior to removal.**

Exclusion

A-Tech assumes no responsibility for the identification of suspect ACMs or LCMs, which were not included in the client's Scope of Service or were concealed and/or inaccessible (i.e. bridge cavities, wood framing, metal rods in columns, etc.) However, A-Tech makes every attempt possible to test all designated areas for lead (i.e. check between bridge and banking, bridge deck, between railings and concrete dividers, etc.). However, A-Tech makes every attempt possible to inspect all designated areas for suspect ACMs or LCMs.

There are potential liabilities associated with the presence, and removal, of LCM. Precautionary measures, as outlined herein, should be taken in accordance with the guidelines set forth by the EPA, Cal/OSHA and other regulatory agencies.

Services performed by A-Tech were conducted in a manner above the care and skill ordinarily and currently exercised by members of the same profession that even the most comprehensive scope of services might fail to detect environmental liabilities on a particular site. Therefore, A-Tech cannot act as insurers and cannot "certify" that a site is free of environmental contamination.

Warranty

No expressed or implied representation or warranty is included or intended in our reports, except that our services were performed, within the limits prescribed by the Scope of Services, with the customary thoroughness and competence of our profession.

Information and opinions presented herein apply to the existing and reasonable foreseeable Subject Property conditions at the time of our investigation. They cannot necessarily apply to Subject Property changes of which this office is unaware and have not had the opportunity to review. Changes in the conditions of this property may occur with time due to natural processes or works of man on the subject property or on adjacent properties. Changes in applicable standards may also occur as a result of legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part by changes beyond our control.

A-Tech trusts that the information presented herein provides the data you require. Should you have any questions or comments please contact A-Tech Consulting, Inc. at (800) 434-1025.

Respectfully submitted,
A-Tech Consulting, Inc.



Robert L. Williams, DPH, CAC, CIEC
Certified Asbestos Consultant #96-1980

Appendix A:

Tables: Asbestos Bulk Sample Analysis

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0542L/R- Southbound/Northbound Temescal Canyon Road Undercrossing

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0001	Concrete	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0002	Concrete	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0003	Concrete	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0004	Black Mastic	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0005	Black Mastic	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0006	Black Mastic	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0007	Light Tan Mastic	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0008	Light Tan Mastic	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0009	Light Tan Mastic	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0010	Gray Mastic	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0011	Gray Mastic	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0012	Gray Mastic	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0013	Black Rubber Expansion Joint Pad	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0014	Black Rubber Expansion Joint Pad	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0015	Black Rubber Expansion Joint Pad	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0016	White Surface Stripe Traffic Lane Paint	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0017	White Surface Stripe Traffic Lane Paint	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0018	White Surface Stripe Traffic Lane Paint	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0496	Black Asphalt	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0497	Black Asphalt	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0498	Black Asphalt	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0499	Black Lane Mastic	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0500	Black Lane Mastic	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0501	White Styrofoam	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0502	White Styrofoam	56-0542L - Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0627	Black Asphalt	56-0542R - Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0628	Black Asphalt	56-0542R - Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0629	Black Asphalt	56-0542R - Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0630	Black Lane Mastic	56-0542R - Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0631	Black Lane Mastic	56-0542R - Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0632	White Styrofoam	56-0542R - Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0633	White Styrofoam	56-0542R - Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0559L/R – Southbound/Northbound Brown Canyon Wash

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0019	Concrete	56-0559L - Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0020	Concrete	56-0559L - Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0021	Concrete	56-0559L - Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0022	Light Tan Mastic	56-0559L - Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0023	Light Tan Mastic	56-0559L - Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0024	Light Tan Mastic	56-0559L - Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0025	White Surface Stripe Traffic Lane Paint	56-0559L - Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0026	White Surface Stripe Traffic Lane Paint	56-0559L - Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0027	White Surface Stripe Traffic Lane Paint	56-0559L - Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0421	Concrete	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0422	Concrete	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0423	Concrete	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0424	Black Asphalt	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0425	Black Asphalt	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0426	Black Asphalt	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0427	White Surface Stripe Traffic Lane Paint	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0428	White Surface Stripe Traffic Lane Paint	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0429	White Surface Stripe Traffic Lane Paint	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0485	Black Asphalt	56-0559L – Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0486	Black Asphalt	56-0559L – Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0487	Black Asphalt	56-0559L – Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0488	Gray Mastic	56-0559L – Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0489	Gray Mastic	56-0559L – Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0490	Gray Mastic	56-0559L – Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0491	Black Lane Mastic	56-0559L – Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0492	Black Lane Mastic	56-0559L – Southbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0616	Black Asphalt	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0617	Black Asphalt	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0618	Black Asphalt	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0619	Black Lane Mastic	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0620	Black Lane Mastic	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0621	Gray Mastic	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0622	Gray Mastic	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0623	Gray Mastic	56-0559R – Northbound Brown Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0559L/R – Southbound/Northbound Brown Canyon Wash

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0493	Gray Felt Pad	56-0559L – Southbound Brown Canyon Wash, Inner Guard Rail	Positive	Chrysotile - 25 %	Misc.	Non-Friable	Good	Moderate	6 SF
192661-A-0494	Gray Felt Pad	56-0559L – Southbound Brown Canyon Wash, Inner Guard Rail	Positive	Chrysotile - 25 %	Misc.	Non-Friable	Good	Moderate	See 493
192661-A-0495	Gray Felt Pad	56-0559L – Southbound Brown Canyon Wash, Inner Guard Rail	Positive	Chrysotile - 25 %	Misc.	Non-Friable	Good	Moderate	See 493
192661-A-0624	Gray Felt Pad	56-0559R – Northbound Brown Canyon Wash, Inner Guard Rail	Positive	Chrysotile - 25 %	Misc.	Non-Friable	Good	Moderate	6 SF
192661-A-0625	Gray Felt Pad	56-0559R – Northbound Brown Canyon Wash, Inner Guard Rail	Positive	Chrysotile - 25 %	Misc.	Non-Friable	Good	Moderate	See 624
192661-A-0626	Gray Felt Pad	56-0559R – Northbound Brown Canyon Wash, Inner Guard Rail	Positive	Chrysotile - 25 %	Misc.	Non-Friable	Good	Moderate	See 624

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0543L/R – Southbound/Northbound Coldwater Wash

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0028	Concrete	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0029	Concrete	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0030	Concrete	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0031	Black Mastic	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0032	Black Mastic	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0033	Black Mastic	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0034	Light Tan Mastic	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0035	Light Tan Mastic	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0036	Light Tan Mastic	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0037	White Surface Stripe Traffic Lane Paint	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0038	White Surface Stripe Traffic Lane Paint	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0039	White Surface Stripe Traffic Lane Paint	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0040	Black Rubber Expansion Joint Pad	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0041	Black Rubber Expansion Joint Pad	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0042	Black Rubber Expansion Joint Pad	56-0543L - Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0389	Concrete	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0390	Concrete	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0391	Concrete	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0392	Light Tan Mastic	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0393	Light Tan Mastic	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0394	Light Tan Mastic	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0395	Black Mastic	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0396	Black Mastic	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0397	Black Mastic	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0398	Black Asphalt	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0399	Black Asphalt	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0400	Black Asphalt	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0401	Black Rubber Expansion Joint Pad	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0402	Black Rubber Expansion Joint Pad	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0403	Black Rubber Expansion Joint Pad	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0404	White Surface Stripe Traffic Lane Paint	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0405	White Surface Stripe Traffic Lane Paint	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0406	White Surface Stripe Traffic Lane Paint	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0503	Black Asphalt	56-0543L – Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0504	Black Asphalt	56-0543L – Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0505	Black Asphalt	56-0543L – Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0506	Black Lane Mastic	56-0543L – Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0507	Black Lane Mastic	56-0543L – Southbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0611	Black Asphalt	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0612	Black Asphalt	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0613	Black Asphalt	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0614	Black Lane Mastic	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0615	Black Lane Mastic	56-0543R – Northbound Coldwater Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0674L/R – Southbound/Northbound Mayhew Wash

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0043	Concrete	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0044	Concrete	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0045	Concrete	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0046	Light Tan Mastic	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0047	Light Tan Mastic	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0048	Light Tan Mastic	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0049	Black Mastic	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0050	Black Mastic	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0051	Black Mastic	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0052	Black Rubber Expansion Joint Pad	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0053	Black Rubber Expansion Joint Pad	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0054	Black Rubber Expansion Joint Pad	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0055	White Surface Stripe Traffic Lane Paint	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0363	Concrete	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0364	Concrete	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0365	Concrete	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0366	Light Tan Mastic	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0367	Light Tan Mastic	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0368	Light Tan Mastic	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0369	Black Asphalt	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0370	Black Asphalt	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0371	Black Asphalt	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0372	Black Mastic	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0373	Black Mastic	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0374	Black Mastic	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0375	Brown Mastic	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0376	Brown Mastic	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0377	Brown Mastic	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0378	Black Rubber Expansion Joint Pad	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0379	Black Rubber Expansion Joint Pad	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0380	Black Rubber Expansion Joint Pad	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0381	Gray Rubber Expansion Joint Pad	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0382	Gray Rubber Expansion Joint Pad	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0383	Gray Rubber Expansion Joint Pad	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0384	White Surface Stripe Traffic Lane Paint	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0385	White Surface Stripe Traffic Lane Paint	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0386	White Surface Stripe Traffic Lane Paint	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0387	White Styrofoam	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0388	White Styrofoam	56-0674R – Northbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0510	Black Asphalt	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0512	Black Lane Mastic	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0513	White Styrofoam	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0514	White Styrofoam	56-0674L - Southbound Mayhew Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0675L – Southbound Temescal Canyon Road Undercrossing

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0056	White Surface Stripe Traffic Lane Paint	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0057	White Surface Stripe Traffic Lane Paint	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0058	Concrete	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0059	Concrete	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0060	Concrete	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0061	Black Mastic	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0062	Black Mastic	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0063	Black Mastic	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0064	Yellow/Grey Mastic	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0065	Yellow/Grey Mastic	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0066	Yellow/Grey Mastic	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0067	Black Rubber Expansion Joint Pad	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0068	Black Rubber Expansion Joint Pad	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0069	Black Rubber Expansion Joint Pad	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0344	Concrete	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0345	Concrete	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0346	Concrete	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0347	Black Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0348	Black Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0349	Black Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0350	Light Tan Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0351	Light Tan Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0352	Light Tan Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0353	Black Rubber Expansion Joint Pad	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0354	Black Rubber Expansion Joint Pad	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0355	Black Rubber Expansion Joint Pad	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0356	Brown Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0357	Brown Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0358	Brown Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0359	White Styrofoam	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0360	White Styrofoam	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0361	Gray Rubber Expansion Joint Pad	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0362	Gray Rubber Expansion Joint Pad	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0407	Concrete	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0408	Concrete	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0409	Concrete	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0410	Black Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0411	Black Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0412	Black Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0413	Black Rubber Expansion Joint Pad	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0414	Black Rubber Expansion Joint Pad	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0415	Black Rubber Expansion Joint Pad	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0416	White Surface Stripe Traffic Lane Paint	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0417	White Surface Stripe Traffic Lane Paint	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0418	White Surface Stripe Traffic Lane Paint	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0419	White Styrofoam	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0420	White Styrofoam	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0508	Black Asphalt	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0509	Black Asphalt	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0511	Black Lane Mastic	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0515	White Styrofoam	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0516	White Styrofoam	56-0675L – Southbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0606	Black Asphalt	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0607	Black Asphalt	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0608	Black Asphalt	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0609	Black Lane Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0610	Black Lane Mastic	56-0675R – Northbound Temescal Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0676L/R – Southbound/Northbound Indian Truck Trail Undercrossing

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0070	Concrete	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0071	Concrete	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0072	Concrete	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0073	Black Mastic	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0074	Black Mastic	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0075	Black Mastic	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0076	Light Tan Mastic	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0077	Light Tan Mastic	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0078	Light Tan Mastic	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0079	Black Rubber Expansion Joint Pad	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0080	Black Rubber Expansion Joint Pad	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0081	Black Rubber Expansion Joint Pad	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0082	Light Brown Mastic	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0083	Light Brown Mastic	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0084	Light Brown Mastic	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0085	White Surface Stripe Traffic Lane Paint	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0086	White Surface Stripe Traffic Lane Paint	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0087	White Surface Stripe Traffic Lane Paint	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0324	Concrete	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0325	Concrete	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0326	Concrete	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0327	Black Mastic	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0328	Black Mastic	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0329	Black Mastic	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0330	Light Tan Mastic	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0331	Light Tan Mastic	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0332	Light Tan Mastic	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0333	Black Rubber Expansion Joint Pad	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0334	Black Rubber Expansion Joint Pad	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0335	Black Rubber Expansion Joint Pad	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0336	Gray Mastic	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0337	Gray Mastic	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0338	Gray Mastic	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0339	White Surface Stripe Traffic Lane Paint	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0340	White Surface Stripe Traffic Lane Paint	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0341	White Surface Stripe Traffic Lane Paint	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0342	Black Padding	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0343	Black Padding	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0517	Black Asphalt	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0518	Black Asphalt	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0519	Black Asphalt	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0520	Black Lane Mastic	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0521	Black Lane Mastic	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0522	Black Padding	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0523	Black Padding	56-0676L – Southbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0601	Black Asphalt	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0602	Black Asphalt	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0603	Black Asphalt	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0604	Black Lane Mastic	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0605	Black Lane Mastic	56-0676R – Northbound Indian Truck Trail Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0677L/R – Southbound/Northbound Indian Wash

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0088	Concrete	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0089	Concrete	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0090	Concrete	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0091	Black Mastic	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0092	Black Mastic	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0093	Black Mastic	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0094	Light Tan Mastic	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0095	Light Tan Mastic	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0096	Light Tan Mastic	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0097	Black Rubber Expansion Joint Pad	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0098	Black Rubber Expansion Joint Pad	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0099	Black Rubber Expansion Joint Pad	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0100	White Surface Stripe Traffic Lane Paint	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0101	White Surface Stripe Traffic Lane Paint	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0102	White Surface Stripe Traffic Lane Paint	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0309	Concrete	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0310	Concrete	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0311	Concrete	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0312	Black Mastic	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0313	Black Mastic	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0314	Black Mastic	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0315	Light Tan Mastic	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0316	Light Tan Mastic	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0317	Light Tan Mastic	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0318	Black Rubber Expansion Joint Pad	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0319	Black Rubber Expansion Joint Pad	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0320	Black Rubber Expansion Joint Pad	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0321	White Surface Stripe Traffic Lane Paint	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0322	White Surface Stripe Traffic Lane Paint	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0323	White Surface Stripe Traffic Lane Paint	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0524	Black Asphalt	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0525	Black Asphalt	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0526	Black Asphalt	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0527	Black Lane Mastic	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0528	Black Lane Mastic	56-0677L – Southbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0596	Black Asphalt	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0597	Black Asphalt	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0598	Black Asphalt	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0599	Black Lane Mastic	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0600	Black Lane Mastic	56-0677R – Northbound Indian Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0678L/R – Southbound/Northbound Horsethief Canyon Wash

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0103	Concrete	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0104	Concrete	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0105	Concrete	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0106	Black Mastic	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0107	Black Mastic	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0108	Black Mastic	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0109	Light Tan Mastic	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0110	Light Tan Mastic	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0111	Light Tan Mastic	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0112	Gray Mastic	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0113	Gray Mastic	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0114	Gray Mastic	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0115	Black Rubber Expansion Joint Pad	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0116	Black Rubber Expansion Joint Pad	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0117	Black Rubber Expansion Joint Pad	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0118	White Surface Stripe Traffic Lane Paint	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0119	White Surface Stripe Traffic Lane Paint	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0120	White Surface Stripe Traffic Lane Paint	56-0678L – Southbound Horsethief Wash Bridge	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0294	Concrete	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0295	Concrete	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0296	Concrete	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0297	Black Mastic	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0298	Black Mastic	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0299	Black Mastic	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0300	Light Tan Mastic	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0301	Light Tan Mastic	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0302	Light Tan Mastic	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0303	Black Rubber Expansion Joint Pad	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0304	Black Rubber Expansion Joint Pad	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0305	Black Rubber Expansion Joint Pad	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0306	White Surface Stripe Traffic Lane Paint	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0307	White Surface Stripe Traffic Lane Paint	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0308	White Surface Stripe Traffic Lane Paint	56-0678R – Northbound Horsethief Wash Bridge	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0529	Asphalt	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0530	Asphalt	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0531	Asphalt	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0532	Black Lane Mastic	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0533	Black Lane Mastic	56-0678L – Southbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0591	Black Asphalt	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0592	Black Asphalt	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0593	Black Asphalt	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0594	Black Lane Mastic	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0595	Black Lane Mastic	56-0678R – Northbound Horsethief Canyon Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0679L/R – Southbound/Northbound Horsethief Canyon Road Undercrossing

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0121	Concrete	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0122	Concrete	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0123	Concrete	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0124	Black Mastic	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0125	Black Mastic	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0126	Black Mastic	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0127	Light Tan Mastic	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0128	Light Tan Mastic	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0129	Light Tan Mastic	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0130	Black Rubber Expansion Joint Pad	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0131	Black Rubber Expansion Joint Pad	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0132	Black Rubber Expansion Joint Pad	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0133	Light Brown Mastic	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0134	Light Brown Mastic	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0135	Light Brown Mastic	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0136	White Surface Stripe Traffic Lane Paint	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0137	White Surface Stripe Traffic Lane Paint	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0138	White Surface Stripe Traffic Lane Paint	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0274	Concrete	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0275	Concrete	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0276	Concrete	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0277	Black Mastic	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0278	Black Mastic	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0279	Black Mastic	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0280	Light Tan Mastic	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0281	Light Tan Mastic	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0282	Light Tan Mastic	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0283	Gray Mastic	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0284	Gray Mastic	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0285	Gray Mastic	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0286	Black Rubber Expansion Joint Pad	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0287	Black Rubber Expansion Joint Pad	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0288	Black Rubber Expansion Joint Pad	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0289	White Styrofoam	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0290	White Styrofoam	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0291	White Surface Stripe Traffic Lane Paint	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0292	White Surface Stripe Traffic Lane Paint	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0293	White Surface Stripe Traffic Lane Paint	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0534	Black Asphalt	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0535	Black Asphalt	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0536	Black Asphalt	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0537	Dark Gray Mastic	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0538	Dark Gray Mastic	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0539	Black Lane Mastic	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0540	Black Lane Mastic	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0541	White Styrofoam	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0542	White Styrofoam	56-0679L – Southbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0586	Black Asphalt	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0587	Black Asphalt	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0588	Black Asphalt	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0589	Black Lane Mastic	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0590	Black Lane Mastic	56-0679R – Northbound Horsethief Canyon Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-068IL/R – Southbound/Northbound Temescal Canyon Road Overhead

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0139	Concrete	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0140	Concrete	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0141	Concrete	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0142	Black Mastic	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0143	Black Mastic	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0144	Black Mastic	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0145	Light Brown Mastic	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0146	Light Brown Mastic	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0147	Light Brown Mastic	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0148	Black Rubber Expansion Joint Pad	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0149	Black Rubber Expansion Joint Pad	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0150	Black Rubber Expansion Joint Pad	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0151	Gray Mastic	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0152	Gray Mastic	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0153	Gray Mastic	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0154	White Surface Stripe Traffic Lane Paint	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0155	White Surface Stripe Traffic Lane Paint	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0156	White Surface Stripe Traffic Lane Paint	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0245	Concrete	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0246	Concrete	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0247	Concrete	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0248	Black Mastic	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0249	Black Mastic	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0250	Black Mastic	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0251	Black Rubber Expansion Joint Pad	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0252	Black Rubber Expansion Joint Pad	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0253	Black Rubber Expansion Joint Pad	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0254	White Surface Stripe Traffic Lane Paint	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0255	White Surface Stripe Traffic Lane Paint	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0256	White Surface Stripe Traffic Lane Paint	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0257	White Styrofoam	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0258	White Styrofoam	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0548	Black Asphalt	56-0681L – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0549	Black Asphalt	56-0681L – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0550	Black Asphalt	56-0681L – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0551	Black Lane Mastic	56-0681L – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0552	Black Lane Mastic	56-0681L – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0553	White Styrofoam	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0554	White Styrofoam	56-068IL – Southbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0576	Black Asphalt	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0577	Black Asphalt	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0578	Black Asphalt	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0579	Black Lane Mastic	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0580	Black Lane Mastic	56-0681R – Northbound Temescal Canyon Road Overhead	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0682L/R – Southbound/Northbound Lake Street Undercrossing

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0157	Concrete	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0158	Concrete	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0159	Concrete	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0160	Black Mastic	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0161	Black Mastic	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0162	Black Mastic	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0163	Light Tan Mastic	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0164	Light Tan Mastic	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0165	Light Tan Mastic	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0166	Gray Mastic	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0167	Gray Mastic	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0168	Gray Mastic	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0169	Black Rubber Expansion Joint Pad	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0170	Black Rubber Expansion Joint Pad	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0171	Black Rubber Expansion Joint Pad	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0172	White Surface Stripe Traffic Lane Paint	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0173	White Surface Stripe Traffic Lane Paint	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0174	White Surface Stripe Traffic Lane Paint	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0230	Concrete	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0231	Concrete	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0232	Concrete	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0233	Black Mastic	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0234	Black Mastic	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0235	Black Mastic	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0236	Light Tan Mastic	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0237	Light Tan Mastic	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0238	Light Tan Mastic	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0239	Black Rubber Expansion Joint Pad	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0240	Black Rubber Expansion Joint Pad	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0241	Black Rubber Expansion Joint Pad	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0242	White Surface Stripe Traffic Lane Paint	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0243	White Surface Stripe Traffic Lane Paint	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0244	White Surface Stripe Traffic Lane Paint	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0555	Black Asphalt	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0556	Black Asphalt	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0557	Black Asphalt	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0558	Black Lane Mastic	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0559	Black Lane Mastic	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0560	White Styrofoam	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0561	White Styrofoam	56-0682L – Southbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0572	Black Lane Mastic	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0573	Black Lane Mastic	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0574	White Styrofoam	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0575	White Styrofoam	56-0682R – Northbound Lake Street Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0680L/R – Southbound/Northbound Temescal Wash

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0175	Concrete	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0176	Concrete	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0177	Concrete	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0178	Black Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0179	Black Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0180	Black Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0181	Light Tan Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0182	Light Tan Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0183	Light Tan Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0184	Gray Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0185	Gray Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0186	Gray Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0187	Black Rubber Expansion Joint Pad	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0188	Black Rubber Expansion Joint Pad	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0189	Black Rubber Expansion Joint Pad	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0190	Light Brown Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0191	Light Brown Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0192	Light Brown Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0193	White Surface Stripe Traffic Lane Paint	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0194	White Surface Stripe Traffic Lane Paint	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0195	White Surface Stripe Traffic Lane Paint	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0259	Concrete	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0260	Concrete	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0261	Concrete	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0262	Black Mastic	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0263	Black Mastic	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0264	Black Mastic	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0265	Light Tan Mastic	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0266	Light Tan Mastic	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0267	Light Tan Mastic	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0268	Black Rubber Expansion Joint Pad	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0269	Black Rubber Expansion Joint Pad	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0270	Black Rubber Expansion Joint Pad	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0271	White Surface Stripe Traffic Lane Paint	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0272	White Surface Stripe Traffic Lane Paint	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0273	White Surface Stripe Traffic Lane Paint	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0543	Black Asphalt	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0544	Black Asphalt	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0545	Black Asphalt	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0546	Black Lane Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0547	Black Lane Mastic	56-0680L – Southbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0581	Black Asphalt	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0582	Black Asphalt	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0583	Black Asphalt	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0584	Black Lane Mastic	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0585	Black Lane Mastic	56-0680R – Northbound Temescal Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0726L/R – Southbound/Northbound Gavilan Wash

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0196	Concrete	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0197	Concrete	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0198	Concrete	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0199	Black Mastic	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0200	Black Mastic	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0201	Black Mastic	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0202	Gray Mastic	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0203	Gray Mastic	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0204	Gray Mastic	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0205	Light Brown Mastic	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0206	Light Brown Mastic	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0207	Light Brown Mastic	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0208	Black Rubber Expansion Joint Pad	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0209	Black Rubber Expansion Joint Pad	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0210	Black Rubber Expansion Joint Pad	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0211	White Surface Stripe Traffic Lane Paint	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0212	White Surface Stripe Traffic Lane Paint	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0213	White Surface Stripe Traffic Lane Paint	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0214	White Styrofoam	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0215	White Styrofoam	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0216	Concrete	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0217	Concrete	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0218	Concrete	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0219	Black Mastic	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0220	Black Mastic	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0221	Black Mastic	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0222	Black Rubber Expansion Joint Pad	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0223	Black Rubber Expansion Joint Pad	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0224	Black Rubber Expansion Joint Pad	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0225	White Surface Stripe Traffic Lane Paint	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0226	White Surface Stripe Traffic Lane Paint	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0227	White Surface Stripe Traffic Lane Paint	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0228	White Styrofoam	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0229	White Styrofoam	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0562	Black Asphalt	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0563	Black Asphalt	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0564	Black Asphalt	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0565	Black Lane Mastic	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0566	Black Lane Mastic	56-0726L – Southbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0567	Black Asphalt	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0568	Black Asphalt	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0569	Black Asphalt	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0570	Black Lane Mastic	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0571	Black Lane Mastic	56-0726R – Northbound Gavilan Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0541L/R – Southbound/Northbound Weirick Road Undercrossing

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0430	Concrete	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0431	Concrete	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0432	Concrete	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0433	Gray Mastic	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0434	Gray Mastic	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0435	Gray Mastic	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0436	Black Asphalt	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0437	Black Asphalt	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0438	Black Asphalt	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0439	White Surface Stripe Traffic Lane Paint	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0440	White Surface Stripe Traffic Lane Paint	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0441	White Surface Stripe Traffic Lane Paint	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0442	White Styrofoam	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0443	White Styrofoam	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0471	Concrete	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0472	Concrete	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0473	Concrete	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0474	Black Lane Mastic	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0475	Black Lane Mastic	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0476	Black Asphalt	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0477	Black Asphalt	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0478	Black Asphalt	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0479	Gray Mastic	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0480	Gray Mastic	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0481	Gray Mastic	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0634	Black Lane Mastic	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0635	Black Lane Mastic	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0636	Gray Mastic	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0637	Gray Mastic	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0638	Gray Mastic	56-0541R – Northbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0651	White Surface Stripe Traffic Lane Paint	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0652	White Surface Stripe Traffic Lane Paint	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0653	White Surface Stripe Traffic Lane Paint	56-0541L – Southbound Weirick Road Undercrossing	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0541L/R – Southbound/Northbound Weirick Road Undercrossing

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0482	Gray Felt Pad	56-0541L – Southbound Weirick Road Undercrossing, Inner Guard Rail	Positive	Chrysotile - 60 %	Misc.	Non-Friable	Good	Moderate	6 SF
192661-A-0483	Gray Felt Pad	56-0541L – Southbound Weirick Road Undercrossing, Inner Guard Rail	Positive	Chrysotile - 55 %	Misc.	Non-Friable	Good	Moderate	See 482
192661-A-0484	Gray Felt Pad	56-0541L – Southbound Weirick Road Undercrossing, Inner Guard Rail	Positive	Chrysotile - 50 %	Misc.	Non-Friable	Good	Moderate	See 482
192661-A-0639	Gray Felt Pad	56-0541R – Northbound Weirick Road Undercrossing, Inner Guard Rail	Positive	Chrysotile - 40 %	Misc.	Non-Friable	Good	Moderate	6 SF
192661-A-0640	Gray Felt Pad	56-0541R – Northbound Weirick Road Undercrossing, Inner Guard Rail	Positive	Chrysotile - 40 %	Misc.	Non-Friable	Good	Moderate	See 639
192661-A-0641	Gray Felt Pad	56-0541R – Northbound Weirick Road Undercrossing, Inner Guard Rail	Positive	Chrysotile - 45 %	Misc.	Non-Friable	Good	Moderate	See 639

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0540L/R – Southbound/Northbound Bedford Wash

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0444	Concrete	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0445	Concrete	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0446	Concrete	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0447	Gray Mastic	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0448	Gray Mastic	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0449	Gray Mastic	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0450	Black Asphalt	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0451	Black Asphalt	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0452	Black Asphalt	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0453	Light Brown Mastic	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0454	Light Brown Mastic	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0455	Light Brown Mastic	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0456	White Surface Stripe Traffic Lane Paint	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0457	White Surface Stripe Traffic Lane Paint	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0458	White Surface Stripe Traffic Lane Paint	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0459	Concrete	56-0540L – Southbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0460	Concrete	56-0540L – Southbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0461	Concrete	56-0540L – Southbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0462	Gray Mastic	56-0540L – Southbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0463	Gray Mastic	56-0540L – Southbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0464	Gray Mastic	56-0540L – Southbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0465	Black Asphalt	56-0540L – Southbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0466	Black Asphalt	56-0540L – Southbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0467	Black Asphalt	56-0540L – Southbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A



<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0642	Light Gray Mastic	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0643	Light Gray Mastic	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0644	Light Gray Mastic	56-0540R – Northbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0648	White Surface Stripe Traffic Lane Paint	56-0540L – Southbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0649	White Surface Stripe Traffic Lane Paint	56-0540L – Southbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A
192661-A-0650	White Surface Stripe Traffic Lane Paint	56-0540L – Southbound Bedford Wash	Negative	None Detected	N/A	N/A	N/A	N/A	N/A

LEGEND:

N/A: Not Applicable

Asbestos Bulk Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0540L/R – Southbound/Northbound Bedford Wash

<u>Sample Number</u>	<u>Material</u>	<u>Sample Locations</u>	<u>Pos/Neg</u>	<u>Asbestos Type - Percentage</u>	<u>Classification</u>	<u>Friability</u>	<u>Cond.</u>	<u>Access.</u>	<u>Est. Qty.</u>
192661-A-0468	Gray Felt Pad	56-0540L – Southbound Bedford Wash, Inner Guard Rail	Positive	Chrysotile - 55 %	Misc.	Non-Friable	Good	Moderate	6 SF
192661-A-0469	Gray Felt Pad	56-0540L – Southbound Bedford Wash, Inner Guard Rail	Positive	Chrysotile - 50 %	Misc.	Non-Friable	Good	Moderate	See 468
192661-A-0470	Gray Felt Pad	56-0540L – Southbound Bedford Wash, Inner Guard Rail	Positive	Chrysotile - 50 %	Misc.	Non-Friable	Good	Moderate	See 468
192661-A-0645	Gray Felt Pad	56-0540R – Northbound Bedford Wash, Inner Guard Rail	Positive	Chrysotile - 45 %	Misc.	Non-Friable	Good	Moderate	6 SF
192661-A-0646	Gray Felt Pad	56-0540R – Northbound Bedford Wash, Inner Guard Rail	Positive	Chrysotile - 45 %	Misc.	Non-Friable	Good	Moderate	See 645
192661-A-0647	Gray Felt Pad	56-0540R – Northbound Bedford Wash, Inner Guard Rail	Positive	Chrysotile - 45 %	Misc.	Non-Friable	Good	Moderate	See 645

LEGEND:

N/A: Not Applicable

Appendix B:

Tables: Lead Paint Chip Analysis

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0542L – Southbound/Northbound Temescal Canyon Road Undercrossing

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0001	56-0542L – Southbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0002	56-0542L – Southbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0003	56-0542L – Southbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	D	Dark Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0004	56-0542L – Southbound Temescal Canyon Road Undercrossing, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0112	56-0542R – Northbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0113	56-0542R – Northbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	B	Dark Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0114	56-0542R – Northbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	B	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0115	56-0542R – Northbound Temescal Canyon Road Undercrossing, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0135	56-0542L – Southbound Temescal Canyon Road Undercrossing, Inside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0136	56-0542L – Southbound Temescal Canyon Road Undercrossing, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0217	56-0542R – Northbound Temescal Canyon Road Undercrossing, Inside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A



<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0218	56-0542R– Northbound Temescal Canyon Road Undercrossing, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0559L – Southbound/Northbound Brown Canyon Wash

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0005	56-0559L – Southbound Brown Canyon Wash, Outside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0006	56-0559L – Southbound Brown Canyon Wash, Outside Rail	Rail	D	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0007	56-0559L – Southbound Brown Canyon Wash, Outside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0008	56-0559L – Southbound Brown Canyon Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0116	56-0559R – Northbound Brown Canyon Wash, Outside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0117	56-0559R – Northbound Brown Canyon Wash, Outside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0118	56-0559R – Northbound Brown Canyon Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0119	56-0559R – Northbound Brown Canyon Wash, Outside Rail	Bridge	B	Gray Composite	Negative	Concrete	Intact	High	<200	N/A
192661-L-0120	56-0559R – Northbound Brown Canyon Wash, Outside Rail	Rail	B	Off-White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0132	56-0559L – Southbound Brown Canyon Wash, Inside Rail	Rail	B	Light Green	Negative	Concrete	Intact	High	359	N/A
192661-L-0133	56-0559L – Southbound Brown Canyon Wash, Inside Rail	Bridge	-	Gray Composite	Negative	Concrete	Intact	High	<200	N/A



<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0134	56-0559L – Southbound Brown Canyon Wash, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0214	56-0559R – Northbound Brown Canyon Wash, Inside Rail	Rail	D	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0215	56-0559R – Northbound Brown Canyon Wash, Inside Rail	Rail	-	Orange	Negative	Concrete	Intact	High	<200	N/A
192661-L-0216	56-0559R – Northbound Brown Canyon Wash, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0543L/R – Southbound/Northbound Coldwater Wash

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0009	56-0543L – Southbound Coldwater Wash, Outside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0010	56-0543L – Southbound Coldwater Wash, Outside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0011	56-0543L – Southbound Coldwater Wash, Outside Rail	Rail	D	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0012	56-0543L – Southbound Coldwater Wash, Outside Rail	Rail	D	Dark Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0013	56-0543L – Southbound Coldwater Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0108	56-0543R – Northbound Coldwater Wash, Outside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0109	56-0543R – Northbound Coldwater Wash, Outside Rail	Rail	B	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0110	56-0543R – Northbound Coldwater Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0111	56-0543R – Northbound Coldwater Wash, Outside Rail	Rail	B	Graffiti Composite	Negative	Concrete	Intact	High	<200	N/A
192661-L-0137	56-0543L – Southbound Coldwater Wash, Inside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0138	56-0543L – Southbound Coldwater Wash, Inside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0139	56-0543L – Southbound Coldwater Wash, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0211	56-0543R – Northbound Coldwater Wash, Inside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0212	56-0543R – Northbound Coldwater Wash, Inside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0213	56-0543R – Northbound Coldwater Wash, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0674L/R – Southbound/Northbound Mayhew Wash

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0014	56-0674L – Southbound Mayhew Wash, Outside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0015	56-0674L – Southbound Mayhew Wash, Outside Rail	Rail	D	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0016	56-0674L – Southbound Mayhew Wash, Outside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0103	56-0674R – Northbound Mayhew Wash, Outside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0104	56-0674R – Northbound Mayhew Wash, Outside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0105	56-0674R – Northbound Mayhew Wash, Outside Rail	Rail	B	Dark Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0106	56-0674R – Northbound Mayhew Wash, Outside Rail	Rail	B	Silver	Negative	Concrete	Intact	High	<200	N/A
192661-L-0107	56-0675R/56-0674R – Northbound Mayhew Wash/Northbound Temescal Canyon Road Undercrossing Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0140	56-0674L – Southbound Mayhew Wash, Inside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0141	56-0674L – Southbound Mayhew Wash, Inside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A



<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qtv.</u>
192661-L-0142	56-0674L/56-0675L – Southbound Mayhew Wash/Southbound Temescal Canyon Road Undercrossing Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0209	56-0674R – Northbound Mayhew Wash, Inside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0210	56-0674R – Northbound Mayhew Wash, Inside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0675L/R – Southbound/Northbound Temescal Canyon Road Undercrossing

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0017	56-0675L – Southbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0018	56-0675L – Southbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0019	56-0675L – Southbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	D	Dark Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0020	56-0675L – Southbound Temescal Canyon Road Undercrossing, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0021	56-0675L – Southbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0098	56-0675R – Northbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0099	56-0675R – Northbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	B	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0100	56-0675R – Northbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	B	Dark Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0101	56-0675R – Northbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0102	56-0675R – Northbound Temescal Canyon Road Undercrossing, Outside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0143	56-0675L – Southbound Temescal Canyon Road Undercrossing, Inside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0144	56-0675L – Southbound Temescal Canyon Road Undercrossing, Inside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0145	56-0675L – Southbound Temescal Canyon Road Undercrossing, Inside Rail	Rail	B	Off-White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0205	56-0675R – Northbound Temescal Canyon Road Undercrossing, Inside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	217	N/A
192661-L-0206	56-0675R – Northbound Temescal Canyon Road Undercrossing, Inside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0207	56-0675R – Northbound Temescal Canyon Road Undercrossing, Inside Rail	Rail	D	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0208	56-0675R – Northbound Temescal Canyon Road Undercrossing, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0676L/R – Southbound/Northbound Indian Truck Trail Undercrossing

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0022	56-0676L – Southbound Indian Truck Trail Undercrossing, Outside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0023	56-0676L – Southbound Indian Truck Trail Undercrossing, Outside Rail	Rail	D	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0024	56-0676L – Southbound Indian Truck Trail Undercrossing, Outside Rail	Rail	D	Dark Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0025	56-0676L – Southbound Indian Truck Trail Undercrossing, Outside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0026	56-0676L – Southbound Indian Truck Trail Undercrossing, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0096	56-0676R – Northbound Indian Truck Trail Undercrossing, Outside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0097	56-0676R – Northbound Indian Truck Trail Undercrossing, Outside Rail	Lane Surface Paint	B	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0146	56-0676L – Southbound Indian Truck Trail Undercrossing, Inside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0147	56-0676L – Southbound Indian Truck Trail Undercrossing, Inside Rail	Rail	B	Off-White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0148	56-0676L – Southbound Indian Truck Trail Undercrossing, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	231	N/A
192661-L-0201	56-0676R – Northbound Indian Truck Trail Undercrossing, Inside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A



<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0202	56-0676R – Northbound Indian Truck Trail Undercrossing, Inside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0203	56-0676R – Northbound Indian Truck Trail Undercrossing, Inside Rail	Rail	D	Dark Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0204	56-0676R – Northbound Indian Truck Trail Undercrossing, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0677L/R – Southbound/Northbound Indian Wash

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0027	56-0677L – Southbound Indian Wash, Outside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0028	56-0677L – Southbound Indian Wash, Outside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0029	56-0677L – Southbound Indian Wash, Outside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0030	56-0677L – Southbound Indian Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0091	56-0677R – Northbound Indian Wash, Outside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0092	56-0677R – Northbound Indian Wash, Outside Rail	Rail	B	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0093	56-0677R – Northbound Indian Wash, Outside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0094	56-0677R – Northbound Indian Wash, Outside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0095	56-0677R – Northbound Indian Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0149	56-0677L – Southbound Indian Wash, Inside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0150	56-0677L – Southbound Indian Wash, Inside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A



<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0151	56-0677L – Southbound Indian Wash, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	596	N/A
192661-L-0198	56-0677R – Northbound Indian Wash, Inside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0199	56-0677R – Northbound Indian Wash, Inside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable



Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0677L/R – Southbound/Northbound Indian Wash

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0200	56-0677R – Northbound Indian Wash, Inside Rail	Lane Surface Paint	-	Yellow	Positive	Concrete	Intact	High	12,587	12 SF

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0678L/R – Southbound/Northbound Horsethief Canyon Wash

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0031	56-0678L – Southbound Horsethief Canyon Wash, Outside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0032	56-0678L – Southbound Horsethief Canyon Wash, Outside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0033	56-0678L – Southbound Horsethief Canyon Wash, Outside Rail	Rail	D	Dark Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0034	56-0678L – Southbound Horsethief Canyon Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0035	56-0678L – Southbound Horsethief Canyon Wash, Outside Rail	Rail	D	Pink	Negative	Concrete	Intact	High	<200	N/A
192661-L-0087	56-0678R – Northbound Horsethief Canyon Wash, Outside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0088	56-0678R – Northbound Horsethief Canyon Wash, Outside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0089	56-0678R – Northbound Horsethief Canyon Wash, Outside Rail	Rail	B	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0090	56-0678R – Northbound Horsethief Canyon Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0152	56-0678L – Southbound Horsethief Canyon Wash, Inside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0153	56-0678L – Southbound Horsethief Canyon Wash, Inside Rail	Rail	B	Off-White	Negative	Concrete	Intact	High	<200	N/A

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0154	56-0678L – Southbound Horsethief Canyon Wash, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0195	56-0678R – Northbound Horsethief Canyon Wash, Inside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0196	56-0678R – Northbound Horsethief Canyon Wash, Inside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0197	56-0678R – Northbound Horsethief Canyon Wash, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0679L/R – Southbound/Northbound Horsethief Canyon Road Undercrossing

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0036	56-0679L – Southbound Horsethief Canyon Road Undercrossing, Outside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0037	56-0679L – Southbound Horsethief Canyon Road Undercrossing, Outside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0038	56-0679L – Southbound Horsethief Canyon Road Undercrossing, Outside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0039	56-0679L – Southbound Horsethief Canyon Road Undercrossing, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0083	56-0679R – Northbound Horsethief Canyon Road Undercrossing, Outside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0084	56-0679R – Northbound Horsethief Canyon Road Undercrossing, Outside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0085	56-0679R – Northbound Horsethief Canyon Road Undercrossing, Outside Rail	Rail	B	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0086	56-0679R – Northbound Horsethief Canyon Road Undercrossing, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0155	56-0679L – Southbound Horsethief Canyon Road Undercrossing, Inside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0156	56-0679L – Southbound Horsethief Canyon Road Undercrossing, Inside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0157	56-0679L – Southbound Horsethief Canyon Road Undercrossing, Inside Rail	Rail	B	White	Negative	Concrete	Intact	High	<200	N/A



<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0158	56-0679L – Southbound Horsethief Canyon Road Undercrossing, Inside Rail	Rail	B	Light Blue	Negative	Concrete	Intact	High	<200	N/A
192661-L-0159	56-0679L – Southbound Horsethief Canyon Road Undercrossing, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0192	56-0679R – Northbound Horsethief Canyon Road Undercrossing, Inside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0193	56-0679R – Northbound Horsethief Canyon Road Undercrossing, Inside Rail	Rail	D	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0194	56-0679R – Northbound Horsethief Canyon Road Undercrossing, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-068IL/R – Southbound/Northbound Temescal Canyon Road Overhead

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0040	56-0681L – Southbound Temescal Canyon Road Overhead, Outside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0041	56-0681L – Southbound Temescal Canyon Road Overhead, Outside Rail	Rail	D	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0042	56-0681L – Southbound Temescal Canyon Road Overhead, Outside Rail	Rail	D	Silver	Negative	Concrete	Intact	High	<200	N/A
192661-L-0043	56-0681L – Southbound Temescal Canyon Road Overhead, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0068	56-0681R – Northbound Temescal Canyon Road Overhead, Outside Rail	Rail	B	Dark Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0069	56-0681R – Northbound Temescal Canyon Road Overhead, Outside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0070	56-0681R – Northbound Temescal Canyon Road Overhead, Outside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0071	56-0681R – Northbound Temescal Canyon Road Overhead, Outside Rail	Rail	B	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0072	56-0681R – Northbound Temescal Canyon Road Overhead, Outside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0073	56-0681R – Northbound Temescal Canyon Road Overhead, Outside Rail	Rail	B	Silver	Negative	Concrete	Intact	High	<200	N/A
192661-L-0074	56-0681R – Northbound Temescal Canyon Road Overhead, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0165	56-0681L – Southbound Temescal Canyon Road Overhead, Inside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0166	56-0681L – Southbound Temescal Canyon Road Overhead, Inside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0167	56-0681L – Southbound Temescal Canyon Road Overhead, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0184	56-0681R – Northbound Temescal Canyon Road Overhead, Inside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0185	56-0681R – Northbound Temescal Canyon Road Overhead, Inside Rail	Rail	D	Dark Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0186	56-0681R – Northbound Temescal Canyon Road Overhead, Inside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0187	56-0681R – Northbound Temescal Canyon Road Overhead, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0682L/R – Southbound/Northbound Lake Street Undercrossing

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0044	56-0682L – Southbound Lake Street Undercrossing, Outside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0045	56-0682L – Southbound Lake Street Undercrossing, Outside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0046	56-0682L – Southbound Lake Street Undercrossing, Outside Rail	Rail	D	Off-White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0047	56-0682L – Southbound Lake Street Undercrossing, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0063	56-0682R – Northbound Lake Street Undercrossing, Outside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0064	56-0682R – Northbound Lake Street Undercrossing, Outside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0065	56-0682R – Northbound Lake Street Undercrossing, Outside Rail	Rail	B	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0066	56-0682R – Northbound Lake Street Undercrossing, Outside Rail	Rail	B	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0067	56-0682R – Northbound Lake Street Undercrossing, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0168	56-0682L – Southbound Lake Street Undercrossing, Inside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0169	56-0682L – Southbound Lake Street Undercrossing, Inside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A



<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0170	56-0682L – Southbound Lake Street Undercrossing, Inside Rail	Rail	B	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0171	56-0682L – Southbound Lake Street Undercrossing, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0180	56-0682R – Northbound Lake Street Undercrossing, Inside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0181	56-0682R – Northbound Lake Street Undercrossing, Inside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0182	56-0682R – Northbound Lake Street Undercrossing, Inside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0183	56-0682R – Northbound Lake Street Undercrossing, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0680L/R – Southbound/Northbound Temescal Wash

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0048	56-0680L – Southbound Temescal Wash, Outside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0049	56-0680L – Southbound Temescal Wash, Outside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0050	56-0680L – Southbound Temescal Wash, Outside Rail	Rail	D	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0051	56-0680L – Southbound Temescal Wash, Outside Rail	Rail	D	Silver	Negative	Concrete	Intact	High	<200	N/A
192661-L-0052	56-0680L – Southbound Temescal Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0075	56-0680R – Northbound Temescal Wash, Outside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0076	56-0680R – Northbound Temescal Wash, Outside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0077	56-0680R – Northbound Temescal Wash, Outside Rail	Rail	B	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0078	56-0680R – Northbound Temescal Wash, Outside Rail	Rail	B	Pink	Negative	Concrete	Intact	High	<200	N/A
192661-L-0079	56-0680R – Northbound Temescal Wash, Outside Rail	Rail	B	Silver	Negative	Concrete	Intact	High	<200	N/A
192661-L-0080	56-0680R – Northbound Temescal Wash, Outside Rail	Rail	B	Blue	Negative	Concrete	Intact	High	<200	N/A



<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0081	56-0680R – Northbound Temescal Wash, Outside Rail	Rail	B	Light Blue	Negative	Concrete	Intact	High	228	N/A
192661-L-0082	56-0680R – Northbound Temescal Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0160	56-0680L – Southbound Temescal Wash, Inside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0161	56-0680L – Southbound Temescal Wash, Inside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0162	56-0680L – Southbound Temescal Wash, Inside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0163	56-0680L – Southbound Temescal Wash, Inside Rail	Bridge	D	Blue Graffiti	Negative	Concrete	Intact	High	<200	N/A
192661-L-0164	56-0680L – Southbound Temescal Wash, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0188	56-0680R – Northbound Temescal Wash, Inside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0190	56-0680R – Northbound Temescal Wash, Inside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0191	56-0680R – Northbound Temescal Wash, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable



Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0680L/R – Southbound/Northbound Temescal Wash

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0189	56-0680R – Northbound Temescal Wash, Inside Rail	Rail	D	Light Gray	Positive	Concrete	Fair	High	883	60 SF

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0726L/R – Southbound/Northbound Gavilan Wash

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0053	56-0726L – Southbound Gavilan Wash, Outside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0054	56-0726L – Southbound Gavilan Wash, Outside Rail	Rail	D	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0055	56-0726L – Southbound Gavilan Wash, Outside Rail	Rail	D	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0056	56-0726L – Southbound Gavilan Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0057	56-0726R – Northbound Gavilan Wash, Outside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0058	56-0726R – Northbound Gavilan Wash, Outside Rail	Rail	B	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0059	56-0726R – Northbound Gavilan Wash, Outside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0060	56-0726R – Northbound Gavilan Wash, Outside Rail	Rail	B	Black	Negative	Concrete	Intact	High	<200	N/A
192661-L-0061	56-0726R – Northbound Gavilan Wash, Outside Rail	Rail	B	Pink	Negative	Concrete	Intact	High	<200	N/A
192661-L-0062	56-0726R – Northbound Gavilan Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0172	56-0726L – Southbound Gavilan Wash, Inside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0173	56-0726L – Southbound Gavilan Wash, Inside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0174	56-0726L – Southbound Gavilan Wash, Inside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0175	56-0726L – Southbound Gavilan Wash, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0176	56-0726R – Northbound Gavilan Wash, Inside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0177	56-0726R – Northbound Gavilan Wash, Inside Rail	Rail	D	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0178	56-0726R – Northbound Gavilan Wash, Inside Rail	Rail	D	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0179	56-0726R – Northbound Gavilan Wash, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0541L/R – Southbound/Northbound Weirick Road Undercrossing

<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0121	56-0541R – Northbound Weirick Road Undercrossing, Outside Rail	Rail	B	Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0122	56-0541R – Northbound Weirick Road Undercrossing, Outside Rail	Rail	B	Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0123	56-0541R – Northbound Weirick Road Undercrossing, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0130	56-0541L – Southbound Weirick Road Undercrossing, Inside Rail	Rail	B	Light Gray	Negative	Concrete	Intact	High	<200	N/A
192661-L-0131	56-0541L – Southbound Weirick Road Undercrossing, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	387	N/A
192661-L-0221	56-0541R – Northbound Weirick Road Undercrossing, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0222	56-0541R – Northbound Weirick Road Undercrossing, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0223	56-0541L – Southbound Weirick Road Undercrossing, Outside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0224	56-0541L – Southbound Weirick Road Undercrossing, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

N/A: Not Applicable

Lead Paint Chip Analysis

Client Name: HDR Engineering, Inc.

A-Tech Project Number: 192661

Location: Interstate 15 Express Lanes Project Southern Extension, 56-0540L/R – Southbound/Northbound Bedford Wash

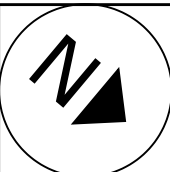
<u>Sample Number</u>	<u>Area</u>	<u>Component</u>	<u>Side</u>	<u>Color</u>	<u>Pos/Neg</u>	<u>Substrate</u>	<u>Cond.</u>	<u>Access.</u>	<u>Results PPM</u>	<u>Est. Qty.</u>
192661-L-0124	56-0540R – Northbound Bedford Wash, Outside Rail	Rail	B	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0125	56-0540R – Northbound Bedford Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0126	56-0540R – Northbound Bedford Wash, Outside Rail	Bridge	B	Light Blue Composite	Negative	Concrete	Intact	High	<200	N/A
192661-L-0127	56-0540L – Southbound Bedford Wash, Inside Rail	Rail	B	White	Negative	Concrete	Intact	High	<200	N/A
192661-L-0128	56-0540L – Southbound Bedford Wash, Inside Rail	Rail	B	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0129	56-0540L – Southbound Bedford Wash, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0219	56-0540R – Northbound Bedford Wash, Inside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0220	56-0540R – Northbound Bedford Wash, Inside Rail	Lane Surface Paint	-	Yellow	Negative	Concrete	Intact	High	<200	N/A
192661-L-0225	56-0540L – Southbound Bedford Wash, Outside Rail	Rail	D	Light Tan	Negative	Concrete	Intact	High	<200	N/A
192661-L-0226	56-0540L – Southbound Bedford Wash, Outside Rail	Lane Surface Paint	-	White	Negative	Concrete	Intact	High	<200	N/A

LEGEND:

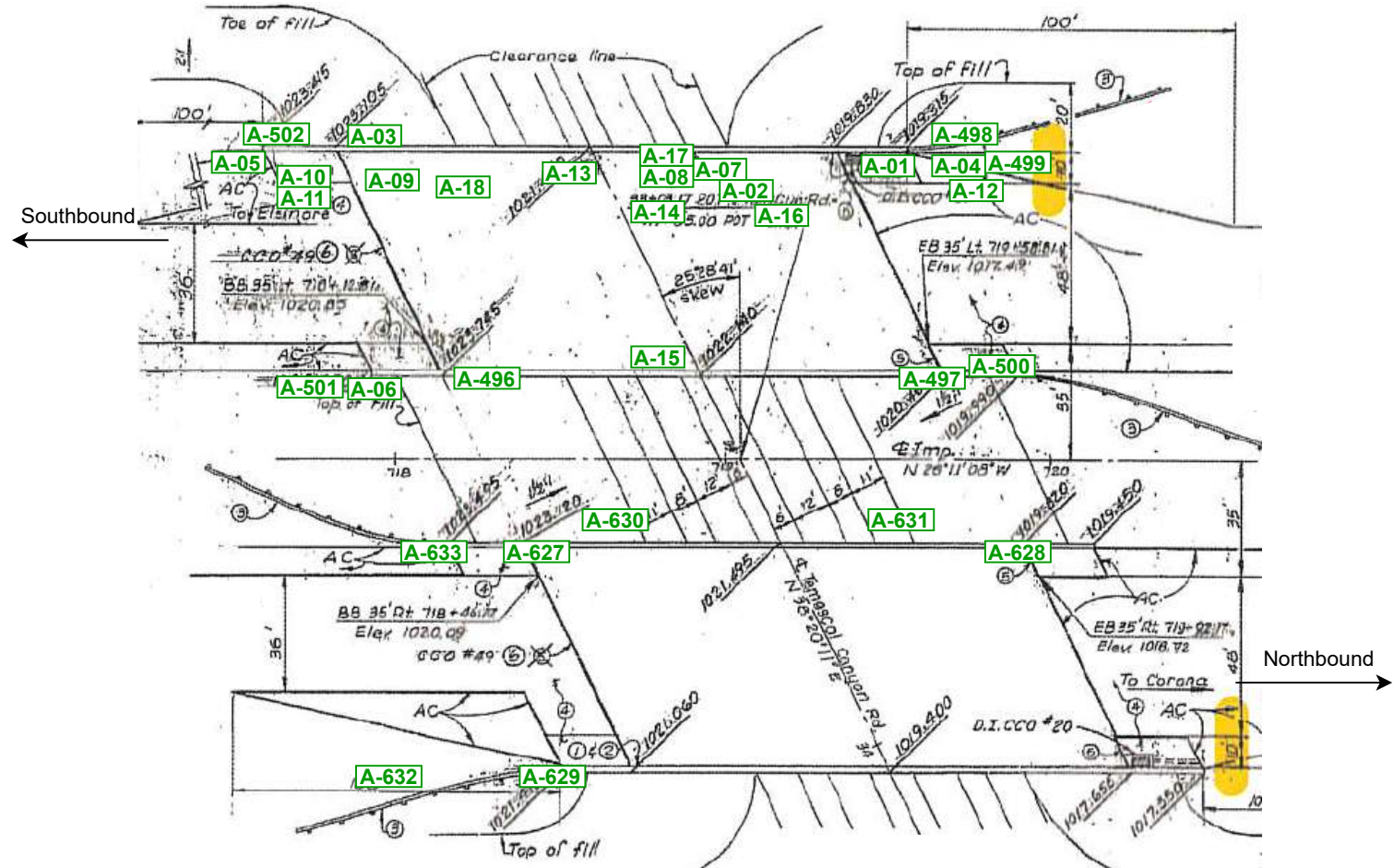
N/A: Not Applicable

Appendix C:

Diagrams: Asbestos Bulk Sample Locations



Not to Scale



56-542L/R - Southbound/Northbound Temescal Canyon Road

Undercrossing

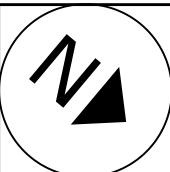
Site Drawing - Asbestos - Page 1 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

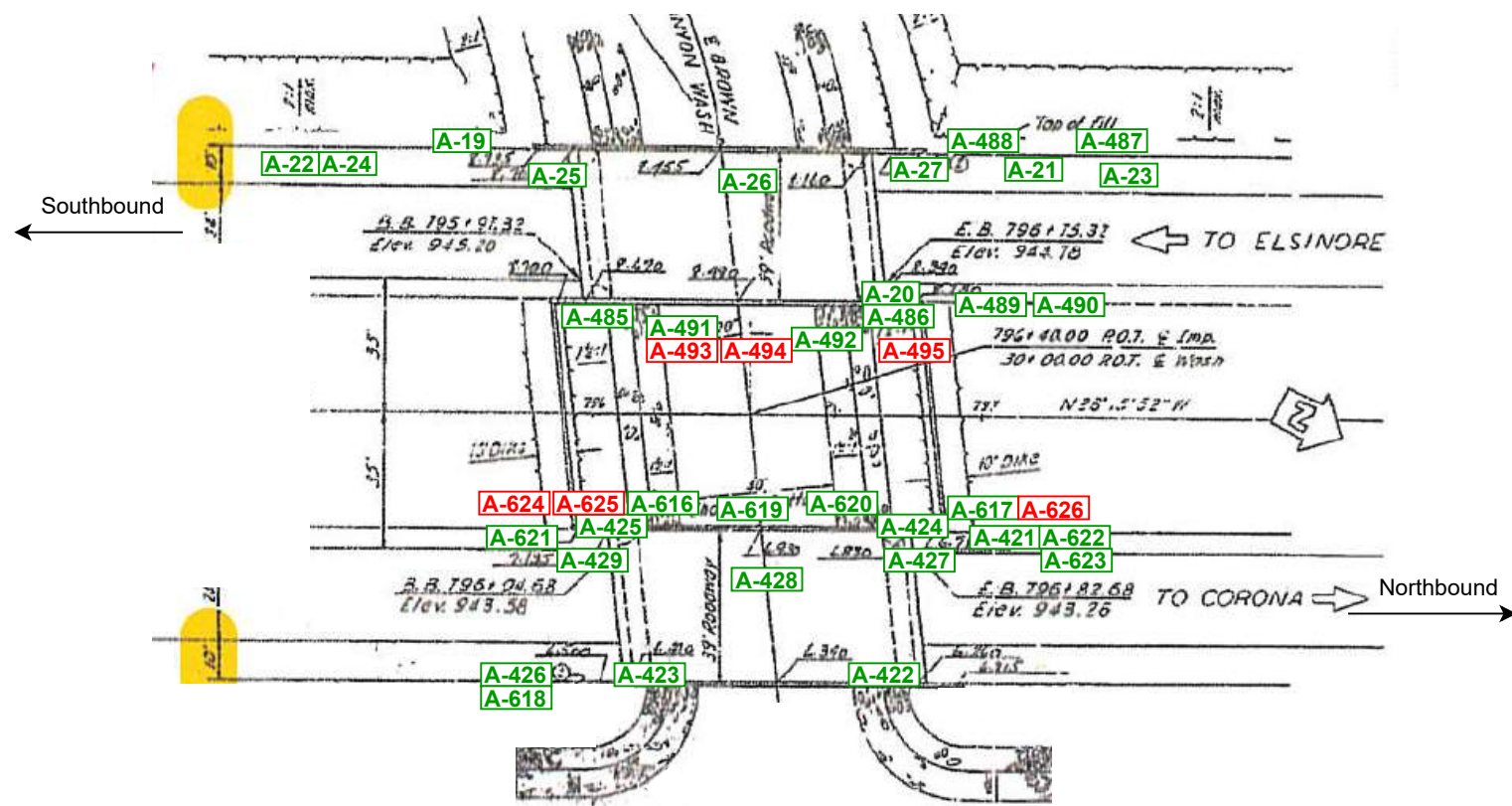
Project #: Atch-192661

HDR Engineering, Inc.

LEGEND:
A = Positive Asbestos Sample Locations
G = Negative Asbestos Sample Locations



Not to Scale



56-559L/R - Southbound/Northbound Brown Canyon Wash

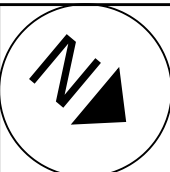
Site Drawing - Asbestos - Page 2 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

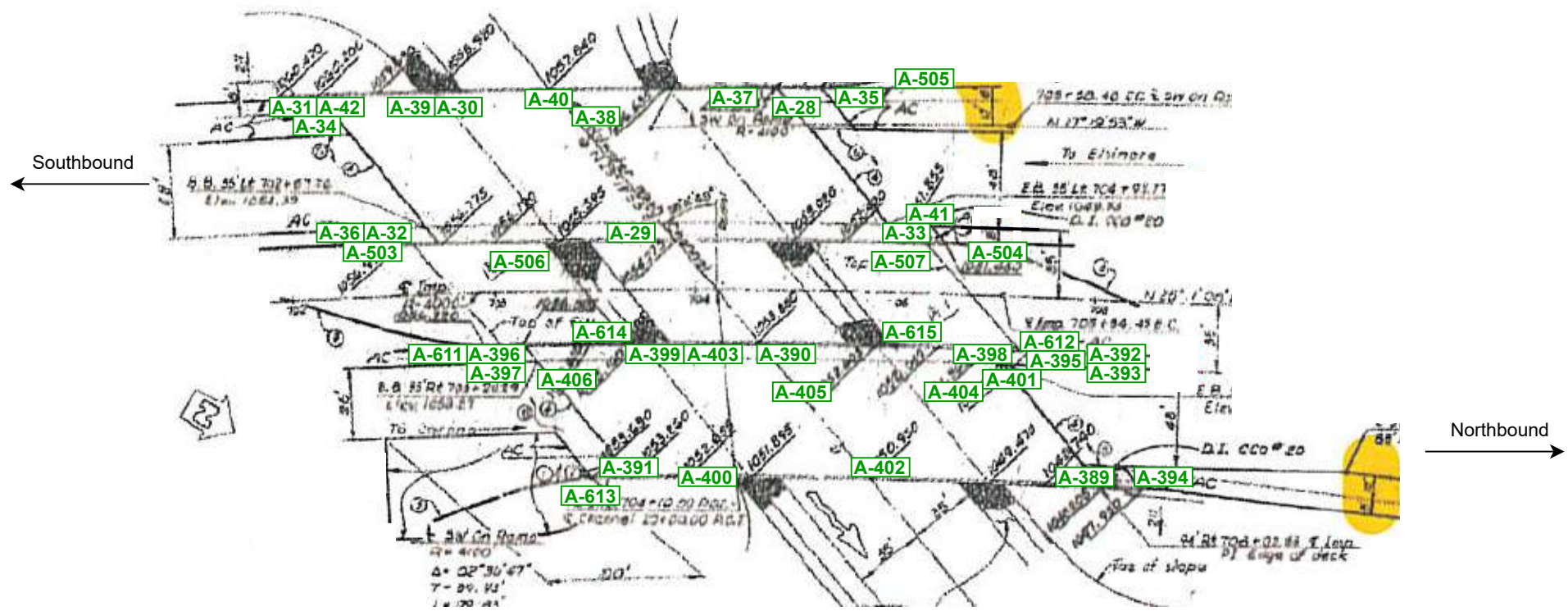
Project #: Atch-192661

HDR Engineering, Inc.

LEGEND:
A = Positive Asbestos Sample Locations
G = Negative Asbestos Sample Locations



Not to Scale



56-543L/R - Southbound/Northbound Coldwater Wash

Site Drawing - Asbestos - Page 3 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

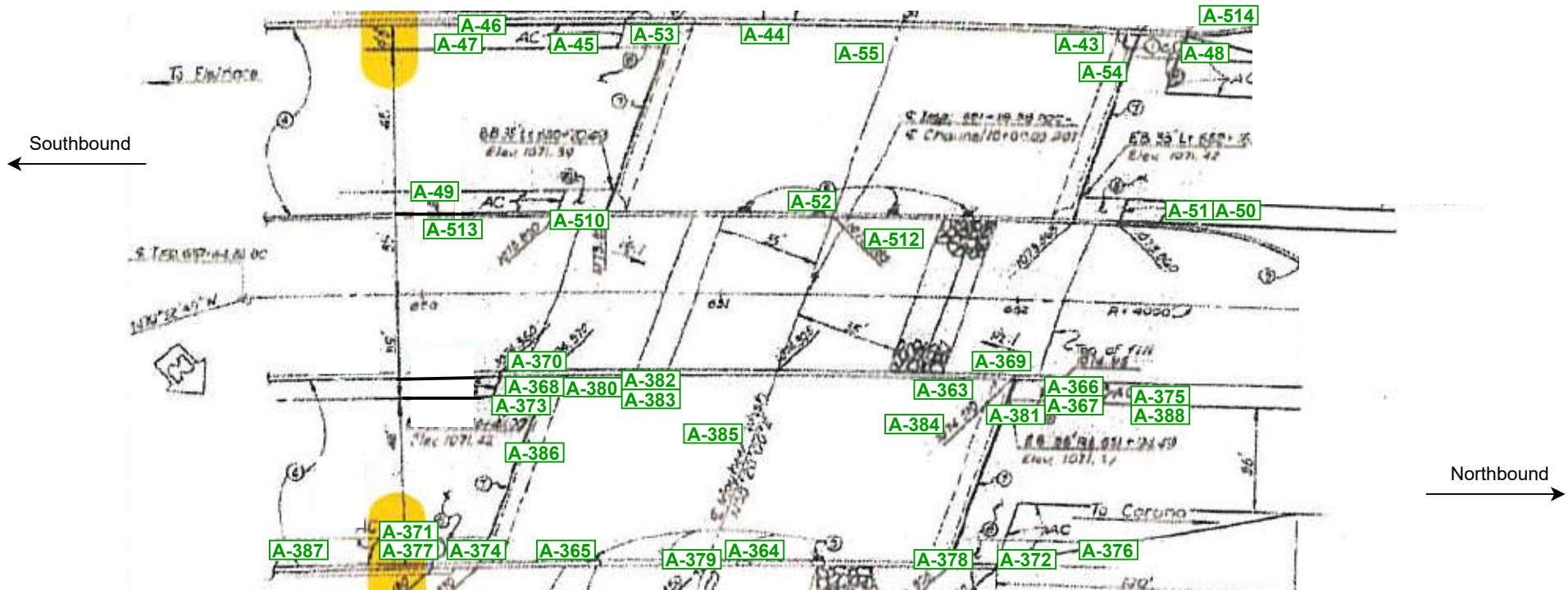
Project #: Atch-192661

HDR Engineering, Inc.

LEGEND:
A = Positive Asbestos Sample Locations
A = Negative Asbestos Sample Locations



Not to Scale



56-674L/R - Southbound/Northbound Mayhew Wash

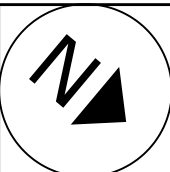
Site Drawing - Asbestos - Page 4 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

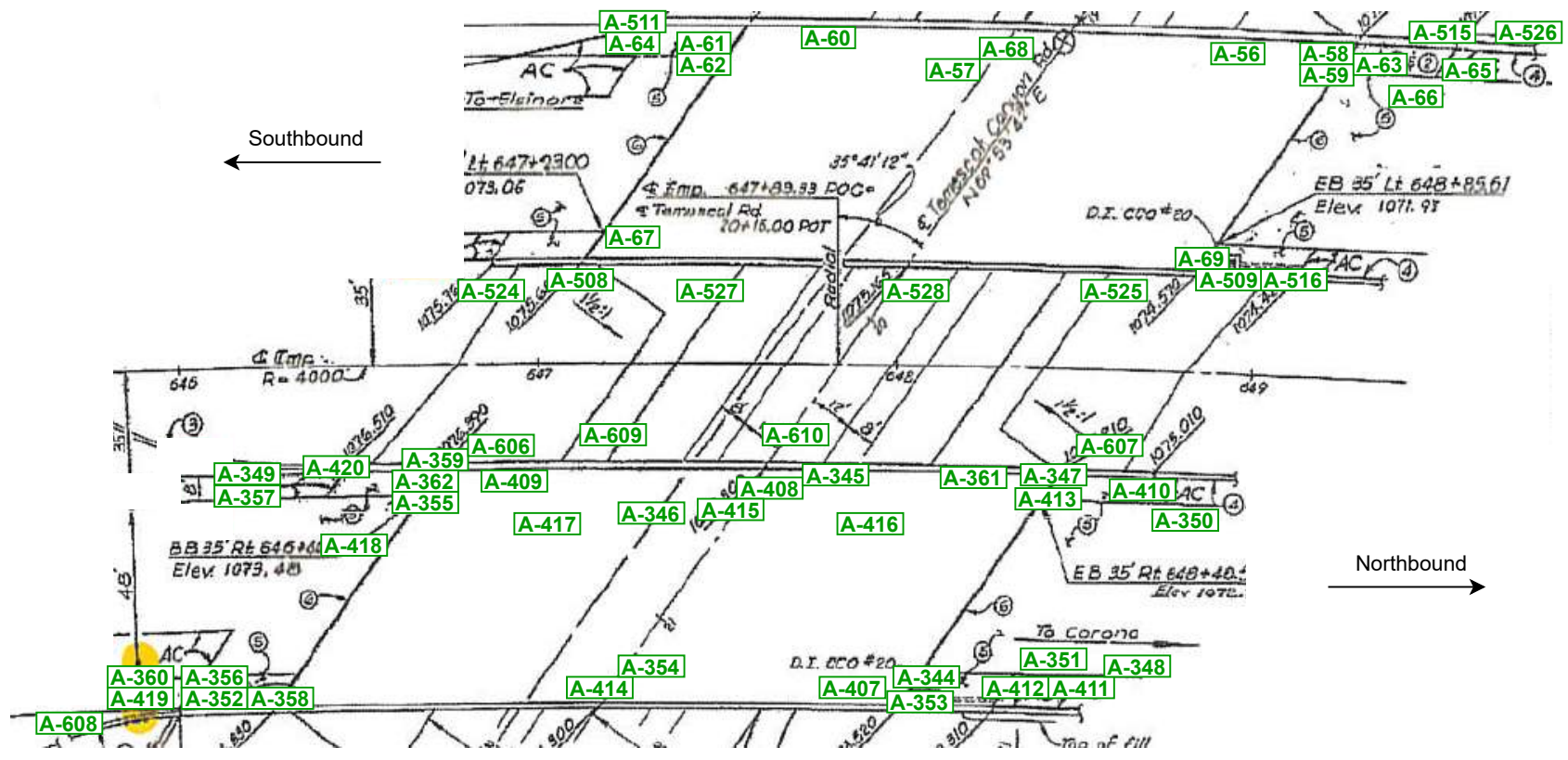
Project #: Atch-192661

HDR Engineering, Inc.

LEGEND:
A = Positive Asbestos Sample Locations
A = Negative Asbestos Sample Locations



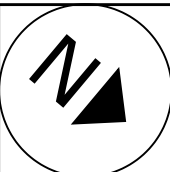
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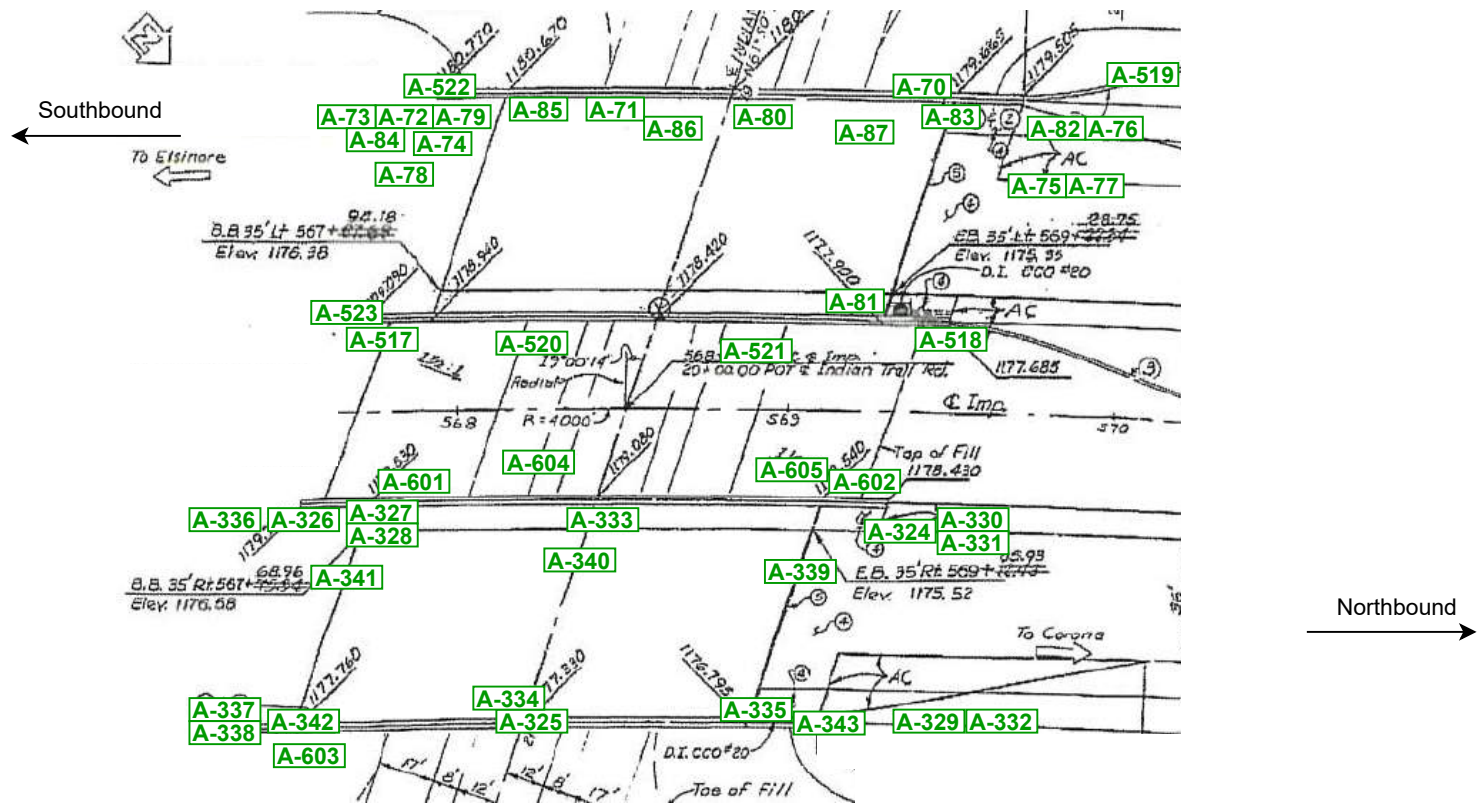
56-675L/R - Southbound/Northbound Temescal Canyon Road Undercrossing

Site Drawing - Asbestos - Page 5 of 15	
Interstate 15 Express Lanes Project Southern Extension Corona, California 92883	
Project #: Atch-192661	HDR Engineering, Inc.

LEGEND:
A = Positive Asbestos Sample Locations
A = Negative Asbestos Sample Locations



Not to Scale



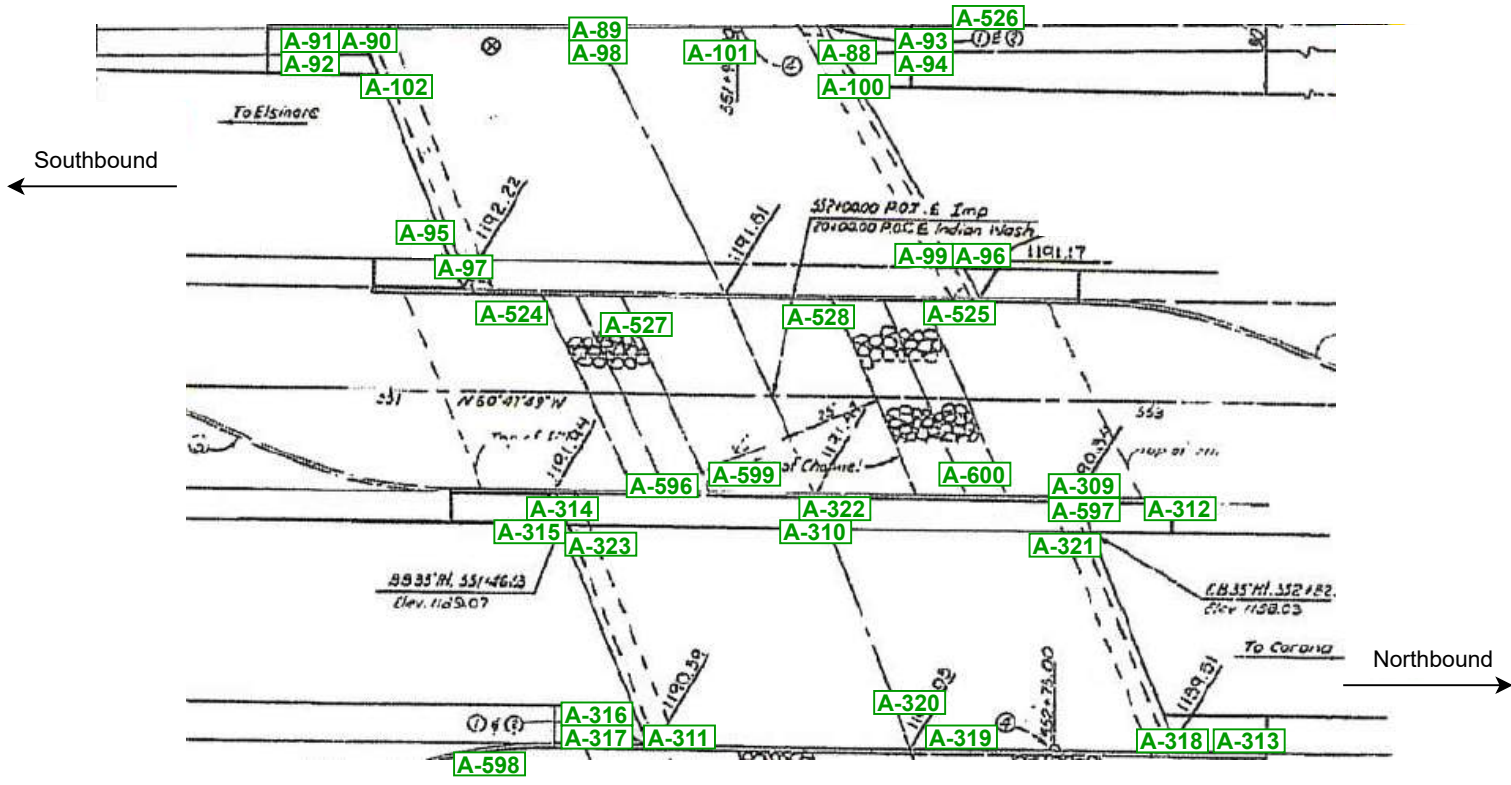
56-676L/R - Southbound/Northbound Indian Truck Trail Undercrossing

LEGEND:
A = Positive Asbestos Sample Locations
A = Negative Asbestos Sample Locations

Site Drawing - Asbestos - Page 6 of 15	
Interstate 15 Express Lanes Project Southern Extension Corona, California 92883	
Project #: Atch-192661	HDR Engineering, Inc.



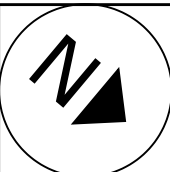
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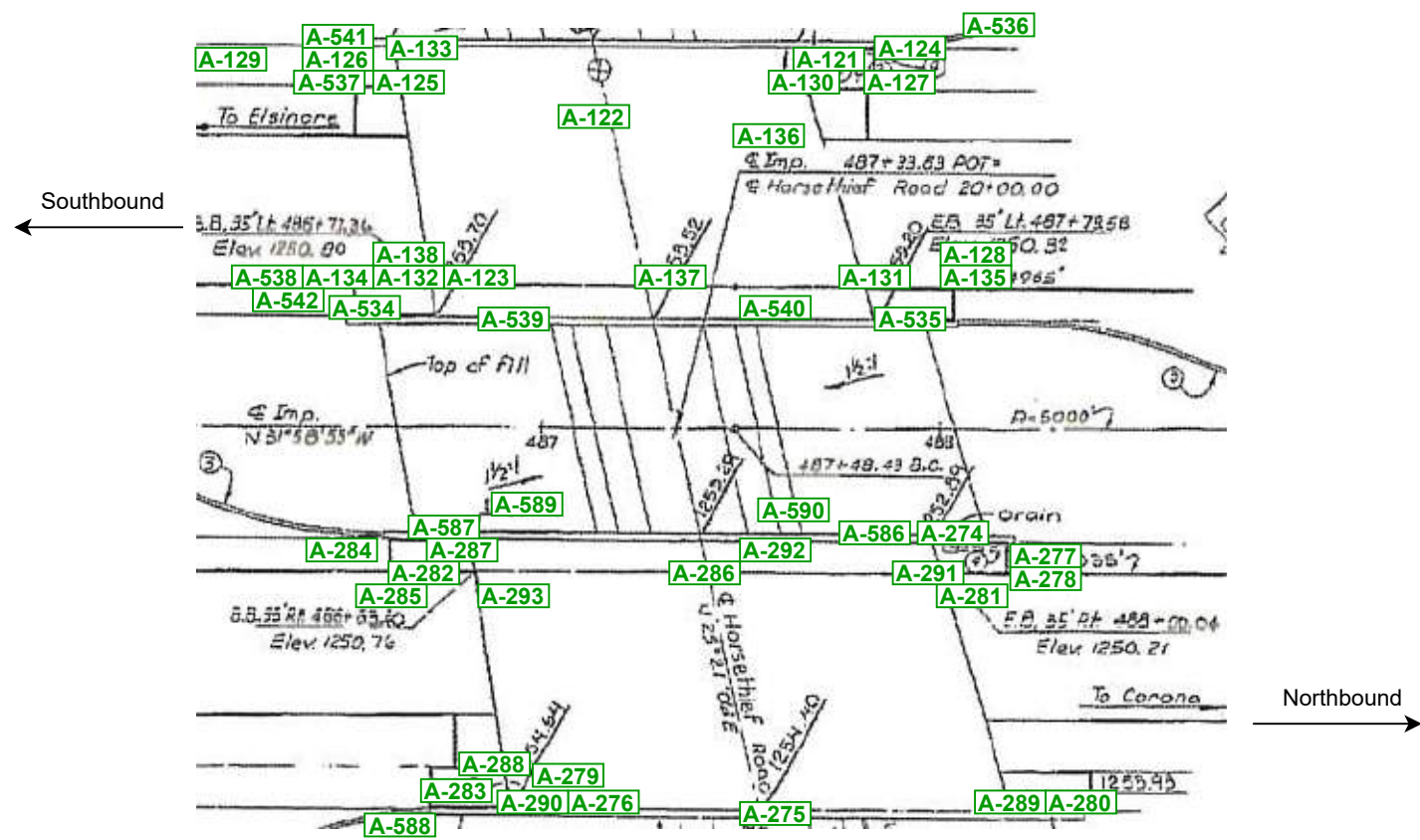
56-677L/R - Southbound/Northbound Indian Wash

Site Drawing - Asbestos - Page 7 of 15	
Interstate 15 Express Lanes Project Southern Extension Corona, California 92883	
Project #: Atch-192661	HDR Engineering, Inc.

LEGEND:
A = Positive Asbestos Sample Locations
G = Negative Asbestos Sample Locations



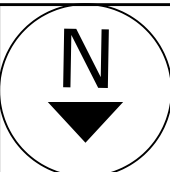
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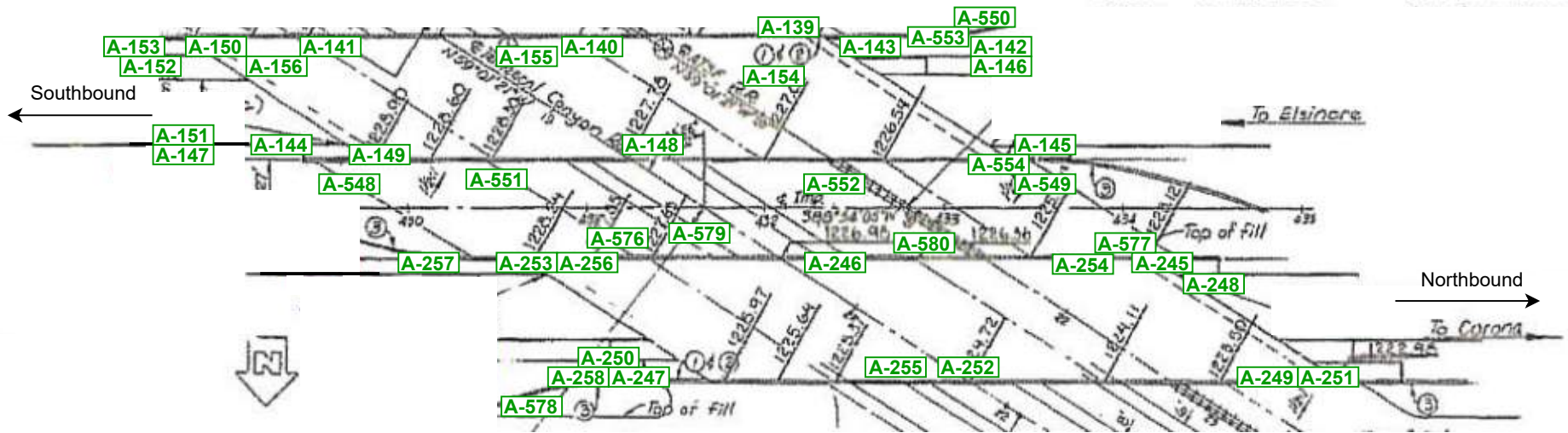
56-679L/R - Southbound/Northbound Horsethief Canyon Road Undercrossing

Site Drawing - Asbestos - Page 9 of 15	
Interstate 15 Express Lanes Project Southern Extension Corona, California 92883	
Project #: Atch-192661	HDR Engineering, Inc.

LEGEND:
A = Positive Asbestos Sample Locations
G = Negative Asbestos Sample Locations



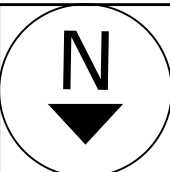
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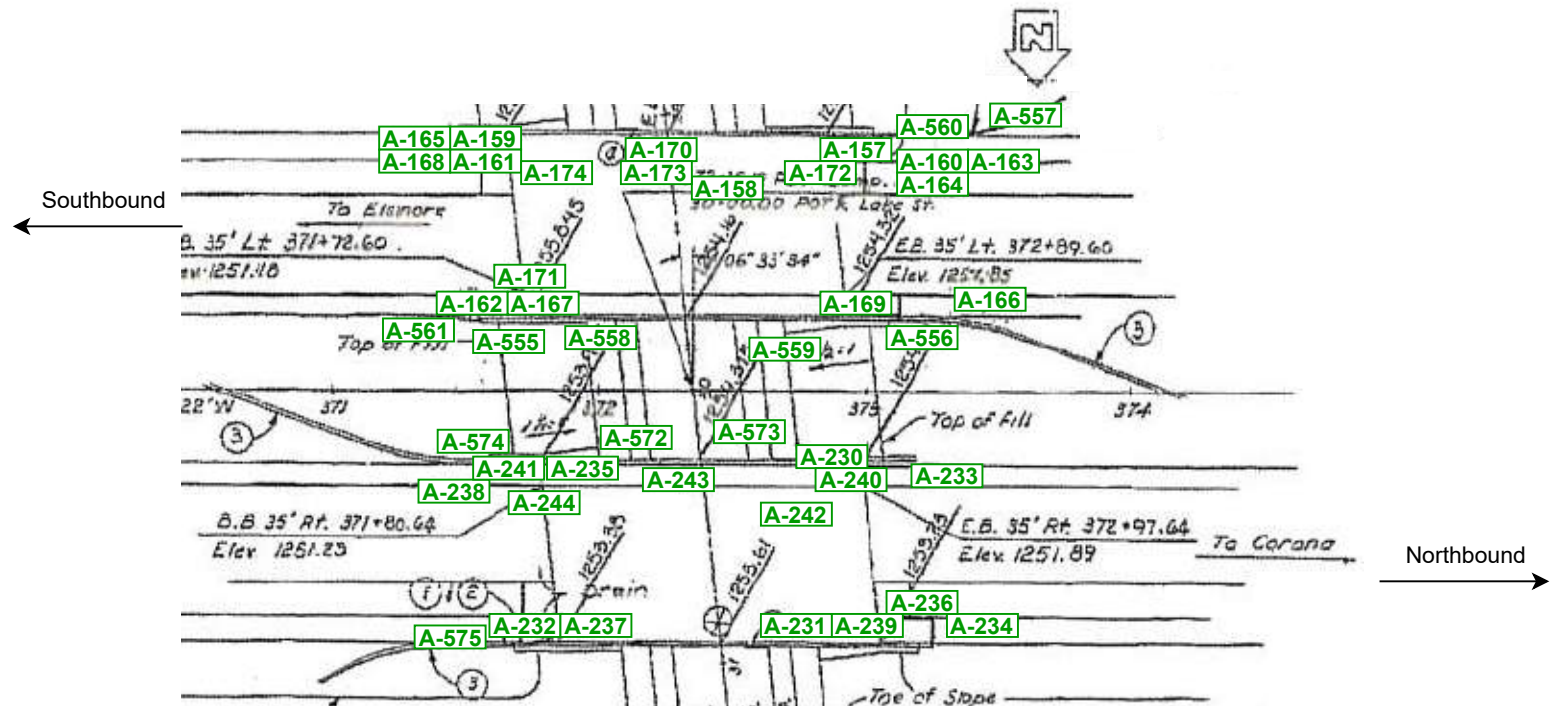
56-681L/R - Southbound/Northbound Temescal Canyon Road Overhead

Site Drawing - Asbestos - Page 10 of 15	
Interstate 15 Express Lanes Project Southern Extension Lake Elsinore, California 92883	
Project #: Atch-192661	HDR Engineering, Inc.

LEGEND:
A = Positive Asbestos Sample Locations
G = Negative Asbestos Sample Locations



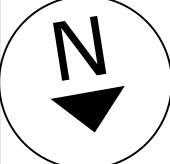
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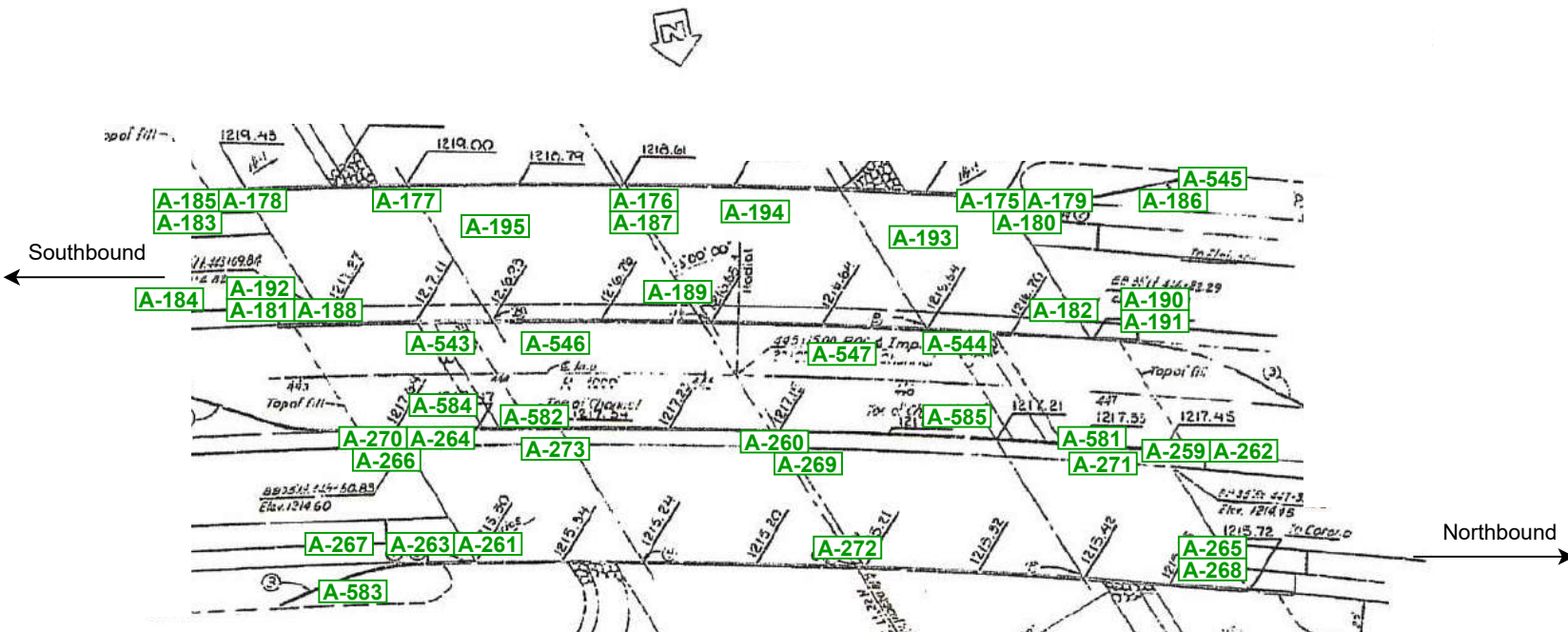
56-0682L/R - Southbound/Northbound Lake Street Undercrossing

Site Drawing - Asbestos - Page 11 of 15	
Interstate 15 Express Lanes Project Southern Extension Lake Elsinore, California 92883	
Project #: Atch-192661	HDR Engineering, Inc.

LEGEND:
A = Positive Asbestos Sample Locations
G = Negative Asbestos Sample Locations



Not to Scale



56-680L/R - Southbound/Northbound Temescal Wash

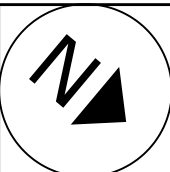
Site Drawing - Asbestos - Page 12 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

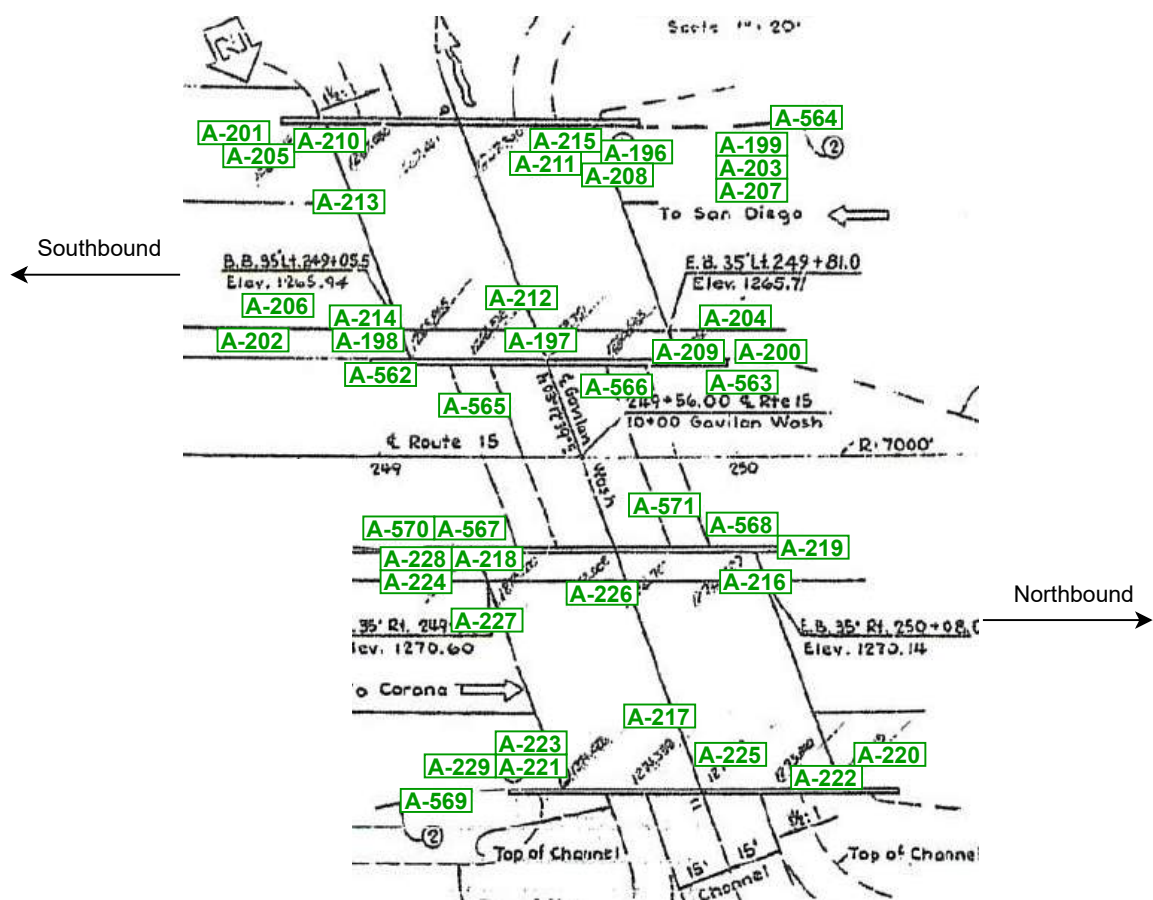
Project #: Atch-192661

HDR Engineering, Inc.

LEGEND:
A = Positive Asbestos Sample Locations
G = Negative Asbestos Sample Locations



Not to Scale



56-726L/R - Southbound/Northbound Gavilan Wash

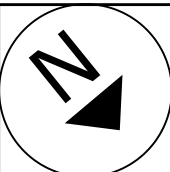
Site Drawing - Asbestos - Page 13 of 15

Interstate 15 Express Lanes Project Southern Extension
Lake Elsinore, California 92883

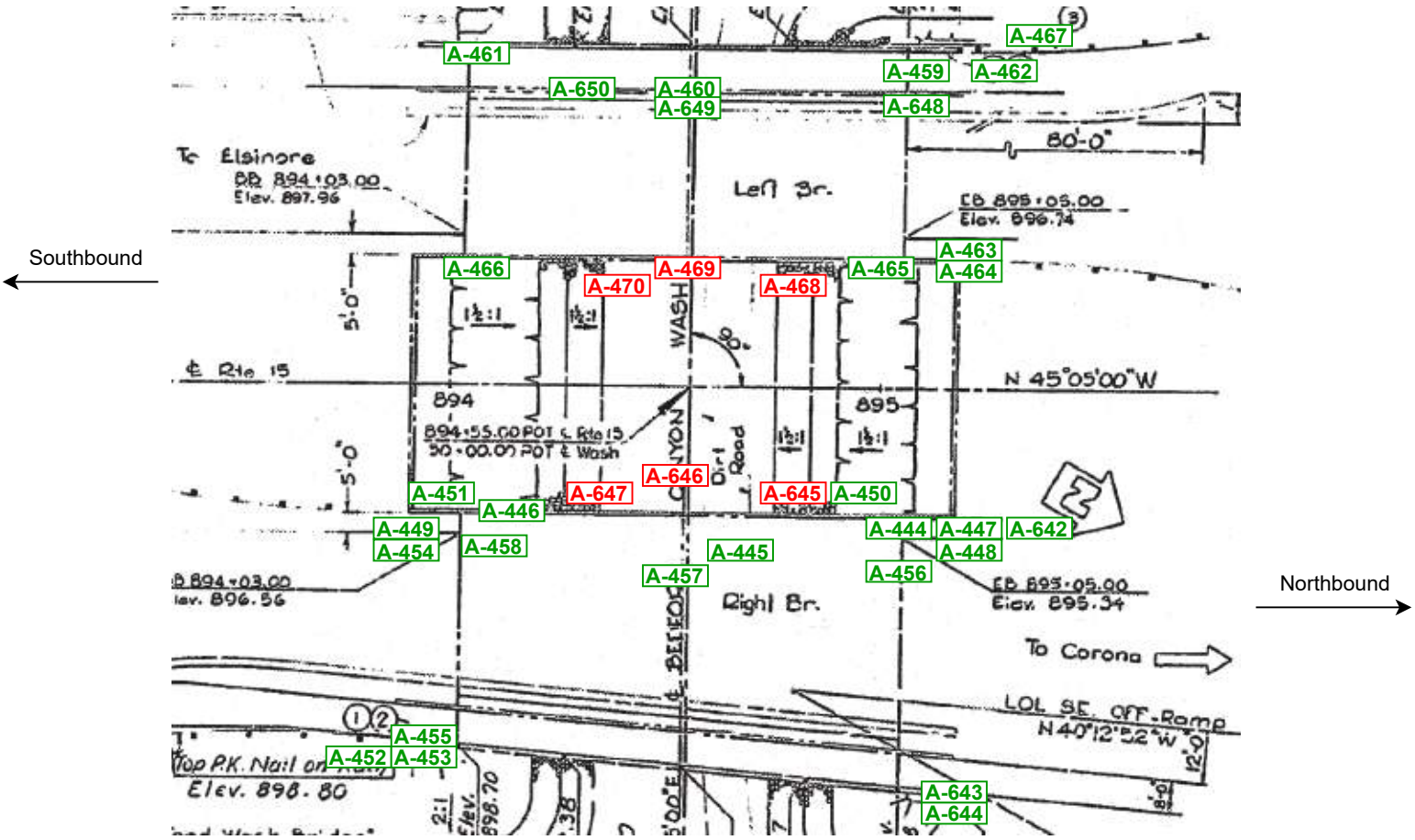
Project #: Atch-192661

HDR Engineering, Inc.

LEGEND:
A = Positive Asbestos Sample Locations
G = Negative Asbestos Sample Locations



Not to Scale



56-682L/R - Southbound/Northbound Bedford Wash

Site Drawing - Asbestos - Page 15 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

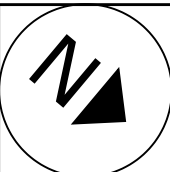
Project #: Atch-192661

HDR Engineering, Inc.

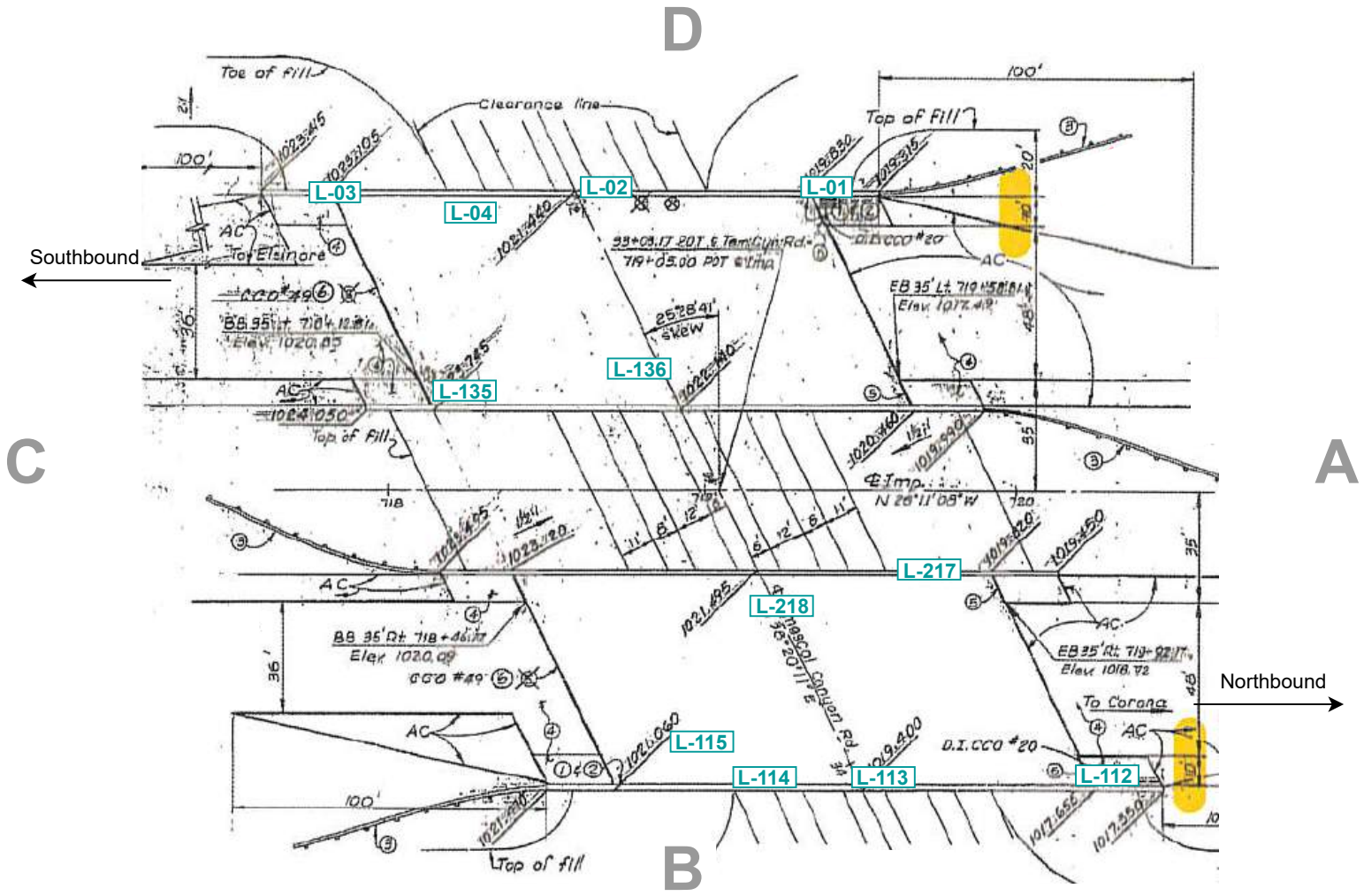
LEGEND:
A = Positive Asbestos Sample Locations
G = Negative Asbestos Sample Locations

Appendix D:

Diagrams: Lead Paint Chip Sample Locations



Not to Scale



56-542L/R - Southbound/Northbound Temescal Canyon Road Undercrossing

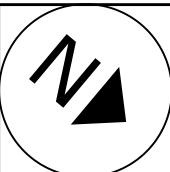
Site Drawing - Lead - Page 1 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

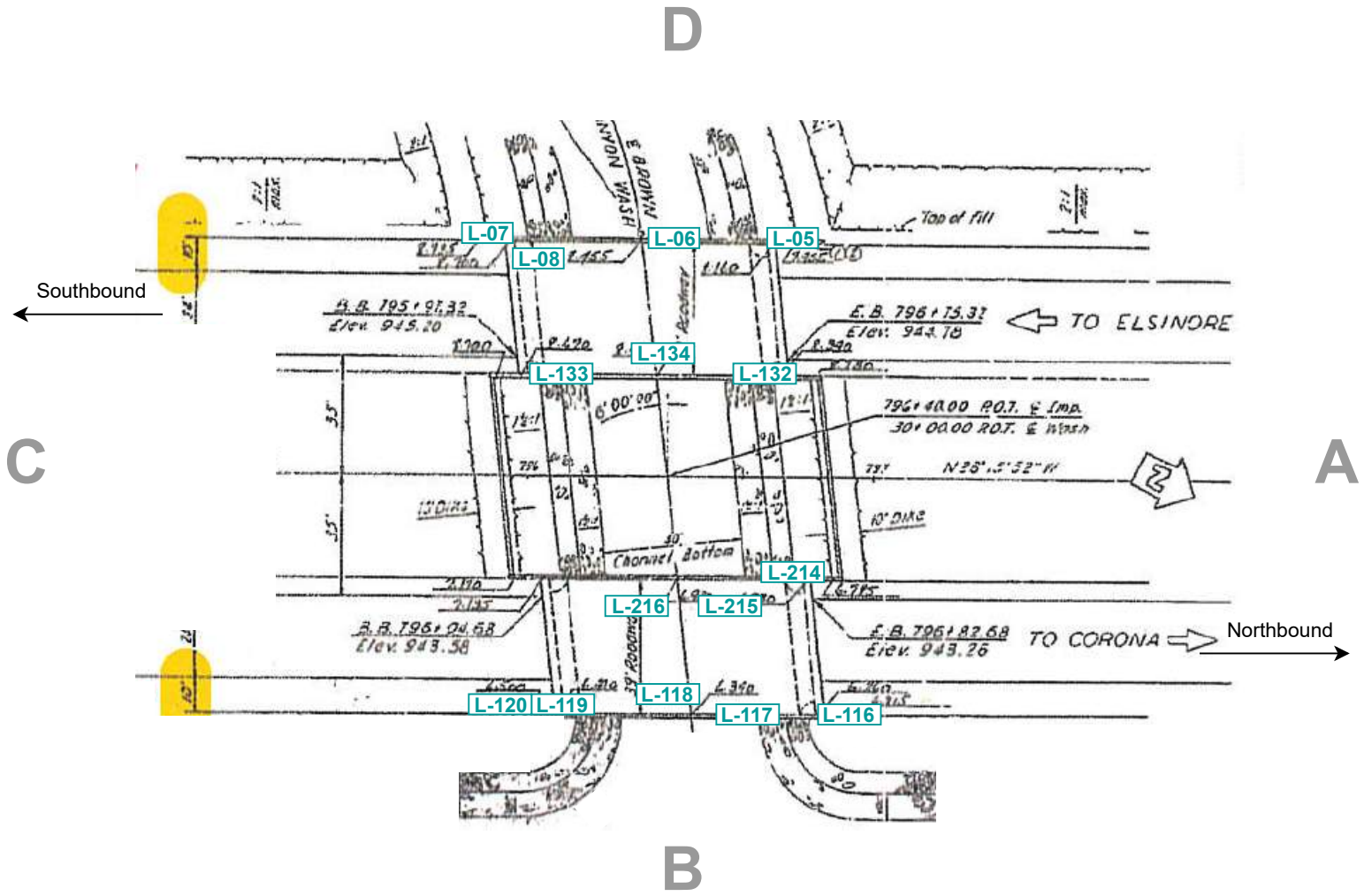
Project #: Atch-192661

HDR Engineering, Inc.

LEGEND:
L = Negative Lead Chip Sample Locations
L = Positive Lead Chip Sample Locations



Not to Scale



56-559L/R - Southbound/Northbound Brown Canyon Wash

Site Drawing - Lead - Page 2 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

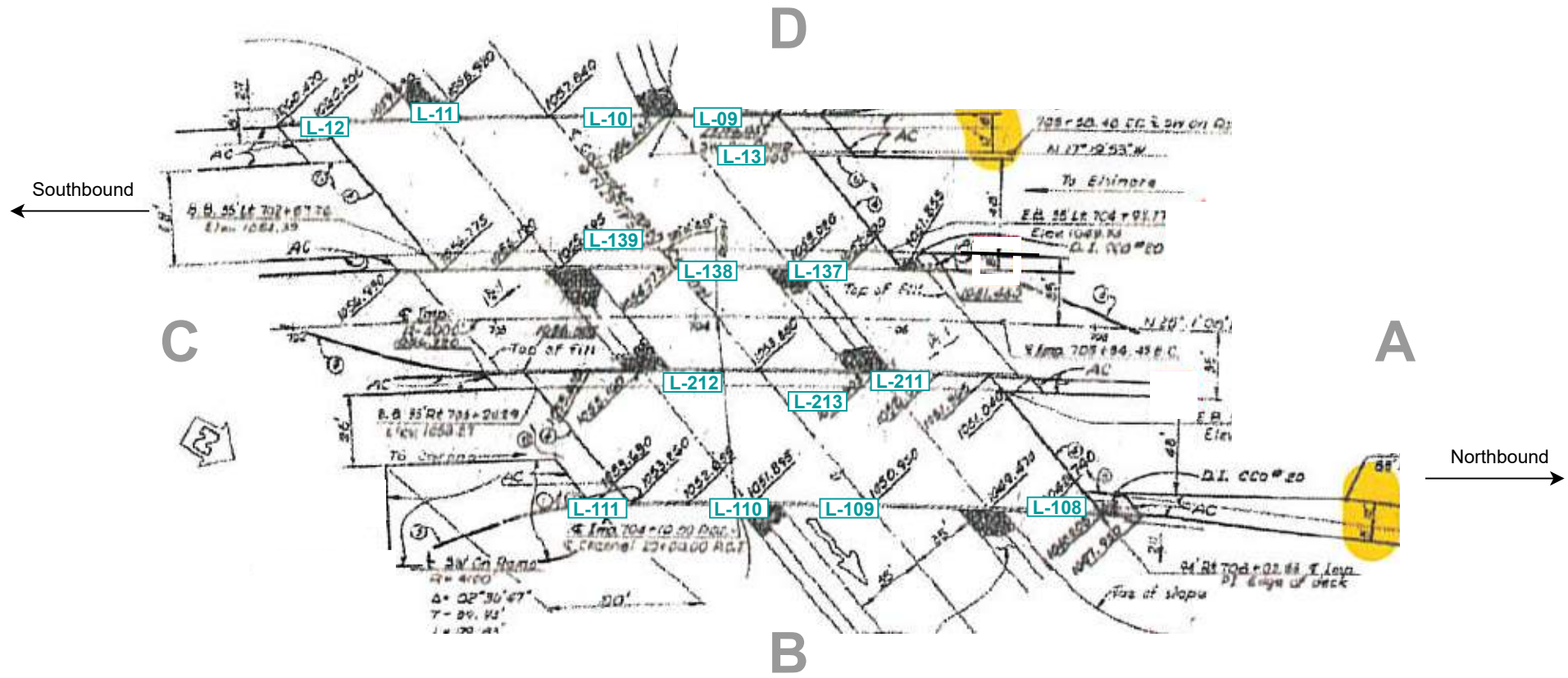
Project #: Atch-192661

HDR Engineering, Inc.

LEGEND:
 L = Negative Lead Chip Sample Locations
 L = Positive Lead Chip Sample Locations



Not to Scale



56-543L/R - Southbound/Northbound Coldwater Wash

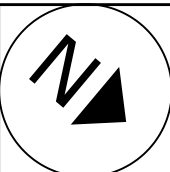
Site Drawing - Lead - Page 3 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

Project #: Atch-192661

HDR Engineering, Inc.

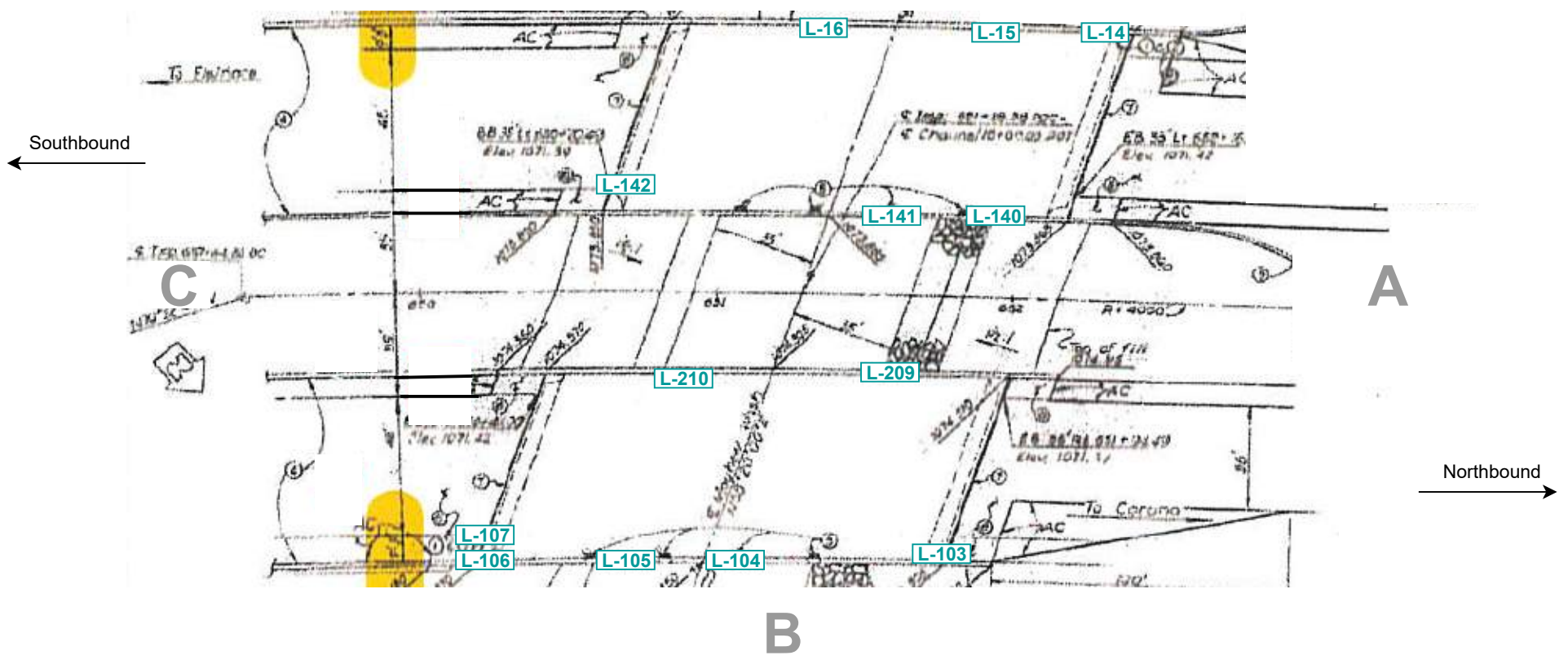
LEGEND:
 L = Negative Lead Chip Sample Locations
 L = Positive Lead Chip Sample Locations



Not to Scale



D



56-674L/R - Southbound/Northbound Mayhew Wash

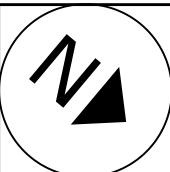
Site Drawing - Lead - Page 4 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

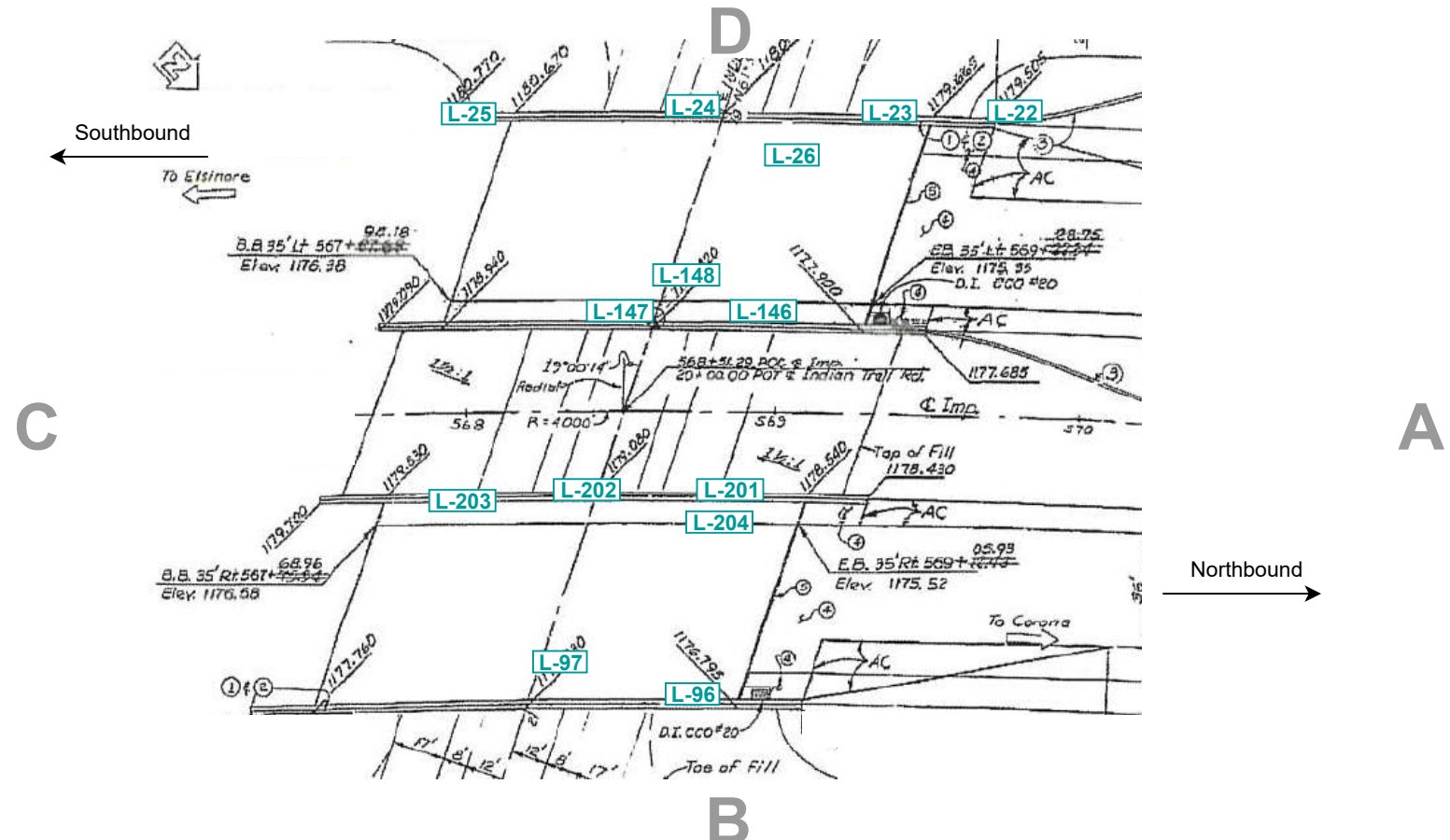
Project #: Atch-192661

HDR Engineering, Inc.

LEGEND:
 L = Negative Lead Chip Sample Locations
 L = Positive Lead Chip Sample Locations



Not to Scale



56-676L/R - Southbound/Northbound Indian Truck Trail Undercrossing

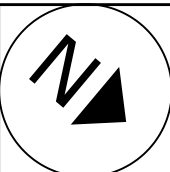
Site Drawing - Lead - Page 6 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

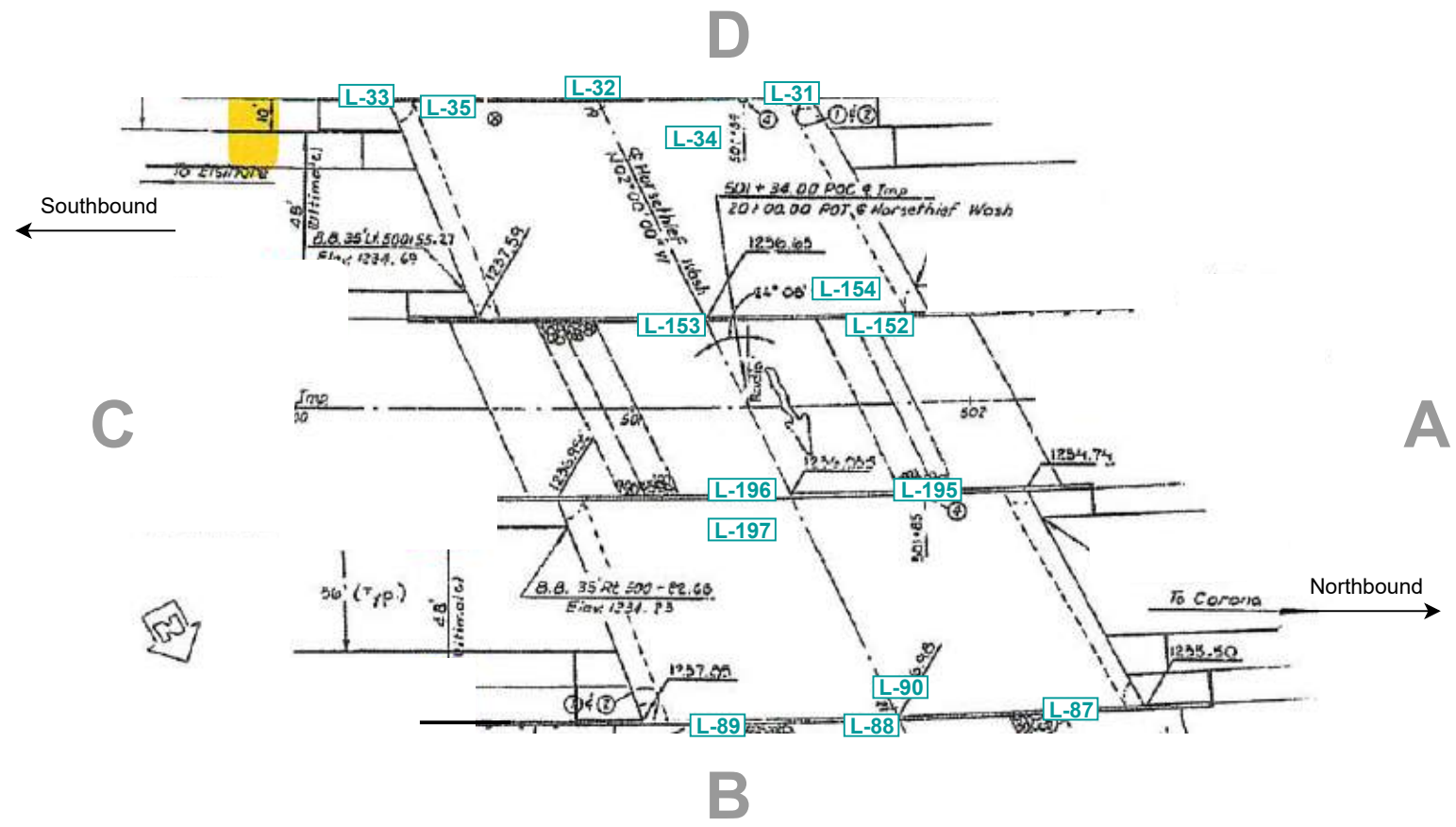
Project #: Atch-192661

HDR Engineering, Inc.

LEGEND:
L = Negative Lead Chip Sample Locations
L = Positive Lead Chip Sample Locations



Not to Scale



56-678L/R - Southbound/Northbound Horsethief Canyon Wash

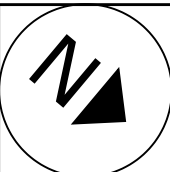
Site Drawing - Lead - Page 8 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

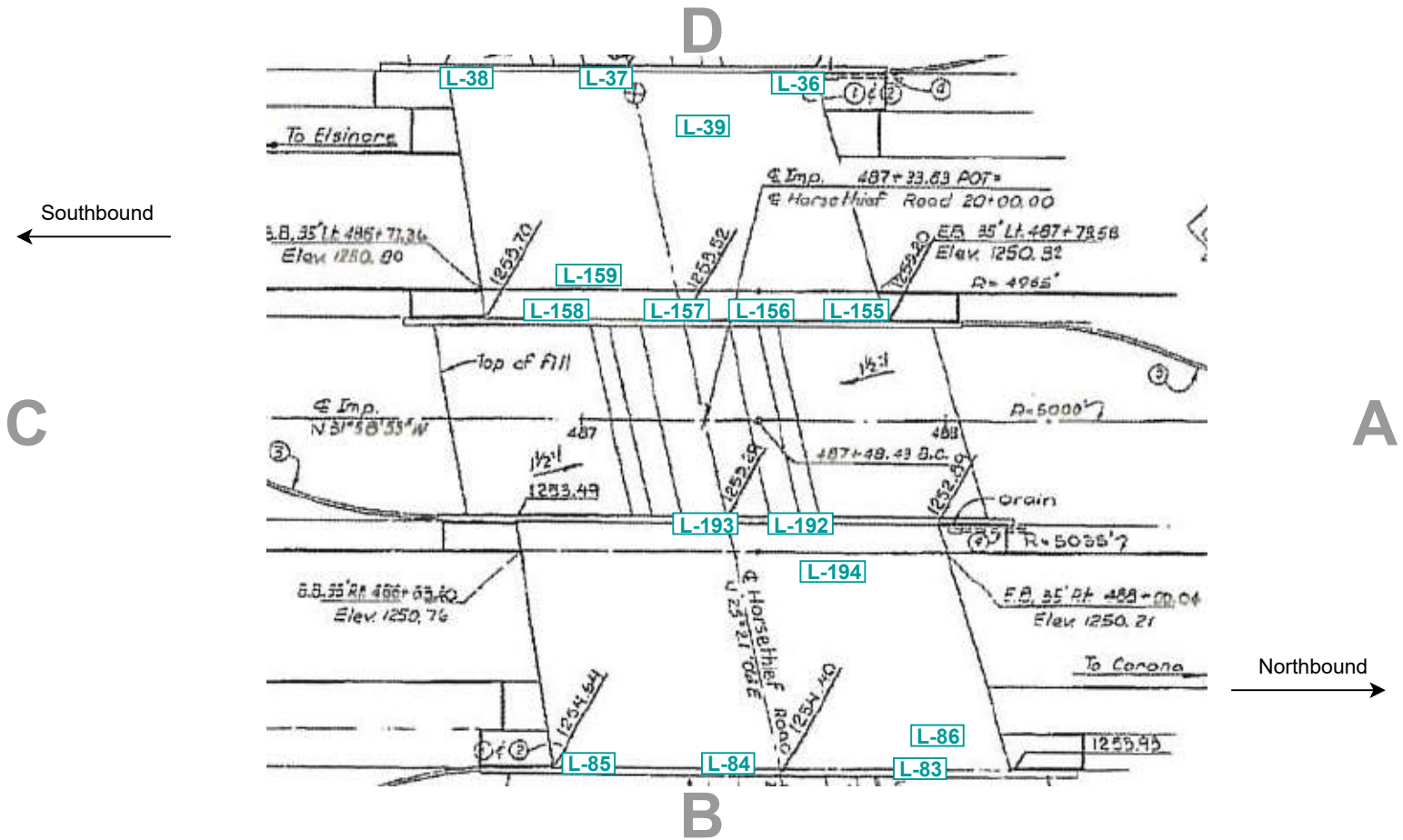
Project #: Atch-192661

HDR Engineering, Inc.

LEGEND:
 L = Negative Lead Chip Sample Locations
 L = Positive Lead Chip Sample Locations



Not to Scale



56-679L/R - Southbound/Northbound Horsethief Canyon Road Undercrossing

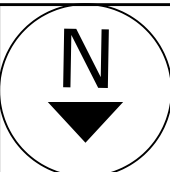
Site Drawing - Lead - Page 9 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

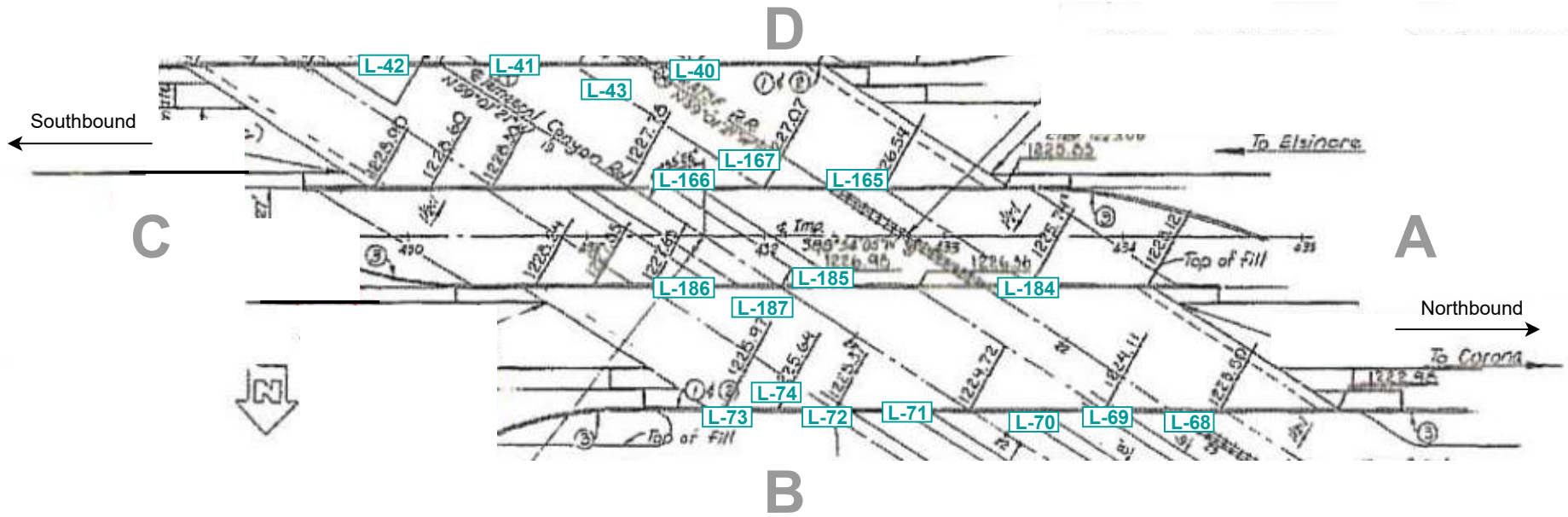
Project #: Atch-192661

HDR Engineering, Inc.

LEGEND:
L = Negative Lead Chip Sample Locations
L = Positive Lead Chip Sample Locations



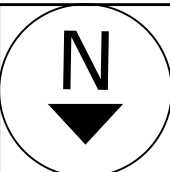
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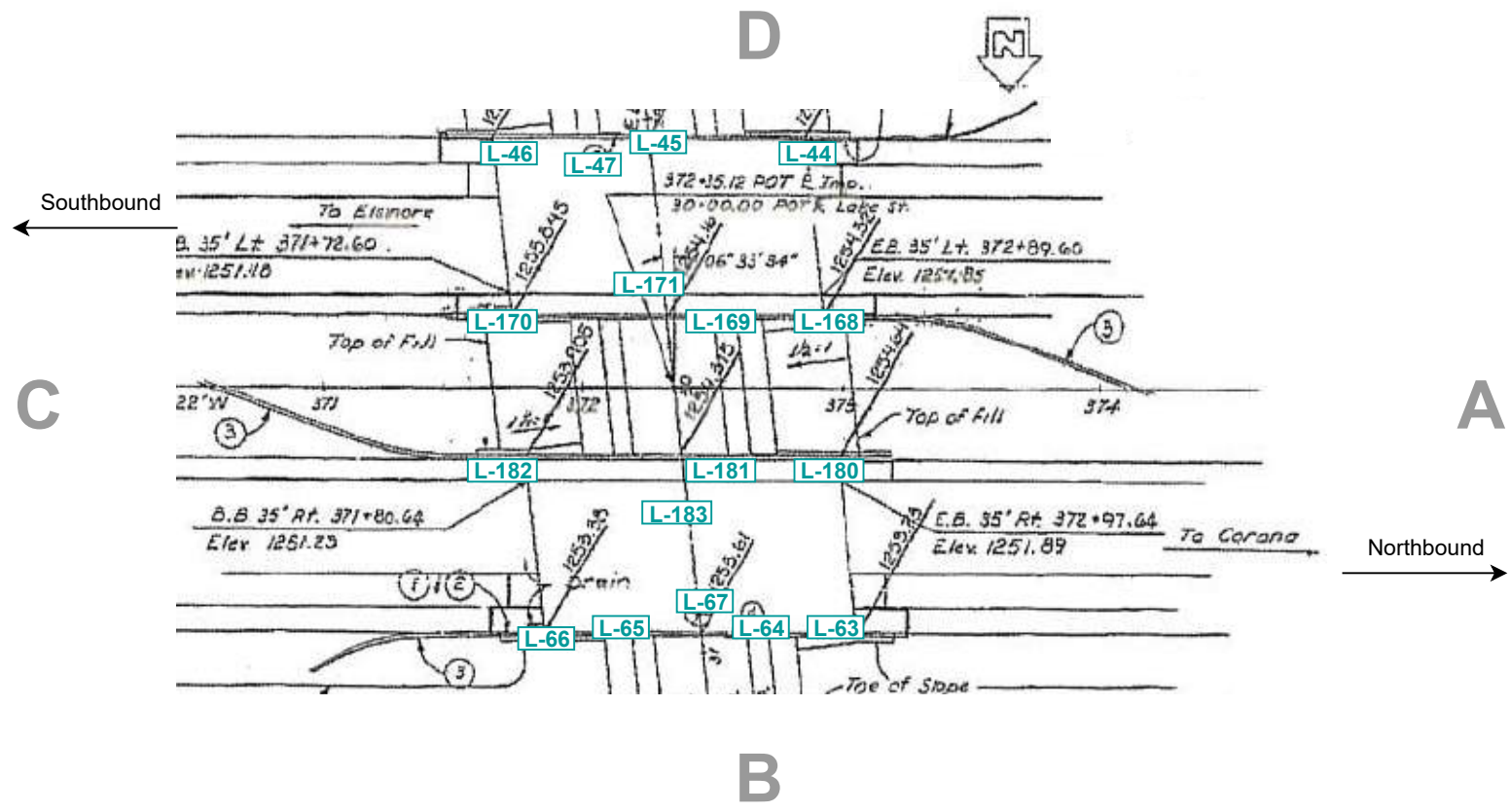
56-681L/R - Southbound/Northbound Temescal Canyon Road
Overhead

LEGEND:
 L = Negative Lead Chip Sample Locations
 L = Positive Lead Chip Sample Locations

Site Drawing - Lead - Page 10 of 15	
Interstate 15 Express Lanes Project Southern Extension Lake Elsinore, California 92883	
Project #: Atch-192661	HDR Engineering, Inc.



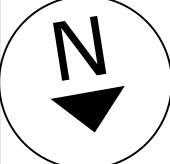
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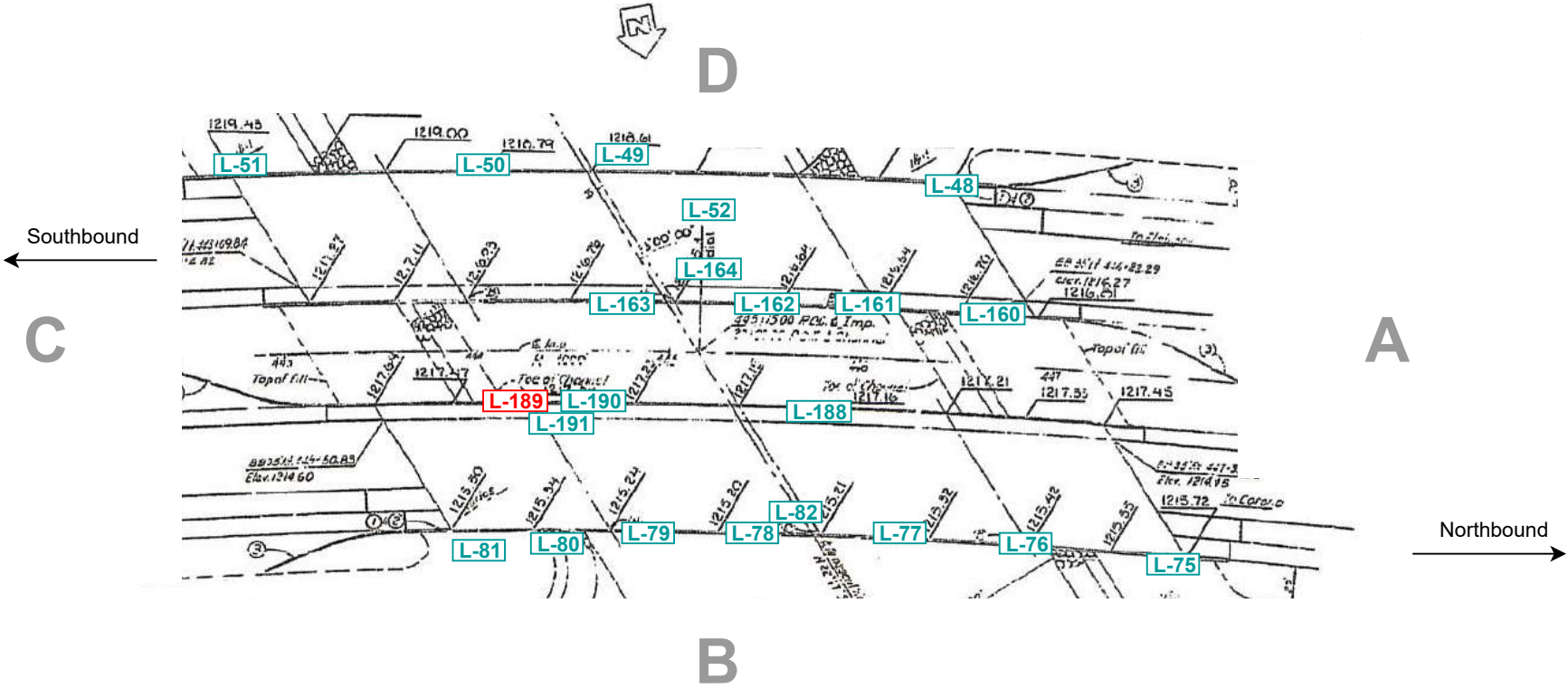
56-682L/R - Southbound/Northbound Lake Street Undercrossing

LEGEND:
 L = Negative Lead Chip Sample Locations
 L = Positive Lead Chip Sample Locations

Site Drawing - Lead - Page 11 of 15	
Interstate 15 Express Lanes Project Southern Extension Lake Elsinore, California 92883	
Project #: Atch-192661	HDR Engineering, Inc.



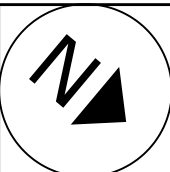
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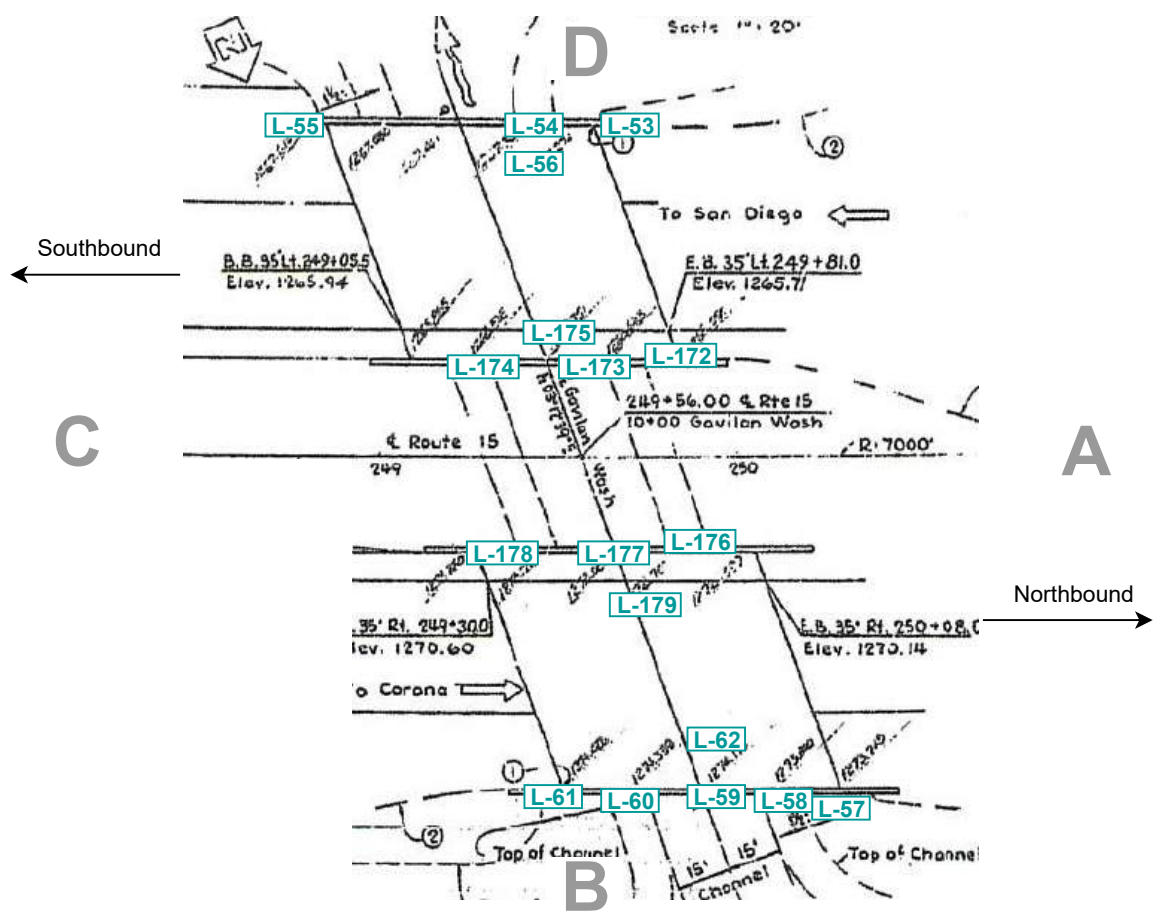
56-680L/R - Southbound/Northbound Temescal Wash

LEGEND:
 L = Negative Lead Chip Sample Locations
 L = Positive Lead Chip Sample Locations

Site Drawing - Lead - Page 12 of 15	
Interstate 15 Express Lanes Project Southern Extension Corona, California 92883	
Project #: Atch-192661	HDR Engineering, Inc.



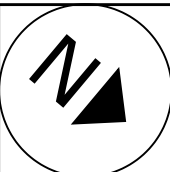
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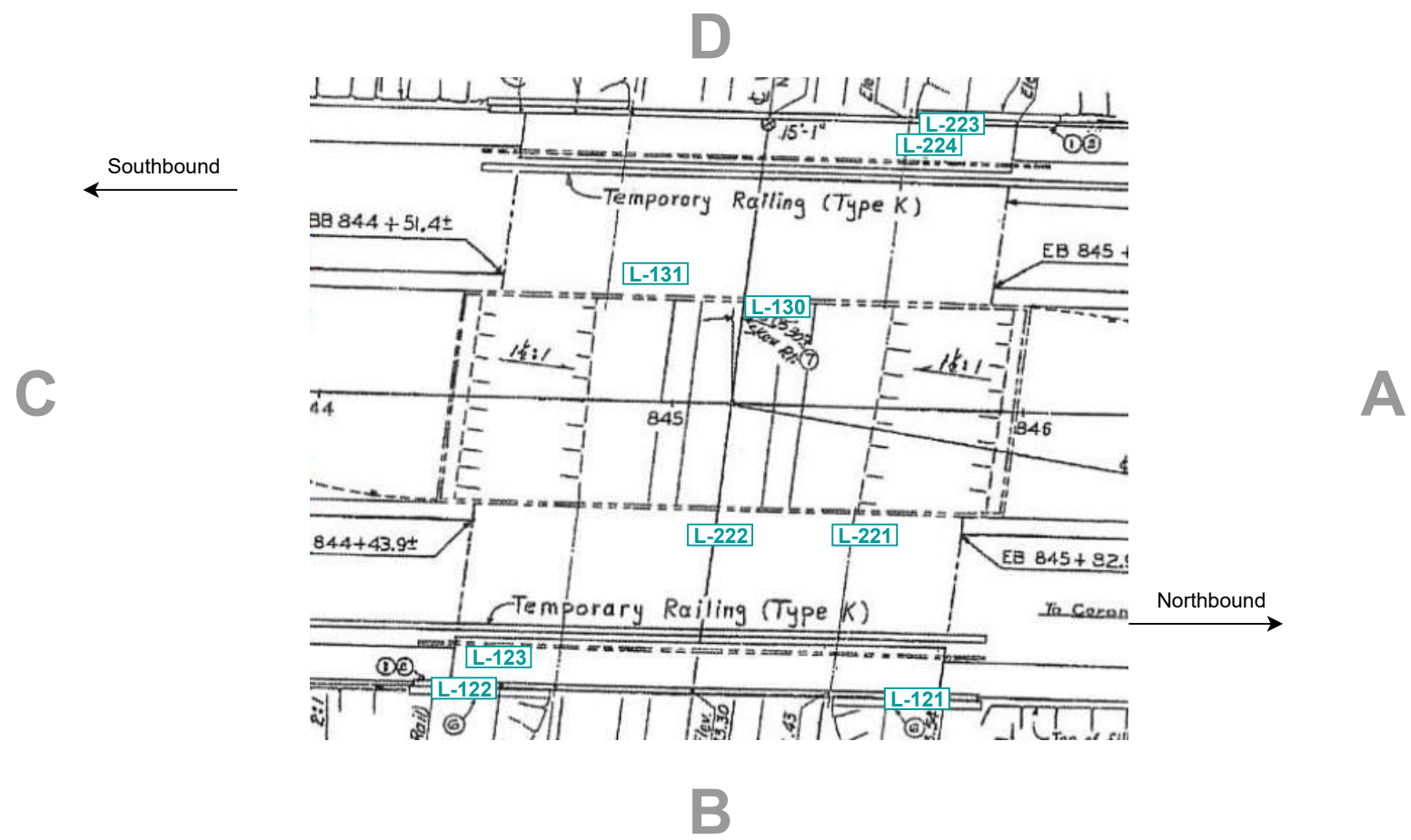
56-726L/R - Southbound/Northbound Gavilan Wash

LEGEND:
 L = Negative Lead Chip Sample Locations
 L = Positive Lead Chip Sample Locations

Site Drawing - Lead - Page 13 of 15	
Interstate 15 Express Lanes Project Southern Extension Lake Elsinore, California 92883	
Project #: Atch-192661	HDR Engineering, Inc.



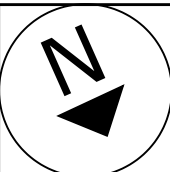
Not to Scale



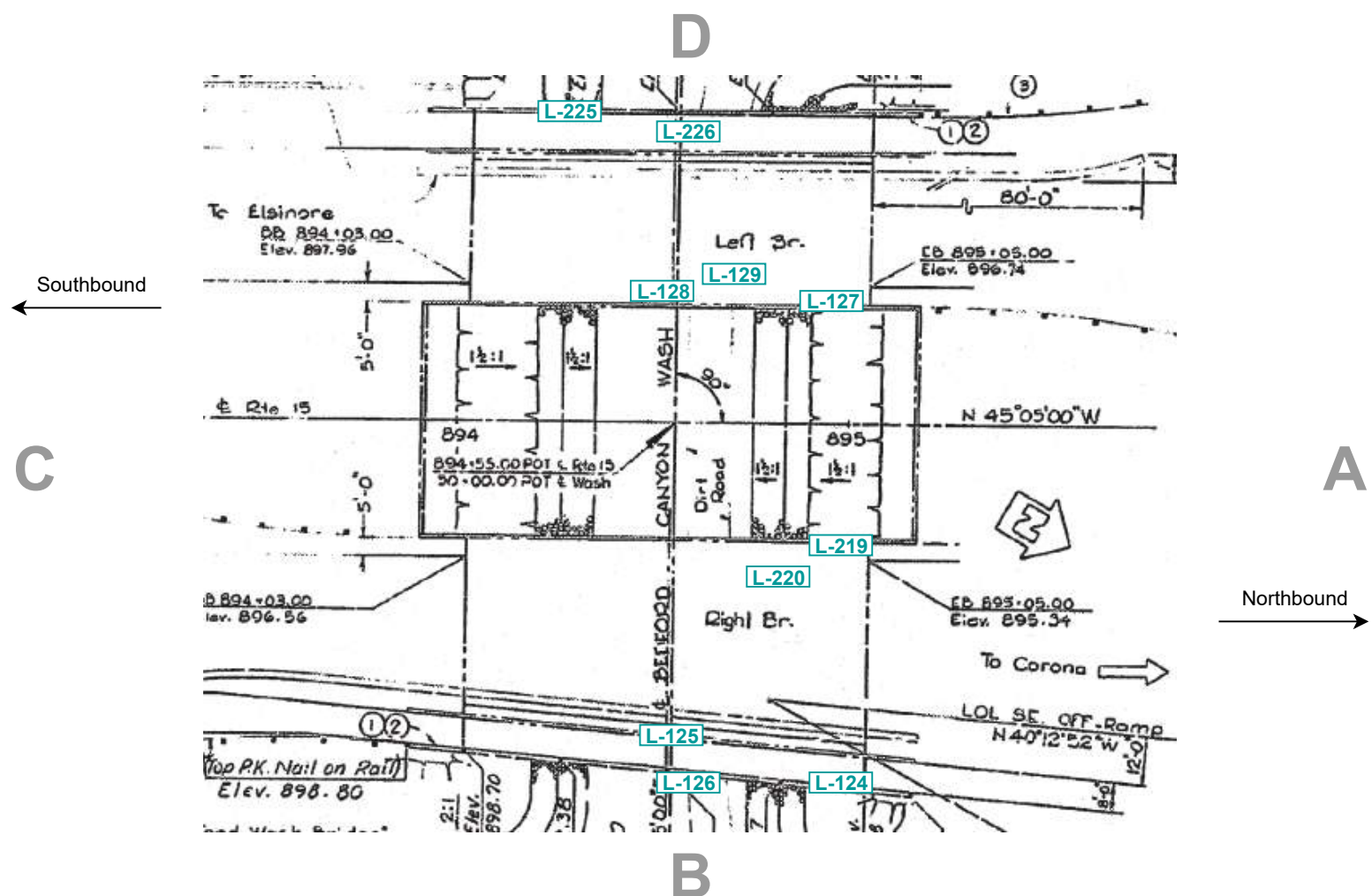
56-541L/R - Southbound/Northbound Weirick Road Undercrossing

Site Drawing - Lead - Page 14 of 15	
Interstate 15 Express Lanes Project Southern Extension Corona, California 92883	
Project #: Atch-192661	HDR Engineering, Inc.

LEGEND:
 L = Negative Lead Chip Sample Locations
 L = Positive Lead Chip Sample Locations



Not to Scale



56-540L/R - Southbound/Northbound Bedford Wash

Site Drawing - Asbestos - Page 15 of 15

Interstate 15 Express Lanes Project Southern Extension
Corona, California 92883

Project #: Atch-192661

HDR Engineering, Inc.

LEGEND:

- L = Negative Lead Chip Sample Locations
- L = Positive Lead Chip Sample Locations

Appendix E:

Digital Photographs: Asbestos



Digital Photographs - Asbestos

Client: HDR Engineering, Inc.

Project #Atch-192661

Interstate 15 Express Lanes Project Southern Extension
Lake Elsinore to Corona, California 92883



View of Gray 56-0541L Felt Pad



View of Gray 56-0541R Felt Pad



View of Gray 56-0559L Felt Pad



View of Gray 56-0559R Felt Pad



View of Gray 56-0540L Felt Pad



View of Gray 56-0540R Felt Pad

Appendix F:

Digital Photographs: Lead



Digital Photographs - Lead

Client: HDR Engineering, Inc.

Project #Atch-192661

Interstate 15 Express Lanes Project Southern Extension
Lake Elsinore to Corona, California 92883



View of Light Gray Paint on 56-0680R –
Northbound Temescal Wash, Inside Rail



View of Yellow Lane Surface Paint on 56-
0677R – Northbound Indian Wash, Inside Rail

Appendix G:

Laboratory Reports: Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method Using Polarized Light Microscopy and Chain of Custody

A-Tech Consulting, Inc.
 1640 N. Batavia Street
 Orange, California 92867
 Attn: Robert Williams
 Project: **192661 - HDR 1-15 Project Inside/Outside Rail**
 Condition of Sample(s) Upon Receipt: Acceptable



Date Collected: 01/06/2020
 Date Received: 01/06/2020
 Date Analyzed: 01/08/2020
 Date Reported: 01/08/2020
 Project ID: 20000514
 Page 1 of 1

Test Requested: **PLM Bulk Count (EPA Method 600/R93/116)** Method: Polarized Light Microscopy (PLM), Interim Method for Asbestos in Bulk Insulation: EPA 600/M4-82-020. Method for Asbestos in Bulk Building Material: EPA 600/R-93/116

Lab Sample #	Client Sample # / Location	Physical Description of Sample	Homogeneous	Layer %	Asb.	Asb. %	Non-asb. Fiber %	Non-fibrous mat %	Matrix
20000514-001	A-01	Gray Cementitious Material	Y	100	ND			100	C
20000514-002	A-02	Gray Cementitious Material	Y	100	ND			100	C
20000514-003	A-03	Gray Cementitious Material	Y	100	ND			100	C
20000514-004	A-04	Black Roofing Material	Y	100	ND			100	B
20000514-005	A-05	Black Roofing Material	Y	100	ND			100	B
20000514-006	A-06	Black Roofing Material	Y	100	ND			100	B
20000514-007	A-07	Tan Rubbery Material	Y	100	ND			100	B
20000514-008	A-08	Tan Rubbery Material	Y	100	ND			100	B
20000514-009	A-09	Tan Rubbery Material	Y	100	ND			100	B
20000514-010	A-10	Gray Rubbery Material	Y	100	ND			100	B
20000514-011	A-11	Gray Rubbery Material	Y	100	ND			100	B

Francisco Moreno
 Laboratory Analyst

Miguel Ines
 Asbestos Laboratory Supervisor

A = Amosite
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 CHRY = Chrysotile
 CR = Crocidolite
 TR = Tremolite
 ND = None Detected
 Trace = Less Than 1%

CELL = Cellulose
 MW = Mineral Wool
 FBG = Fiberglass
 SYN = Synthetic
 WO = Wollastonite
 NTR = Non-Asbestiform TR
 NAC = Non-Asbestiform AC
 FT = Fibrous Talc
 AH = Animal Hair

Q = Quartz
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 V = Vermiculite
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 T = Tar
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 O = Organic
 B = Binder
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 D = Diatoms

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 Page 2 of 1

20000514-012	A-12	Gray Rubbery Material	Y	100	ND			100	B
20000514-013	A-13	Gray Rubbery Material	Y	100	ND			100	B
20000514-014	A-14	Gray Rubbery Material	Y	100	ND			100	B
20000514-015	A-15	Gray Rubbery Material	Y	100	ND			100	B
20000514-016	A-16	White Cementitious Material	Y	100	ND			100	B
20000514-017	A-17	White Cementitious Material	Y	100	ND			100	B
20000514-018	A-18	White Cementitious Material	Y	100	ND			100	B
20000514-019	A-19	Gray Cementitious Material	Y	100	ND			100	C
20000514-020	A-20	Gray Cementitious Material	Y	100	ND			100	C
20000514-021	A-21	Gray Cementitious Material	Y	100	ND			100	C
20000514-022	A-22	Gray Rubbery Material	Y	100	ND			100	B
20000514-023	A-23	Gray Rubbery Material	Y	90	ND			100	B
20000514-023	A-23	Gray Cementitious Material	Y	10	ND			100	C
20000514-024	A-24	Gray Rubbery Material	Y	90	ND			100	B
20000514-024	A-24	Gray Cementitious Material	Y	10	ND			100	C
20000514-025	A-25	White/Black Cementitious Material	Y	100	ND			100	B

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 Page 3 of 1

20000514-026	A-26	White/Black Cementitious Material	Y	100	ND			100	B
20000514-027	A-27	White/Black Cementitious Material	Y	100	ND			100	B
20000514-028	A-28	Black Cementitious Material	Y	20	ND			100	C
20000514-028	A-28	Gray Cementitious Material	Y	80	ND			100	C
20000514-029	A-29	Gray Cementitious Material	Y	100	ND			100	C
20000514-030	A-30	Gray Cementitious Material	Y	100	ND			100	C
20000514-031	A-31	Black Mastic	Y	100	ND		5 CELL	95	T
20000514-032	A-32	Black Mastic	Y	100	ND		5 CELL	95	T
20000514-033	A-33	Black Mastic	Y	100	ND		5 CELL	95	T
20000514-034	A-34	Tan Rubbery Material	Y	90	ND			100	B
20000514-034	A-34	Black Mastic	Y	10	ND			100	T
20000514-035	A-35	Tan Rubbery Material	Y	90	ND			100	B
20000514-035	A-35	Black Mastic	Y	10	ND			100	T
20000514-036	A-36	Tan Rubbery Material	Y	90	ND			100	B

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 Page 4 of 4

20000514-036	A-36	Black Mastic	Y	10	ND			100	T
20000514-037	A-37	White/Black Cementitious Material	Y	90	ND			100	B
20000514-037	A-37	Tan Cementitious Material	Y	10	ND			100	B
20000514-038	A-38	White/Black Cementitious Material	Y	100	ND			100	B
20000514-039	A-39	White/Black Cementitious Material	Y	100	ND			100	B
20000514-040	A-40	Gray Rubbery Material	Y	100	ND			100	B
20000514-041	A-41	Gray Rubbery Material	Y	100	ND			100	B
20000514-042	A-42	Gray Rubbery Material	Y	100	ND			100	B
20000514-043	A-43	Gray Cementitious Material	Y	100	ND			100	C
20000514-044	A-44	Gray Cementitious Material	Y	100	ND			100	C
20000514-045	A-45	Gray Cementitious Material	Y	100	ND			100	C
20000514-046	A-46	Tan Rubbery Material	Y	100	ND			100	B
20000514-047	A-47	Tan Rubbery Material	Y	90	ND			100	B
20000514-047	A-47	Tan Cementitious Material	Y	10	ND			100	C
20000514-048	A-48	Tan Cementitious Material	Y	100	ND			100	C

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 Page 5 of 1

20000514-049	A-49	BlackMastic	Y	100	ND		5 CELL	95	B
20000514-050	A-50	BlackMastic	Y	100	ND		5 CELL	95	B
20000514-051	A-51	BlackMastic	Y	100	ND		5 CELL	95	B
20000514-052	A-52	Black Rubbery Material	Y	100	ND			100	B
20000514-053	A-53	Black Rubbery Material	Y	100	ND			100	B
20000514-054	A-54	Black Rubbery Material	Y	100	ND			100	B

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 Page 6 of 1

General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1%.
- **Trace** or "<1" indicates asbestos was identified in the sample, but the concentration is less than the method detection limit of 1%.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under the NESHAP regulations.
- These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- Samples identified as inhomogeneous (containing more than one layer) shall be divided into individual layers and each layer tested separately. The results for each individual layer shall be listed separately on the report.

Notes Required by NVLAP

- This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- This test report relates only to the items tested or calibrated.
- This report is not valid unless it bears the name of a NVLAP-approved signatory.
- Any reproduction of this document must include the entire document in order for the report to be valid.

Total Layers Analyzed: 62

Francisco Moreno
 Laboratory Analyst

Miguel Ines
 Asbestos Laboratory Supervisor

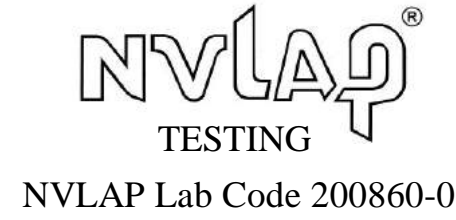
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Certificate of Analysis


Client Name: A-Tech Consulting, Inc.
 Street address: 1748 W. Katella Avenue, Suite 112
 City, State ZIP: Orange, CA 92867
 Attn: Robert L. Williams
Client Project Name: 192661-HDR 1-15 Project Inside/Outside Rail




Date Collected: -
 Date Received: 1/9/2020
 Date Analyzed: 1/10/2020
 Date Reported: 1/13/2020
 Project ID: 20000684

Test Requested: **3002, Asbestos in Bulk Samples**
 Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-55	20000684-1A	Tan Cementitious Material	N	3	ND			100	Q
	20000684-1B	Black Tarry Material	N	17	ND			100	C,T
	20000684-1C	White Cementitious Material	N	80	ND			100	C,Q
A-56	20000684-2A	Black Tarry Material	N	2	ND			100	C,T
	20000684-2B	White Cementitious Material	N	98	ND			100	C,Q
A-57	20000684-3A	Black Tarry Material	N	1	ND			100	C,T
	20000684-3B	White Cementitious Material	N	99	ND			100	C,Q
A-58	20000684-4	Gray Cementitious Material	N	100	ND			100	Q
A-59	20000684-5	Gray Cementitious Material	N	100	ND			100	Q
A-60	20000684-6A	Gray Cementitious Material	N	95	ND			100	Q

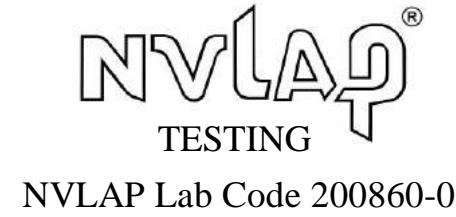

 Andrea Berrios
 Laboratory Analyst


 Shannon Whitmore
 Asbestos Lab Supervisor

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Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-60	20000684-6B	Dark Gray Cementitious Material	N	5	ND			100	G
A-61	20000684-7	Black Tarry Material	N	100	ND		Tr SYN	100	C,T
A-62	20000684-8	Black Tarry Material	N	100	ND			100	C,T
A-63	20000684-9	Black Tarry Material	N	100	ND			100	C,T
A-64	20000684-10A	Black Tarry Material	N	2	ND		Tr SYN	100	C,T
	20000684-10B	Tan and Yellow Cementitious	N	98	ND			100	Q
A-65	20000684-11A	Black Tarry Material	N	1	ND			100	C,T
	20000684-11B	Tan and Yellow Cementitious	N	99	ND			100	Q
A-66	20000684-12A	Black Tarry Material	N	1	ND			100	C,T
	20000684-12B	Tan and Yellow Cementitious	N	99	ND			100	Q

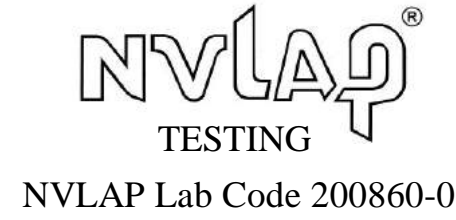

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Client	Lab Sample Number								
A-67	20000684-13A	Black Bulk Material	N	95	ND			100	B
	20000684-13B	Gray Bulk Material	N	2	ND			100	C
	20000684-13C	Tan Bulk Material	N	3	ND			100	B
A-68	20000684-14	Black Bulk Material	N	100	ND			100	B
A-69	20000684-15	Black Bulk Material	N	100	ND			100	B
A-70	20000684-16	Gray Cementitious Material	N	100	ND			100	B,Q
A-71	20000684-17	Gray Cementitious Material	N	100	ND			100	B,Q
A-72	20000684-18	Gray Cementitious Material	N	100	ND			100	B,Q
A-73	20000684-19	Black Tarry Material	N	100	ND		Tr CELL,SYN	100	C,T
A-74	20000684-20	Black Tarry Material	N	100	ND			100	C,T

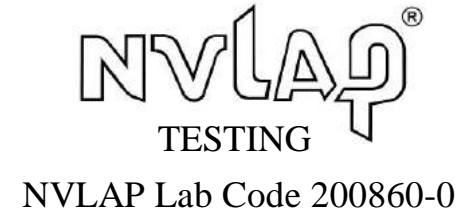

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A-75	20000684-21	Black Tarry Material	N	100	ND			100	C,T
A-76	20000684-22	Tan Bulk Material	N	100	ND			100	B
A-77	20000684-23	Tan Bulk Material	N	100	ND			100	B
A-78	20000684-24	Tan Bulk Material	N	100	ND			100	B
A-79	20000684-25	Gray Bulk Material	N	100	ND			100	B
A-80	20000684-26	Gray Bulk Material	N	100	ND			100	B
A-81	20000684-27	Gray Bulk Material	N	100	ND			100	B
A-82	20000684-28A	Clear Bulk Material	N	90	ND			100	B
	20000684-28B	Gray Cementitious Material	N	10	ND			100	Q
A-83	20000684-29A	Clear Bulk Material	N	95	ND			100	B

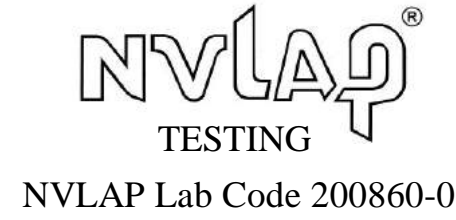

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 Laboratory Analyst


 Shannon Whitmore
 Asbestos Lab Supervisor

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Certificate of Analysis


Client Name: A-Tech Consulting, Inc.
 Street address: 1748 W. Katella Avenue, Suite 112
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 Attn: Robert L. Williams
Client Project Name: 192661-HDR 1-15 Project Inside/Outside Rail




Date Collected: -
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Test Requested: **3002, Asbestos in Bulk Samples**
 Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-83	20000684-29B	Gray Cementitious Material	N	5	ND			100	Q
A-84	20000684-30A	Clear Bulk Material	N	90	ND			100	B
	20000684-30B	Gray Cementitious Material	N	10	ND			100	Q
A-85	20000684-31A	Black Mastic	N	3	ND			100	B
	20000684-31B	White Cementitious Material	N	97	ND			100	Q
A-86	20000684-32	White Cementitious Material	N	100	ND			100	Q
A-87	20000684-33A	Black Mastic	N	12	ND			100	B
	20000684-33B	White Cementitious Material	N	88	ND			100	Q
A-88	20000684-34	Gray Cementitious Material	N	100	ND			100	Q
A-89	20000684-35	Gray Cementitious Material	N	100	ND			100	Q

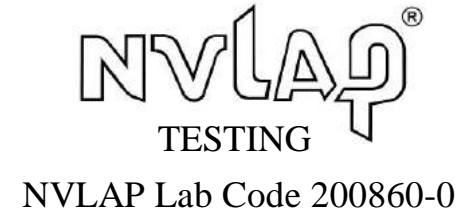

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Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-90	20000684-36	Gray Cementitious Material	N	100	ND			100	Q
A-91	20000684-37	Black Tarry Material	N	100	ND			100	B,C,T
A-92	20000684-38	Black Tarry Material	N	100	ND			100	B,C,T
A-93	20000684-39	Black Tarry Material with Gray Debris	N	100	ND			100	B,C,T
A-94	20000684-40	Light Tan Bulk Material	N	100	ND			100	B
A-95	20000684-41	Light Tan Bulk Material	N	100	ND			100	B
A-96	20000684-42	Light Tan Bulk Material	N	100	ND			100	B
A-97	20000684-43	Tan/Brown Bulk Material with Black Debris	N	100	ND			100	B
A-98	20000684-44	Tan/Brown Bulk Material with Black Debris	N	100	ND			100	B
A-99	20000684-45	Tan/Brown Bulk Material with Black Debris	N	100	ND			100	B

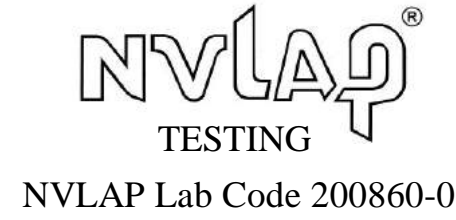

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Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-100	20000684-46A	White Bulk Material	N	97	ND			100	B
	20000684-46B	Black Bulk Material	N	3	ND			100	B
A-101	20000684-47A	White Bulk Material	N	55	ND			100	B
	20000684-47B	Black Tarry Material	N	45	ND			100	T
A-102	20000684-48A	White Bulk Material	N	99	ND			100	B
	20000684-48B	Black Tarry Material	N	1	ND			100	T
A-103	20000684-49	Gray Cementitious Material with Off-White Paint	N	100	ND			100	Q
A-104	20000684-50A	Gray Cementitious Material	N	40	ND			100	Q
	20000684-50B	Light Tan Bulk Material	N	10	ND			100	Q
	20000684-50C	Gray Cementitious Material	N	50	ND			100	Q

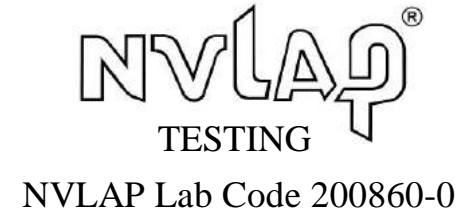

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Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-105	20000684-51	Gray Cementitious Material	N	100	ND			100	Q
A-106	20000684-52	Black Tarry Material	N	100	ND			100	B,C,T
A-107	20000684-53A	Black Tarry Material	N	93	ND			100	B,C,T
	20000684-53B	Gray Cementitious Material	N	7	ND			100	Q
A-108	20000684-54	Black Tarry Material	N	100	ND			100	B,C,T
A-109	20000684-55	Light Tan Bulk Material	N	100	ND			100	B,C
A-110	20000684-56	Light Tan Bulk Material	N	100	ND			100	B,C
A-111	20000684-57	Light Tan Bulk Material	N	100	ND			100	B,C
A-112	20000684-58	Gray Bulk Material	N	100	ND		5 SYN	95	B
A-113	20000684-59A	Gray Bulk Material	N	20	ND		8 CELL	92	B,Q

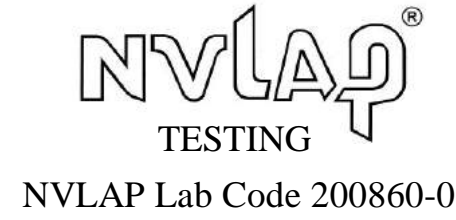

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Client	Lab Sample Number								
A-113	20000684-59B	Tan Cementitious Material	N	80	ND			100	B,Q
A-114	20000684-60A	Gray Bulk Material	N	80	ND		10 CELL	90	B
	20000684-60B	Tan Cementitious Material	N	20	ND			100	B,Q
A-115	20000684-61	Black Bulk Material	N	100	ND			100	B
A-116	20000684-62	Black Bulk Material	N	100	ND			100	B
A-117	20000684-63	Black Bulk Material	N	100	ND			100	B
A-118	20000684-64A	White Cementitious Material	N	100	ND			100	C,Q
	20000684-64B	Black Tarry Material	N	Tr	ND			100	C,T
A-119	20000684-65	White Cementitious Material	N	100	ND			100	C,Q
A-120	20000684-66	White Cementitious Material	N	100	ND			100	C,Q


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General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
- These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be performed by a TEM. ***A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.***

Notes Required by NVLAP

- This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- This test report relates only to the items tested or calibrated.
- This report is not valid unless it bears the name of a NVLAP-approved signatory.
- Any reproduction of this document must include the entire document in order for the report to be valid.

Total Layers Analyzed= 90

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 1640 N. Batavia Street
 Orange, California 92867
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 Project: **192661-HDR I-15 Project Inside/Outside Rail**
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Date Collected: 01/08/2020
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 Page 1 of 11

Test Requested: **PLM Bulk Count (EPA Method 600/R93/116)** Method: Polarized Light Microscopy (PLM), Interim Method for Asbestos in Bulk Insulation: EPA 600/M4-82-020. Method for Asbestos in Bulk Building Material: EPA 600/R-93/116

Lab Sample #	Client Sample # / Location	Physical Description of Sample	Homogeneous	Layer %	Asb.	Asb. %	Non-asb. Fiber %	Non-fibrous mat %	Matrix
20001010-001	A-121	Light Gray Texture	Y	10	ND			100	C
20001010-001	A-121	Gray Cementitious Material	Y	90	ND			100	C,Q
20001010-002	A-122	Gray Cementitious Material	Y	100	ND			100	C,Q
20001010-003	A-123	Light Gray Texture	Y	5	ND			100	C
20001010-003	A-123	Gray Cementitious Material	Y	95	ND			100	C,Q
20001010-004	A-124	Black Tarry Material	Y	100	ND		2 CELL	98	T,Q
20001010-005	A-125	Black Tarry Material	Y	100	ND		2 CELL	98	T,Q
20001010-006	A-126	Black Tarry Material	Y	100	ND		2 CELL	98	T,Q
20001010-007	A-127	Tan Rubbery Material	Y	100	ND			100	B
20001010-008	A-128	Tan Rubbery Material	Y	100	ND			100	B

Rogelio Casillas
 Laboratory Analyst

Miguel Ines
 Asbestos Laboratory Supervisor

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 NAC = Non-Asbestiform AC
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 Page 2 of 11

20001010-009	A-129	Tan Rubbery Material	Y	95	ND			100	B
20001010-009	A-129	Gray Cementitious Material	Y	5	ND			100	C,Q
20001010-010	A-130	Black Rubbery Material	Y	100	ND			100	B
20001010-011	A-131	Black Rubbery Material	Y	100	ND			100	B
20001010-012	A-132	Black Rubbery Material	Y	100	ND			100	B
20001010-013	A-133	Beige/Tan Solid Material	Y	100	ND			100	C,Q
20001010-014	A-134	Beige/Tan Solid Material	Y	100	ND			100	C,Q
20001010-015	A-135	Beige/Tan Solid Material	Y	100	ND			100	C,Q
20001010-016	A-136	White Cementitious Material	Y	100	ND		2 FBG	98	C,Q
20001010-017	A-137	White Cementitious Material	Y	100	ND		2 FBG	98	C,Q
20001010-018	A-138	White Cementitious Material	Y	100	ND		2 FBG	98	C,Q
20001010-019	A-139	Tan Rubbery Material	Y	10	ND			100	B
20001010-019	A-139	Gray Cementitious Material	Y	90	ND			100	C,Q
20001010-020	A-140	Tan Texture	Y	5	ND			100	C

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20001010-020	A-140	Gray Cementitious Material	Y	95	ND			100	C,Q
20001010-021	A-141	Tan Texture	Y	5	ND			100	C
20001010-021	A-141	Gray Cementitious Material	Y	95	ND			100	C,Q
20001010-022	A-142	Black Tarry Material	Y	100	ND		2 CELL	98	T,Q
20001010-023	A-143	Black Tarry Material	Y	100	ND		2 CELL	98	T,Q
20001010-024	A-144	Black Tarry Material	Y	100	ND		2 CELL	98	T,Q
20001010-025	A-145	Beige/Tan Solid Material	Y	100	ND			100	C,Q
20001010-026	A-146	Beige/Tan Solid Material	Y	100	ND			100	C,Q
20001010-027	A-147	Beige/Tan Solid Material	Y	100	ND			100	C,Q
20001010-028	A-148	Black Rubbery Material	Y	100	ND			100	B
20001010-029	A-149	Black Rubbery Material	Y	100	ND			100	B
20001010-030	A-150	Gray Rubbery Material	Y	100	ND			100	B
20001010-031	A-151	Tan Cementitious Material	Y	5	ND			100	C,Q
20001010-031	A-151	Gray Soild Material	Y	95	ND			100	C,Q

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20001010-032	A-152	Tan Cementitious Material	Y	10	ND			100	C,Q
20001010-032	A-152	Gray Soild Material	Y	85	ND			100	C,Q
20001010-032	A-152	Black Tarry Material	Y	5	ND		2 CELL	98	T,Q
20001010-033	A-153	Gray Soild Material	Y	100	ND			100	C,Q
20001010-034	A-154	White Cementitious Material	Y	100	ND		2 FBG	98	C,Q
20001010-035	A-155	White Cementitious Material	Y	100	ND		2 FBG	98	C,Q
20001010-036	A-156	White Cementitious Material	Y	100	ND		2 FBG	98	C,Q
20001010-037	A-157	Gray Cementitious Material	Y	100	ND			100	C,Q
20001010-038	A-158	Gray Cementitious Material	Y	95	ND			100	C,Q
20001010-038	A-158	White Cementitious Material	Y	5	ND			100	C,Q
20001010-039	A-159	Gray Cementitious Material	Y	100	ND			100	C,Q
20001010-040	A-160	Black Tarry Material	Y	100	ND		2 CELL	98	T,Q

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20001010-041	A-161	Black Tarry Material	Y	100	ND		2 CELL	98	T,Q
20001010-042	A-162	Black Tarry Material	Y	100	ND		2 CELL	98	T,Q
20001010-043	A-163	Tan Rubbery Material	Y	95	ND			100	B
20001010-043	A-163	Gray Rubbery Material	Y	5	ND			100	B
20001010-044	A-164	Tan Rubbery Material	Y	100	ND			100	B
20001010-045	A-165	Tan Rubbery Material	Y	100	ND			100	B
20001010-046	A-166	Gray Rubbery Material	Y	95	ND			100	B
20001010-046	A-166	Tan Cementitious Material	Y	5	ND			100	C,Q
20001010-047	A-167	Gray Rubbery Material	Y	97	ND			100	B
20001010-047	A-167	Tan Cementitious Material	Y	3	ND			100	C,Q
20001010-048	A-168	Gray Rubbery Material	Y	100	ND			100	B
20001010-049	A-169	Black Rubbery Material	Y	100	ND			100	B
20001010-050	A-170	Black Rubbery Material	Y	100	ND			100	B
20001010-051	A-171	Black Rubbery Material	Y	100	ND			100	B

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Miguel Ines
 Asbestos Laboratory Supervisor

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20001010-052	A-172	White Cementitious Material	Y	100	ND		2 FBG	98	C,Q
20001010-053	A-173	White Cementitious Material	Y	100	ND		2 FBG	98	C,Q
20001010-054	A-174	White Cementitious Material	Y	100	ND		2 FBG	98	C,Q
20001010-055	A-175	Light Gray Texture	Y	5	ND			100	C
20001010-055	A-175	Gray Cementitious Material	Y	95	ND			100	C,Q
20001010-056	A-176	Light Gray Texture	Y	5	ND			100	C
20001010-056	A-176	Gray Cementitious Material	Y	95	ND			100	C,Q
20001010-057	A-177	Gray Cementitious Material	Y	100	ND			100	C,Q
20001010-058	A-178	Black Tarry Material	Y	100	ND		2 CELL	98	T,Q
20001010-059	A-179	Black Tarry Material	Y	100	ND		2 CELL	98	T,Q
20001010-060	A-180	Black Tarry Material	Y	100	ND		2 CELL	98	T,Q
20001010-061	A-181	Tan Rubbery Material	Y	95	ND			100	B

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20001010-061	A-181	Gray Cementitious Material	Y	5	ND			100	C,Q
20001010-062	A-182	Tan Rubbery Material	Y	95	ND			100	B
20001010-062	A-182	Gray Cementitious Material	Y	5	ND			100	C,Q
20001010-063	A-183	Tan Rubbery Material	Y	95	ND			100	B
20001010-063	A-183	Gray Cementitious Material	Y	5	ND			100	C,Q
20001010-064	A-184	Gray Rubbery Material	Y	100	ND			100	B
20001010-065	A-185	Gray Texture	Y	90	ND			100	C
20001010-065	A-185	Gray Cementitious Material	Y	10	ND			100	C,Q
20001010-066	A-186	Gray Rubbery Material	Y	100	ND			100	B
20001010-067	A-187	Black Rubbery Material	Y	100	ND			100	B
20001010-068	A-188	Black Rubbery Material	Y	100	ND			100	B
20001010-069	A-189	Black Rubbery Material	Y	100	ND			100	B
20001010-070	A-190	Beige Coating	Y	65	ND			100	Other
20001010-070	A-190	Beige/White Cementitious Material	Y	35	ND		2 FBG	98	C,Q
20001010-071	A-191	Beige Coating	Y	60	ND			100	Other

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20001010-071	A-191	Beige/White Cementitious Material	Y	40	ND		2 FBG	98	C,Q
20001010-072	A-192	Beige Coating	Y	65	ND			100	Other
20001010-072	A-192	Beige/White Cementitious Material	Y	35	ND		2 FBG	98	C,Q
20001010-073	A-193	White Compound	Y	100	ND			100	C,G
20001010-074	A-194	White Compound	Y	100	ND			100	C,G
20001010-075	A-195	White Compound	Y	100	ND			100	C,G
20001010-076	A-196	Gray/Beige Cementitious Material	Y	100	ND			100	C,Q
20001010-077	A-197	Gray/Beige Cementitious Material	Y	100	ND			100	C,Q
20001010-078	A-198	Gray/Beige Cementitious Material	Y	100	ND			100	C,Q
20001010-079	A-199	Black Tarry Material	Y	100	ND		5 CELL	95	T
20001010-080	A-200	Black Tarry Material	Y	100	ND		5 CELL	95	T
20001010-081	A-201	Black Tarry Material	Y	100	ND		5 CELL	95	T

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20001010-082	A-202	Gray/Black Rubbery Material	Y	100	ND		7 CELL	93	Other
20001010-083	A-203	Gray/Black Rubbery Material	Y	65	ND		7 CELL	93	Other
20001010-083	A-203	Beige Cementitious Material	Y	35	ND		3 FBG	97	C,G
20001010-084	A-204	Gray/Black Rubbery Material	Y	100	ND		7 CELL	93	Other
20001010-085	A-205	Gray Cementitious Material	Y	100	ND		2 FBG	98	C,G
20001010-086	A-206	Gray Cementitious Material	Y	100	ND		2 FBG	98	C,G
20001010-087	A-207	Gray Cementitious Material	Y	100	ND		2 FBG	98	C,G
20001010-088	A-208	Dark Gray Rubbery Material	Y	100	ND			100	Other
20001010-089	A-209	Dark Gray Rubbery Material	Y	100	ND			100	Other
20001010-090	A-210	Dark Gray Rubbery Material	Y	100	ND			100	Other
20001010-091	A-211	White/Gray Compound	Y	100	ND		2 CELL	98	C,G

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20001010-092	A-212	White/Gray Compound	Y	100	ND		2 CELL	98	C,G
20001010-093	A-213	White/Gray Compound	Y	100	ND		2 CELL	98	C,G

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General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1%.
- **Trace** or "<1" indicates asbestos was identified in the sample, but the concentration is less than the method detection limit of 1%.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under the NESHAP regulations.
- These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- Samples identified as inhomogeneous (containing more than one layer) shall be divided into individual layers and each layer tested separately. The results for each individual layer shall be listed separately on the report.

Notes Required by NVLAP

- This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- This test report relates only to the items tested or calibrated.
- This report is not valid unless it bears the name of a NVLAP-approved signatory.
- Any reproduction of this document must include the entire document in order for the report to be valid. Total Layers Analyzed: 116

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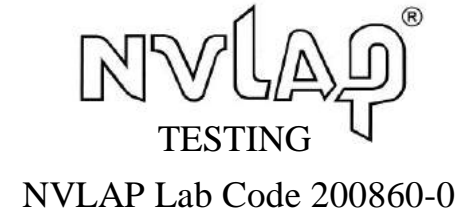
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Certificate of Analysis


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Date Collected: 1/9/2020
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 Date Reported: 1/15/2020
 Project ID: 20001168

Test Requested: **3002, Asbestos in Bulk Samples**
 Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-214	20001168-1A	White Foam	N	97	ND			100	B
	20001168-1B	Tan Leveling Compound	N	3	ND			100	B
A-215	20001168-2	White Foam	N	100	ND		Tr CELL	100	B
A-216	20001168-3	Gray Cementitious Material	N	100	ND			100	B,Q
A-217	20001168-4	Gray Cementitious Material	N	100	ND			100	B,Q
A-218	20001168-5	Gray Cementitious Material	N	100	ND			100	B,Q
A-219	20001168-6	Black Tarry Material	N	100	ND			100	C,T
A-220	20001168-7	Black Tarry Material	N	100	ND			100	C,T
A-221	20001168-8	Black Tarry Material	N	100	ND		Tr CELL	100	C,T
A-222	20001168-9	Gray Bulk Material	N	100	ND			100	B

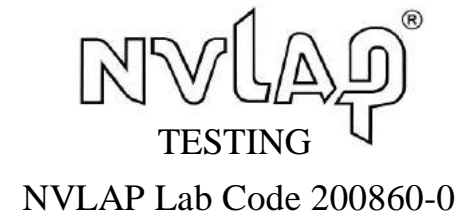

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Client	Lab Sample Number								
A-223	20001168-10	Gray Bulk Material	N	100	ND			100	B
A-224	20001168-11	Gray Bulk Material	N	100	ND			100	B
A-225	20001168-12	White Cementitious Material	N	100	ND		Tr CELL	100	B,Q
A-226	20001168-13	White Cementitious Material	N	100	ND		Tr CELL	100	B,Q
A-227	20001168-14	White Cementitious Material	N	100	ND			100	B,Q
A-228	20001168-15	White and Tan Foam	N	100	ND		Tr CELL	100	B
A-229	20001168-16	White and Tan Foam	N	100	ND			100	B
A-230	20001168-17	Gray Cementitious Material	N	100	ND			100	B,Q
A-231	20001168-18	Gray Bulk Material	N	100	ND			100	B
A-232	20001168-19	Gray Cementitious Material	N	100	ND			100	B,Q

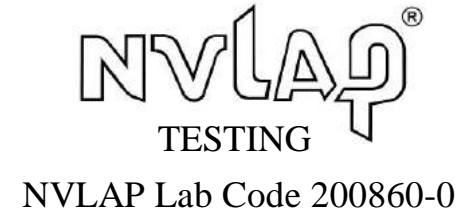

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Client	Lab Sample Number								
A-233	20001168-20	Black Tarry Material	N	100	ND			100	C,T
A-234	20001168-21	Black Tarry Material	N	100	ND			100	C,T
A-235	20001168-22	Black Tarry Material	N	100	ND			100	C,T
A-236	20001168-23A	Gray Resinous Material	N	50	ND			100	
	20001168-23B	Gray Cementitious Material	N	50	ND			100	
A-237	20001168-24	Gray Resinous Material	N	100	ND			100	
A-238	20001168-25	Gray Resinous Material	N	100	ND			100	
A-239	20001168-26	Black Resinous Material	N	100	ND			100	
A-240	20001168-27	Black Resinous Material	N	100	ND			100	
A-241	20001168-28	Black Resinous Material	N	100	ND			100	

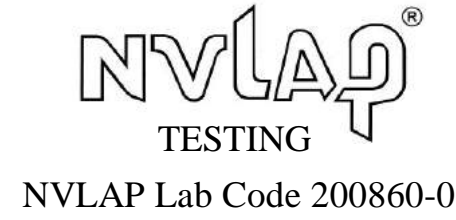

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A-242	20001168-29	White Cementitious Material	N	100	ND			100	
A-243	20001168-30	White Cementitious Material	N	100	ND			100	
A-244	20001168-31	White Cementitious Material	N	100	ND			100	
A-245	20001168-32A	Gray Resinous Material	N	15	ND			100	
	20001168-32B	Gray Cementitious Material	N	85	ND			100	
A-246	20001168-33A	Gray Resinous Material	N	15	ND			100	
	20001168-33B	Gray Cementitious Material	N	85	ND			100	
A-247	20001168-34A	Gray Paint	N	1	ND			100	
	20001168-34B	Gray Cementitious Material	N	99	ND		Tr CELL	100	
A-248	20001168-35	Black Tarry Material	N	100	ND			100	T

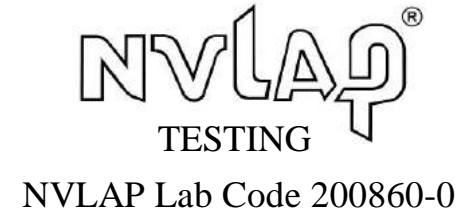

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Test Requested: **3002, Asbestos in Bulk Samples**
 Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-249	20001168-36	Black Tarry Material	N	100	ND			100	T
A-250	20001168-37	Black Tarry Material	N	100	ND		Tr CELL	100	T
A-251	20001168-38	Black Bulk Material	N	100	ND			100	B
A-252	20001168-39	Black Bulk Material	N	100	ND			100	B
A-253	20001168-40	Black Bulk Material	N	100	ND			100	B
A-254	20001168-41	White Cementitious Material	N	100	ND			100	Q
A-255	20001168-42	White Cementitious Material	N	100	ND			100	Q
A-256	20001168-43	White Cementitious Material	N	100	ND			100	Q
A-257	20001168-44A	Gray Granular Cementitious Material with Tan Paint	N	2	ND			100	Q
	20001168-44B	White Foam	N	98	ND			100	B

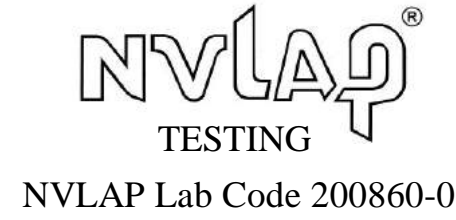

 Andrea Berrios
 Laboratory Analyst


 Shannon Whitmore
 Asbestos Lab Supervisor

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Certificate of Analysis


Client Name: A-Tech Consulting, Inc.
 Street address: 1748 W. Katella Avenue, Suite 112
 City, State ZIP: Orange, CA 92867
 Attn: Robert L. Williams
Client Project Name: 192661 - HDR 1-15 Project Inside/Outside Rail




Date Collected: 1/9/2020
 Date Received: 1/9/2020
 Date Analyzed: 1/15/2020
 Date Reported: 1/15/2020
 Project ID: 20001168

Test Requested: **3002, Asbestos in Bulk Samples**
 Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-258	20001168-45A	Gray Granular Cementitious Material with Tan Paint	N	2	ND			100	Q
	20001168-45B	White Foam	N	98	ND			100	B

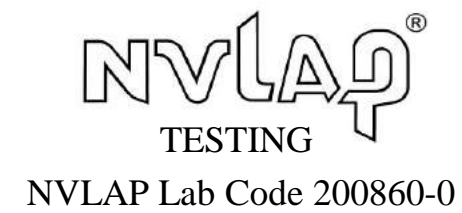

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General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
- These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be performed by a TEM. ***A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.***

Notes Required by NVLAP

- This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- This test report relates only to the items tested or calibrated.
- This report is not valid unless it bears the name of a NVLAP-approved signatory.
- Any reproduction of this document must include the entire document in order for the report to be valid.

Total Layers Analyzed=52

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Date Collected: 1/10/2020
 Date Received: 1/10/2020
 Date Analyzed: 1/16/2020
 Date Reported: 1/16/2020
 Project ID: 20001390

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Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-259	20001390-1	Light Gray Cementitious Material	N	100	ND			100	Q
A-260	20001390-2	Gray Cementitious Material	N	100	ND			100	Q
A-261	20001390-3	Gray Cementitious Material	N	100	ND			100	Q
A-262	20001390-4	Black Tarry Material	N	100	ND			100	T
A-263	20001390-5	Black Tarry Material	N	100	ND			100	T
A-264	20001390-6	Black Tarry Material	N	100	ND			100	T
A-265	20001390-7	Tan Bulk Material	N	100	ND			100	B
A-266	20001390-8	Tan Bulk Material	N	100	ND			100	B
A-267	20001390-9	Tan Bulk Material	N	100	ND			100	B
A-268	20001390-10	Black Bulk material	N	100	ND			100	B

Michael Scales
 Laboratory Analyst

Shannon Whitmore
 Asbestos Lab Supervisor

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Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-269	20001390-11A	Black Bulk Material	N	92	ND			100	B
	20001390-11B	White Bulk Material	N	8	ND			100	P
A-270	20001390-12	Black Bulk Material	N	100	ND			100	B
A-271	20001390-13A	White Bulk Material	N	98	ND			100	B
	20001390-13B	Black Bulk Material	N	2	ND			100	B
A-272	20001390-14A	White Bulk Material	N	98	ND			100	B
	20001390-14B	Black Bulk Material	N	2	ND			100	B
A-273	20001390-15A	White Bulk Material	N	98	ND			100	B
	20001390-15B	Black Bulk Material	N	2	ND			100	B
A-274	20001390-16	Light Gray Cementitious Material	N	100	ND			100	Q

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Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-275	20001390-17	Gray Cementitious Material with White Paint	N	100	ND			100	Q
A-276	20001390-18	Gray Cementitious Material	N	100	ND			100	Q
A-277	20001390-19	Black Tarry Material	N	100	ND			100	T
A-278	20001390-20	Black Tarry Material	N	100	ND			100	T
A-279	20001390-21	Black Tarry Material	N	100	ND			100	T
A-280	20001390-22A	Tan Bulk Material	N	60	ND			100	B
	20001390-22B	Gray Cementitious Material	N	40	ND			100	Q
A-281	20001390-23	Tan Bulk Material	N	100	ND			100	B
A-282	20001390-24	Tan Bulk Material	N	100	ND			100	B
A-283	20001390-25A	Gray Bulk Material	N	85	ND		5 CELL,SYN	95	B

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Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-283	20001390-25B	Light Gray Cementitious Material	N	15	ND			100	Q
A-284	20001390-26	Gray Bulk Material	N	100	ND		3 CELL,SYN	97	B
A-285	20001390-27	Gray Bulk Material	N	100	ND		8 CELL,SYN	92	B
A-286	20001390-28	Black Bulk Matertial	N	100	ND			100	B
A-287	20001390-29	Black Bulk Matertial	N	100	ND			100	B
A-288	20001390-30	Black Bulk Matertial	N	100	ND			100	B
A-289	20001390-31	White Bulk Material	N	100	ND			100	B
A-290	20001390-32	White Bulk Material	N	100	ND			100	B
A-291	20001390-33	White Bulk Material	N	100	ND			100	B
A-292	20001390-34A	White Bulk Material	N	95	ND			100	B

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Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-292	20001390-34B	Black Bulk Material	N	5	ND			100	B
A-293	20001390-35A	White Bulk Material	N	70	ND			100	B
	20001390-35B	Black Bulk Material	N	5	ND			100	B
	20001390-35C	White Bulk Material	N	25	ND			100	B
A-294	20001390-36	Gray Cementitious Material	N	100	ND			100	Q
A-295	20001390-37A	Gray Cementitious Material	N	10	ND			100	Q
	20001390-37B	Light Gray Cementitious Material	N	90	ND		Tr CELL	100	Q
A-296	20001390-38	Gray Cementitious Material with Gray Paint	N	100	ND			100	Q
A-297	20001390-39	Black Tarry Material	N	100	ND			100	T
A-298	20001390-40	Black Tarry Material	N	100	ND			100	T


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Client	Lab Sample Number								
A-299	20001390-41	Black Tarry Material	N	100	ND			100	T
A-300	20001390-42	Tan Bulk Material	N	100	ND			100	B
A-301	20001390-43	Tan Bulk Material	N	100	ND			100	B
A-302	20001390-44	Tan Bulk Material	N	100	ND			100	B
A-303	20001390-45	Black Bulk Material	N	100	ND			100	B
A-304	20001390-46	Black Bulk Material	N	100	ND			100	B
A-305	20001390-47	Black Bulk Material	N	100	ND			100	B
A-306	20001390-48	White Cementitious Material	N	100	ND			100	C,Q
A-307	20001390-49	White Cementitious Material	N	100	ND			100	C,Q
A-308	20001390-50	White Cementitious Material	N	100	ND			100	C,Q

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Client	Lab Sample Number								
A-309	20001390-51	Gray Cementitious Material with Beige Paint	N	100	ND			100	B,Q
A-310	20001390-52	Gray Cementitious Material with Beige Paint	N	100	ND			100	B,Q
A-311	20001390-53	Gray Cementitious Material	N	100	ND			100	Q
A-312	20001390-54	Black Tarry Material	N	100	ND			100	C,T
A-313	20001390-55	Black Tarry Material	N	100	ND			100	C,T
A-314	20001390-56	Black Tarry Material	N	100	ND			100	C,T
A-315	20001390-57	Tan Bulk Material	N	100	ND			100	B
A-316	20001390-58	Tan Bulk Material	N	100	ND			100	B
A-317	20001390-59A	Tan Bulk Material	N	98	ND			100	B
	20001390-59B	Gray Cementitious Material	N	2	ND			100	B,Q

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A-321	20001390-60	White Cementitious Material	N	100	ND			100	C,Q
A-322	20001390-61	White Cementitious Material	N	100	ND		Tr CELL	100	C,Q
A-323	20001390-62	White Cementitious Material	N	100	ND		Tr CELL	100	C,Q
A-318	20001390-63	Gray Bulk Material	N	100	ND			100	B
A-319	20001390-64	Gray Bulk Material	N	100	ND			100	B
A-320	20001390-65	Gray Bulk Material	N	100	ND			100	B


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- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
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Notes Required by NVLAP

- This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- This test report relates only to the items tested or calibrated.
- This report is not valid unless it bears the name of a NVLAP-approved signatory.
- Any reproduction of this document must include the entire document in order for the report to be valid.

Total Layers Analyzed: 76

Certificate of Analysis

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 City, State ZIP: Orange, CA 92867
 Attn: Robert L. Williams
Client Project Name: 192661 - HDR 1-15 Project Inside/Outside Rail [Amended]



Date Collected: 2/7/2020
 Date Received: 2/7/2020
 Date Analyzed: 2/13/2020
 Date Reported: 2/14/2020
 Project ID: 20005475

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Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-324	20005475-4	White Granular Cementitious Material with White Paint	N	100	ND			100	Q
A-325	20005475-5	Tan Granular Cementitious Material	N	100	ND			100	Q
A-326	20005475-6	Tan Granular Cementitious Material	N	100	ND			100	Q
A-327	20005475-7	Black Tar	N	100	ND		Tr CELL	100	T
A-328	20005475-8	Black Tar	N	100	ND			100	T
A-329	20005475-9	Black Tar	N	100	ND			100	T
A-330	20005475-10A	Tan Resinous Material	N	97	ND			100	B

Paul Knappe
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Shannon Whitmore
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Client	Lab Sample Number								
A-330	20005475-10B	Black Tar	N	3	ND			100	T
A-331	20005475-11A	Tan Resinous Material	N	95	ND			100	B
	20005475-11B	Black Tar	N	5	ND			100	T
A-332	20005475-12	Tan Resinous Material	N	100	ND			100	B
A-333	20005475-13	Black Rubber	N	100	ND			100	B
A-334	20005475-14	Black Rubber	N	100	ND			100	B
A-335	20005475-15	Black Rubber	N	100	ND			100	B
A-336	20005475-16	Gray Resinous Material	N	100	ND			100	B
A-337	20005475-17A	Gray Resinous Material	N	30	ND			100	B
	20005475-17B	Tan Granular Cementitious Material	N	70	ND			100	Q

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Client	Lab Sample Number								
A-338	20005475-18A	Gray Resinous Material	N	98	ND			100	B
	20005475-18B	Black Tar	N	2	ND			100	T
A-339	20005475-19	White Granular Cementitious Material	N	100	ND			100	Q
A-340	20005475-20	White Granular Cementitious Material	N	100	ND			100	Q
A-341	20005475-21	White Granular Cementitious Material	N	100	ND			100	Q
A-342	20005475-22	Black Fibrous Material	N	100	ND		90 CELL	10	T
A-343	20005475-23	Black Fibrous Material	N	100	ND		90 CELL	10	T
A-344	20005475-24	Tan Granular Cementitious Material	N	100	ND			100	Q
A-345	20005475-25	Tan Granular Cementitious Material with White Paint	N	100	ND			100	Q
A-346	20005475-26	Tan Granular Cementitious Material with White Paint	N	100	ND			100	Q

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Client	Lab Sample Number								
A-347	20005475-27	Black Granular Resinous Tar	N	100	ND			100	T
A-348	20005475-28	Black Granular Resinous Tar	N	100	ND			100	T
A-349	20005475-29	Black Granular Resinous Tar	N	100	ND			100	T
A-350	20005475-30	Gray/Brown Resinous Material	N	100	ND			100	
A-351	20005475-31	Gray/Brown Resinous Material	N	100	ND			100	
A-352	20005475-32	Gray/Brown Resinous Material	N	100	ND			100	
A-353	20005475-33	Black Resinous Material	N	100	ND			100	
A-354	20005475-34	Black Resinous Material	N	100	ND			100	
A-355	20005475-35	Black Resinous Material	N	100	ND			100	
A-356	20005475-36A	Gray Cementitious Material	N	100	ND			100	



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Client	Lab Sample Number								
A-356	20005475-36B	Black Granular Tar	N	Tr	ND			100	T
A-357	20005475-37	Gray Cementitious Material	N	100	ND			100	
A-358	20005475-38A	Gray Cementitious Material	N	99	ND			100	
	20005475-38B	Black Tar	N	1	ND			100	T
A-359	20005475-39	White Foam	N	100	ND			100	
A-360	20005475-40	White Foam	N	100	ND			100	
A-361	20005475-41	Gray Resinous Material	N	100	ND			100	
A-362	20005475-42A	Gray Resinous Material	N	100	ND			100	
	20005475-42B	Black Granular Tar	N	Tr	ND			100	T
A-363	20005475-43A	Gray/Brown Resinous Material	N	5	ND			100	

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Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-363	20005475-43B	Gray Cementitious Material	N	95	ND			100	
A-364	20005475-44	Gray Cementitious Material	N	100	ND			100	
A-365	20005475-45A	Gray Paint with Silver Paint	N	1	ND			100	
	20005475-45B	Gray Cementitious Material	N	99	ND			100	
A-366	20005475-46A	Black Tar	N	3	ND			100	T
	20005475-46B	Gray/Brown Resinous Material	N	97	ND			100	
A-367	20005475-47A	Black Granular Tar	N	8	ND			100	
	20005475-47B	Gray Resinous Material	N	92	ND			100	
A-368	20005475-48A	Black Tar	N	2	ND			100	T
	20005475-48B	Dark Gray Resinous Material	N	2	ND			100	

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Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-368	20005475-48C	Gray Resinous Material	N	96	ND			100	
A-369	20005475-49	Black Granular Tar	N	100	ND			100	T,Q
A-370	20005475-50	Black Granular Tar	N	100	ND			100	T,Q
A-371	20005475-51	Black Granular Tar	N	100	ND			100	T,Q
A-372	20005475-52	Black Tar	N	100	ND			100	T
A-373	20005475-53	Black Tar	N	100	ND			100	T
A-374	20005475-54	Black Tar	N	100	ND			100	T
A-375	20005475-55	Colorless Resinous Material with Gray Granular Cementitious Material	N	100	ND			100	B,Q
A-376	20005475-56	Colorless Resinous Material with Gray Granular Cementitious Material	N	100	ND			100	B,Q
A-377	20005475-57	Colorless Resinous Material with Gray Granular Cementitious Material	N	100	ND			100	B,Q

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Client	Lab Sample Number								
A-378	20005475-58	Gray Resinous Material	N	100	ND			100	B
A-379	20005475-59	Gray Resinous Material	N	100	ND			100	B
A-380	20005475-60	Gray Resinous Material	N	100	ND			100	B
A-381	20005475-61	Light Gray Resinous Material	N	100	ND			100	B
A-382	20005475-62	Light Gray Resinous Material	N	100	ND			100	B
A-383	20005475-63	Light Gray Resinous Material	N	100	ND			100	B
A-384	20005475-64	White Resinous Material with Spherical Glass Bead	N	100	ND			100	B
A-385	20005475-65	White Resinous Material with Spherical Glass Bead	N	100	ND			100	B
A-386	20005475-66	White Resinous Material with Spherical Glass Bead	N	100	ND			100	B
A-387	20005475-67	White Foam	N	100	ND			100	B

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Client	Lab Sample Number								
A-388	20005475-68	White Foam	N	100	ND			100	B
A-389	20005475-69	Gray Granular Cementitious Material	N	100	ND			100	Q
A-390	20005475-70	Gray Granular Cementitious Material	N	100	ND			100	Q
A-391	20005475-71	Gray Granular Cementitious Material with Off White Paint	N	100	ND			100	Q
A-392	20005475-72	Tan Resinous Material	N	100	ND			100	B
A-393	20005475-73	Tan Resinous Material	N	100	ND			100	B
A-394	20005475-74	Tan Resinous Material	N	100	ND			100	B
A-395	20005475-75	Black Tarry Material	N	100	ND			100	C,T
A-396	20005475-76	Black Tarry Material	N	100	ND			100	C,T
A-397	20005475-77	Black Tarry Material	N	100	ND			100	C,T

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Client	Lab Sample Number								
A-398	20005475-78	Dark Gray Cementitious Material	N	100	ND		Tr CELL	100	Q
A-399	20005475-79	Dark Gray Cementitious Material	N	100	ND		Tr CELL	100	Q
A-400	20005475-80	Dark Gray Cementitious Material	N	100	ND		Tr CELL	100	Q
A-401	20005475-81	Gray Bulk Material	N	100	ND			100	B
A-402	20005475-82	Gray Bulk Material	N	100	ND			100	B
A-403	20005475-83	Gray Bulk Material	N	100	ND			100	B
A-404	20005475-84	White Cementitious Material	N	100	ND			100	C,Q
A-405	20005475-85	White Cementitious Material	N	100	ND			100	C,Q
A-406	20005475-86	White Cementitious Material	N	100	ND			100	C,Q

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General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
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Total Layers Analyzed: 99

A-Tech Consulting, Inc.
1640 N. Batavia Street
Orange, California 92867
Attn: A-Tech Office
Project: **192661 - HDR - 1-15 Project Inside / Outside Rail**



Date Collected: 02/12/2020
Date Received: 02/12/2020
Date Analyzed: 02/18/2020
Date Reported: 02/18/2020
Project ID: 20006037
Page 1 of 11

Condition of Sample(s) Upon Receipt: Acceptable

Test Requested: **PLM Bulk Count (EPA Method 600/R93/116)** Method: Polarized Light Microscopy (PLM), Interim Method for Asbestos in Bulk Insulation: EPA 600/M4-82-020. Method for Asbestos in Bulk Building Material: EPA 600/R-93/116

Lab Sample #	Client Sample # / Location	Physical Description of Sample	Homogeneous	Layer %	Asb.	Asb. %	Non-asb. Fiber %	Non-fibrous mat %	Matrix
20006037-001	A-407	Gray Cementitious Material	Y	100	ND		2 CELL, 2 FBG	96	C,G
20006037-002	A-408	Gray Cementitious Material	Y	100	ND		2 CELL, 2 FBG	96	C,G
20006037-003	A-409	Gray Cementitious Material	Y	100	ND		2 CELL, 2 FBG	96	C,G
20006037-004	A-410	Dark Gray Cementitious Material with Black Tar	Y	100	ND			100	B,T
20006037-005	A-411	Dark Gray Cementitious Material with Black Tar	Y	100	ND			100	B,T



Miguel Ines
Laboratory Analyst



Miguel Ines
Asbestos Laboratory Supervisor

A = Amosite
AC = Actinolite
AN = Anthophyllite
CHRY = Chrysotile
CR = Crocidolite
TR = Tremolite
ND = None Detected
Trace = Less Than 1%

CELL = Cellulose
MW = Mineral Wool
FBG = Fiberglass
SYN = Synthetic
WO = Wollastonite
NTR = Non-Asbestiform TR
NAC = Non-Asbestiform AC
FT = Fibrous Talc
AH = Animal Hair

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G = Gypsum
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T = Tar
P = Perlite
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B = Binder
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NVLAP LAB CODE 201076-0

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Condition of Sample(s) Upon Receipt: Acceptable

20006037-006	A-412	Dark Gray Cementitious Material with Black Tar	Y	100	ND			100	B,T
20006037-007	A-413	Black Rubbery Material	Y	100	ND			100	Other
20006037-008	A-414	Black Rubbery Material	Y	100	ND			100	Other
20006037-009	A-415	Black Rubbery Material	Y	100	ND			100	Other
20006037-010	A-416	White Compound	Y	85	ND		2 CELL	98	C,G
20006037-010	A-416	Black Mastic	Y	15	ND			100	B,T
20006037-011	A-417	White Compound	Y	80	ND		2 CELL	98	C,G
20006037-011	A-417	Black Mastic	Y	20	ND			100	B,T
20006037-012	A-418	White Compound	Y	60	ND		2 CELL	98	C,G
20006037-012	A-418	Black Mastic	Y	40	ND			100	B,T
20006037-013	A-419	White Foam	Y	100	ND			100	Other
20006037-014	A-420	White/ Gray Foam	Y	100	ND			100	Other
20006037-015	A-421	Gray Cementitious Material	Y	100	ND		2 FBG	98	C,G



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Condition of Sample(s) Upon Receipt: Acceptable

20006037-016	A-422	Gray Cementitious Material	Y	100	ND		2 FBG	98	C,G
20006037-017	A-423	Gray Cementitious Material	Y	100	ND		2 FBG	98	C,G
20006037-018	A-424	Dark Gray Cementitious Material with Black Tar	Y	100	ND		2 CELL, 2 FBG	96	C,G,T
20006037-019	A-425	Dark Gray Cementitious Material with Black Tar	Y	100	ND		2 CELL, 2 FBG	96	C,G,T
20006037-020	A-426	Dark Gray Cementitious Material with Black Tar	Y	100	ND		2 CELL, 2 FBG	96	C,G,T
20006037-021	A-427	White Compound	Y	70	ND		2 CELL	98	C,G
20006037-021	A-427	Black Mastic	Y	30	ND			100	B,T
20006037-022	A-428	White Compound	Y	80	ND		2 CELL	98	C,G



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Condition of Sample(s) Upon Receipt: Acceptable

20006037-022	A-428	Black Mastic	Y	20	ND			100	B,T
20006037-023	A-429	White Compound	Y	60	ND		2 CELL	98	C,G
20006037-023	A-429	Black Mastic	Y	40	ND			100	B,T
20006037-024	A-430	Gray/Beige Cementitious Material	Y	100	ND		2 CELL, 2 FBG	96	C,G
20006037-025	A-431	Gray/Beige Cementitious Material	Y	100	ND		2 CELL, 2 FBG	96	C,G
20006037-026	A-432	Gray/Beige Cementitious Material	Y	100	ND		2 CELL, 2 FBG	96	C,G
20006037-027	A-433	Gray Rubbery Texture	Y	100	ND			100	Other
20006037-028	A-434	Gray Rubbery Texture	Y	100	ND			100	Other
20006037-029	A-435	Gray Rubbery Texture	Y	100	ND			100	Other



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Condition of Sample(s) Upon Receipt: Acceptable

20006037-030	A-436	Dark Gray Cementitious Material with Black Tar	Y	100	ND		2 CELL, 2 FBG	96	C,G,T
20006037-031	A-437	Dark Gray Cementitious Material with Black Tar	Y	100	ND		2 CELL, 2 FBG	96	C,G,T
20006037-032	A-438	Dark Gray Cementitious Material with Black Tar	Y	100	ND		2 CELL, 2 FBG	96	C,G,T
20006037-033	A-439	White Compound	Y	90	ND		2 CELL	98	C,G
20006037-033	A-439	Black Mastic	Y	10	ND			100	B,T
20006037-034	A-440	White Compound	Y	85	ND		2 CELL	98	C,G
20006037-034	A-440	Black Mastic	Y	15	ND			100	B,T
20006037-035	A-441	White Compound	Y	92	ND		2 CELL	98	C,G
20006037-035	A-441	Black Mastic	Y	8	ND			100	B,T



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Condition of Sample(s) Upon Receipt: Acceptable

20006037-036	A-442	White Foam	Y	100	ND			100	Other
20006037-037	A-443	White Foam	Y	100	ND			100	Other
20006037-038	A-444	Gray/Beige Cementitious Material	Y	100	ND		2 CELL, 2 FBG	96	C,G
20006037-039	A-445	Gray/Beige Cementitious Material	Y	100	ND		2 CELL, 2 FBG	96	C,G
20006037-040	A-446	Gray/Beige Cementitious Material	Y	100	ND		2 CELL, 2 FBG	96	C,G
20006037-041	A-447	Gray/Green Ceramic Material	Y	100	ND			100	Other
20006037-042	A-448	Gray/Green Ceramic Material	Y	100	ND			100	Other
20006037-043	A-449	Gray/Green Ceramic Material	Y	100	ND			100	Other
20006037-044	A-450	Dark Gray Cementitious Material with Black Tar	Y	100	ND		3 FBG	97	C,G,T



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Condition of Sample(s) Upon Receipt: Acceptable

20006037-045	A-451	Dark Gray Cementitious Material with Black Tar	Y	100	ND		3 FBG	97	C,G,T
20006037-046	A-452	Dark Gray Cementitious Material with Black Tar	Y	100	ND		3 FBG	97	C,G,T
20006037-047	A-453	Semi-Transparent Material	Y	100	ND			100	B,Q
20006037-048	A-454	Semi-Transparent Material	Y	100	ND			100	B,Q
20006037-049	A-455	Semi-Transparent Material	Y	100	ND			100	B,Q
20006037-050	A-456	White Compound	Y	50	ND		2 CELL	98	C,G
20006037-050	A-456	Black Mastic	Y	50	ND			100	B,T
20006037-051	A-457	Black Mastic	Y	40	ND			100	B,T
20006037-051	A-457	White Compound	Y	60	ND		2 CELL	98	C,G
20006037-052	A-458	White Compound	Y	50	ND		2 CELL	98	C,G
20006037-052	A-458	Black Mastic	Y	50	ND			100	B,T
20006037-053	A-459	Gray Cementitious Material	Y	100	ND		2 FBG	98	C,G

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 Project ID: 20006037
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Condition of Sample(s) Upon Receipt: Acceptable

20006037-054	A-460	Gray Cementitious Material	Y	100	ND		2 FBG	98	C,G
20006037-055	A-461	Gray Cementitious Material	Y	100	ND		2 FBG	98	C,G
20006037-056	A-462	Gray Rubbery Material	Y	100	ND			100	Other
20006037-057	A-463	Gray Rubbery Material	Y	100	ND			100	Other
20006037-058	A-464	Gray Rubbery Material	Y	100	ND			100	Other
20006037-059	A-465	Dark Gray Cementitious Material with Black Tar	Y	100	ND		3 FBG	97	C,G,T
20006037-060	A-466	Dark Gray Cementitious Material with Black Tar	Y	100	ND		3 FBG	97	C,G,T
20006037-061	A-467	Dark Gray Cementitious Material with Black Tar	Y	100	ND		3 FBG	97	C,G,T
20006037-062	A-468	Gray Semi-Fibrous Material	Y	100	CHRY	55		45	B
20006037-063	A-469	Gray Semi-Fibrous Material	Y	100	CHRY	50		10	B
20006037-064	A-470	Gray Semi-Fibrous Material	Y	100	CHRY	50		10	B
20006037-065	A-471	Gray Cementitious Material	Y	100	ND		2 FBG	98	C,G

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Condition of Sample(s) Upon Receipt: Acceptable

20006037-066	A-472	Gray Cementitious Material	Y	100	ND		2 FBG	98	C,G
20006037-067	A-473	Gray Cementitious Material	Y	100	ND		2 FBG	98	C,G
20006037-068	A-474	Black Mastic	Y	100	ND			100	B,T
20006037-069	A-475	Black Mastic	Y	100	ND			100	B,T
20006037-070	A-476	Dark Gray Cementitious Material with Black Tar	Y	100	ND		2 FBG	98	C,G,T
20006037-071	A-477	Dark Gray Cementitious Material with Black Tar	Y	100	ND		2 FBG	98	C,G,T
20006037-072	A-478	Dark Gray Cementitious Material with Black Tar	Y	100	ND		2 FBG	98	C,G,T
20006037-073	A-479	Light Gray Mastic	Y	100	ND			100	B
20006037-074	A-480	Light Gray Mastic	Y	100	ND			100	B
20006037-075	A-481	Light Gray Mastic	Y	100	ND			100	B
20006037-076	A-482	Gray Semi-Fibrous Material	Y	100	CHRY	60		40	B
20006037-077	A-483	Gray Semi-Fibrous Material	Y	100	CHRY	55		45	B
20006037-078	A-484	Gray Semi-Fibrous Material	Y	100	CHRY	50		50	B

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Condition of Sample(s) Upon Receipt: Acceptable

General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1%.
- **Trace** or "<1" indicates asbestos was identified in the sample, but the concentration is less than the method detection limit of 1%.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under the NESHAP regulations.
- These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Aerobiology Laboratory shall be responsible for all the information provided in the report, except when information is provided by the customer. Aerobiology Laboratory is not responsible for the sampling activity.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- Samples identified as inhomogeneous (containing more than one layer) shall be divided into individual layers and each layer tested separately. The results for each individual layer shall be listed separately on the report.

Notes Required by NVLAP

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Total Layers Analyzed: 90



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Condition of Sample(s) Upon Receipt: **Acceptable**

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Date Collected: 02/13/2020
 Date Received: 02/13/2020
 Date Analyzed: 02/18/2020
 Date Reported: 02/19/2020
 Project ID: 20006366
 Page 1 of 7

Test Requested: **PLM Bulk Count (EPA Method 600/R93/116)** Method: Polarized Light Microscopy (PLM), Interim Method for Asbestos in Bulk Insulation: EPA 600/M4-82-020. Method for Asbestos in Bulk Building Material: EPA 600/R-93/116

Lab Sample #	Client Sample # / Location	Physical Description of Sample	Homogeneous	Layer %	Asb.	Asb. %	Non-asb. Fiber %	Non-fibrous mat %	Matrix
20006366-001	A-485	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-002	A-486	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-003	A-487	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-004	A-488	Gray Rubbery Material	Y	100	ND		5 SYN	95	B
20006366-005	A-489	Gray Rubbery Material	Y	100	ND		5 SYN	95	B
20006366-006	A-490	Gray Rubbery Material	Y	100	ND		5 SYN	95	B
20006366-007	A-491	Black Tar-Like Material	Y	100	ND		10 CELL	90	T,Q

Rogelio Casillas
 Laboratory Analyst

Miguel Ines
 Asbestos Laboratory Supervisor

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20006366-008	A-492	Black Tar-Like Material	Y	100	ND		10 CELL	90	T,Q
20006366-009	A-493	Gray/Black Fibrous	Y	100	CHRY	25	10 CELL	65	T
20006366-010	A-494	Gray/Black Fibrous	Y	100	CHRY	25	10 CELL	65	T
20006366-011	A-495	Gray/Black Fibrous	Y	100	CHRY	25	10 CELL	65	T
20006366-012	A-496	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-013	A-497	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-014	A-498	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-015	A-499	Black Tar-Like Material	Y	100	ND		10 CELL	90	T
20006366-016	A-500	Black Tar-Like Material	Y	100	ND		10 CELL	90	T
20006366-017	A-501	White Fibrous Material	Y	100	ND			100	Foam

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20006366-018	A-502	White Fibrous Material	Y	100	ND			100	Foam
20006366-019	A-503	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-020	A-504	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-021	A-505	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-022	A-506	Black Tar-Like Material	Y	100	ND		10 CELL	90	T
20006366-023	A-507	Black Tar-Like Material	Y	100	ND		10 CELL	90	T
20006366-024	A-508	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-025	A-509	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-026	A-510	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-027	A-511	Black Tar-Like Material	Y	100	ND		10 CELL	90	T

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20006366-028	A-512	Black Tar-Like Material	Y	100	ND		10 CELL	90	T
20006366-029	A-513	White Fibrous Material	Y	100	ND			100	Foam
20006366-030	A-514	White Fibrous Material	Y	100	ND			100	Foam
20006366-031	A-515	White Fibrous Material	Y	100	ND			100	Foam
20006366-032	A-516	White Fibrous Material	Y	100	ND			100	Foam
20006366-033	A-517	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-034	A-518	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-035	A-519	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-036	A-520	Black Tar-Like Material	Y	100	ND		10 CELL	90	T
20006366-037	A-521	Black Tar-Like Material	Y	100	ND		10 CELL	90	T
20006366-038	A-522	Black Fibrous Material	Y	100	ND		80 CELL	20	T,B

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20006366-039	A-523	Black Fibrous Material	Y	100	ND		80 CELL	20	T,B
20006366-040	A-524	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-041	A-525	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-042	A-526	Black Tar-Like Material	Y	100	ND		5 CELL	95	Asphalt,Q,T
20006366-043	A-527	Black Tar-Like Material	Y	100	ND		10 CELL	90	T
20006366-044	A-528	Black Tar-Like Material	Y	100	ND		10 CELL	90	T

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General Notes

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Total Layers Analyzed: 44

Rogelio Casillas
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Laboratory Analyst



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Test Requested: **PLM Bulk Count (EPA Method 600/R93/116)** Method: Polarized Light Microscopy (PLM), Interim Method for Asbestos in Bulk Insulation: EPA 600/M4-82-020. Method for Asbestos in Bulk Building Material: EPA 600/R-93/116

Lab Sample #	Client Sample # / Location	Physical Description of Sample	Homogeneous	Layer %	Asb.	Asb. %	Non-asb. Fiber %	Non-fibrous mat %	Matrix
20006572-001	A-529	Black Cementitious Material	Y	100	ND			100	B
20006572-002	A-530	Black Cementitious Material	Y	100	ND			100	B
20006572-003	A-531	Black Cementitious Material	Y	100	ND			100	B
20006572-004	A-532	Black Rubbery Material	Y	100	ND		5 CELL	95	B
20006572-005	A-533	Black Rubbery Material	Y	100	ND		5 CELL	95	B
20006572-006	A-534	Black Cementitious Material	Y	100	ND			100	B
20006572-007	A-535	Black Cementitious Material	Y	100	ND			100	B
20006572-008	A-536	Black Cementitious Material	Y	100	ND			100	B
20006572-009	A-537	Black Rubbery Material	Y	100	ND		5 CELL	95	B

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Condition of Sample(s) Upon Receipt: Acceptable

20006572-010	A-538	Black Rubbery Material	Y	100	ND		5 CELL	95	B
20006572-011	A-539	Black Rubbery Material	Y	100	ND		5 CELL	95	B
20006572-012	A-540	Black Rubbery Material	Y	100	ND		5 CELL	95	B
20006572-013	A-541	White Foam Like Material	Y	100	ND		5 CELL	95	B
20006572-014	A-542	White Foam Like Material	Y	100	ND		5 CELL	95	B
20006572-015	A-543	Black Cementitious Material	Y	100	ND			100	B
20006572-016	A-544	Black Cementitious Material	Y	100	ND			100	B
20006572-017	A-545	Black Cementitious Material	Y	100	ND			100	B
20006572-018	A-546	Black Rubbery Material	Y	100	ND		5 CELL	95	B
20006572-019	A-547	Black Rubbery Material	Y	100	ND		5 CELL	95	B
20006572-020	A-548	Black Cementitious Material	Y	60	ND			100	B

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20006572-020	A-548	Black Rubbery Material	Y	40	ND		5 CELL	95	B
20006572-021	A-549	Black Cementitious Material	Y	100	ND			100	B
20006572-022	A-550	Black Cementitious Material	Y	100	ND			100	B
20006572-023	A-551	Black Rubbery Material	Y	100	ND		5 CELL	95	B
20006572-024	A-552	Black Rubbery Material	Y	100	ND		5 CELL	95	B
20006572-025	A-553	White Foam Like Material	Y	100	ND			100	B
20006572-026	A-554	White Foam Like Material	Y	100	ND			100	B
20006572-027	A-555	Black Cementitious Material	Y	100	ND			100	B
20006572-028	A-556	Black Cementitious Material	Y	100	ND			100	B
20006572-029	A-557	Black Cementitious Material	Y	100	ND			100	B
20006572-030	A-558	Black Rubbery Material	Y	100	ND		5 CELL	95	B
20006572-031	A-559	Black Rubbery Material	Y	100	ND		5 CELL	95	B
20006572-032	A-560	White Foam Like Material	Y	100	ND			100	B

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20006572-033	A-561	White Foam Like Material	Y	100	ND			100	B
20006572-034	A-562	Black Cementitious Material	Y	70	ND			100	B
20006572-034	A-562	Black Rubbery Material	Y	30	ND		5 CELL	95	B
20006572-035	A-563	Black Cementitious Material	Y	100	ND			100	B
20006572-036	A-564	Black Cementitious Material	Y	100	ND			100	B
20006572-037	A-565	Black Rubbery Material	Y	100	ND		5 CELL	95	B
20006572-038	A-566	Black Rubbery Material	Y	100	ND		5 CELL	95	B

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- Comment: Project number changed per client request.

Total Layers Analyzed: 40

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Francisco Moreno
Laboratory Analyst



Miguel Ines
Asbestos Laboratory Supervisor

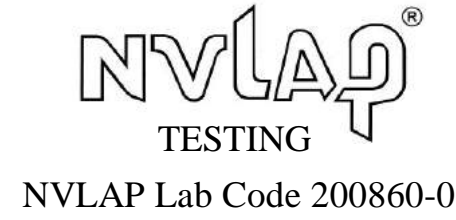
A = Amosite
AC = Actinolite
AN = Anthophyllite
CHRY = Chrysotile
CR = Crocidolite
TR = Tremolite
ND = None Detected
Trace = Less Than 1%

CELL = Cellulose
MW = Mineral Wool
FBG = Fiberglass
SYN = Synthetic
WO = Wollastonite
NTR = Non-Asbestiform TR
NAC = Non-Asbestiform AC
FT = Fibrous Talc
AH = Animal Hair

Q = Quartz
C = Carbonates
V = Vermiculite
G = Gypsum
M = Mica
T = Tar
P = Perlite
O = Organic
B = Binder
OP = Opaques
D = Diatoms

Certificate of Analysis

Client Name: A-Tech Consulting, Inc.
 Street address: 1748 W. Katella Avenue, Suite 112
 City, State ZIP: Orange, CA 92867
 Attn: Robert L. Williams
Client Project Name: 192661-HDR / 1-15 Project Inside/Outside Rail



Date Collected: 2/18/2020
 Date Received: 2/19/2020
 Date Analyzed: 2/25/2020
 Date Reported: 2/25/2020
 Project ID: 20007027

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 Method: EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials; EPA-600/M4-82-020: Interim Method for the Determination of Asbestos in Bulk Insulation Samples

Sample Identification		Physical Description of Sample/Layer	Homo- geneous (Y/N)	Layer Percentage	Asbestos Detected	Asbestos Percentage	Non-Asbestos Fiber Percentage	Non-Fibrous Material Percentage	Matrix Material Composition
Client	Lab Sample Number								
A-567	20007027-1	Black Granular Tarry Material	N	100	ND			100	Q,T
A-568	20007027-2	Black Granular Tarry Material	N	100	ND			100	Q,T
A-569	20007027-3	Black Granular Tarry Material	N	100	ND			100	Q,T
A-570	20007027-4	Black Tarry Material	N	100	ND			100	Q,T
A-571	20007027-5	Black Tarry Material	N	100	ND			100	Q,T
A-572	20007027-6	Black Tarry Material	N	100	ND			100	Q,T
A-573	20007027-7	Black Tarry Material	N	100	ND			100	Q,T
A-574	20007027-8	White Foam	N	100	ND			100	B
A-575	20007027-9	White Foam	N	100	ND			100	B
A-576	20007027-10	Black Granular Tarry Material	N	100	ND			100	Q,T



Michael Scales
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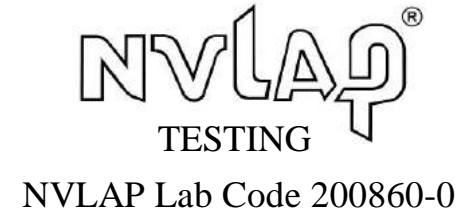


Shannon Whitmore
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Client	Lab Sample Number								
A-577	20007027-11	Black Granular Tarry Material	N	100	ND			100	Q,T
A-578	20007027-12	Black Granular Tarry Material	N	100	ND		Tr CELL	100	Q,T
A-579	20007027-13	Black Tarry Material	N	100	ND			100	T
A-580	20007027-14	Black Tarry Material	N	100	ND			100	T
A-581	20007027-15	Black Granular Tarry Material	N	100	ND			100	Q,T
A-582	20007027-16	Black Granular Tarry Material	N	100	ND			100	Q,T
A-583	20007027-17	Black Granular Tarry Material	N	100	ND			100	Q,T
A-584	20007027-18	Black Tarry Material	N	100	ND			100	T
A-585	20007027-19	Black Tarry Material	N	100	ND			100	T
A-586	20007027-20	Black Granular Tarry Material	N	100	ND			100	Q,T



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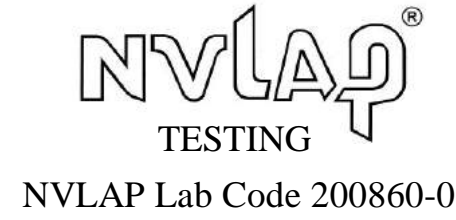


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Client	Lab Sample Number								
A-587	20007027-21	Black Granular Tarry Material	N	100	ND			100	Q,T
A-588	20007027-22	Black Granular Tarry Material	N	100	ND			100	Q,T
A-589	20007027-23	Black Tarry Material	N	100	ND			100	Q,T
A-590	20007027-24	Black Tarry Material	N	100	ND			100	Q,T
A-591	20007027-25	Black Granular Tarry Material	N	100	ND			100	Q,T
A-592	20007027-26	Black Granular Tarry Material	N	100	ND			100	Q,T
A-593	20007027-27	Black Granular Tarry Material	N	100	ND			100	Q,T
A-594	20007027-28	Black Tarry Material	N	100	ND			100	Q,T
A-595	20007027-29	Black Tarry Material	N	100	ND			100	Q,T
A-596	20007027-30	Black Granular Tarry Material	N	100	ND			100	Q,T

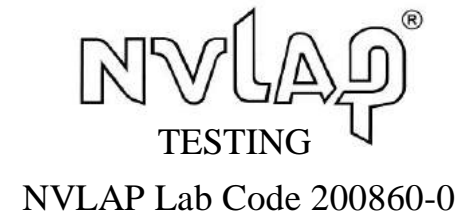

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Client	Lab Sample Number								
A-597	20007027-31	Black Granular Tarry Material	N	100	ND			100	Q,T
A-598	20007027-32	Black Granular Tarry Material	N	100	ND			100	Q,T
A-599	20007027-33	Black Tarry Material	N	100	ND			100	Q,T
A-600	20007027-34	Black Tarry Material With Tan Granular Material	N	100	ND			100	Q,T
A-601	20007027-35	Black Tarry Material With Tan Granular Material	N	100	ND			100	Q,T
A-602	20007027-36	Black Granular Tarry Material	N	100	ND			100	T
A-603	20007027-37	Black Granular Tarry Material	N	100	ND			100	T
A-604	20007027-38	Black Tarry Material	N	100	ND			100	T
A-605	20007027-39	Black Granular Tarry Material	N	100	ND			100	Q,T
A-606	20007027-40	Black Granular Tarry Material	N	100	ND			100	Q,T

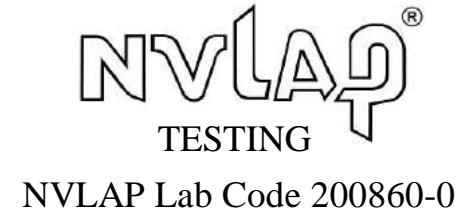

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Client	Lab Sample Number								
A-607	20007027-41	Black Granular Tarry Material	N	100	ND			100	Q,T
A-608	20007027-42	Black Granular Tarry Material	N	100	ND			100	Q,T
A-609	20007027-43	Black Tarry Material	N	100	ND			100	Q,T
A-610	20007027-44	Black Tarry Material	N	100	ND			100	Q,T
A-611	20007027-45	Black Granular Tarry Material	N	100	ND			100	Q,T
A-612	20007027-46	Black Granular Tarry Material	N	100	ND			100	Q,T
A-613	20007027-47	Black Granular Tarry Material	N	100	ND			100	Q,T
A-614	20007027-48	Black Tarry Material	N	100	ND			100	Q,T
A-615	20007027-49	Black Tarry Material	N	100	ND			100	Q,T
A-616	20007027-50	Black Tarry Granular Material	N	100	ND			100	B,Q,T

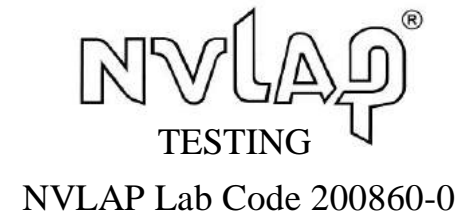
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Client	Lab Sample Number								
A-617	20007027-51	Black Tarry Granular Material	N	100	ND			100	B,Q,T
A-618	20007027-52	Black Tarry Granular Material	N	100	ND			100	B,Q,T
A-619	20007027-53	Black Tarry Material	N	100	ND			100	C,T
A-620	20007027-54	Black Tarry Material	N	100	ND			100	C,T
A-621	20007027-55	Gray Bulk Material	N	100	ND			100	B
A-622	20007027-56	Gray Bulk Material	N	100	ND			100	B
A-623	20007027-57	Gray Bulk Material	N	100	ND			100	B
A-624	20007027-58	Gray Fibrous Material	N	100	CHRY	25		75	
A-625	20007027-59	Gray Fibrous Material	N	100	CHRY	25		75	
A-626	20007027-60	Gray Fibrous Material	N	100	CHRY	25		75	

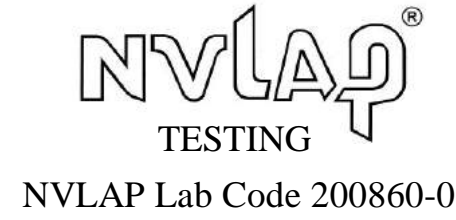
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Client	Lab Sample Number								
A-627	20007027-61	Black Tarry Granular Material	N	100	ND		Tr CELL	100	B,Q,T
A-628	20007027-62	Black Tarry Granular Material	N	100	ND		Tr CELL	100	B,Q,T
A-629	20007027-63	Black Tarry Granular Material	N	100	ND		Tr CELL	100	B,Q,T
A-630	20007027-64	Black Tarry Material	N	100	ND			100	C,T
A-631	20007027-65	Black Tarry Material	N	100	ND			100	C,T
A-632	20007027-66A	White Foam	N	99	ND			100	B
	20007027-66B	Tan Cementitious Material	N	1	ND			100	B,Q
A-633	20007027-67A	White Foam	N	99	ND			100	B
	20007027-67B	Tan Cementitious Material	N	1	ND			100	B,Q
A-634	20007027-68	Black Tarry Material	N	100	ND			100	C,T

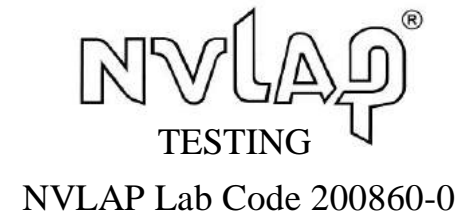
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Client	Lab Sample Number								
A-635	20007027-69	Black Tarry Material	N	100	ND			100	C,T
A-636	20007027-70	Light Gray Resinous Material with Silver Paint	N	100	ND			100	
A-637	20007027-71	Light Gray Resinous Material	N	100	ND			100	B
A-638	20007027-72	Light Gray Resinous Material	N	100	ND			100	B
A-639	20007027-73	Black/White Fibrous Cementitious Material	N	100	CHRY	40		60	
A-640	20007027-74	Black Fibrous Cementitious Material	N	100	CHRY	40		60	
A-641	20007027-75	Black Fibrous Cementitious Material	N	100	CHRY	45		55	
A-642	20007027-76	Gray Resinous Material	N	100	ND			100	B
A-643	20007027-77	Gray Resinous Material	N	100	ND			100	B
A-644	20007027-78	Gray Resinous Material	N	100	ND			100	B

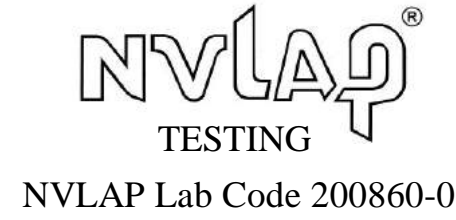
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A-645	20007027-79	Black Fibrous Cementitious Material	N	100	CHRY	45		55	
A-646	20007027-80	Black Fibrous Cementitious Material	N	100	CHRY	45		55	
A-647	20007027-81	Black Fibrous Cementitious Material	N	100	CHRY	45		55	
A-648	20007027-82	White Resinous Material with Clear Glass Sheres	N	100	ND			100	B
A-649	20007027-83	White Resinous Material with Clear Glass Sheres	N	100	ND			100	B
A-650	20007027-84	White Resinous Material with Clear Glass Sheres	N	100	ND			100	B
A-651	20007027-85	White Resinous Material with Clear Glass Sheres	N	100	ND			100	B
A-652	20007027-86	White Resinous Material with Clear Glass Sheres	N	100	ND			100	B
A-653	20007027-87	White Resinous Material with Clear Glass Sheres	N	100	ND			100	B


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General Notes

- **ND** indicates no asbestos was detected; the method detection limit is 1 %.
- **Trace** or "< 1" indicates asbestos was identified in the sample, but the concentration is less than 1% and cannot be quantified without point counting.
- Samples identified as inhomogeneous (more than one layer) are separated into individual layers, and each layer is analyzed and reported separately.
- All regulated asbestos minerals (i.e. chrysotile, amosite, crocidolite, anthophyllite, tremolite, and actinolite) were sought in every layer of each sample, but only those asbestos minerals detected are listed. Amosite is the common name for the asbestiform variety of the minerals cummingtonite and grunerite. Crocidolite is the common name used for the asbestiform variety of the mineral riebeckite.
- Tile, vinyl, foam, plastic, and fine powder samples may contain asbestos fibers of such small diameter (< 0.25 microns in diameter) that these fibers cannot be detected by PLM. For such samples, more sensitive analytical methods (e.g. TEM, SEM, and XRD) are recommended if greater certainty about asbestos content is required. Semi-quantitative bulk TEM floor tile analysis is accepted under NESHAP regulations.
- These results are submitted pursuant to Aerobiology Laboratory Associates, Inc.'s current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
- Unless notified in writing to return the samples covered by this report, Aerobiology Laboratory Associates, Inc. will store the samples for a minimum period of thirty (30) days before discarding. A shipping and handling charge will be assessed for the return of any samples.
- Aerobiology does not guarantee the results of tape lifts, microvacs, wipe, and/or debris samples. Accurate analysis cannot be performed due to particle size, media used, and/or amount of material given. Analysis of these materials should be performed by a TEM. ***A result of ND does not indicate that the sample area does not contain asbestos. It means the analyst could not identify asbestos in the specific sample for the reasons listed above.***

Notes Required by NVLAP

- This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.
- This test report relates only to the items tested or calibrated.
- This report is not valid unless it bears the name of a NVLAP-approved signatory.
- Any reproduction of this document must include the entire document in order for the report to be valid.

Total Layers Analyzed: 89



A-Tech Consulting, Inc.

20000514

Company: A-Tech Consulting, Inc.
 Address: 1748 W. Katella Avenue, Suite 112
 City: Orange
 State: CA Zip Code: 92867

Phone Number: (714) 434-6360
 Fax Number: (714) 221-6360
 Attn: Robert L. Williams
 Results: Email to labs@atechinc.net
 Fax to (714) 221-6360

Project Name & Number: 192661 - HDR 1-15 Project Inside/Outside Rail

ASBESTOS	3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	5 Day
----------	--------	--------	---------	---------	---------	-------

PLM-BULK

EPA 600/R-93/116						✓
EPA Point Count -400						
EPA Point Count-1000						

TEM-MIRCO VAC

Qualitative (Pos/Neg)	N/A					
Quantitative ASTM	N/A					

PCM-AIR

NIOSH 7400 (A) Issue 2: August 1994						
OSHA w/TWA						

PARTICULATES

NIOSH 0500	N/A	N/A				
NIOSH 0600	N/A	N/A				

LEAD	3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	5 Day
------	--------	--------	---------	---------	---------	-------

Chips EPA 3050/7420						✓
Wipes NIOSH 7082						
Soil EPA 3050/7420						
Air NIOSH 7082						
TTLc-Ceramic	N/A					

OTHER SAMPLES	3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	5 Day

** Please Call After Each Analysis

Client Sample Number: A-01 - A-54 Total: 54

Relinquished: L-01 - L-16 Date: Jan 6, 2020 Time: 3:15 PM

Received: CS Date: 1/6/2020 Time: 3:15 PM

Fed Ex Yes Date Sent _____ No Laboratory: _____



Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: Robert Williams
Results: Email to labs@atechinc.net

Project Name & Number: 192661-HDR I-15 Project Inside/Outside Rail

ASBESTOS	3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	5 Day
----------	--------	--------	---------	---------	---------	-------

PLM-BULK

EPA 600/R-93/116							X
EPA Point Count -400							
EPA Point Count-1000							

TEM-MICRO VAC

Qualitative (Pos/Neg)	N/A					
Quantitative ASTM	N/A					

PCM-AIR

NIOSH 7400 (A) Issue 2: August 1994						
OSHA w/TWA						

PARTICULATES

NIOSH 0500	N/A	N/A				
NIOSH 0600	N/A	N/A				

LEAD	3 Hour	6 Hour	24 Hour
------	--------	--------	---------

Chips EPA 3050/7420			
Wipes NIOSH 7082			
Soil EPA 3050/7420			
Air NIOSH 7082			
TFLC (Ceramic Tile)	N/A		

OTHER SAMPLES	3 Hour	6 Hour	24 Hour

LAB USE ONLY

A: AB/AK 01/10/20 1-24

V: _____

Q: AW 1/13/2020

Client Sample Number: A-SS - A-120 Total: 66

Relinquished: [Signature] Date: 5/7/2020 Time: 3:36 PM

Received: CO Date: 1/7/2020 Time: 3:36 PM

Relinquished: _____ Date: _____ Time: _____

Received: AA Date: 1/9/2020 Time: 9:01 am

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: _____

Notes: _____

Aerobiology Laboratory
780 Simms St. Suite 104
Golden, CO 80401



A-Tech Consulting, Inc.

Company: A-Tech Consulting, Inc.
 Address: 1748 W. Katella Avenue, Suite 112
 City: Orange
 State: CA Zip Code: 92867

Phone Number: (714) 434-6360
 Fax Number: (714) 221-6360
 Attn: Robert Williams
 Results: Email to labs@atechinc.net

Project Name & Number: 192661 - HDR 1-15 Project Inside/outside Rail

ASBESTOS	3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	5 Day
-----------------	---------------	---------------	----------------	----------------	----------------	--------------

PLM-BULK

EPA 600/R-93/116						✓
EPA Point Count -400						
EPA Point Count-1000						

TEM-MICRO VAC

Qualitative (Pos/Neg)	N/A					
Quantitative ASTM	N/A					

PCM-AIR

NIOSH 7400 (A) Issue 2: August 1994						
OSHA w/TWA						

PARTICULATES

NIOSH 0500	N/A	N/A				
NIOSH 0600	N/A	N/A				

LEAD	3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	5 Day
-------------	---------------	---------------	----------------	----------------	----------------	--------------

Chips EPA 3050/7420						
Wipes NIOSH 7082						
Soil EPA 3050/7420						
Air NIOSH 7082						
TTL (Ceramic Tile)	N/A					

OTHER SAMPLES	3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	5 Day
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Client Sample Number: A-121 - A-213 Total: 93

Relinquished: [Signature] Date: Jan 8, 2020 Time: 3:31 PM
 Received: [Signature] Date: 1/8/2020 Time: 3:30 PM
 Relinquished: _____ Date: _____ Time: _____
 Received: _____ Date: _____ Time: _____

Fed Ex Yes ___ Date Sent _____ No ___ Laboratory: _____

Notes: _____



Company: A-Tech Consulting, Inc.
 Address: 1748 W. Katella Avenue, Suite 112
 City: Orange
 State: CA Zip Code: 92867

Phone Number: (714) 434-6360
 Fax Number: (714) 221-6360
 Attn: Robert Williams
 Results: Email to labs@atechinc.net

Project Name & Number: 192661 - HDR 1-15 Project Inside/Outside Rail

ASBESTOS	3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	5 Day
----------	--------	--------	---------	---------	---------	-------

PLM-BULK

EPA 600/R-93/116						
EPA Point Count -400						
EPA Point Count-1000						

TEM-MICRO VAC

Qualitative (Pos/Neg)	N/A					
Quantitative ASTM	N/A					

PCM-AIR

NIOSH 7400 (A) Issue 2: August 1994						
OSHA w/TWA						

PARTICULATES

NIOSH 0500	N/A	N/A				
NIOSH 0600	N/A	N/A				

LEAD	3 Hour	6 Hour	24 Hour
------	--------	--------	---------

Chips EPA 3050/7420			
Wipes NIOSH 7082			
Soil EPA 3050/7420			
Air NIOSH 7082			
TTL (Ceramic Tile)	N/A		

OTHER SAMPLES	3 Hour	6 Hour	24 Hour

LAB USE ONLY

A: AB / PK TAGS 1/15/2020

V: _____

Q: 1/15/2020

Client Sample Number: A 216 - A 259 Total: 44

Relinquished: [Signature] Date: Jan 9, 2020 Time: 5:44 PM
 Received: JO Date: 1/9/2020 Time: 3:44 PM
 Relinquished: _____ Date: _____ Time: _____
 Received: NIM Date: 1/12/20 Time: 8:50 AM

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: _____
 Notes: _____

Aerobiology Laboratory
 780 Simms St. Suite 104
 Golden, CO 80401



Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: Robert Williams
Results: Email to labs@atechinc.net

Project Name & Number: 192661 - HDR 1-15 Project Inside/outside Reel 1

ASBESTOS	3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	5 Day
----------	--------	--------	---------	---------	---------	-------

PLM-BULK

EPA 600/R-93/116						✓
EPA Point Count -400						
EPA Point Count-1000						

TEM-MICRO VAC

Qualitative (Pos/Neg)	N/A					
Quantitative ASTM	N/A					

PCM-AIR

NIOSH 7400 (A) Issue 2: August 1994						
OSHA w/TWA						

PARTICULATES

NIOSH 0500	N/A	N/A				
NIOSH 0600	N/A	N/A				

LEAD	3 Hour	6 Hour	24 Hour
------	--------	--------	---------

Chips EPA 3050/7420			
Wipes NIOSH 7082			
Soil EPA 3050/7420			
Air NIOSH 7082			
TTL (Ceramic Tile)	N/A		

OTHER SAMPLES	3 Hour	6 Hour	24 Hour

LAB USE ONLY

ND

A: MS/AS 1/16/2020
V: _____
Q: AW 1/16/2020

Client Sample Number: A-259 - A-320 Total: 62

Relinquished: [Signature] Date: Jan 13, 2020 Time: 2:55 PM
Received: RA Date: 1/10/2020 Time: 2:57 PM
Relinquished: _____ Date: _____ Time: _____
Received: AW Date: 1/14/2020 Time: 9:32 AM

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: _____

Notes: _____

#63 Sample Labeled "A-318", Not on COC
#64 Sample Labeled "A-319", Not on COC
#65 Sample Labeled "A-320", Not on COC sw
1/14/2020

Aerobiology Laboratory
780 Simms St. Suite 104
Golden, CO 80401



Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: A-Tech Office
Results: Email to labs@atechinc.net

Project Name & Number: 192661 - HDR 1-15 Project Inside/Outside R-1

ASBESTOS	2 Hour	3 Hour	4 Hour	6 Hour	24 Hour	48 Hour	72 Hour	5 Day
----------	--------	--------	--------	--------	---------	---------	---------	-------

PLM-BULK

EPA 600/R-93/116								✓
EPA Point Count -400								
EPA Point Count-1000								

TEM-MICRO VAC

Qualitative (Pos/Neg)	N/A	N/A	N/A					
Quantitative ASTM	N/A	N/A	N/A					

PCM-AIR

NIOSH 7400 (A) Issue 2: August 1994								
OSHA w/TWA								

PARTICULATES

NIOSH 0500 (3005)	N/A	N/A	N/A	N/A				
NIOSH 0600 (3005.1)	N/A	N/A	N/A	N/A				

LEAD	2 Hour	3 Hour	4 Hour	6 Hour
------	--------	--------	--------	--------

Chips EPA 3050/7420				
Wipes NIOSH 7082				
Soil EPA 3050/7420				
Air NIOSH 7082				
TTLc (Ceramic Tile)	N/A	N/A	N/A	

OTHER SAMPLES	2 Hour	3 Hour	4 Hour	6 Hour

LAB USE ONLY

A: RK AG-27-48/AB ✓
75.84
V: _____
Q: AW 2/14/2020

Client Sample Number: A-321 - A-406 Total: 86
Relinquished: [Signature] Date: Feb 7, 2020 Time: 1:00 AM
Received: _____ Date: _____ Time: _____
Relinquished: _____ Date: _____ Time: _____
Received: _____ Date: 2/7/20 Time: 1:00 pm
Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: Rec'd 2/11/2020 AW 10:25AM
Notes: _____



Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: A-Tech Office
Results: Email to labs@atechinc.net

Project Name & Number: 192661-HDR-1-15 Project Inside/Outside Rain

ASBESTOS 2 Hour 3 Hour 4 Hour 6 Hour 24 Hour 48 Hour 72 Hour 5 Day

PLM-BULK

Table with 9 columns for ASBESTOS and rows for EPA 600/R-93/116, EPA Point Count -400, EPA Point Count-1000

TEM-MICRO VAC

Table with 9 columns for TEM-MICRO VAC and rows for Qualitative (Pos/Neg), Quantitative ASTM

PCM-AIR

Table with 9 columns for PCM-AIR and rows for NIOSH 7400 (A) Issue 2: August 1994, OSHA w/TWA

PARTICULATES

Table with 9 columns for PARTICULATES and rows for NIOSH 0500 (3005), NIOSH 0600 (3005.1)

LEAD 2 Hour 3 Hour 4 Hour 6 Hour 24 Hour 48 Hour 72 Hour 5 Day

Table with 9 columns for LEAD and rows for Chips EPA 3050/7420, Wipes NIOSH 7082, Soil EPA 3050/7420, Air NIOSH 7082, TTLC (Ceramic Tile)

OTHER SAMPLES 2 Hour 3 Hour 4 Hour 6 Hour 24 Hour 48 Hour 72 Hour 5 Day

Client Sample Number: A-807 A-484 Total: 78

Relinquished: [Signature] Date: Feb 12, 2020 Time: 9:30 AM
Received: [Signature] Date: 2/12/20 Time: 9:33 AM

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: ___

Notes: ___



Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: A-Tech Office
Results: Email to labs@atechinc.net

Project Name & Number: 192661 & HDR HS Project Inside/outside Rail

Table with 9 columns: ASBESTOS, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day. The '5 Day' cell is circled.

PLM-BULK

Table with 9 columns for PLM-BULK analysis: EPA 600/R-93/116, EPA Point Count -400, EPA Point Count-1000.

TEM-MICRO VAC

Table with 9 columns for TEM-MICRO VAC analysis: Qualitative (Pos/Neg), Quantitative ASTM.

PCM-AIR

Table with 9 columns for PCM-AIR analysis: NIOSH 7400 (A) Issue 2: August 1994, OSHA w/TWA.

PARTICULATES

Table with 9 columns for PARTICULATES analysis: NIOSH 0500 (3005), NIOSH 0600 (3005.1).

LEAD

Table with 9 columns: LEAD, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day.

Table with 9 columns for LEAD analysis: Chips EPA 3050/7420, Wipes NIOSH 7082, Soil EPA 3050/7420, Air NIOSH 7082, TTLC (Ceramic Tile).

OTHER SAMPLES

Table with 9 columns: OTHER SAMPLES, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day.

Client Sample Number: A-485 - A-528 Total: 421

Relinquished: [Signature] Date: Feb 13, 2020 Time: 1:00 PM
Received: [Signature] Date: 2/13/2020 Time: 2:00 PM

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: ___

Notes: ___



Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: A-Tech Office
Results: Email to labs@atechinc.net

Project Name & Number: 192661 HDR 145 Project Inside/Outside Rail

Table with columns: ASBESTOS, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Table with columns: PLM-BULK, EPA 600/R-93/116, EPA Point Count -400, EPA Point Count-1000

Table with columns: TEM-MICRO VAC, Qualitative (Pos/Neg), Quantitative ASTM

Table with columns: PCM-AIR, NIOSH 7400 (A) Issue 2: August 1994, OSHA w/TWA

Table with columns: PARTICULATES, NIOSH 0500 (3005), NIOSH 0600 (3005.1)

Table with columns: LEAD, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Table with columns: Chips EPA 3050/7420, Wipes NIOSH 7082, Soil EPA 3050/7420, Air NIOSH 7082, TTLC (Ceramic Tile)

Table with columns: OTHER SAMPLES, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Client Sample Number: A-529 - A-566 Total: 38

Relinquished: [Signature] Date: Feb 14, 2020 Time: 12:00 PM
Received: [Signature] Date: 2/14/2020 Time: 12:23 PM

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: ___

Notes: _____

Appendix H:

Laboratory Reports: Lead in Paint Chips by Flame AAS (SW 846 3050B and 7420) and Chain of Custody



Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661
Project Location: HDR 1-15 Project Inside / Outside Rail

Report Status: Final Report
Lab Batch #: 2000284
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 35
Samples Analyzed: 35
Bench Run No: 54076

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
200028401	L-01	0.0995	0.02	<200	<0.02
200028402	L-02	0.1035	0.02	<200	<0.02
200028403	L-03	0.0990	0.02	<200	<0.02
200028404	L-04	0.1002	0.02	<200	<0.02
200028405	L-05	0.1000	0.02	<200	<0.02
200028406	L-06	0.0997	0.02	<200	<0.02
200028407	L-07	0.1004	0.02	<200	<0.02
200028408	L-08	0.1026	0.02	<200	<0.02
200028409	L-09	0.1015	0.02	<200	<0.02
200028410	L-10	0.0984	0.02	<200	<0.02
200028411	L-11	0.1042	0.02	<200	<0.02
200028412	L-12	0.1019	0.02	<200	<0.02
200028413	L-13	0.1013	0.02	<200	<0.02
200028414	L-14	0.0985	0.02	<200	<0.02
200028415	L-15	0.1030	0.02	<200	<0.02
200028416	L-16	0.1000	0.02	<200	<0.02
200028417	L-17	0.1006	0.02	<200	<0.02
200028418	L-18	0.1019	0.02	<200	<0.02
200028419	L-19	0.1033	0.02	<200	<0.02
200028420	L-20	0.1042	0.02	<200	<0.02
200028421	L-21	0.0984	0.02	<200	<0.02
200028422	L-22	0.0988	0.02	<200	<0.02

Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661
Project Location: HDR 1-15 Project Inside / Outside Rail

Report Status: Final Report
Lab Batch #: 2000284
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 35
Samples Analyzed: 35
Bench Run No: 54076

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
200028423	L-23	0.1028	0.02	<200	<0.02
200028424	L-24	0.0992	0.02	<200	<0.02
200028425	L-25	0.1042	0.02	<200	<0.02
200028426	L-26	0.1018	0.02	<200	<0.02
200028427	L-27	0.1013	0.02	<200	<0.02
200028428	L-28	0.1044	0.02	<200	<0.02
200028429	L-29	0.0992	0.02	<200	<0.02
200028430	L-30	0.1005	0.02	<200	<0.02
200028431	L-31	0.1016	0.02	<200	<0.02
200028432	L-32	0.0991	0.02	<200	<0.02
200028433	L-33	0.0986	0.02	<200	<0.02
200028434	L-34	0.0975	0.02	<200	<0.02
200028435	L-35	0.0985	0.02	<200	<0.02





Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Report Status: Final Report

Lab Batch #: 2000284

Matrix: Paint chips

Method: Modified EPA 7420

Project Manager: Casandra Williams

Project #: 192661

Samples Submitted: 35

Project Location: HDR 1-15 Project Inside / Outside Rail

Samples Analyzed: 35

Bench Run No: 54076

Sampled By: Client

Analyzed by: Kingsley Xie

Signature: 

Date: 01-08-2020

Reviewed by: Danny Do

Signature: 

Date: 01-14-2020

Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000

RL = Reporting limit; "<" = below the reporting limit, mg/kg = ppm

Notes: Samples were prepared in accordance with modified EPA 3051 or EPA 3050B unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.

AIHA LAP, LLC Accredited Laboratory for Environmental Lead Laboratory ISO/IEC 17025:2005, Lab ID# 203769





Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Report Status: Final Report

Lab Batch #: 2000347

Matrix: Paint chips

Method: Modified EPA 7420

Project Manager: Casandra Williams

Project #: 192661

Samples Submitted: 21

Project Location: HDR 1-15 Project Inside/Outside Rail

Samples Analyzed: 21

Bench Run No: 54085

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
200034701	L36	0.1036	0.02	<200	<0.02
200034702	L37	0.1000	0.02	<200	<0.02
200034703	L38	0.1013	0.02	<200	<0.02
200034704	L39	0.0994	0.02	<200	<0.02
200034705	L40	0.1016	0.02	<200	<0.02
200034706	L41	0.0990	0.02	<200	<0.02
200034707	L42	0.1034	0.02	<200	<0.02
200034708	L43	0.1020	0.02	<200	<0.02
200034709	L44	0.1013	0.02	<200	<0.02
200034710	L45	0.1011	0.02	<200	<0.02
200034711	L46	0.1015	0.02	<200	<0.02
200034712	L47	0.0972	0.02	<200	<0.02
200034713	L48	0.1003	0.02	<200	<0.02
200034714	L49	0.0989	0.02	<200	<0.02
200034715	L50	0.1031	0.02	<200	<0.02
200034716	L51	0.0998	0.02	<200	<0.02
200034717	L52	0.1039	0.02	<200	<0.02
200034718	L53	0.1034	0.02	<200	<0.02
200034719	L54	0.1042	0.02	<200	<0.02
200034720	L55	0.1002	0.02	<200	<0.02
200034721	L56	0.1025	0.02	<200	<0.02



Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661
Project Location: HDR 1-15 Project Inside/Outside Rail

Report Status: Final Report
Lab Batch #: 2000347
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 21
Samples Analyzed: 21
Bench Run No: 54085

Sampled By: Client

Analyzed by: Kingsley Xie

Signature:

Date: 01-09-2020

Reviewed by: Danny Do

Signature:

Date: 01-15-2020

Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000

RL = Reporting limit; "<" = below the reporting limit, mg/kg = ppm

Notes: Samples were prepared in accordance with modified EPA 3051 or EPA 3050B unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.

AIHA LAP, LLC Accredited Laboratory for Environmental Lead Laboratory ISO/IEC 17025:2005, Lab ID# 203769





Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661
Project Location: HDR-1-15 Project Inside/Outside Rail

Report Status: Final Report
Lab Batch #: 2000417
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 18
Samples Analyzed: 18
Bench Run No: 54092

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
200041701	L-57	0.1026	0.02	<200	<0.02
200041702	L-58	0.0994	0.02	<200	<0.02
200041703	L-59	0.1030	0.02	<200	<0.02
200041704	L-60	0.0994	0.02	<200	<0.02
200041705	L-61	0.1032	0.02	<200	<0.02
200041706	L-62	0.0992	0.02	<200	<0.02
200041707	L-63	0.1012	0.02	<200	<0.02
200041708	L-64	0.1024	0.02	<200	<0.02
200041709	L-65	0.1033	0.02	<200	<0.02
200041710	L-66	0.1039	0.02	<200	<0.02
200041711	L-67	0.1043	0.02	<200	<0.02
200041712	L-68	0.1006	0.02	<200	<0.02
200041713	L-69	0.1013	0.02	<200	<0.02
200041714	L-70	0.1033	0.02	<200	<0.02
200041715	L-71	0.1029	0.02	<200	<0.02
200041716	L-72	0.1025	0.02	<200	<0.02
200041717	L-73	0.1020	0.02	<200	<0.02
200041718	L-74	0.1011	0.02	<200	<0.02



Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661
Project Location: HDR-1-15 Project Inside/Outside Rail

Report Status: Final Report
Lab Batch #: 2000417
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 18
Samples Analyzed: 18
Bench Run No: 54092

Sampled By: Client

Analyzed by: Kingsley Xie

Signature: 

Date: 01-10-2020

Reviewed by: Danny Do

Signature: 

Date: 01-16-2020

Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000

RL = Reporting limit; "<" = below the reporting limit, mg/kg = ppm

Notes: Samples were prepared in accordance with modified EPA 3051 or EPA 3050B unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.

AIHA LAP, LLC Accredited Laboratory for Environmental Lead Laboratory ISO/IEC 17025:2005, Lab ID# 203769





Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661
Project Location: HDR 1-15 Project Inside/Outside Roil

Report Status: Final Report
Lab Batch #: 2000466
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 21
Samples Analyzed: 21
Bench Run No: 54099

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
200046601	L-75	0.1026	0.02	<200	<0.02
200046602	L-76	0.1037	0.02	<200	<0.02
200046603	L-77	0.0990	0.02	<200	<0.02
200046604	L-78	0.1029	0.02	<200	<0.02
200046605	L-79	0.1027	0.02	<200	<0.02
200046606	L-80	0.1021	0.02	<200	<0.02
200046607	L-81	0.1000	0.02	228	0.02
200046608	L-82	0.1038	0.02	<200	<0.02
200046609	L-83	0.1023	0.02	<200	<0.02
200046610	L-84	0.1024	0.02	<200	<0.02
200046611	L-85	0.1026	0.02	<200	<0.02
200046612	L-86	0.1034	0.02	<200	<0.02
200046613	L-87	0.1042	0.02	<200	<0.02
200046614	L-88	0.0971	0.02	<200	<0.02
200046615	L-89	0.1030	0.02	<200	<0.02
200046616	L-90	0.1035	0.02	<200	<0.02
200046617	L-91	0.1022	0.02	<200	<0.02
200046618	L-92	0.1017	0.02	<200	<0.02
200046619	L-93	0.0997	0.02	<200	<0.02
200046620	L-94	0.1009	0.02	<200	<0.02
200046621	L-95	0.0982	0.02	<200	<0.02



Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661
Project Location: HDR 1-15 Project Inside/Outside Roil

Report Status: Final Report
Lab Batch #: 2000466
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 21
Samples Analyzed: 21
Bench Run No: 54099

Sampled By: Client

Analyzed by: Kingsley Xie

Signature:

Date: 01-13-2020

Reviewed by: Danny Do

Signature:

Date: 01-17-2020

Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000

RL = Reporting limit; "<" = below the reporting limit, mg/kg = ppm

Notes: Samples were prepared in accordance with modified EPA 3051 or EPA 3050B unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.

AIHA LAP, LLC Accredited Laboratory for Environmental Lead Laboratory ISO/IEC 17025:2005, Lab ID# 203769





Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661
Project Location: HDR I-15 Project Inside/Outside Rail

Report Status: Final Report
Lab Batch #: 2001826
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 16
Samples Analyzed: 16
Bench Run No: 54195

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
200182602	L96	0.1028	0.02	<200	<0.02
200182603	L97	0.1014	0.02	<200	<0.02
200182604	L98	0.1038	0.02	<200	<0.02
200182605	L99	0.1031	0.02	<200	<0.02
200182606	L100	0.0986	0.02	<200	<0.02
200182607	L101	0.1042	0.02	<200	<0.02
200182608	L102	0.0978	0.02	<200	<0.02
200182609	L103	0.0983	0.02	<200	<0.02
200182610	L104	0.1025	0.02	<200	<0.02
200182611	L105	0.0990	0.02	<200	<0.02
200182612	L106	0.1025	0.02	<200	<0.02
200182613	L107	0.1028	0.02	<200	<0.02
200182614	L108	0.1019	0.02	<200	<0.02
200182615	L109	0.0981	0.02	<200	<0.02
200182616	L110	0.0963	0.02	<200	<0.02
200182617	L111	0.0961	0.02	<200	<0.02



Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661
Project Location: HDR I-15 Project Inside/Outside Rail

Report Status: Final Report
Lab Batch #: 2001826
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 16
Samples Analyzed: 16
Bench Run No: 54195

Sampled By: Client

Analyzed by: Danny Do

Signature: 

Date: 02-07-2020

Reviewed by: Zubair Ahmed

Signature: 

Date: 02-14-2020

Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000

RL = Reporting limit; "<" = below the reporting limit, mg/kg = ppm

Notes: Samples were prepared in accordance with modified EPA 3051 or EPA 3050B unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.

AIHA LAP, LLC Accredited Laboratory for Environmental Lead Laboratory ISO/IEC 17025:2005, Lab ID# 203769





Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Report Status: Final Report

Lab Batch #: 2002020

Matrix: Paint chips

Method: Modified EPA 7420

Project Manager: Casandra Williams

Project #: 192661-HDR-1-15

Project Location: Project Inside/Outside Rail

Samples Submitted: 20

Samples Analyzed: 20

Bench Run No: 54215

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
200202001	L112	0.1017	0.02	<200	<0.02
200202002	L113	0.1029	0.02	<200	<0.02
200202003	L114	0.0998	0.02	<200	<0.02
200202004	L115	0.0980	0.02	<200	<0.02
200202005	L116	0.1012	0.02	<200	<0.02
200202006	L117	0.1004	0.02	<200	<0.02
200202007	L118	0.0993	0.02	<200	<0.02
200202008	L119	0.1018	0.02	<200	<0.02
200202009	L120	0.1011	0.02	<200	<0.02
200202010	L121	0.1011	0.02	<200	<0.02
200202011	L122	0.1046	0.02	<200	<0.02
200202012	L123	0.0986	0.02	<200	<0.02
200202013	L124	0.1006	0.02	<200	<0.02
200202014	L125	0.1032	0.02	<200	<0.02
200202015	L126	0.1033	0.02	<200	<0.02
200202016	L127	0.0978	0.02	<200	<0.02
200202017	L128	0.1021	0.02	<200	<0.02
200202018	L129	0.0973	0.02	<200	<0.02
200202019	L130	0.1016	0.02	<200	<0.02
200202020	L131	0.1019	0.02	387	0.04



Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661-HDR-1-15
Project Location: Project Inside/Outside Rail

Report Status: Final Report
Lab Batch #: 2002020
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 20
Samples Analyzed: 20
Bench Run No: 54215

Sampled By: Client

Analyzed by: Kingsley Xie

Signature: 

Date: 02-12-2020

Reviewed by: Danny Do

Signature: 

Date: 02-19-2020

Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000

RL = Reporting limit; "<" = below the reporting limit, mg/kg = ppm

Notes: Samples were prepared in accordance with modified EPA 3051 or EPA 3050B unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.

AIHA LAP, LLC Accredited Laboratory for Environmental Lead Laboratory ISO/IEC 17025:2005, Lab ID# 203769





Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661-HDR
Project Location: I-15 Project Inside/Outside Rail

Report Status: Final Report
Lab Batch #: 2002147
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 44
Samples Analyzed: 44
Bench Run No: 54236

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
200214701	L-132	0.1008	0.02	359	0.04
200214702	L-133	0.1030	0.02	<200	<0.02
200214703	L-134	0.1003	0.02	<200	<0.02
200214704	L-135	0.0983	0.02	<200	<0.02
200214705	L-136	0.1038	0.02	<200	<0.02
200214706	L-137	0.1003	0.02	<200	<0.02
200214707	L-138	0.1037	0.02	<200	<0.02
200214708	L-139	0.1025	0.02	<200	<0.02
200214709	L-140	0.1011	0.02	<200	<0.02
200214710	L-141	0.1015	0.02	<200	<0.02
200214711	L-142	0.0976	0.02	<200	<0.02
200214712	L-143	0.1016	0.02	<200	<0.02
200214713	L-144	0.1000	0.02	<200	<0.02
200214714	L-145	0.1040	0.02	<200	<0.02
200214715	L-146	0.1043	0.02	<200	<0.02
200214716	L-147	0.0997	0.02	<200	<0.02
200214717	L-148	0.0989	0.02	231	0.02
200214718	L-149	0.0992	0.02	<200	<0.02
200214719	L-150	0.1018	0.02	<200	<0.02
200214720	L-151	0.0996	0.02	596	0.06
200214721	L-152	0.1002	0.02	<200	<0.02
200214722	L-153	0.1011	0.02	<200	<0.02



Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661-HDR
Project Location: I-15 Project Inside/Outside Rail

Report Status: Final Report
Lab Batch #: 2002147
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 44
Samples Analyzed: 44
Bench Run No: 54236

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
200214723	L-154	0.1023	0.02	<200	<0.02
200214724	L-155	0.1000	0.02	<200	<0.02
200214725	L-156	0.1002	0.02	<200	<0.02
200214726	L-157	0.1032	0.02	<200	<0.02
200214727	L-158	0.1027	0.02	<200	<0.02
200214728	L-159	0.1031	0.02	<200	<0.02
200214729	L-160	0.1021	0.02	<200	<0.02
200214730	L-161	0.1027	0.02	<200	<0.02
200214731	L-162	0.1037	0.02	<200	<0.02
200214732	L-163	0.1035	0.02	<200	<0.02
200214733	L-164	0.0997	0.02	<200	<0.02
200214734	L-165	0.1021	0.02	<200	<0.02
200214735	L-166	0.1021	0.02	<200	<0.02
200214736	L-167	0.1024	0.02	<200	<0.02
200214737	L-168	0.1021	0.02	<200	<0.02
200214738	L-169	0.0984	0.02	<200	<0.02
200214739	L-170	0.1048	0.02	<200	<0.02
200214740	L-171	0.1008	0.02	<200	<0.02
200214741	L-172	0.1042	0.02	<200	<0.02
200214742	L-173	0.0993	0.02	<200	<0.02
200214743	L-174	0.1025	0.02	<200	<0.02
200214744	L-175	0.1028	0.02	<200	<0.02



Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661-HDR
Project Location: I-15 Project Inside/Outside Rail

Report Status: Final Report
Lab Batch #: 2002147
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 44
Samples Analyzed: 44
Bench Run No: 54236

Sampled By: Client

Analyzed by: Kingsley Xie

Signature:

Date: 02-17-2020

Reviewed by: Danny Do

Signature:

Date: 02-21-2020

Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000

RL = Reporting limit; "<" = below the reporting limit, mg/kg = ppm

Notes: Samples were prepared in accordance with modified EPA 3051 or EPA 3050B unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.

AIHA LAP, LLC Accredited Laboratory for Environmental Lead Laboratory ISO/IEC 17025:2005, Lab ID# 203769





Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661
Project Location: HDR I-15 Project Inside/Outside Rail

Report Status: Final Report
Lab Batch #: 2002303
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 51
Samples Analyzed: 51
Bench Run No: 54252

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
200230301	L176	0.1006	0.02	<200	<0.02
200230302	L177	0.1036	0.02	<200	<0.02
200230303	L178	0.0996	0.02	<200	<0.02
200230304	L179	0.1025	0.02	<200	<0.02
200230305	L180	0.1031	0.02	<200	<0.02
200230306	L181	0.1010	0.02	<200	<0.02
200230307	L182	0.0991	0.02	<200	<0.02
200230308	L183	0.0973	0.02	<200	<0.02
200230309	L184	0.0976	0.02	<200	<0.02
200230310	L185	0.1002	0.02	<200	<0.02
200230311	L186	0.1005	0.02	<200	<0.02
200230312	L187	0.1038	0.02	<200	<0.02
200230313	L188	0.0986	0.02	<200	<0.02
200230314	L189	0.0979	0.02	883	0.09
200230315	L190	0.0994	0.02	<200	<0.02
200230316	L191	0.0974	0.02	<200	<0.02
200230317	L192	0.0990	0.02	<200	<0.02
200230318	L193	0.1006	0.02	<200	<0.02
200230319	L194	0.1048	0.02	<200	<0.02
200230320	L195	0.1037	0.02	<200	<0.02
200230321	L196	0.0986	0.02	<200	<0.02
200230322	L197	0.0981	0.02	<200	<0.02



Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Project Manager: Casandra Williams
Project #: 192661
Project Location: HDR I-15 Project Inside/Outside Rail

Report Status: Final Report
Lab Batch #: 2002303
Matrix: Paint chips
Method: Modified EPA 7420
Samples Submitted: 51
Samples Analyzed: 51
Bench Run No: 54252

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
200230323	L198	0.0996	0.02	<200	<0.02
200230324	L199	0.0998	0.02	<200	<0.02
200230325	L200	0.1001	0.02	12587	1.26
200230326	L201	0.1011	0.02	<200	<0.02
200230327	L202	0.1003	0.02	<200	<0.02
200230328	L203	0.0993	0.02	<200	<0.02
200230329	L204	0.0975	0.02	<200	<0.02
200230330	L205	0.1021	0.02	217	0.02
200230331	L206	0.1025	0.02	<200	<0.02
200230332	L207	0.0999	0.02	<200	<0.02
200230333	L208	0.0995	0.02	<200	<0.02
200230334	L209	0.0993	0.02	<200	<0.02
200230335	L210	0.0995	0.02	<200	<0.02
200230336	L211	0.0993	0.02	<200	<0.02
200230337	L212	0.0993	0.02	<200	<0.02
200230338	L213	0.1032	0.02	<200	<0.02
200230339	L214	0.0968	0.02	<200	<0.02
200230340	L215	0.0964	0.02	<200	<0.02
200230341	L216	0.1023	0.02	<200	<0.02
200230342	L217	0.1024	0.02	<200	<0.02
200230343	L218	0.0969	0.02	<200	<0.02
200230344	L219	0.1005	0.02	<200	<0.02



Analysis Report

Total Lead (Pb)

Client: A-Tech Consulting Inc
Address: 1640 N. Batavia Street, Orange, CA 92867

Report Status: Final Report

Lab Batch #: 2002303

Matrix: Paint chips

Method: Modified EPA 7420

Project Manager: Casandra Williams

Project #: 192661

Samples Submitted: 51

Samples Analyzed: 51

Project Location: HDR I-15 Project Inside/Outside Rail

Bench Run No: 54252

Lab ID	Client Sample ID	Sample Weight (g)	RL in percent	Results in mg/kg	Results in percent
200230345	L220	0.0979	0.02	<200	<0.02
200230346	L221	0.0977	0.02	<200	<0.02
200230347	L222	0.1015	0.02	<200	<0.02
200230348	L223	0.1040	0.02	<200	<0.02
200230349	L224	0.1021	0.02	<200	<0.02
200230350	L225	0.1014	0.02	<200	<0.02
200230351	L226	0.1036	0.02	<200	<0.02

Sampled By: Client

Analyzed by: Kingsley Xie

Signature:

Date: 02-19-2020

Reviewed by: Danny Do

Signature:

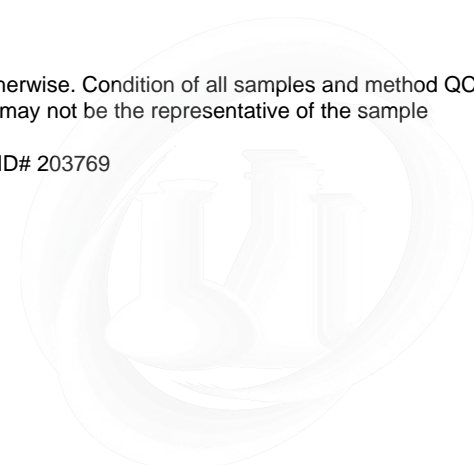
Date: 02-25-2020

Units: mg/kg = milligrams per kilogram; percent = milligrams per kilogram/10000

RL = Reporting limit; "<" = below the reporting limit, mg/kg = ppm

Notes: Samples were prepared in accordance with modified EPA 3051 or EPA 3050B unless stated otherwise. Condition of all samples and method QC results are acceptable unless stated otherwise. Reported results relate only to the samples tested and may not be the representative of the sample area.

AIHA LAP, LLC Accredited Laboratory for Environmental Lead Laboratory ISO/IEC 17025:2005, Lab ID# 203769





Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: Robert Williams
Results: Email to labs@atechinc.net

Project Name & Number: 192661-HDR 1-15 Project Inside/Outside Rail

ASBESTOS	3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	5 Day
----------	--------	--------	---------	---------	---------	-------

PLM-BULK

EPA 600/R-93/116						
EPA Point Count -400						
EPA Point Count-1000						

TEM-MICRO VAC

Qualitative (Pos/Neg)	N/A					
Quantitative ASTM	N/A					

PCM-AIR

NIOSH 7400 (A) Issue 2:August 1994						
OSHA w/TWA						

PARTICULATES

NIOSH 0500	N/A	N/A				
NIOSH 0600	N/A	N/A				

LEAD	3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	5 Day
------	--------	--------	---------	---------	---------	-------

Chips EPA 3050/7420						
Wipes NIOSH 7082						
Soil EPA 3050/7420						
Air NIOSH 7082						
TTLIC (Ceramic Tile)	N/A					

OTHER SAMPLES	3 Hour	6 Hour	24 Hour	48 Hour	72 Hour	5 Day
---------------	--------	--------	---------	---------	---------	-------

Client Sample Number: L-01 - L-35 Total: 35
Relinquished: [Signature] Date: Jun 7, 2000 Time: 4:11 PM
Received: [Signature] Date: 1/7/2000 Time: 4:15 P
Relinquished: _____ Date: _____ Time: _____
Received: _____ Date: _____ Time: _____

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: _____

Notes: _____



Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: Robert Williams
Results: Email to labs@atechinc.net

Project Name & Number: 192661 - HDR 1-15 Project Inside/Outside Rail

Table with 7 columns: ASBESTOS, 3 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

PLM-BULK

Table with 7 columns for PLM-BULK samples: EPA 600/R-93/116, EPA Point Count -400, EPA Point Count-1000

TEM-MICRO VAC

Table with 7 columns for TEM-MICRO VAC: Qualitative (Pos/Neg), Quantitative ASTM

PCM-AIR

Table with 7 columns for PCM-AIR: NIOSH 7400 (A) Issue 2: August 1994, OSHA w/TWA

PARTICULATES

Table with 7 columns for PARTICULATES: NIOSH 0500, NIOSH 0600

Table with 7 columns: LEAD, 3 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Table with 7 columns for LEAD samples: Chips EPA 3050/7420, Wipes NIOSH 7082, Soil EPA 3050/7420, Air NIOSH 7082, TTLC (Ceramic Tile)

Table with 7 columns: OTHER SAMPLES, 3 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Client Sample Number: L 36 - L 56 Total: 21

Relinquished: [Signature] Date: Jan 8, 2019 Time: 4:18 PM
Received: Ryan [Signature] Date: 1/8/20 Time: 4:20 PM

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: ___

Notes: ___



Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: Robert Williams
Results: Email to labs@atechinc.net

Project Name & Number: 192661 - HDR HS Project Inside/Outside Pil

Table with 7 columns: ASBESTOS, 3 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

PLM-BULK

Table with 7 columns for PLM-Bulk tests: EPA 600/R-93/116, EPA Point Count -400, EPA Point Count-1000

TEM-MICRO VAC

Table with 7 columns for TEM-Micro Vac tests: Qualitative (Pos/Neg), Quantitative ASTM

PCM-AIR

Table with 7 columns for PCM-Air tests: NIOSH 7400 (A) Issue 2: August 1994, OSHA w/TWA

PARTICULATES

Table with 7 columns for Particulates tests: NIOSH 0500, NIOSH 0600

Table with 7 columns: LEAD, 3 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Table with 7 columns for Lead tests: Chips EPA 3050/7420, Wipes NIOSH 7082, Soil EPA 3050/7420, Air NIOSH 7082, TTLC (Ceramic Tile)

Table with 7 columns: OTHER SAMPLES, 3 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Client Sample Number: L-57 - L-74 Total: 18

Relinquished: [Signature] Date: Jan 9, 2020 Time: 4:17 PM
Received: [Signature] Date: 1/9/20 Time: 4:15 PM

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: ___
Notes: ___



Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: Robert Williams
Results: Email to labs@atechinc.net

Project Name & Number: 192661 HDR 1-15 Project Inside/Outside Rail

ASBESTOS 3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 5 Day

PLM-BULK

Table with 7 columns for PLM-Bulk tests: EPA 600/R-93/116, EPA Point Count -400, EPA Point Count-1000

TEM-MICRO VAC

Table with 7 columns for TEM-Micro Vac tests: Qualitative (Pos/Neg), Quantitative ASTM

PCM-AIR

Table with 7 columns for PCM-Air tests: NIOSH 7400 (A) Issue 2: August 1994, OSHA w/TWA

PARTICULATES

Table with 7 columns for Particulates tests: NIOSH 0500, NIOSH 0600

LEAD 3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 5 Day

Table with 7 columns for Lead tests: Chips EPA 3050/7420, Wipes NIOSH 7082, Soil EPA 3050/7420, Air NIOSH 7082, TTLC (Ceramic Tile)

OTHER SAMPLES 3 Hour 6 Hour 24 Hour 48 Hour 72 Hour 5 Day

Client Sample Number: L-75 - L-95 Total: 21

Relinquished: [Signature] Date: Jan 10, 2000 Time: 3:33 PM
Received: [Signature] Date: 11/01/20 Time: 3:35 PM

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: ___

Notes: ___



A-Tech Consulting, Inc.

2001826

Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 221-6360
Fax Number: (714) 221-6360
Attn: A-Tech Office
Results: Email to labs@atechinc.net

Project Name & Number: 192661-HDR 1-15 Project Inside/Outside Rail

Table with 9 columns: ASBESTOS, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

PLM-BULK

Table with 9 columns for PLM-BULK: EPA 600/R-93/116, EPA Point Count -400, EPA Point Count-1000

TEM-MICRO VAC

Table with 9 columns for TEM-MICRO VAC: Qualitative (Pos/Neg), Quantitative ASTM

PCM-AIR

Table with 9 columns for PCM-AIR: NIOSH 7400 (A) Issue 2: August 1994, OSHA w/TWA

PARTICULATES

Table with 9 columns for PARTICULATES: NIOSH 0500 (3005), NIOSH 0600 (3005.1)

Table with 9 columns: LEAD, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Table with 9 columns for LEAD: Chips EPA 3050/7420, Wipes NIOSH 7082, Soil EPA 3050/7420, Air NIOSH 7082, TTLC (Ceramic Tile)

Table with 9 columns: OTHER SAMPLES, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Client Sample Number: L-96 - 1111 Total: 16

Relinquished: [Signature] Date: Feb 6, 2020 Time: 1:00 AM
Received: [Signature] Date: [] Time: []
Relinquished: [Signature] Date: [] Time: []
Received: [Signature] Date: 2/6/20 Time: 12:00 PM

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: ___

Notes: ___



Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 221-6360
Fax Number: (714) 221-6360
Attn: A-Tech Office
Results: Email to labs@atechinc.net

Project Name & Number: 192661-HDR 1-15 Project Inside/Outside Rail

Table with columns: ASBESTOS, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

PLM-BULK

Table with columns: EPA 600/R-93/116, EPA Point Count -400, EPA Point Count-1000

TEM-MICRO VAC

Table with columns: Qualitative (Pos/Neg), Quantitative ASTM, N/A

PCM-AIR

Table with columns: NIOSH 7400 (A) Issue 2: August 1994, OSHA w/TWA

PARTICULATES

Table with columns: NIOSH 0500 (3005), NIOSH 0600 (3005.1), N/A

Table with columns: LEAD, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Table with columns: Chips EPA 3050/7420, Wipes NIOSH 7082, Soil EPA 3050/7420, Air NIOSH 7082, TTLC (Ceramic Tile), N/A

Table with columns: OTHER SAMPLES, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Client Sample Number: 295 - 2111 Total: 17

Relinquished: [Signature] Date: Feb 8, 2020 Time: 1:00 PM
Received: [Signature] Date: 2/6/20 Time: 12:10 PM

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: ___
Notes: ___



Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: A-Tech Office
Results: Email to labs@atechinc.net

Project Name & Number: 192661-1 HDR-1-15 Project Inside/Outside Rail

Table with columns: ASBESTOS, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

PLM-BULK

Table with rows: EPA 600/R-93/116, EPA Point Count -400, EPA Point Count-1000

TEM-MICRO VAC

Table with rows: Qualitative (Pos/Neg), Quantitative ASTM

PCM-AIR

Table with rows: NIOSH 7400 (A) Issue 2: August 1994, OSHA w/TWA

PARTICULATES

Table with rows: NIOSH 0500 (3005), NIOSH 0600 (3005.1)

Table with columns: LEAD, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Table with rows: Chips EPA 3050/7420, Wipes NIOSH 7082, Soil EPA 3050/7420, Air NIOSH 7082, TTLC (Ceramic Tile)

Table with columns: OTHER SAMPLES, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Client Sample Number: L112 - L-131 Total: 20

Relinquished: [Signature] Date: Feb 12, 2020 Time: 9:00 AM
Received: Date: Time:
Relinquished: Date: Time:
Received: Date: Time:

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: ___

Notes: ___



Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number: (714) 434-6360
Fax Number: (714) 221-6360
Attn: A-Tech Office
Results: Email to labs@atechinc.net

Project Name & Number: 192661-HDR 1-15 Project Inside/Outside Per 1

Table with 9 columns: ASBESTOS, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

PLM-BULK

Table with 9 columns for PLM-Bulk tests: EPA 600/R-93/116, EPA Point Count -400, EPA Point Count-1000

TEM-MICRO VAC

Table with 9 columns for TEM-Micro Vac tests: Qualitative (Pos/Neg), Quantitative ASTM

PCM-AIR

Table with 9 columns for PCM-Air tests: NIOSH 7400 (A) Issue 2: August 1994, OSHA w/TWA

PARTICULATES

Table with 9 columns for Particulates tests: NIOSH 0500 (3005), NIOSH 0600 (3005.1)

Table with 9 columns: LEAD, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Table with 9 columns for Lead tests: Chips EPA 3050/7420, Wipes NIOSH 7082, Soil EPA 3050/7420, Air NIOSH 7082, TTLC (Ceramic Tile)

Table with 9 columns: OTHER SAMPLES, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Client Sample Number: L132 . L174 176 Total: 48 45

Relinquished: [Signature] Date: 2/14/2020 Time: 11:00am
Received: Paul Westerhold Date: 2/14/2020 Time: 11:46 am

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: ___

Notes: ___



A-Tech Consulting, Inc.

2002303

Company: A-Tech Consulting, Inc.
Address: 1748 W. Katella Avenue, Suite 112
City: Orange
State: CA Zip Code: 92867

Phone Number:
Fax Number: (714) 221-6360
Attn: A-Tech Office
Results: Email to labs@atechinc.net

Project Name & Number: 192661-1+DR 1-B Project Inside/Outside Rail

Table with columns: ASBESTOS, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

PLM-BULK

Table with rows: EPA 600/R-93/116, EPA Point Count -400, EPA Point Count-1000

TEM-MICRO VAC

Table with rows: Qualitative (Pos/Neg), Quantitative ASTM

PCM-AIR

Table with rows: NIOSH 7400 (A) Issue 2: August 1994, OSHA w/TWA

PARTICULATES

Table with rows: NIOSH 0500 (3005), NIOSH 0600 (3005.1)

Table with columns: LEAD, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Table with rows: Chips EPA 3050/7420, Wipes NIOSH 7082, Soil EPA 3050/7420, Air NIOSH 7082, TTLC (Ceramic Tile)

Table with columns: OTHER SAMPLES, 2 Hour, 3 Hour, 4 Hour, 6 Hour, 24 Hour, 48 Hour, 72 Hour, 5 Day

Client Sample Number: C176 C-226 Total: 51

Relinquished: [Signature] Date: Feb 18, 2002 Time: 8:00 PM
Received: [Signature] Date: 2/19/02 Time: 8:30 AM
Relinquished: Date: Time:
Received: Date: Time:

Fed Ex Yes ___ Date Sent ___ No ___ Laboratory: ___
Notes: ___

Appendix I:

CDPH 8552 Form

LEAD HAZARD EVALUATION REPORT

Section 1 – Date of Lead Hazard Evaluation

Section 2 – Type of Lead Hazard Evaluation (Check one box only)

Lead Inspection
 Risk assessment
 Clearance Inspection
 Other (specify)

Section 3 – Structure Where Lead Hazard Evaluation Was Conducted

Address [number, street, apartment (if applicable)]		City	County	Zip Code
Construction date (year) of structure	Type of structure		Children living in structure?	
	<input type="checkbox"/> Multi-unit building <input type="checkbox"/> School or daycare <input type="checkbox"/> Single family dwelling <input type="checkbox"/> Other 		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Don't Know	


Section 4 – Owner of Structure (if business/agency, list contact person)

Name		Telephone number		
Address [number, street, apartment (if applicable)]		City	State	Zip Code

Section 5 – Results of Lead Hazard Evaluation (check all that apply)

No lead-based paint detected
 Intact lead-based paint detected
 Deteriorated lead-based paint detected
 No lead hazards detected
 Lead-contaminated dust found
 Lead-contaminated soil found
 Other

Section 6 – Individual Conducting Lead Hazard Evaluation

Name		Telephone number		
Address [number, street, apartment (if applicable)]		City	State	Zip Code
CDPH certification number	Signature		Date	
				

Name and CDPH certification number of any other individuals conducting sampling or testing (if applicable)

Section 7 – Attachments

- A. A foundation diagram or sketch of the structure indicating the specific locations of each lead hazard or presence of lead-based paint;
- B. Each testing method, device, and sampling procedure used;
- C. All data collected, including quality control data, laboratory results, including laboratory name, address, and phone number.

First copy and attachments retained by inspector
 Second copy and attachments retained by owner

Third copy only (no attachments) mailed or faxed to:
 California Department of Public Health
 Childhood Lead Poisoning Prevention Branch Reports
 850 Marina Bay Parkway, Building P, Third Floor
 Richmond, CA 94804-6403
 Fax: (510) 620-5656