PRELIMINARY SITE INVESTIGATION
ASBESTOS AND LEAD-BASED PAINT SURVEY
CENTENNIAL CORRIDOR PROJECT
BAKERSFIELD, CALIFORNIA

06-48460
KER-58 (PM T31.7/R55.6)
KER-99 (PM 21.2/26.2)

January 6, 2015
Group Delta Project No. EN047

GROUP DELTA

January 6, 2015

Parsons Corporation
3200 East Guasti Road, Suite 200
Ontario, California 91761

Attention: Mr. James Santos,

Subject: Preliminary Site Investigation - Asbestos and Lead-Based Paint Survey
Centennial Corridor Project
Bakersfield, California

Dear Mr. Santos:

Group Delta Consultants, Inc. (GDC) is pleased to submit this Asbestos and Lead-based Paint Survey Report for the Centennial Corridor Project in Bakersfield, California. The purpose of the survey and this report is provide locations and approximate quantities of asbestos-containing materials (ACMs), asbestos-containing construction materials (ACCMs), lead-based paint (LBP), and lead-containing surface coatings (LCSCs) on the Kern River Bridge, Truxtun Avenue Undercrossing, Westbound State Route 58 over State Route 99, South P Street Undercrossing, Madison Street Undercrossing, Bakersfield Corral Overhead, and Belle Terrace Avenue Overcrossing in Bakersfield, California.

We appreciate your selection of GDC for this project and look forward to assisting you further on this and other projects. If you have any questions, please do not hesitate to contact us.

Sincerely,
GROUP DELTA CONSULTANTS, INC.

Steve Pitts, CAC, CDPH
Senior Project Manager

Jack Packwood
Senior Project Manager

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1.0 INTRODUCTION

1.1 Project Description

The City of Bakersfield in cooperation with Caltrans are proposing the Centennial Corridor Project (Project) in Bakersfield, California. The Project proposes to construct a new alignment for State Route 58 (SR-58) to provide a continuous route along SR-58 from Cottonwood Road (post mile R55.6) on existing SR-58 (East), east of State Route 99 (SR-99) to Interstate 5 (I-5) (post mile T31.7). Improvements to SR-99 from Wilson Road (post mile 21.2) to Gilmore Avenue (post mile 26.2) would also be required for the connection with SR-58.

Because the proposed Project will either alter or demolish bridges along the SR-58 and SR-99, there is the potential for disturbance of asbestos-containing materials (ACMs) and lead-based paint (LBP). Therefore, an Asbestos and Lead-based Paint Survey was conducted. Suspect ACMs and LBPs were sampled and quantified for the purposes of preparing appropriate Project specifications and identifying the requirements for management and disposal of these materials.

1.2 Locations of the Sites

Table 1 lists the structures, subject to alteration and demolition:

Table A – Structure List

Site No.	Name	Bridge Number
1	Kern River Bridge	NA
2	Truxtun Avenue UC	50C-0358
3	Westbound SR-58 over SR-99	50-0426L
4	South P Street UC	50-0405R/L
5	Madison Street UC	50-0407R/L
6	Bakersfield Corral OH	50-0383R/L
7	Belle Terrace Avenue OC	50-0263

OC – Overcrossing
OH – Overhead
UC – Undercrossing

The locations of these structures are shown on Figure 1.

2.0 SCOPE OF WORK

Group Delta Consultants (GDC's) authorized scope of work for the project is as follows:

1. Perform an asbestos survey at the site in accordance with the approved Work Plan and local, State, and Federal standards. Conduct a visual inspection, collection, and analysis of bulk samples from suspected ACM. Analyze by Polarized Light Microscopy (PLM) and quantify the materials determined to be ACMs and asbestos-containing construction materials (ACCMs).

2. Perform lead testing at the site for the determination of the presence of lead-based paint (LBP) and lead-containing surface coatings (LCSC). The testing was conducted through the use of bulk paint chip samples.

3. Preparation of an asbestos and lead-based survey report.

3.0 FIELD INVESTIGATION

3.1 Asbestos Sampling and Analytical Data

Asbestos – Sampling

The survey was conducted from November 17 to 19, 2014, by Jerry Sherman and Steve Pitts. A total of 40 bulk samples were collected for asbestos analysis. Mr. Sherman and Mr. Pitts are California Occupational Safety and Health Administration (Cal/OSHA)-Certified Asbestos Consultants (CAC). Copies of certifications are provided as Appendix A.

Visual identification of suspect ACMs and ACCMs was performed by entering representative areas and assessing accessible structural, architectural, and mechanical components for the presence of suspect ACMs or ACCMs. Previous asbestos survey reports, analytical data, and as-built drawings were not available or reviewed as part of this survey. Each suspect ACM or ACCM identified was sampled in accordance with sampling guidelines established by the Asbestos Hazard Emergency Response Act (AHERA) and the United States Environmental Protection Agency (USEPA), and Title 8 of the California Code of Regulations (CCR) 1529. The following summarizes the sampling procedures utilized:

1. The location and total quantity of each ACM and ACCM was tabulated.

2. These materials were then categorized into homogeneous materials. A homogeneous material is defined as being uniform in texture, color, and date of application.

3. A sampling scheme was developed based upon the location and quantity of the various homogeneous materials.

4. Bulk samples were collected by trained personnel using an appropriate sampling tool and a leak-tight container.

5. Decontamination of bulk sampling tools was conducted to prevent the spread of secondary contamination to subsequent bulk samples.

6. Each bulk sample was individually numbered and recorded on a Bulk Sample Log.

7. A Chain-of-Custody Record was maintained and submitted with the samples to the laboratory.

Asbestos - Analytical Methodology

All bulk samples were analyzed by EMSL Analytical, Inc., located at 7916 Convoy Court, Building 4, Suite A, San Diego, California. EMSL Analytical, Inc. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP), the National Institute of Standards and Technology (NIST) and is a successful participant in the Proficiency Analytical Testing Program (PAT). Laboratory analytical reports are provided as Appendix B.

All bulk samples were analyzed by Polarized Light Microscopy (PLM) utilizing dispersion staining techniques in accordance with the EPA Method: "Method for the Determination of Asbestos in Bulk Building Materials U.S. EPA/600/R-93/116" dated July 1993, and adopted by the National Voluntary Laboratory Accreditation Program (NVLAP), NVLAP Test Method Code 18/A01, as affiliated with the National Institute for Standards and Technology (NIST). Each sample was subjected to two microscopy examinations.

The first examination was performed at 20X magnification using a stereo microscope equipped with an external illuminator. Each sample was examined for layering, homogeneity, and the presence of fibrous and non-fibrous materials. An estimate of the percentage for each sample component, relative to the entire sample volume, was made. When discrete strata are identified as a separate material, fibers are first identified and quantified by layer and then the results are combined to yield an estimate of total percent asbestos present.

The second examination was performed at a range from of 100X to 400X magnification using a Polarized Light Microscope equipped with two polarizing filters to observe specific optical characteristics. The use of polarized light allows the determination of refractive indices along specific crystallographic axes. Morphology and color were also observed. A retardation plate was placed at a 45 degree angle between the cross polars to determine the sign of elongation using orthoscopic illumination. Orientation of the two filters such that their vibration planes were perpendicular allowed observation of the birefringence and extinction characteristics of anisotropic particles. Additional PLM 1,000 point count method sample analysis was conducted on sample A-09, the only sample in which asbestos was detected.

The USEPA defines ACMs as materials found to contain 1% or greater of asbestos. Cal/OSHA defines ACCMs as containing 0.1% or greater, but less than 1% of asbestos by PLM. For a building material to be considered non-asbestos containing in the State of California, no asbestos can be detected in any of the samples collected of the building material from a site.

Asbestos - Results

Asbestos was detected in one sample, A-09, collected from the Truxtun Avenue UC (Table B). Additional PLM 1,000 point count method sample analysis was conducted on sample A-09 in accordance with the Work Plan. The reported sample result was 0.10% non-friable asbestos.

This material is considered an ACCM. Representative photographs of the identified ACCM are provided in Appendix C.

Table B Detected ACCM					
Sample ID	Location	Color, Substrate, Component	Approx. Quantity	Method/Concentration	Determination
A-09	Truxtun Avenue UC	White Bolt Sealant at Rail Base	40 SF	PLM: <1% Point Count: 0.10%	ACCM

Friable asbestos is defined as an ACM (1% or greater) that can be reduced to dust under hand pressure when dry. The bolt sealant is not an ACM (<1%) and cannot be reduced to a dust; therefore, it is classified as non-friable ACCM. The removal of friable ACM on a project requires notification and compliance activities overseen by the San Joaquin Valley Unified Air Pollution Control District that do not apply to the ACCM identified at the Truxtun Avenue UC.

The following suspect materials were sampled and no asbestos was detected in the samples collected:

1. Asphalt roadway
2. Concrete roadway
3. Bridge truss concrete
4. Bridge column concrete
5. Bridge freeway wall concrete
6. Bridge under slope concrete
7. Expansion joint felt
8. Under bridge seam mastic
9. Reflector mastic
10. Roadway seam mastic

The results are summarized in Table 1.

3.2 Lead Sampling and Analytical Data

Lead – Sampling

A total of 13 bulk samples for the determination of lead content were collected from the bridge structure for lead analysis from November 17 to 19, 2014, by Jerry Sherman and Steve Pitts. Mr. Sherman and Mr. Pitts are California Department of Public Health (CDPH)-Certified Lead-Related Inspector/Risk Assessors and Mr. Pitts is a CDPH-Certified Project Monitor. Copies of certifications are provided as Appendix A.

Lead – Analytical Methodology

All bulk paint chip samples will be tested for total lead content by USEPA Test Method 6010B. Samples were analyzed by a certified independent laboratory, BC Labs located in Bakersfield, California. Laboratory analytical reports are provided as Appendix B.

For purposes of this survey, and in accordance with Title 8 of the California Code of Regulations, Section 1532.1 (8 CCR 1532.1) and Title 17 of the California Code of Regulations, Section 35001 et. seq. the laboratory analytical results were interpreted as follows:

1. Positive results (LBPs present) were confirmed when analytical results revealed a lead concentration of 5,000 milligrams per kilogram (mg/kg) or greater.

2. LCSCs were confirmed when analytical results revealed a lead concentration of 600 mg/kg or greater, up to 5,000 mg/kg.

3. Negative results were confirmed when analytical results revealed a lead concentration of less than 600 mg/kg

In addition, waste materials with total lead concentrations equal or greater than the California Total Threshold Limit Concentration (TTLC) of 1,000 mg/kg lead or with soluble lead concentrations in excess of the California Soluble Threshold Limit Concentration (STLC) of 5 milligrams per liter (mg/l) are considered California non-Resource Conservation and Recovery Act (non-RCRA) hazardous waste. Waste materials with soluble lead concentrations in excess of the Federal Toxicity Characteristic Leaching Procedure (TCLP) threshold of 5 milligrams per liter (mg/l) are considered Federal RCRA hazardous waste.

Lead – Results

The analytical results indicate that bridge components and respective surface coatings at the subject site bridges have elevated lead concentrations in accordance with Title 17 of the California Code of Regulations, Section 35001 et. seq. LBP was found in yellow roadway striping located at Kern Valley Bridge and LCSC was found in yellow roadway striping located at the Westbound SR-58 over SR-99 Bridge (Table C). Representative photographs of the identified LBP/LCSC are provided in Appendix C.

Table C Positive LBP/LCSC					
Sample ID	Location	Color, Substrate, Component	Total Lead Concentration	TCLP Concentration	Determination
L-4	Kern Valley Bridge	Yellow Striping on Asphalt/Concrete	5,400 mg/kg	1.9 mg/L	LBP/ CA Non-RCRA Hazardous
L-7	Westbound SR-58 over SR-99	Yellow Striping on Asphalt/Concrete	3,100 mg/kg	1.4 mg/L	LCSC/ CA Non-RCRA Hazardous

The following materials were sampled and are not considered LBP or LCSC:

1. Graffiti and cover paint
2. White roadway striping
3. Grey cover paint
4. Green Paint on concrete bridge truss

The results are summarized in Table 2.

Based on CCR Title 22, waste materials with total lead concentrations equal to or greater than 1,000 mg/kg are considered hazardous waste. If removed, the paint identified as LBP and LCSC above would be considered a California Non-RCRA Hazardous Waste. TCLP concentrations were less than 5 mg/L; therefore, no Federal RCRA Hazardous Waste would be generated on the Project from lead containing paint.

LBP and LCSC identified during the survey were generally intact and not deteriorating. The Department of Toxic Substance Control (DTSC) has issued guidance indicating that architectural debris with intact lead paint is normally expected to be handled as general construction waste. However, because the LBP/LCSC striping will either be removed in advance of pavement construction or incorporated into asphalt grindings, the removal of intact paint is not possible.

4.0 CONCLUSIONS AND RECOMENDATIONS

4.1 Asbestos Survey

Asbestos was not detected above 1% on any of the structures. However, the results of the asbestos survey indicate that ACCMs are present on the Truxtun Avenue UC, in the railing bolt sealant, which may be impacted by construction activities and summarized in Table B.

At no time should the identified ACCMs be drilled, cut, sanded, scraped or otherwise disturbed by untrained personnel. These materials should be removed prior to any activities which will impact these materials. Asbestos disturbance and/or removal operations must be conducted by a Cal/OSHA-registered and State licensed asbestos removal contractor. Disturbance and/or abatement operations should be performed under the direct observation of a California CAC.

Construction activities involving the potential for impacting ACCMs should be conducted in accordance with the requirements of Title 8 of the California Code of Regulations, Section 1529 (8 CCR 1529).

For abatement activities which will involve asbestos-related work of at least 100 square or linear feet, written notification must be made to the Cal/OSHA. Notification to the Cal/OSHA must be accomplished 24 hours prior to the initiation of such activities.

Notification to employees and contractors working on the bridge should be made in accordance with the California Health and Safety Code, Section 25915 et. seq. and Proposition 65.

4.2 Lead Survey

The lead testing results revealed that LBP was found in yellow roadway striping at the Kern Valley River Bridge and may be impacted by the proposed bridge replacement or retrofit. LCSC was found in yellow roadway striping at the Westbound SR-58 over SR-99 and may be impacted by the proposed bridge replacement or retrofit and summarized in Table C. Lead concentrations at these two locations exceeded thresholds for LBP/LCSC and the TTLC, but TCLPs were below 5 mg/L. Therefore, if removed, paint would be considered a non-RCRA hazardous waste.

There is no current state or federal regulation requiring mandatory lead removal or abatement prior to disturbance or demolition of structures with identified lead materials. However, there are applicable Cal/OSHA worker protection and training requirements; California Environmental Protection Agency (Cal/EPA) waste disposal requirements, California Department of Public Health (CDPH) requirements for public and residential buildings, and Senate Bill (SB) 460 lead hazard regulations that apply to lead-related construction activities, abatement activities and their associated wastes.

Written notification to Cal/OSHA must be accomplished should LBP activities involve more than 100 square or linear feet of removal in accordance with the requirements of 8 CCR 1532.1. Proper written notification to CDPH may be required, depending upon the nature of the activity.

Proper waste characterization and disposal of lead-containing materials and lead-contaminated debris should be conducted in accordance with Title 22 of the California Code of Regulations and the California Health and Safety Code, Section 25157.8.

Tables

Table 1
Asbestos Results
Centennial Corridor Project
Preliminary Site Investigation

Bridge	Sample ID	Material / Location	Concentration	Determination
Kern River Bridge	A-01	Gray Concrete / Bridge	No asbestos detected	Non-asbestos containing
	A-02	Gray Concrete / Bridge Support	No asbestos detected	Non-asbestos containing
	A-03	Black Washer / Guard Rail	No asbestos detected	Non-asbestos containing
	A-04	Dark Gray Expansion Joint / Bridge	No asbestos detected	Non-asbestos containing
	A-05	White / Drain Pipe	No asbestos detected	Non-asbestos containing
	A-06	Gray / Reflector Mastic	No asbestos detected	Non-asbestos containing
Truxton Avenue UC	A-07	Gray Concrete / Bridge	No asbestos detected	Non-asbestos containing
	A-08	Gray Concrete / Bridge Support	No asbestos detected	Non-asbestos containing
	A-09	**White Bolt Sealant / Rail Base**	**0.10% Chrysotile**	**Asbestos Containing Construction Material**
	A-10	Gray Drain Pipe / Beneath Bridge	No asbestos detected	Non-asbestos containing
	A-11	Brown Cardboard / Beneath Bridge	No asbestos detected	Non-asbestos containing
	A-12	White Styrofoam / Beneath Bridge	No asbestos detected	Non-asbestos containing
	A-13	Black Expansion Joint / Bridge	No asbestos detected	Non-asbestos containing
WB SR-58 over SR-99	A-14	Gray Concrete / Bridge	No asbestos detected	Non-asbestos containing
	A-15	Gray Concrete / Bridge Support	No asbestos detected	Non-asbestos containing
	A-16	Black Mastic / Bridge	No asbestos detected	Non-asbestos containing
	A-17	Gray Mastic / Bridge	No asbestos detected	Non-asbestos containing
	A-18	Black Asphalt / Bridge	No asbestos detected	Non-asbestos containing
	A-19	White Styrofoam / Beneath Bridge	No asbestos detected	Non-asbestos containing
South P Street UC	A-20	Gray Concrete / Bridge	No asbestos detected	Non-asbestos containing
	A-21	Gray Concrete / Bridge Support	No asbestos detected	Non-asbestos containing
	A-22	Black Expansion Joint / Bridge	No asbestos detected	Non-asbestos containing
	A-23	White Styrofoam / Beneath Bridge	No asbestos detected	Non-asbestos containing
Madison Street UC	A-24	Gray Concrete / Bridge	No asbestos detected	Non-asbestos containing
	A-25	Gray Mastic / Bridge	No asbestos detected	Non-asbestos containing
	A-26	Red Concrete / Swale	No asbestos detected	Non-asbestos containing
	A-27	Black Expansion Joint / Bridge	No asbestos detected	Non-asbestos containing
	A-28	White Styrofoam / Beneath Bridge	No asbestos detected	Non-asbestos containing
Bakersfield Corral OH	A-29	Gray Concrete / Bridge	No asbestos detected	Non-asbestos containing
	A-30	Gray Concrete / Bridge Support	No asbestos detected	Non-asbestos containing
	A-31	Red Concrete / Swale	No asbestos detected	Non-asbestos containing
	A-32	Black Expansion Joint Debris / Beneath Bridge	No asbestos detected	Non-asbestos containing
	A-33	White Styrofoam / Beneath Bridge	No asbestos detected	Non-asbestos containing
Belle Terrace Avenue OC	A-34	Gray Concrete / Bridge	No asbestos detected	Non-asbestos containing
	A-35	Gray Concrete / Bridge Support	No asbestos detected	Non-asbestos containing
	A-36	Black Asphalt / Bridge	No asbestos detected	Non-asbestos containing
	A-37	Black Reflector Mastic / Bridge	No asbestos detected	Non-asbestos containing
	A-38	Black Expansion Joint / Bridge	No asbestos detected	Non-asbestos containing
	A-39	Black Pipe Insulation / Beneath Bridge	No asbestos detected	Non-asbestos containing

Table 2
Lead Results
Centennial Corridor Project
Preliminary Site Investigation

Bridge	Sample ID	Color / Location	Total Concentration	STLC Concentration	TCLP Concentration	Determination
Kern River Bridge	L-1	Graffiti and Gray/ Beneath Bridge	8.1 mg/kg	NA	NA	Non-lead based paint
	L-2	Graffiti and Gray/ Beneath Bridge	22 mg/kg	NA	NA	Non-lead based paint
	L-3	White Striping / Bridge	3.8 mg/kg	NA	NA	Non-lead based paint
	L-4	**Yellow Striping / Bridge**	**5400 mg/kg**	**NA**	**1.9 mg/L**	**LBP / CA Non-RCRA Hazardous**
WB SR-58 over SR-99	L-5	Gray / Over Graffiti	23 mg/kg	NA	NA	Non-lead based paint
	L-6	White Striping / Bridge	26 mg/kg	NA	NA	Non-lead based paint
	L-7	**Yellow Striping / Bridge**	**3100 mg/kg**	**NA**	**1.4 mg/L**	**LCSC / CA Non-RCRA Hazardous**
South P Street UC	L-8	Gray / Over Graffiti	50 mg/kg	ND	NA	Non-lead based paint
Madison Street UC	L-9	Gray / Over Graffiti	65 mg/kg	0.46 mg/L	NA	Non-lead based paint
Bakersfield Corral OH	L-10	Graffiti and Gray/ Beneath Bridge	32 mg/kg	NA	NA	Non-lead based paint
Belle Terrace Avenue OC	L-11	White Arrow / Bridge	4.6 mg/kg	NA	NA	Non-lead based paint
	L-12	Yellow Striping / Bridge	4.9 mg/kg	NA	NA	Non-lead based paint
	L-13	Green / Bridge	8.4 mg/kg	NA	NA	Non-lead based paint

Notes:
mg/kg - milligrams per kilogram
mg/L - milligrams per liter
LBP - lead-based paint
LCSC - lead-containing surface coating
NA - not applicable
ND - not detected
RCRA - Resource Conservation and Recovery Act
STLC - Soluble Threshold Limit Concentration
TCLP - Toxicity Characteristic Leaching Procedure

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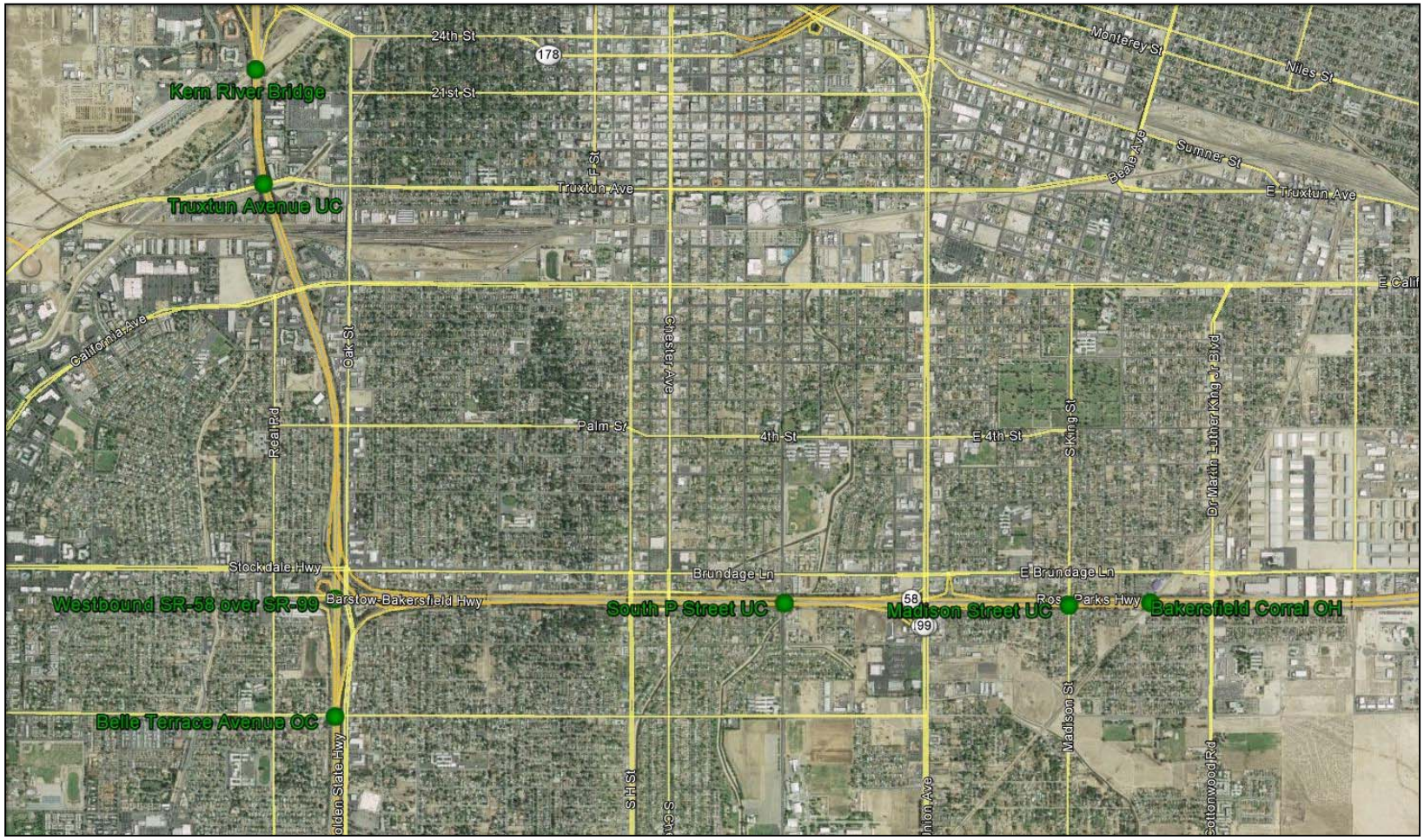
Figures



Reference: ***Google Earth***

OC – Overcrossing

UC - Undercrossing

N

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GDC Project No. EN047

Preliminary Site Investigation
Centennial Corridor
Bakersfield, California

Structure Location Map

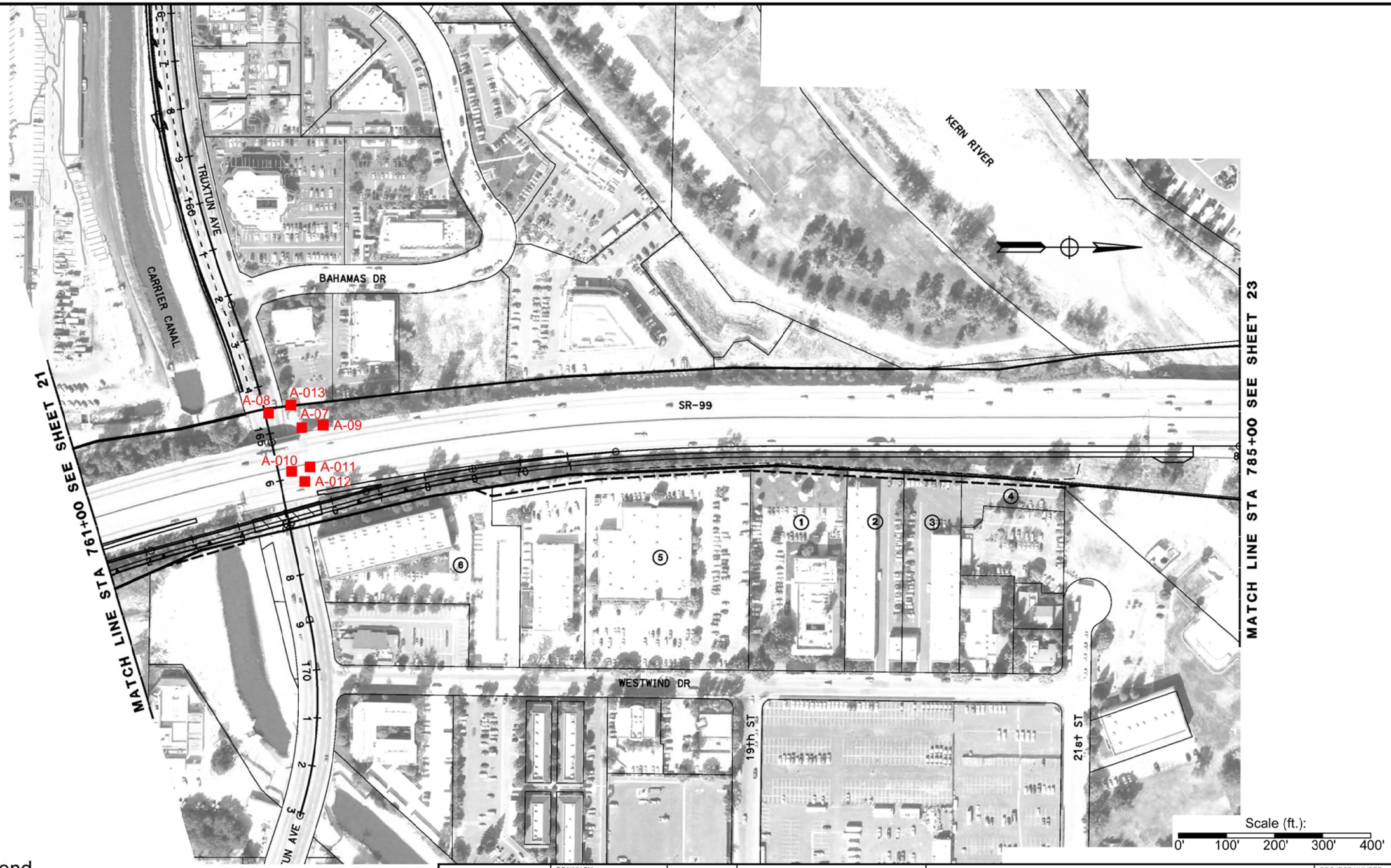
Figure 1

Legend

- ● L-1 Paint chip sample location
- ■ A-01 Bulk Asbestos sample location

DATE: 10/31/2014	DRAWN BY: KM	GROUP DELTA CONSULTANTS, INC 370 Amapola Ave. Suite 212 Torrance, CA. 90501	KERN RIVER BRIDGE
REVISION: 12/9/2014	APPROVED BY: JP		PRELIMINARY SITE INVESTIGATION CENTENNIAL CORRIDOR BAKERSFIELD, CA
REVISION: --			

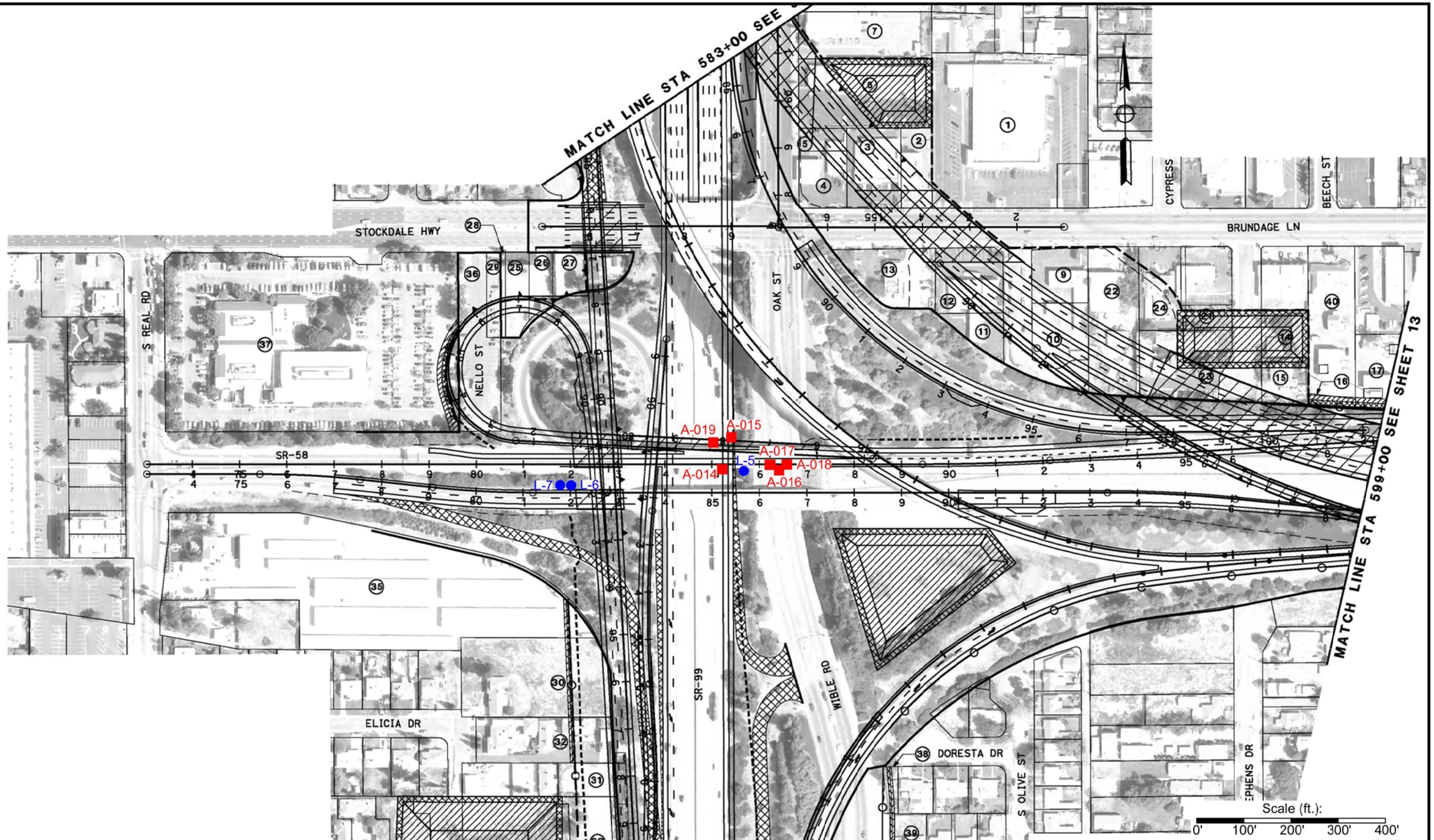
PROJECT NUMBER: EN047
SCALE: AS SHOWN
FIGURE NUMBER: 2a



Legend

- ● L-1 Paint chip sample location
- ■ A-01 Bulk Asbestos sample location

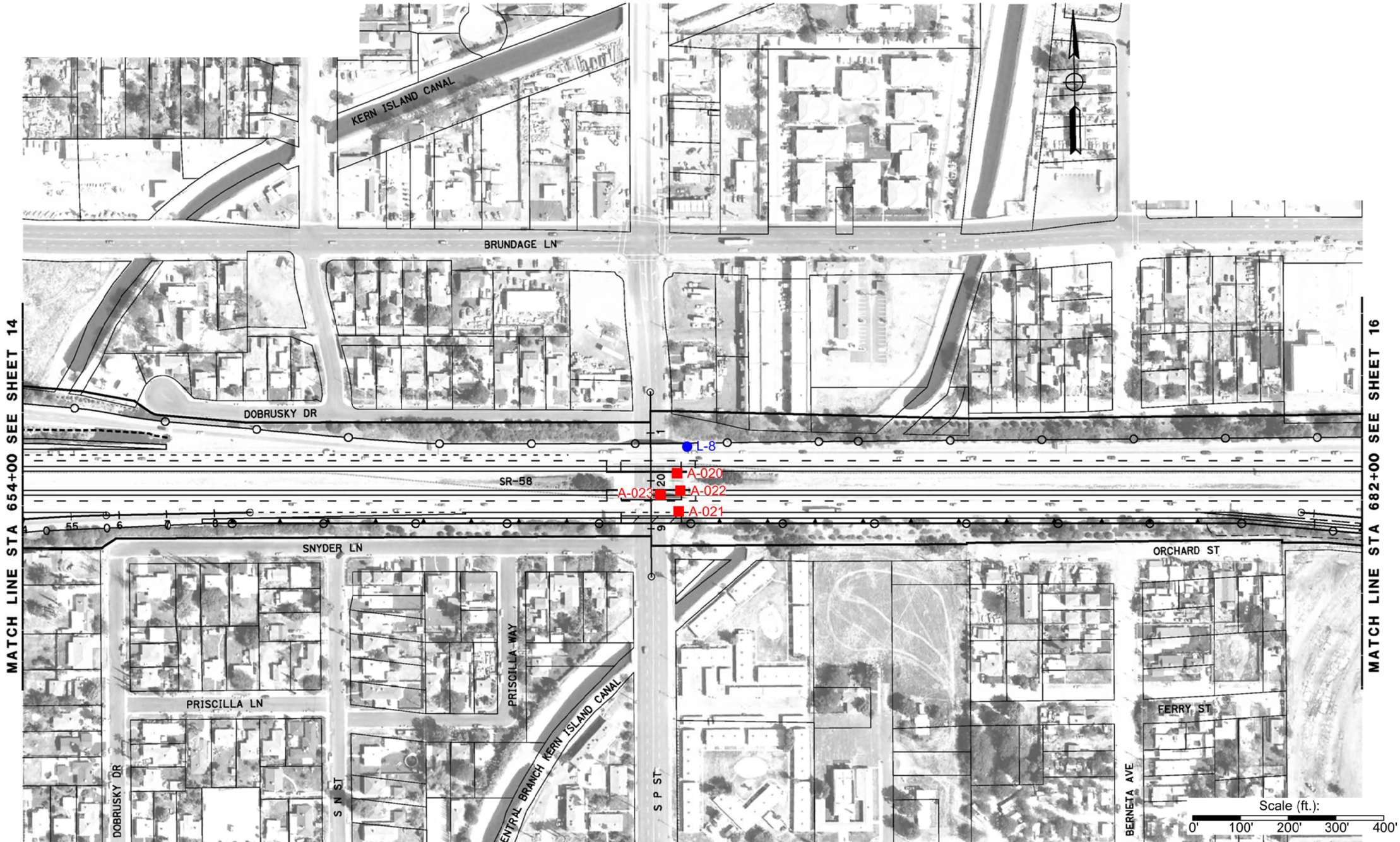
DATE: 10/31/2014	DRAWN BY: KM	GROUP DELTA CONSULTANTS, INC 370 Amapola Ave. Suite 212 Torrance, CA. 90501	TRUXTUN AVE UC
REVISION: 12/9/2014	APPROVED BY: JP		PRELIMINARY SITE INVESTIGATION CENTENNIAL CORRIDOR BAKERSFIELD, CA
REVISION: --			PROJECT NUMBER: EN047 SCALE: AS SHOWN FIGURE NUMBER: 2b



Legend

- ● L-1 Paint chip sample location
- ■ A-01 Bulk Asbestos sample location

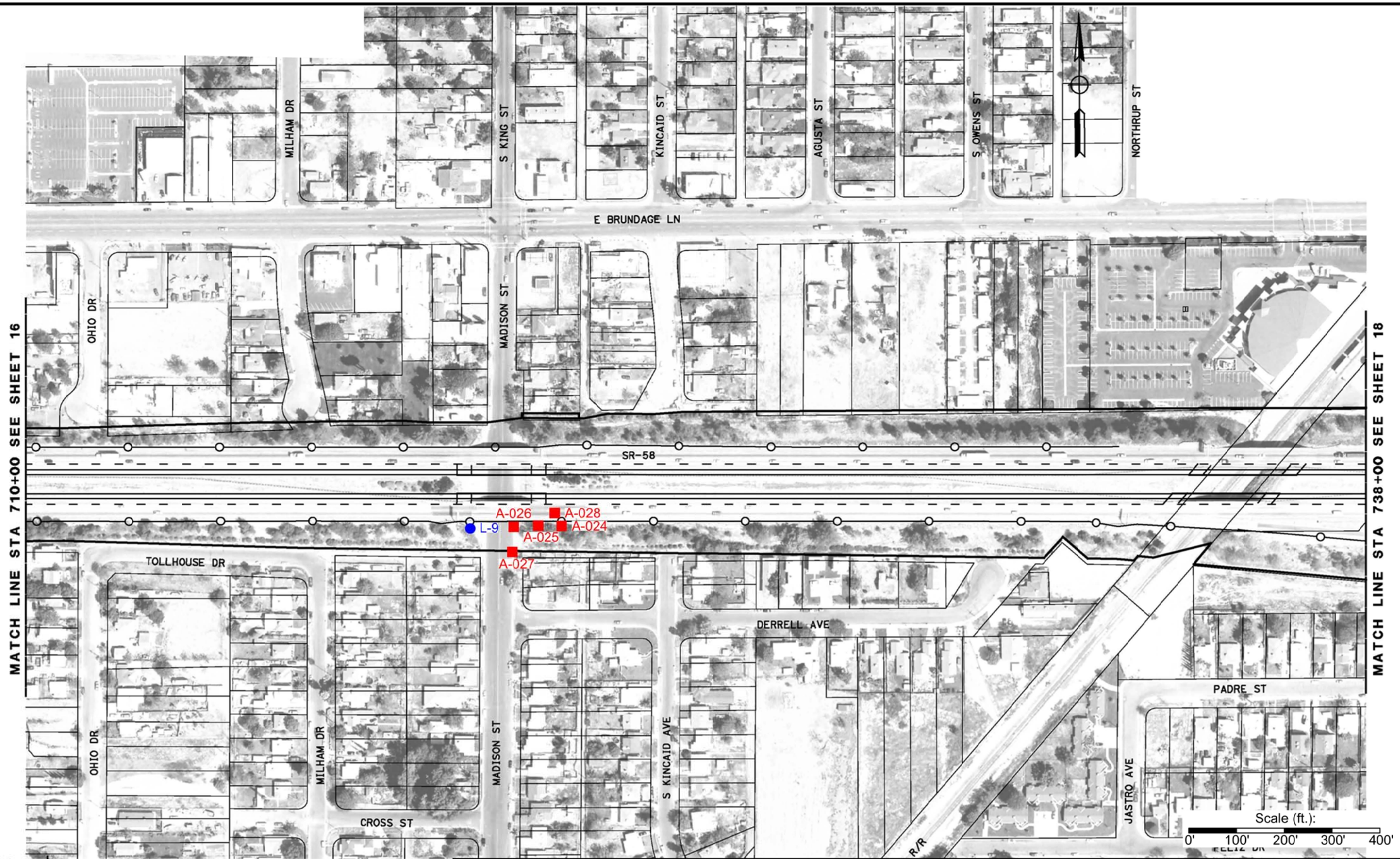
DATE: 10/31/2014	DRAWN BY: KM	GROUP DELTA CONSULTANTS, INC 370 Amapola Ave. Suite 212 Torrance, CA. 90501	WESTBOUND SR-58 OVER SR-99
REVISION: 12/9/2014	APPROVED BY: JP		PRELIMINARY SITE INVESTIGATION CENTENNIAL CORRIDOR BAKERSFIELD, CA
REVISION: --			PROJECT NUMBER: EN047 SCALE: AS SHOWN FIGURE NUMBER: 2c



Legend

- L-1 Paint chip sample location
- A-01 Bulk Asbestos sample location

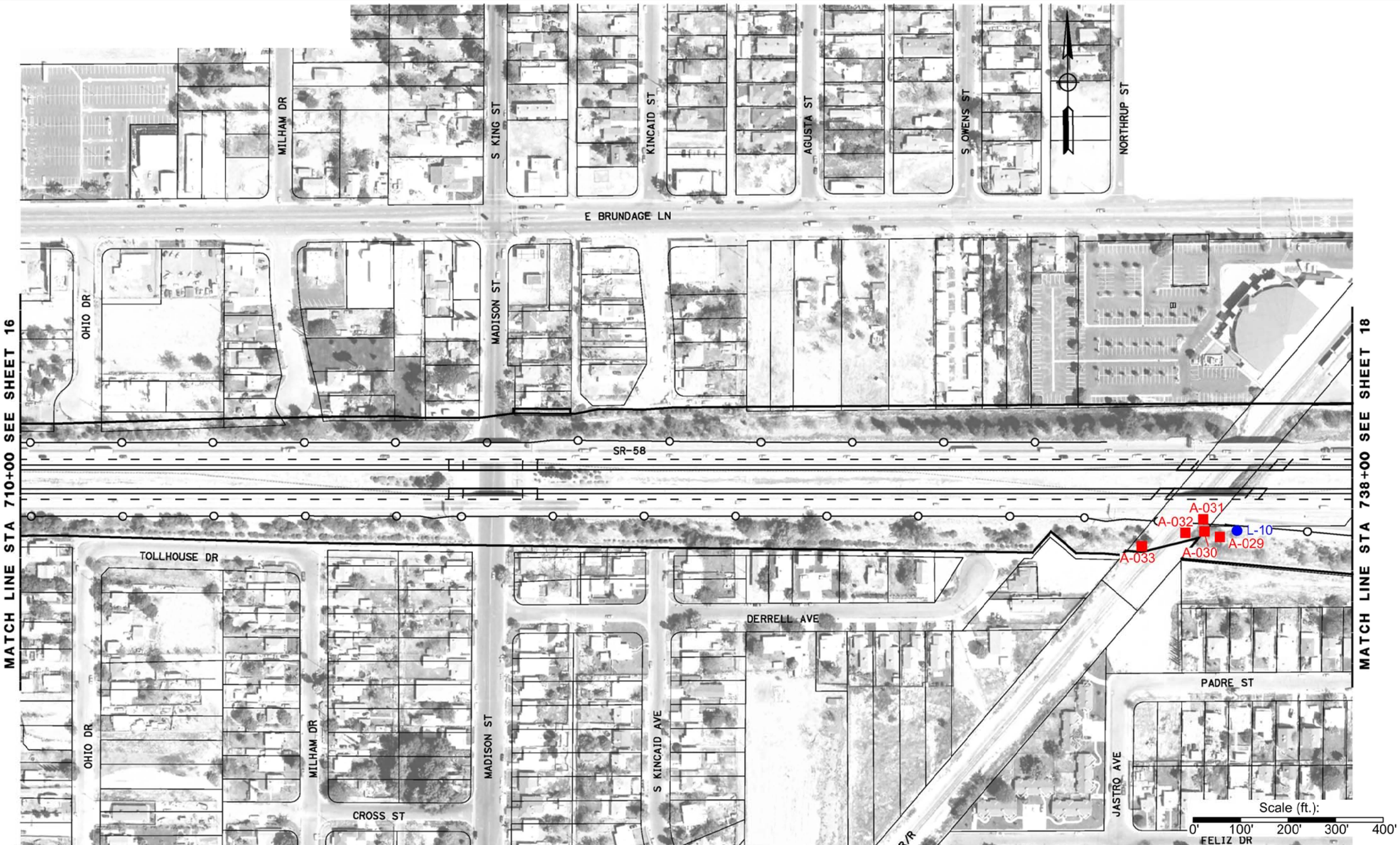
DATE: 10/31/2014	DRAWN BY: KM	GROUP DELTA CONSULTANTS, INC 370 Amapola Ave. Suite 212 Torrance, CA. 90501	SOUTH P ST
REVISION: 12/9/2014	APPROVED BY: JP		PRELIMINARY SITE INVESTIGATION CENTENNIAL CORRIDOR BAKERSFIELD, CA
REVISION: --			PROJECT NUMBER: EN047 SCALE: AS SHOWN FIGURE NUMBER: 2d



Legend

- L-1 Paint chip sample location
- A-01 Bulk Asbestos sample location

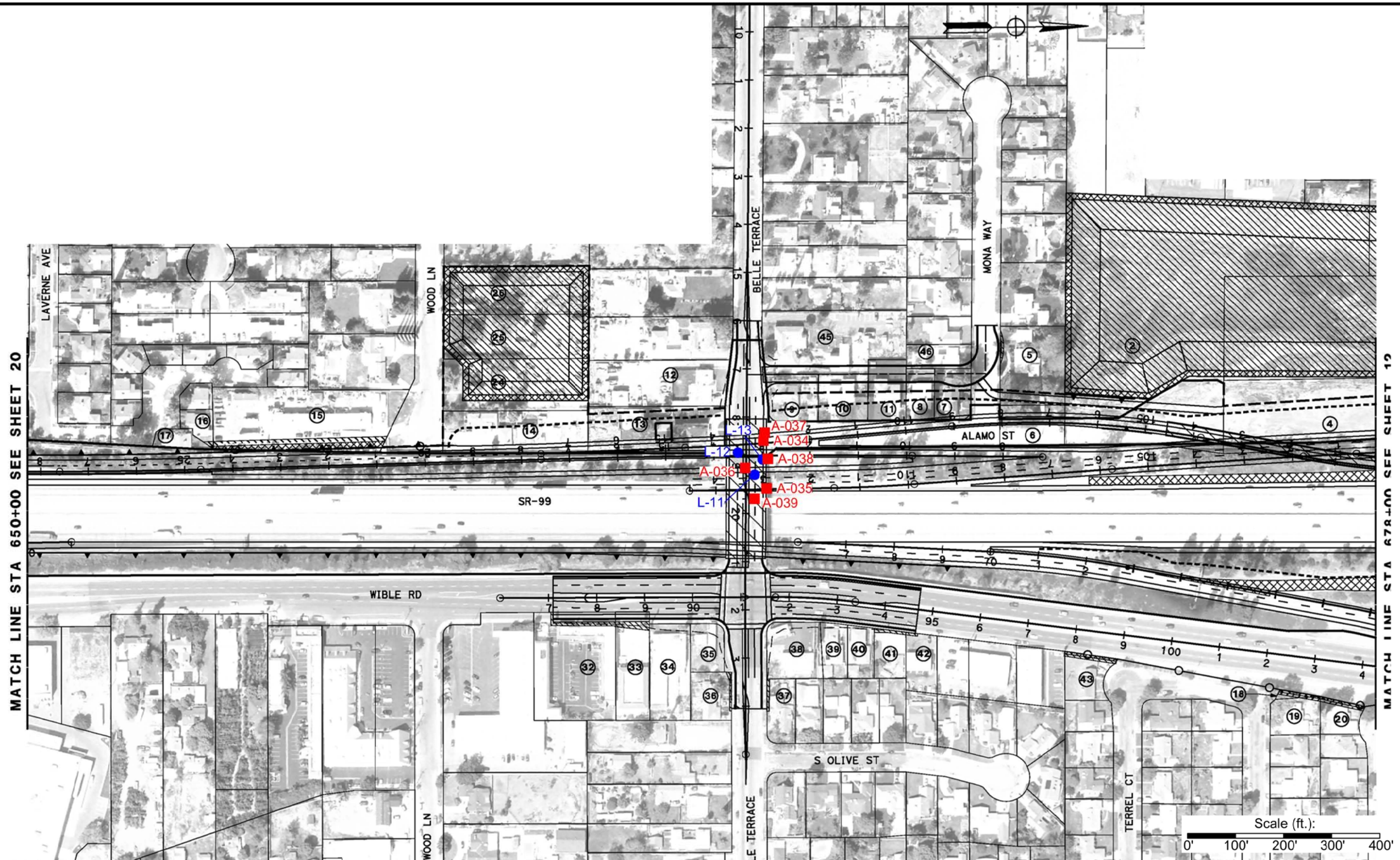
DATE: 10/31/2014	DRAWN BY: KM	GROUP DELTA CONSULTANTS, INC 370 Amapola Ave. Suite 212 Torrance, CA. 90501	MADISON ST UC PRELIMINARY SITE INVESTIGATION CENTENNIAL CORRIDOR BAKERSFIELD, CA
REVISION: 12/9/2014	APPROVED BY: JP		PROJECT NUMBER: EN047
REVISION: --			SCALE: AS SHOWN
			FIGURE NUMBER: 2e



Legend

- L-1 Paint chip sample location
- A-01 Bulk Asbestos sample location

DATE: 10/31/2014	DRAWN BY: KM	GROUP DELTA CONSULTANTS, INC 370 Amapola Ave. Suite 212 Torrance, CA. 90501	BAKERSFIELD CORRAL OH
REVISION: 12/9/2014	APPROVED BY: JP		PRELIMINARY SITE INVESTIGATION CENTENNIAL CORRIDOR BAKERSFIELD, CA
REVISION: --			PROJECT NUMBER: EN047 SCALE: AS SHOWN FIGURE NUMBER: 2f



Legend

- ● L-1 Paint chip sample location
- ■ A-01 Bulk Asbestos sample location

DATE: 10/31/2014	DRAWN BY: KM	GROUP DELTA CONSULTANTS, INC 370 Amapola Ave. Suite 212 Torrance, CA. 90501	BELLE TERRACE AVE OC
REVISION: 12/9/2014	APPROVED BY: JP		PRELIMINARY SITE INVESTIGATION CENTENNIAL CORRIDOR BAKERSFIELD, CA
REVISION: --			PROJECT NUMBER: EN047 SCALE: AS SHOWN FIGURE NUMBER: 2g

Appendix A

State of California
Division of Occupational Safety and Health

Certified Asbestos Consultant

Jerry Robert Sherman
Name

Certification No. **97-2324**

Expires on **02/06/15**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related Construction Certificate

Certificate Type	Expiration Date
Inspector/Assessor	01/07/2015

Jerry R. Sherman

ID #: 5809

State of California
Division of Occupational Safety and Health

Certified Asbestos Consultant

Steve G Pitts
Name

Certification No. **05-3852**

Expires on **09/22/15**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California Department of Public Health

Lead-Related Construction Certificate

Certificate Type	Expiration Date
Inspector/Assessor	05/12/2015
Project Monitor	05/12/2015

Steve G. Pitts

ID #: 15644

Appendix B

#431404103

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Asbestos Bulk Sample Log

Client: Parsons

Date: 11/18/14

Location: Bakers Road

Project Number: EN047

Collected By: J. Sherman / S. Pitts

CAC or SST No: 97-2384 / 05-3852

Sample No.	Sample Location	Homo Area I.D.	Material	Description	Quantity (SF/LF)
-01	Kent River Bridge	A	Concrete Bridge	Grey	
-02		B	Concrete Bridge Support	Grey/White	
-03		C	Washer & Guard Rail	Black	
-04		D	Expansion Jt.	Pink Grey	
-05		E	Drain Pipe	White	
-06		F	Reflector Mastic	Grey	
-07	Traxton Ave	A	Concrete Bridge	Grey	
-08		B	Concrete Bridge Support	Grey	
-09		C	Bolt Sealant	White	
-010		D	Drain Pipe	Grey	

Analytical Method: PLM

Turnaround Time: Same Day 24hr 48hr 3 day 5 day

E-Mail Results to Jackp@groupdelta.com + Stevep@Groupdelta.com

CHAIN OF CUSTODY:

1. Signature — Title: PM — Inclusive Dates: 11/20/14 0730

2. Signature — Title: — Inclusive Dates: 11/20/14 8:00

3. Signature — Title: — Inclusive Dates:

Page 1 of 4

#43140410

GROUP DELTA

Asbestos Bulk Sample Log

Client: Parsons

Date: 11/18/14

Location: Bakersfield

Project Number: EN047

Collected By: J. Sheraru / S. Pitts

CAC or SST No: 97-2324/ 05-3852

Sample No.	Sample Location	Homo Area I.D.	Material	Description	Quantity (SF/LF)
-011	Truxtun Ave	E	Cardboard	BRN	
-012	↓	F	Styrofoam	WHT	
-013	↓	G	Expansion Jt.	BLK	
-014	SR58 W over 99	H	Concrete Bridge	Grey	
-015	↓	I	Concrete Bridge Support	Grey	
-016	↓	J	Mastic	BLK	
-017	↓	K	Mastic	Grey	
-018	↓	L	Asphalt	BLK	
-019	↓	M	Styrofoam	WHT	
-020	S. P St.	N	Concrete Bridge	Grey	

A ↓

Analytical Method: PLM

Turnaround Time: Same Day 24hr 48hr 3 day 5 day

CHAIN OF CUSTODY:

	Signature	Title	Inclusive Dates
1.	[signature]	PM	11/20/14 0730
2.			
3.			

Page 2 of 4

#431404103

GROUP DELTA

Asbestos Bulk Sample Log

Client: Parsons

Date: 11/18/14

Location: Bakersfield

Project Number: EN047

Collected By: J. Sheaman / S. Pitts

CAC or SST No: 97-2324/05-3952

Sample No.	Sample Location	Homo Area I.D.	Material	Description	Quantity (SF/LF)
-021	S. P St.	O	Concrete Bridge Support	Grey	
-022	↓	P	Expansion Jt.	Blk	
-023	↓	Q	Styro Foam	WHT	
-024	Madison St.	R	Concrete Bridge	Grey	
-025	↓	S	Mastic	Grey	
-026	↓	T	Concrete Swale	Red	
-027	↓	U	Expansion Jt.	Blk	
-028	↓	V	Styro Foam	WHT	
-029	Corral OH	W	Concrete Bridge	Grey	
-030	↓	X	Concrete Bridge Support	Grey	

A ↓

Analytical Method: PLM

Turnaround Time: Same Day 24hr 48hr 3 day 5 day

CHAIN OF CUSTODY:

	Signature	Title	Inclusive Dates
1.	[signature]	PM	11/20/14 0730
2.			
3.			

Page 3 of 4

#431404103

GROUP DELTA

Asbestos Bulk Sample Log

Client: Parsons

Date: 11/18/14

Location: Bakersfield

Project Number: EN047

Collected By: J. Sherman / S. Pitts

CAC or SST No: 97-2324 / 05-3852

Sample No.	Sample Location	Homo Area I.D.	Material	Description	Quantity (SF/LF)
-031	Corral OH	Y	Concrete Swale (Debris)	Red	
-032	↓	Z	Expansion Jt. (Debris)	Blk	
-033	↓	AA	Styrofoam (Debris)	Wht	
-034	Belle Terrace	BB	Concrete Bridge	Grey	
-035	↓	CC	Concrete Bridge Support	Grey	
-036	↓	DD	Asphalt	Blk	
-037	↓	EE	Reflective Mastic	Blk	
-038	↓	FF	Expansion Jt.	Blk	
-039	↓	GG	Pipe Insul	Blk	

A ↓

Analytical Method: PLM

Turnaround Time: Same Day 24hr 48hr 3 day 5 day

CHAIN OF CUSTODY:

	Signature	Title	Inclusive Dates
1.	[signature]	PM	11/20/14 0730
2.			
3.			

Page 4 of 4

EMSL Analytical, Inc.
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http://www.EMSL.com sandiegolab@emsl.com

EMSL Order:	431404103
CustomerID:	GDCA42
CustomerPO:	
ProjectID:	

Attn: **Jerry Sherman**
Group Delta
32 Mauchly
Suite B
Irvine, CA 92618

Phone:	(949) 450-2100
Fax:	
Received:	11/20/14 8:00 AM
Analysis Date:	11/20/2014
Collected:	

Project: **EN047 / PARSONS / BAKERSFIELD**

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
A-01 *431404103-0001*	KERN RIVER BRIDGE CONCRETE BRIDGE GREY	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-02 *431404103-0002*	KERN RIVER BRIDGE CONRETE BRIDGE SUPPORT GREY/WHT	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-03 *431404103-0003*	KERN RIVER BRIDGE WASHES @ GUARD RAIL BLACK	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-04 *431404103-0004*	KERN RIVER BRIDGE EXPANSION JT. DRK GREY	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-05 *431404103-0005*	KERN RIVER BRIDGE DRAIN PIPE WHT	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-06 *431404103-0006*	KERN RIVER BRIDGE REFLECTOR MASTIC GREY	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
			0		

Analyst(s)
Shayne Boney (40)

Derrick Tanner, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713

Initial report from 11/20/2014 17:41:56

EMSL Analytical, Inc.
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Project: **EN047 / PARSONS / BAKERSFIELD**

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
A-07-Concrete 1-Lt. Gray *431404103-0007*	TRAXTAN AVE. CONCRETE BRIDGE GREY	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-07-Concrete 1-Drk. Gray *431404103-0007A*	TRAXTAN AVE. CONCRETE BRIDGE GREY	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-08 *431404103-0008*	TRAXTAN AVE. CONCRETE BRIDGE SUPPORT GREY	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-09 *431404103-0009*	TRAXTAN AVE. BOLT SEALANT GREY	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**<1% Chrysotile**
A-10 *431404103-0010*	TRAXTAN AVE. DRAIN PIPE GRAY	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-11 *431404103-0011*	TRAXTAN AVE. CARDBOARD BRN	Brown Fibrous Homogeneous	10% Cellulose	90% Non-fibrous (other)	**None Detected**
A-12 *431404103-0012*	TRAXTAN AVE. STYROFOAM WHT	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-13 *431404103-0013*	TRAXTAN AVE. EXPANSION JT. WHT	Brown Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)
Shayne Boney (40)

Derrick Tanner, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713

Initial report from 11/20/2014 17:41:56

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ProjectID:	

Attn: **Jerry Sherman**
Group Delta
32 Mauchly
Suite B
Irvine, CA 92618

Phone:	(949) 450-2100
Fax:	
Received:	11/20/14 8:00 AM
Analysis Date:	11/20/2014
Collected:	

Project: **EN047 / PARSONS / BAKERSFIELD**

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

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
A-14 *431404103-0014*	SR58W OVER 99 CONCRETE BRIDGE GREY	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-15 *431404103-0015*	SR58W OVER 99 CONCRETE BRIDGE SUPPORT GREY	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-16 *431404103-0016*	SR58W OVER 99 MASTIC BLK	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-17 *431404103-0017*	SR58W OVER 99 MASTIC GREY	Beige Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-18 *431404103-0018*	SR58W OVER 99 ASPHALT BLK	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-19 *431404103-0019*	SR58W OVER 99 STYROFOAM WHT	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-20 *431404103-0020*	S. P ST. CONCRETE BRIDGE GREY	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-21 *431404103-0021*	S. P ST. CONCRETE BRIDGE SUPPORT GREY	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)
Shayne Boney (40)

Derrick Tanner, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713

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Project: **EN047 / PARSONS / BAKERSFIELD**

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
A-22 *431404103-0022*	S. P ST. EXPANSION JT. BLK	Brown Fibrous Homogeneous	10%	Cellulose	90%	Non-fibrous (other)	**None Detected**
A-23 *431404103-0023*	S. P ST. STYROFOAM WHT	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
A-24 *431404103-0024*	MADISON ST. CONCRETE BRIDGE GREY	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
A-25 *431404103-0025*	MADISON ST. MASTIC GREY	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
A-26 *431404103-0026*	MADISON ST. CONCRETE SWALE	Pink Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
A-27 *431404103-0027*	MADISON ST. EXPANSION JT. BLK	Brown Fibrous Homogeneous	10%	Cellulose	90%	Non-fibrous (other)	**None Detected**
A-28 *431404103-0028*	MADISON ST. STYROFOAM WHT	White Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**
A-29 *431404103-0029*	CORRAL OH CONCRETE BRIDGE GREY	Gray Non-Fibrous Homogeneous			100%	Non-fibrous (other)	**None Detected**

Analyst(s)
Shayne Boney (40)

Derrick Tanner, Laboratory Manager
or other approved signatory

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Phone:	(949) 450-2100
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Received:	11/20/14 8:00 AM
Analysis Date:	11/20/2014
Collected:	

Project: **EN047 / PARSONS / BAKERSFIELD**

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

Sample	Description	Appearance	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
A-30 *431404103-0030*	CORRAL OH CONCRETE BRIDGE SUPPORT GREY	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-31 *431404103-0031*	CORRAL OH CONCRETE SWALE (DEBRIS) RED	Pink Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-32 *431404103-0032*	CORRAL OH EXPANSION JT. (DEBRIS) BLK	Brown Fibrous Homogeneous	15% Cellulose	85% Non-fibrous (other)	**None Detected**
A-33 *431404103-0033*	CORRAL OH STYROFOAM (DEBRIS) WHT	White Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-34 *431404103-0034*	BELLE TERRACE CONCRETE BRIDGE GREY	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-35 *431404103-0035*	BELLE TERRACE CONCRETE BRIDGE SUPPORT GREY	Gray Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-36 *431404103-0036*	BELLE TERRACE ASHALT BLK	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**
A-37 *431404103-0037*	BELLE TERRACE RELFECTION MASTIC BLK	Black Non-Fibrous Homogeneous		100% Non-fibrous (other)	**None Detected**

Analyst(s)
Shayne Boney (40)

Derrick Tanner, Laboratory Manager
or other approved signatory

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Initial report from 11/20/2014 17:41:56

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Attn: **Jerry Sherman**
Group Delta
32 Mauchly
Suite B
Irvine, CA 92618

Phone:	(949) 450-2100
Fax:	
Received:	11/20/14 8:00 AM
Analysis Date:	11/20/2014
Collected:	

Project: **EN047 / PARSONS / BAKERSFIELD**

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

			Non-Asbestos				Asbestos
Sample	**Description**	**Appearance**	**%**	**Fibrous**	**%**	**Non-Fibrous**	**% Type**
A-38 *431404103-0038*	BELLE TERRACE EXPANSION JT. BLK	Brown Fibrous Homogeneous	20%	Cellulose	80%	Non-fibrous (other)	**None Detected**
A-39 *431404103-0039*	BELLE TERRACE PIPE INSUL. BLK	Brown Fibrous Homogeneous	20%	Cellulose	80%	Non-fibrous (other)	**None Detected**

Analyst(s)
Shayne Boney (40)

Derrick Tanner, Laboratory Manager
or other approved signatory

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Samples analyzed by EMSL Analytical, Inc. San Diego, CA NVLAP Lab Code 200855-0, CA ELAP 2713

Initial report from 11/20/2014 17:41:56

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Attn: **Jerry Sherman**
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32 Mauchly
Suite B
Irvine, CA 92618

Phone:	(949) 450-2100
Fax:	
Received:	11/20/14 8:00 AM
Analysis Date:	12/1/2014
Collected:	

Project: **EN047 / PARSONS / BAKERSFIELD**

Test Report: Asbestos Analysis of Bulk Material via EPA 600/R-93/116. Quantitation using the 1,000 Point Count Procedure

			Non-Asbestos		Asbestos
Sample	**Description**	**Appearance**	**% Fibrous**	**% Non-Fibrous**	**% Type**
A-09 *431404103-0009*	TRUXTON AVE. BOLT SEALANT GREY	White Non-Fibrous Homogeneous		99.90% Non-fibrous (other)	**0.10% Chrysotile**

Analyst(s)

Shayne Boney (1)

Derrick Tanner, Laboratory Manager
or other approved signatory

Some samples may contain asbestos fibers present in dimensions below PLM resolution limits.The limit of detection as stated in the method is 0.1%. EMSL Analytical Inc suggests that samples reported as <0.1% or none detected undergo additional analysis via TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval EMSL Analytical Inc. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the United States Government. EMSL Analytical Inc. bears no responsibility for sample collection activities, analytical method limitations, or the accuracy of results when requested to separate layered samples. EMSL Analytical Inc liability is limited to the cost of sample analysis.The test results contained within this report meet the requirements of NELAC unless otherwise noted. Samples received in good condition unless otherwise noted. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample.

Samples analyzed by EMSL Analytical, Inc. San Diego, CA

Initial report from 12/01/2014 15:44:48

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BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

14-27428

Chain of Custody

* Required Fields

TEMP: ______

Client/Company Name *: Parsons/Group Delta	Report Attention *: Jack Packwood	Phone * #: FAX * #: E-mail: jackp@groupdelta.com
Address *: Bakersfield, City *: CALIF State * Zip *		Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:
Project Information: Centenial Corridor Project	PO # / BCL Quote #	
How would you like your completed results sent? ☒ E-Mail ☐ Fax ☐ EDD ☐ Mail Only		Regulatory Compliance Electronic Data Transfer: Y ☐ N ☒ System No. *
Sampler Name Printed / Signature: J. Sherman	QC Request ☐ STD ☐ Level II	Result Request ** Surcharge ☐ STD ☐ 5 Day** ☐ 2 Day** ☒ 1 Day**

Matrix Types: RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

	Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 6010B - lead
-1	L-1		11/18	day	Paint - Kern River Bridge		Graffiti & cover paint	X
-2	L-2		↓	↓	Paint - Kern River Bridge		↓ ↓	X
-3	L-3				Paint - Kern River Bridge		wht. striping	X
-4	L-4				Paint - Kern River Bridge		yellow striping	X
-5	L-5				Paint - SR58W Bridge over 99		gray cover paint	X
-6	L-6				Paint - SR58W Bridge over 99		wht. striping	X
-7	L-7				Paint - SR58W Bridge over 99		yellow striping	X
-8	L-8				Paint - So. P St. UC		gray cover paint	X
-9	L-9				Paint - Madison St. UC		gray cover paint	X
-10	L-10				Paint - Bakersfield Corral OH		Graffiti & cover paint	X
-11	L-11		↓	↓	Paint - Belle Terrace OC		white - arrow	X

DISTRIBUTION ☐ SUB-OUT ☐ CHK BY [initials]

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
[signature] J. Sherman	Group Delta	11/18/14		[signature]	11 18 14 1635
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO (WALK-IN) SJVC FED EX OTHER

Cooling Method: WET BLUE (NONE)

Packing Material: baggies

SR-FL-0012-00 (Analytical)

BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

14-27428

* Required Fields

TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #: / FAX * #:
Parsons / Group Delta	Jack Packwood	E-mail: jackp@groupdelta.com

Address *: Bakersfield City *: CALIF State *: Zip *:

Carbon Copies: CDHS ☐ Fresno Co ☐ EPA ☐ Merced Co ☐ Tulare Co ☐ Other:

Project Information: Centenial Corridor Project

PO #:

BCL Quote #:

How would you like your completed results sent? ☒ E-Mail ☐ Fax ☐ EDD ☐ Mail Only

Regulatory Compliance
Electronic Data Transfer: Y ☐ N ☒
System No. *

Sampler Name Printed / Signature: J. Sherman

QC Request: ☐ STD ☐ Level II

Result Request ** Surcharge: ☐ STD ☐ 5 Day** ☐ 2 Day** ☒ 1 Day**

Matrix Types: RSW = Raw Surface Water, CFW = Clorinated Finished Water, CWW = Chorinated Waste Water, BW = Bottled Water, RGW = Raw Ground Water, FW = Finished Water, WW = Waste Water, SW = Storm Water, DW = Drinking Water, SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 6010B-lead
-12 L-12		11/8	day	Paint - Bella Terrace OC		yellow-striping	X
-13 L-13		↓	↓	Paint - Bella Terrace OC		green-bridge	X

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
J. Sherman	Group Delta	11/18/14			11/18/14 1035
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company

Received for Lab by: (Signature and Printed Name)	Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material: baggies

SR-FL-0012-00 (Analytical)

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 1 Of 2

Submission #: 14-21428

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☑
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☐ None ☑ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☐ Blue Ice ☐ None ☑ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: DE Thermometer ID: 208 Date/Time 11/18/14 1625
Temperature: (A) 26.2 °C / (C) 25.8 °C Analyst Init HM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG	A	A	A	A	A	A	A	A	A	A
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: No times on coc and sample
Sample Numbering Completed By: KIB Date/Time: 11/18/14 1625 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 2 Of 2

Submission #: 14-27428

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☑
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☐ None ☑ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☐ Blue Ice ☐ None ☑ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: DE Thermometer ID: 208 Date/Time 11/18/14 1635
Temperature: (A) 26.2 °C / (C) 25.8 °C Analyst Init MM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG	A	A	A							
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: No times on COC and Samples
Sample Numbering Completed By: KIB Date/Time: 11/18/14 1648 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

Date of Report: 12/01/2014

Jack Packwood

Group Delta Consultants, Inc.
1035 South Milliken Ave Suite G
Ontario, CA 91761

Client Project:	Contenial Corridor Project
BCL Project:	Parsons Soil Samples
BCL Work Order:	1427428
Invoice ID:	B189227, B189846

Enclosed are the results of analyses for samples received by the laboratory on 11/18/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Christina Herndon
Client Service Rep

Authorized Signature

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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BC LABORATORIES

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(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

14-27428

TEMP: _____

* Required Fields

Client/Company Name *: Parsons/Group Delta
Report Attention *: Jack Packwood
Phone * #: FAX * #:
E-mail: jackp@groupdelta.com
Address *: Bakersfield, CALIF
City * State * Zip *
Project Information: Centenial Corridor Project
PO #
BCL Quote #
How would you like your completed results sent? [X] E-Mail [ ] Fax [ ] EDD [ ] Mail Only
Sampler Name Printed / Signature: J. Sherman
QC Request: [ ] STD [ ] Level II
Result Request ** Surcharge: [ ] STD [ ] 5 Day** [ ] 2 Day** [X] 1 Day**

Carbon Copies: CDHS [ ] Fresno Co [ ] EPA [ ] Merced Co [ ] Tulare Co [ ] Other:
Regulatory Compliance: Electronic Data Transfer: Y [ ] N [X]
System No. *

Matrix Types: RSW = Raw Surface Water CFW = Clorinated Finished Water CWW = Chorinated Waste Water BW = Bottled Water RGW = Raw Ground Water FW = Finished Water WW = Waste Water SW = Storm Water DW = Drinking Water SO = Solid

ANALYSIS REQUESTED

	Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 6010B - lead
.1	L-1		11/18	day	Paint - Kern River Bridge		Graffiti & cover paint	X
.2	L-2				Paint - Kern River Bridge			X
.3	L-3				Paint - Kern River Bridge		wht. striping	X
.4	L-4				Paint - Kern River Bridge		yellow striping	X
.5	L-5				Paint - SR58W Bridge over 99		gray cover paint	X
.6	L-6				Paint - SR58W Bridge over 99		wht. striping	X
.7	L-7				Paint - SR58W Bridge over 99		yellow striping	X
.8	L-8				Paint - So. P St. UC		Gray cover paint	X
.9	L-9				Paint - Madison St. UC		gray cover paint	X
.10	L-10				Paint - Bakersfield Corral OH		Graffiti & cover paint	X
.11	L-11				Paint - Belle Terrace OC		white - arrow	X

DISTRIBUTION: WHITE / PINK / GOLD / SUB-OUT / CHK BY

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
J. Sherman	Group Delta	11/18/14			11/18/14 1635
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
Received for Lab by: (Signature and Printed Name)		Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.	

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER
Cooling Method: WET BLUE NONE
Packing Material: baggies

SR-FL-0012-00 (Analytical)

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BC LABORATORIES

4100 Atlas Court Bakersfield, Ca. 93308
(661) 327-4911 • FAX (661) 327-1918 • www.bclabs.com

Chain of Custody

14-27428

* Required Fields

TEMP: _____

Client/Company Name *:	Report Attention *:	Phone * #: / FAX * #:
Parsons/Group Delta	Jack Packwood	E-mail: jackp@groupdelta.com

Address *: Bakersfield City *: CALIF State *: Zip *:

Project Information: Centenial Corridor Project

PO #:

BCL Quote #:

How would you like your completed results sent? [X] E-Mail [ ] Fax [ ] EDD [ ] Mail Only

Sampler Name Printed / Signature: J. Sherman

QC Request: [ ] STD [ ] Level II

Result Request ** Surcharge: [ ] STD [ ] 5 Day** [ ] 2 Day** [X] 1 Day**

Carbon Copies: CDHS [ ] Fresno Co [ ] EPA [ ] Merced Co [ ] Tulare Co [ ] Other:

Regulatory Compliance Electronic Data Transfer: Y [ ] N [X] System No. *

Matrix Types: RSW = Raw Surface Water, CFW = Clorinated Finished Water, CWW = Chorinated Waste Water, BW = Bottled Water, RGW = Raw Ground Water, FW = Finished Water, WW = Waste Water, SW = Storm Water, DW = Drinking Water, SO = Solid

ANALYSIS REQUESTED

Sample #	# Bottles	Sampled Date	Sampled Time	Sample Description / Location *	Matrix *	Comments / Station Code	EPA 6010B-lead							
-12 L-12		11/8	doug	Paint-Bella Terrace OC		yellow-striping	X							
-13 L-13		↓	↓	Paint-Bella Terrace OC		green-bridge	X							

Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company
J. Sherman	Group Delta	11/8/14			11/8/14 1035
Relinquished by: (Signature and Printed Name)	Company	Date	Time	Received by (Signature and Print Name)	Company

Received for Lab by: (Signature and Printed Name)	Date	Time	Payment Received at Delivery: Date: Amount: Check/Cash/Card PIA # Init.

Shipping Method: CAO UPS GSO WALK-IN SJVC FED EX OTHER

Cooling Method: WET BLUE NONE

Packing Material: baggies

SR-FL-0012-00 (Analytical)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
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Chain of Custody and Cooler Receipt Form for 1427428 Page 3 of 4

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 1 Of 2

Submission #: 14-21428

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☑
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☐ None ☑ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☐ Blue Ice ☐ None ☑ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: DE Thermometer ID: 208 Date/Time 11/18/14 1625
Temperature: (A) 26.2 °C / (C) 25.8 °C Analyst Init HM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG	A	A	A	A	A	A	A	A	A	A
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: No times on coc and sample
Sample Numbering Completed By: KIB Date/Time: 11/18/14 1648 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1427428 Page 4 of 4

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 18 09/04/14 Page 2 Of 2

Submission #: 14-27428

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☑
BC Lab Field Service ☐ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☐ None ☑ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☐ Blue Ice ☐ None ☑ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.98 Container: DE Thermometer ID: 208 Temperature: (A) 26.2 °C / (C) 25.8 °C

Date/Time 11/18/14 1625
Analyst Init MM

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG	A	A	A							
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: No times on coc and Samples
Sample Numbering Completed By: KIB Date/Time: 11/18/14 1648 [S:\WPDoc\WordPerfect\LAB_DOCS\FORMS\SAMREC]
A = Actual / C = Corrected

Group Delta Consultants, Inc.
1035 South Milliken Ave Suite G
Ontario, CA 91761

Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427428-01	**COC Number:**	---	**Receive Date:**	11/18/2014 16:35
	Project Number:	---	**Sampling Date:**	11/18/2014 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	L-1 Paint Kern River Bridge	**Lab Matrix:**	Solids
	Sampled By:	J. Sherman	**Sample Type:**	Other
1427428-02	**COC Number:**	---	**Receive Date:**	11/18/2014 16:35
	Project Number:	---	**Sampling Date:**	11/18/2014 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	L-2 Paint Kern River Bridge	**Lab Matrix:**	Solids
	Sampled By:	J. Sherman	**Sample Type:**	Other
1427428-03	**COC Number:**	---	**Receive Date:**	11/18/2014 16:35
	Project Number:	---	**Sampling Date:**	11/18/2014 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	L-3 Paint Kern River Bridge	**Lab Matrix:**	Solids
	Sampled By:	J. Sherman	**Sample Type:**	Other
1427428-04	**COC Number:**	---	**Receive Date:**	11/18/2014 16:35
	Project Number:	---	**Sampling Date:**	11/18/2014 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	L-4 Paint Kern River Bridge	**Lab Matrix:**	Solids
	Sampled By:	J. Sherman	**Sample Type:**	Other
1427428-05	**COC Number:**	---	**Receive Date:**	11/18/2014 16:35
	Project Number:	---	**Sampling Date:**	11/18/2014 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	L-5 Paint SR58W Bridge Over 99	**Lab Matrix:**	Solids
	Sampled By:	J. Sherman	**Sample Type:**	Other
1427428-06	**COC Number:**	---	**Receive Date:**	11/18/2014 16:35
	Project Number:	---	**Sampling Date:**	11/18/2014 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	L-6 Paint SR58W Bridge Over 99	**Lab Matrix:**	Solids
	Sampled By:	J. Sherman	**Sample Type:**	Other
1427428-07	**COC Number:**	---	**Receive Date:**	11/18/2014 16:35
	Project Number:	---	**Sampling Date:**	11/18/2014 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	L-7 Paint SR58W Bridge Over 99	**Lab Matrix:**	Solids
	Sampled By:	J. Sherman	**Sample Type:**	Other

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Group Delta Consultants, Inc.
1035 South Milliken Ave Suite G
Ontario, CA 91761

Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1427428-08	**COC Number:**	---	**Receive Date:**	11/18/2014 16:35
	Project Number:	---	**Sampling Date:**	11/18/2014 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	L-8 Paint So. Fst. UC	**Lab Matrix:**	Solids
	Sampled By:	J. Sherman	**Sample Type:**	Other
1427428-09	**COC Number:**	---	**Receive Date:**	11/18/2014 16:35
	Project Number:	---	**Sampling Date:**	11/18/2014 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	L-9 Paint Madison St. UC	**Lab Matrix:**	Solids
	Sampled By:	J. Sherman	**Sample Type:**	Other
1427428-10	**COC Number:**	---	**Receive Date:**	11/18/2014 16:35
	Project Number:	---	**Sampling Date:**	11/18/2014 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	L-10 Paint Bakersfield Corral OH	**Lab Matrix:**	Solids
	Sampled By:	J. Sherman	**Sample Type:**	Other
1427428-11	**COC Number:**	---	**Receive Date:**	11/18/2014 16:35
	Project Number:	---	**Sampling Date:**	11/18/2014 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	L-11 Paint Belle Terrace OC	**Lab Matrix:**	Solids
	Sampled By:	J. Sherman	**Sample Type:**	Other
1427428-12	**COC Number:**	---	**Receive Date:**	11/18/2014 16:35
	Project Number:	---	**Sampling Date:**	11/18/2014 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	L-12 Paint Belle Terrace OC	**Lab Matrix:**	Solids
	Sampled By:	J. Sherman	**Sample Type:**	Other
1427428-13	**COC Number:**	---	**Receive Date:**	11/18/2014 16:35
	Project Number:	---	**Sampling Date:**	11/18/2014 00:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	L-13 Paint Belle Terrace OC	**Lab Matrix:**	Solids
	Sampled By:	J. Sherman	**Sample Type:**	Other

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Group Delta Consultants, Inc.
1035 South Milliken Ave Suite G
Ontario, CA 91761

Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Total Concentrations (TTLC)

BCL Sample ID: 1427428-01 | **Client Sample Name:** L-1 Paint Kern River Bridge, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**8.1**	**mg/kg**	**12**	**1.4**	**EPA-6010B**	ND	**J,A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/19/14	11/20/14 09:15	ARD	PE-OP2	4.854	BXK1720

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Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Total Concentrations (TTLC)

BCL Sample ID: 1427428-02 | **Client Sample Name:** L-2 Paint Kern River Bridge, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**22**	**mg/kg**	**12**	**1.4**	**EPA-6010B**	ND	**A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/19/14	11/20/14 09:18	ARD	PE-OP2	4.950	BXK1720

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Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Total Concentrations (TTLC)

BCL Sample ID: 1427428-03 | **Client Sample Name:** L-3 Paint Kern River Bridge, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**3.8**	**mg/kg**	**12**	**1.4**	**EPA-6010B**	ND	**J,A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/19/14	11/20/14 09:20	ARD	PE-OP2	4.808	BXK1720

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Group Delta Consultants, Inc. 1035 South Milliken Ave Suite G Ontario, CA 91761	**Reported:** 12/01/2014 16:12 Project: Parsons Soil Samples Project Number: Contenial Corridor Project Project Manager: Jack Packwood

TCLP Toxicity

BCL Sample ID: 1427428-04 | **Client Sample Name:** L-4 Paint Kern River Bridge, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**1.9**	**mg/L**	**0.50**	**0.030**	**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/26/14	12/01/14 08:04	ARD	PE-OP2	1	BXK2363

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Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Total Concentrations (TTLC)

BCL Sample ID: 1427428-04 | **Client Sample Name:** L-4 Paint Kern River Bridge, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**5400**	**mg/kg**	**12**	**1.4**	**EPA-6010B**	ND	**A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/19/14	11/20/14 09:21	ARD	PE-OP2	4.902	BXK1720

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Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Total Concentrations (TTLC)

BCL Sample ID: 1427428-05 | **Client Sample Name:** L-5 Paint SR58W Bridge Over 99, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**23**	**mg/kg**	**12**	**1.4**	**EPA-6010B**	ND	**A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/19/14	11/20/14 09:23	ARD	PE-OP2	4.762	BXK1720

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Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Total Concentrations (TTLC)

BCL Sample ID: 1427428-06 | **Client Sample Name:** L-6 Paint SR58W Bridge Over 99, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**26**	**mg/kg**	**12**	**1.4**	**EPA-6010B**	ND	**A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/19/14	11/20/14 09:24	ARD	PE-OP2	4.950	BXK1720

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Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

TCLP Toxicity

BCL Sample ID: 1427428-07 | **Client Sample Name:** L-7 Paint SR58W Bridge Over 99, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**1.4**	**mg/L**	**0.50**	**0.030**	**EPA-6010B**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/26/14	12/01/14 08:06	ARD	PE-OP2	1	BXK2363

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Group Delta Consultants, Inc. 1035 South Milliken Ave Suite G Ontario, CA 91761	**Reported:** 12/01/2014 16:12 Project: Parsons Soil Samples Project Number: Contenial Corridor Project Project Manager: Jack Packwood

Total Concentrations (TTLC)

BCL Sample ID: 1427428-07 | **Client Sample Name:** L-7 Paint SR58W Bridge Over 99, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**3100**	**mg/kg**	**12**	**1.4**	**EPA-6010B**	ND	**A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/19/14	11/20/14 09:26	ARD	PE-OP2	4.762	BXK1720

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Group Delta Consultants, Inc.
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Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

WET Test (STLC)

BCL Sample ID: 1427428-08 | **Client Sample Name:** L-8 Paint So. Fst. UC, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	ND	mg/L	0.50	0.16	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/23/14	11/24/14 13:37	ARD	PE-OP2	1	BXK2076

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Group Delta Consultants, Inc.
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Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Total Concentrations (TTLC)

BCL Sample ID: 1427428-08 | **Client Sample Name:** L-8 Paint So. Fst. UC, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**50**	**mg/kg**	**12**	**1.4**	**EPA-6010B**	ND	**A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/19/14	11/20/14 09:27	ARD	PE-OP2	4.808	BXK1720

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Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

WET Test (STLC)

BCL Sample ID: 1427428-09 | **Client Sample Name:** L-9 Paint Madison St. UC, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**0.46**	**mg/L**	**0.50**	**0.16**	**EPA-6010B**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/23/14	11/24/14 13:38	ARD	PE-OP2	1	BXK2076

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Group Delta Consultants, Inc.
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Ontario, CA 91761

Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Total Concentrations (TTLC)

BCL Sample ID: 1427428-09 | **Client Sample Name:** L-9 Paint Madison St. UC, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**65**	**mg/kg**	**12**	**1.4**	**EPA-6010B**	ND	**A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/19/14	11/20/14 09:29	ARD	PE-OP2	4.902	BXK1720

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Group Delta Consultants, Inc.
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Ontario, CA 91761

Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Total Concentrations (TTLC)

BCL Sample ID: 1427428-10 | **Client Sample Name:** L-10 Paint Bakersfield Corral OH, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**32**	**mg/kg**	**12**	**1.4**	**EPA-6010B**	ND	**A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/19/14	11/20/14 09:38	ARD	PE-OP2	4.950	BXK1720

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Ontario, CA 91761

Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Total Concentrations (TTLC)

BCL Sample ID: 1427428-11 | **Client Sample Name:** L-11 Paint Belle Terrace OC, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**4.6**	**mg/kg**	**12**	**1.4**	**EPA-6010B**	ND	**J,A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/19/14	11/20/14 09:39	ARD	PE-OP2	4.854	BXK1720

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Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Total Concentrations (TTLC)

BCL Sample ID: 1427428-12 | **Client Sample Name:** L-12 Paint Belle Terrace OC, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**4.9**	**mg/kg**	**12**	**1.4**	**EPA-6010B**	ND	**J,A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/19/14	11/20/14 09:41	ARD	PE-OP2	4.762	BXK1720

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Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Total Concentrations (TTLC)

BCL Sample ID: 1427428-13 | **Client Sample Name:** L-13 Paint Belle Terrace OC, 11/18/2014 12:00:00AM, J. Sherman

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Lead	**8.4**	**mg/kg**	**24**	**2.7**	**EPA-6010B**	ND	**J,A10**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	11/19/14	11/20/14 09:43	ARD	PE-OP2	9.615	BXK1720

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Group Delta Consultants, Inc. 1035 South Milliken Ave Suite G Ontario, CA 91761	**Reported:** 12/01/2014 16:12 Project: Parsons Soil Samples Project Number: Contenial Corridor Project Project Manager: Jack Packwood

WET Test (STLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK2076						
Lead	BXK2076-BLK1	ND	mg/L	0.50	0.16	

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Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

WET Test (STLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXK2076										
Lead	BXK2076-BS1	LCS	19.630	20.000	mg/L	98.2		85 - 115		

Group Delta Consultants, Inc. 1035 South Milliken Ave Suite G Ontario, CA 91761	**Reported:** 12/01/2014 16:12 Project: Parsons Soil Samples Project Number: Contenial Corridor Project Project Manager: Jack Packwood

WET Test (STLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXK2076	Used client sample: N										
Lead	DUP	1427720-01	0.60390	0.58971		mg/L	2.4		20		
	MS	1427720-01	0.60390	20.601	20.408	mg/L		98.0		75 - 125	
	MSD	1427720-01	0.60390	20.950	20.408	mg/L	1.7	99.7	20	75 - 125	

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Group Delta Consultants, Inc. 1035 South Milliken Ave Suite G Ontario, CA 91761	**Reported:** 12/01/2014 16:12 Project: Parsons Soil Samples Project Number: Contenial Corridor Project Project Manager: Jack Packwood

TCLP Toxicity

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK2363						
Lead	BXK2363-BLK1	ND	mg/L	0.50	0.030	

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Group Delta Consultants, Inc. 1035 South Milliken Ave Suite G Ontario, CA 91761	**Reported:** 12/01/2014 16:12 Project: Parsons Soil Samples Project Number: Contenial Corridor Project Project Manager: Jack Packwood

TCLP Toxicity

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXK2363										
Lead	BXK2363-BS1	LCS	20.812	20.000	mg/L	104		85 - 115		

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Group Delta Consultants, Inc. 1035 South Milliken Ave Suite G Ontario, CA 91761	**Reported:** 12/01/2014 16:12 Project: Parsons Soil Samples Project Number: Contenial Corridor Project Project Manager: Jack Packwood

TCLP Toxicity

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXK2363	Used client sample: N										
Lead	DUP	1426550-01	ND	ND		mg/L			20		
	MS	1426550-01	ND	20.097	20.000	mg/L		100		75 - 125	
	MSD	1426550-01	ND	20.153	20.000	mg/L	0.3	101	20	75 - 125	

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Group Delta Consultants, Inc. 1035 South Milliken Ave Suite G Ontario, CA 91761	**Reported:** 12/01/2014 16:12 Project: Parsons Soil Samples Project Number: Contenial Corridor Project Project Manager: Jack Packwood

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXK1720						
Lead	BXK1720-BLK1	ND	mg/kg	2.5	0.28	

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Group Delta Consultants, Inc. 1035 South Milliken Ave Suite G Ontario, CA 91761	**Reported:** 12/01/2014 16:12 Project: Parsons Soil Samples Project Number: Contenial Corridor Project Project Manager: Jack Packwood

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXK1720										
Lead	BXK1720-BS1	LCS	101.79	100.00	mg/kg	102		75 - 125		

Group Delta Consultants, Inc.
1035 South Milliken Ave Suite G
Ontario, CA 91761

Reported: 12/01/2014 16:12
Project: Parsons Soil Samples
Project Number: Contenial Corridor Project
Project Manager: Jack Packwood

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXK1720	Used client sample: N										
Lead	DUP	425180-03RE´	ND	ND		mg/kg			20		
	MS	425180-03RE´	ND	96.169	99.010	mg/kg		97.1		75 - 125	
	MSD	425180-03RE´	ND	98.402	99.010	mg/kg	2.3	99.4	20	75 - 125	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.
All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.

Group Delta Consultants, Inc. 1035 South Milliken Ave Suite G Ontario, CA 91761	**Reported:** 12/01/2014 16:12 Project: Parsons Soil Samples Project Number: Contenial Corridor Project Project Manager: Jack Packwood

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A10	PQL's and MDL's were raised due to matrix interference.

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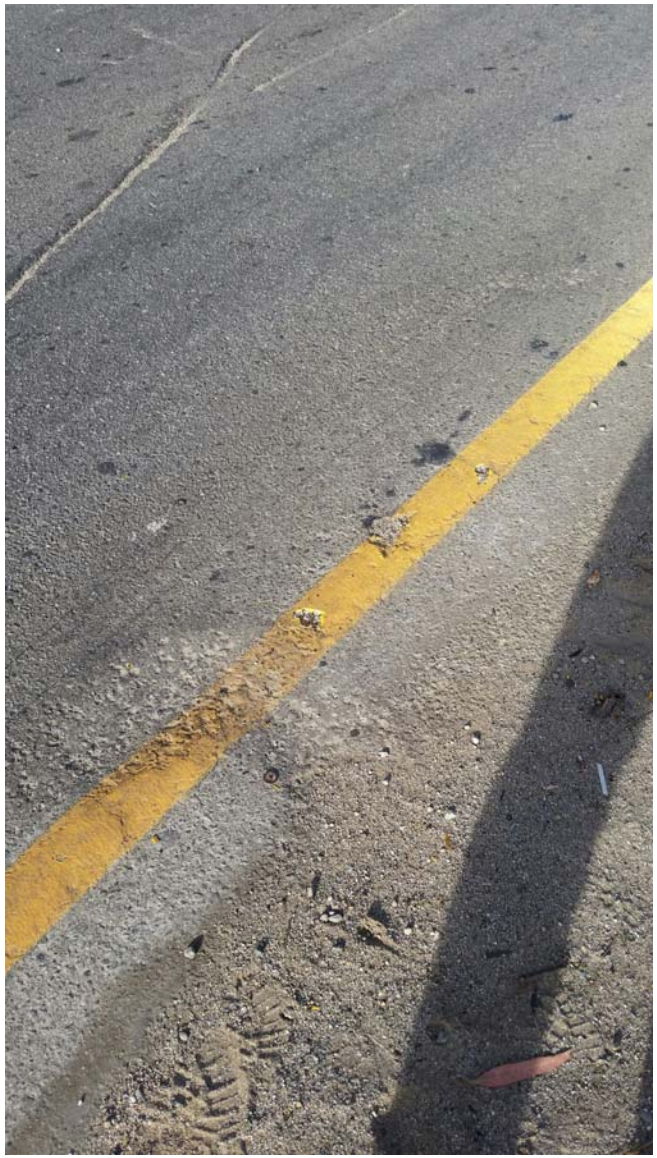
Appendix C

Site: Truxtun Avenue Undercrossing
View: Railing bracket

Site: Truxtun Avenue Undercrossing
View: Bolt sealant ACCM



Site: Kern River Bridge & Westbound SR-58 over SR-99
View: Representative view of yellow striping