

# LIMITED SITE INVESTIGATION AND AERIAL DEPOSITED LEAD REPORT

**Barton Road Bridge Removal and Road Construction Project**  
**Project No. BRLS-5065(024); Bridge No. 54C-0379**  
**Barton Road, West of Grand Terrace Road**  
**Colton and Grand Terrace, San Bernardino County, California**

April 6, 2021  
Terracon Project No. CB175228



**Prepared for:**  
CNS Engineers, Inc.  
Riverside, California

**Prepared by:**  
Terracon Consultants, Inc.  
Colton, California

[terracon.com](http://terracon.com)

**Terracon**

Environmental    ■    Facilities    ■    Geotechnical    ■    Materials

April 6, 2021



CNS Engineers, Inc.  
11870 Pierce St., Ste. 265  
Riverside, CA 92505

Attn: Steve Hosford  
P: (951) 687-1005 x106  
E: steve.hosford@cnseng.com

Re: Limited Site Investigation and Aerially Deposited Lead Report  
Barton Road Bridge Removal and Road Construction Project  
Project No. BRLS-5065(024); Bridge No. 54C-0379  
Barton Road, West of Grand Terrace Road  
Colton and Grand Terrace, San Bernardino County, California  
Terracon Project No. CB175228

Dear Mr. Hosford:

Terracon Consultants, Inc. (Terracon) is pleased to submit the enclosed Limited Site Investigation and Aerially Deposited Lead Report for the above referenced site to CNS Engineers, Inc. This assessment was performed in accordance with Subconsultant Professional Services Agreement, CNS Project No. 17015, dated May 24, 2019.

We appreciate the opportunity to perform these services for CNC Engineers, Inc. Please contact the undersigned at (909) 824-7311 if you have questions regarding the information provided in the report.

Sincerely,  
**Terracon Consultants, Inc.**

**DRAFT**  
Thomas C. Johnson  
Field Geologist

**DRAFT**  
Carl A. Parten  
Senior Principal / Office Manager III

**DRAFT**  
Todd G. McFarland, P.G., C.H.G. #7685  
Senior Geologist / Department Manager

Attachments



## TABLE OF CONTENTS

<b>1.0</b>	<b>INTRODUCTION</b> .....	<b>1</b>
1.1	Site Description .....	1
1.2	Scope of Work .....	1
1.3	Standard of Care .....	2
1.4	Additional Scope Limitations .....	2
1.5	Reliance .....	2
<b>2.0</b>	<b>FIELD ACTIVITIES</b> .....	<b>3</b>
2.1	Permitting .....	3
2.2	Utility Clearance .....	3
2.3	Soil Borings and Soil Sampling .....	3
<b>3.0</b>	<b>LABORATORY ANALYTICAL METHODS</b> .....	<b>5</b>
<b>4.0</b>	<b>DATA EVALUATION</b> .....	<b>5</b>
4.1	Soil Analytical Results – TPH and VOCs .....	5
4.2	Soil Analytical Results – Lead .....	6
<b>5.0</b>	<b>FINDINGS AND CONCLUSIONS</b> .....	<b>8</b>
<b>6.0</b>	<b>RECOMMENDATIONS</b> .....	<b>9</b>

## APPENDICES

### APPENDIX A – EXHIBITS

Exhibit 1 – Topographic Map

Exhibit 2 – Site Diagram

### APPENDIX B – PERMITS

### APPENDIX C – BORING LOGS

### APPENDIX D – ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

**LIMITED SITE INVESTIGATION  
AND  
AERIALLY DEPOSITED LEAD REPORT**

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## **1.0 INTRODUCTION**

### **1.1 Site Description**

<b>Site Name</b>	Barton Road Bridge Removal and Road Construction Project
<b>Site Location/Address</b>	Barton Road, West of Grand Terrace Road, Colton and Grand Terrace, San Bernardino County, California
<b>General Site Description</b>	The site consists of an approximately 1,100-foot length of an asphalt-paved, two-lane road, that spans the approximate distance between Grand Terrace Avenue (east of the site) and South Terrace Avenue (west of the site). The site is improved with a bridge (approximately 175-feet long by 25-feet wide), which was originally built in 1936 (on the central portion of the site), over a former abandoned railroad track (removed) and Union Pacific right-of-way, sidewalks (shutdown due to safety concerns, and easements (along the northern and southern perimeters of the site), and utilities. During the site reconnaissance, the site functioned as a throughway between the cities of Colton and Grand Terrace.

A topographic map and site diagram are included as **Exhibits 1 and 2 of Appendix A**, respectively.

### **1.2 Scope of Work**

At your request, Terracon conducted a Limited Site Investigation (LSI) and Aerially Deposited Lead (ADL) assessment at the site, further referenced as “investigation”. The scope of work conducted with your approval was performed in response to findings from the Phase I Environmental Site Assessment (ESA) prepared by Terracon Consultants Inc. (Terracon) for the site, dated July 29, 2020, and per the original scope of work under Subconsultant Professional Services Agreement, CNS Project No. 17015, dated May 24, 2019.

## Limited Site Investigation and Aerially Deposited Lead Report

Barton Road Bridge Removal and Road Construction Project

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April 6, 2021 ■ Terracon Project No. CB175228



The objective of the investigation was to evaluate the presence of aerially deposited lead (ADL) within the shallow soils of the unpaved roadway shoulders, and evaluate the presence of total petroleum hydrocarbon (TPH) and volatile organic compound concentrations above laboratory reporting limits in soils in the vicinity of the bridge and road, prior to improvements. Groundwater in the vicinity of the site was estimated to be at an approximate depth of 160 feet below grade surface (bgs) based on data from monitoring wells approximately 1,400 feet to the east of the site; therefore, an evaluation of groundwater was not included in the proposed scope.

### 1.3 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These LSI services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal and were not restricted by ASTM E1903-97.

### 1.4 Additional Scope Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this LSI. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations, or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

### 1.5 Reliance

This report has been prepared for the exclusive use of CNS Engineers, Inc., the City of Colton, and the City of Grand Terrace. Use or reliance by any other parties (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of the client and all authorized parties, and Terracon. Any unauthorized distribution or reuse is at the client's, sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal, LSI report, and Terracon's Terms and

## Limited Site Investigation and Aerially Deposited Lead Report

Barton Road Bridge Removal and Road Construction Project

Project No. BRLS-5065(024); Bridge No. 54C-0379 ■ Colton and Grand Terrace, California

April 6, 2021 ■ Terracon Project No. CB175228



Conditions. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to and reliance of the client unless otherwise agreed in writing.

## 2.0 FIELD ACTIVITIES

Terracon's field activities were conducted on December 15, 2020, by an environmental professional under the oversight of a California-licensed Professional Geologist (P.G.) with Terracon. A site-specific health and safety plan was utilized by Terracon during field activities for all phases of this assessment.

### 2.1 Permitting

Terracon obtained encroachment permits from the Cities of Colton and Grand Terrace, permit numbers ENC-000-548 and PW0-000-854, respectively, to drill within City ROWs. A permit was obtained from the County of San Bernardino Environmental Health Department (permit number 2020121052) for geotechnical boring B-2, drilled within Barton Road. See **Appendix B** for permits.

The environmental soil borings were terminated at a maximum depth of 2 feet bgs; and therefore, permits from the San Bernardino County, Public Health, Environmental Health Services were not necessary.

### 2.2 Utility Clearance

On November 23, 2020, and more than 48 hours prior to drilling activities, Terracon marked the boring locations and contacted DigAlert (Ticket No: A203280129-01A) for clearance of public underground utilities in accordance with California law.

### 2.3 Soil Borings and Soil Sampling

On December 15, 2020, Terracon advanced nine (9) shallow soil borings (SB-1 to SB-9) using hand-auger tooling to a maximum depth of 2 feet below ground surface (bgs). 2R Drilling advanced one (1) deep soil boring (B-2) using a truck-mounted hollow stem auger (HSA) drill rig to a maximum depth of 31.5 feet below ground surface (bgs). The approximate boring locations are shown on **Exhibit 2** of **Appendix A** and are summarized below.

## Limited Site Investigation and Aerially Deposited Lead Report

Barton Road Bridge Removal and Road Construction Project

Project No. BRLS-5065(024); Bridge No. 54C-0379 ■ Colton and Grand Terrace, California

April 6, 2021 ■ Terracon Project No. CB175228



**Table 2.3 – Boring Locations**

Location ID	Total Depth (feet bgs)	Soil Sample Depth(s) (feet bgs)	Sample Type	Assessment Area
SB-1	0.5	0.5	Soil/Grab	Barton Road Shoulder
SB-2	1.0	0.5, 1.0	Soil/Grab	Barton Road Shoulder
SB-3	2.0	0.5, 1.0, 2.0	Soil/Grab	Barton Road Shoulder
SB-4	2.0	0.5, 1.0, 2.0	Soil/Grab	Barton Road Shoulder
SB-5	0.5	0.5	Soil/Grab	Barton Road Shoulder
SB-6	1.0	0.5, 1.0	Soil/Grab	Barton Road Shoulder
SB-7	2.0	0.5, 1.0, 2.0	Soil/Grab	Union Pacific Right-Of-Way
SB-8	2.0	0.5, 1.0, 2.0	Soil/Grab	Barton Road Shoulder
SB-9	0.5	0.5	Soil/Grab	Barton Road Shoulder
B-2	31.5	5.0, 10.0, 12.5, 17.5, 20.0, 22.5, 30.0	Soil /Grab	Barton Roadway

Terracon collected representative soil samples from the soil borings to document soil lithology, color, moisture content, and staining, if present. The soils encountered generally consisted of alternating layers of silty sand and sandy silt from subgrade to the maximum depth of exploration, 31.5 feet bgs. A sandy silt with gravel engineered fill material was encountered beneath the asphalt in boring B-2, from approximately 7.5 inches to 12.5 feet bgs. Detailed lithologic descriptions are presented on the soil boring logs included in **Appendix C**.

Terracon screened the soil samples in the field using a MiniRae 3000 photoionization detector (PID) with a 10.6eV lamp to indicate the presence of total organic vapors (TOV). Prior to field work, Terracon calibrated the PID with a 100-parts per million by volume (ppmv) isobutylene standard gas, and fresh air calibration. No soil staining was observed in the soil retrieved from the borings. The maximum PID reading of 1.9 ppmv was detected in the soil retrieved from 5 feet bgs in boring B-2. The PID readings are recorded on the soil boring logs included in **Appendix C**.

Terracon's soil sampling program included the analysis of one soil sample from SB-1 through SB-9 and a total of 7 samples from B-2. Terracon collected relatively undisturbed soil samples from new acetate sleeves driven by the direct-push rig. Samples were also collected in laboratory provided containers. The field crew used new nitrile gloves for each sample collection to prevent cross contamination. The samples were labeled, sealed, recorded on chain-of-custody forms and stored in a chilled ice chest pending delivery to the laboratory. Soil sample intervals for each boring are provided on the lithologic boring logs included in **Appendix C**.

Reusable drilling and sampling equipment was cleaned using an Alconox® or similar wash and two potable water rinses prior to the beginning of the project and before collecting each soil sample. Investigation derived waste (IDW) was not generated during this investigation.

### 3.0 LABORATORY ANALYTICAL METHODS

A total of twenty six (26) soil samples were selected for laboratory analysis. The soil samples and completed chain-of-custody forms were relinquished to SunStar Laboratories Inc., in Lake Forest, California, a State-of-California certified laboratory for analysis on a standard 5 business day turnaround time. The selected soil samples were analyzed using standard Environmental Protection Agency (EPA) methods and included one or more of the following analyses:

- lead by EPA Method 6010B
- lead, Soluble Threshold Limit Concentration (STLC) and Toxic Characteristic Leaching Procedure (TCLP) by EPA Method 6010B
- total petroleum hydrocarbons (TPH), carbon chain by EPA Method 8015B; and
- volatile organic compounds (VOCs) by EPA Method 8260B.

### 4.0 DATA EVALUATION

Terracon screened the analytical data using the current residential and commercial Environmental Screening Levels (ESLs) published by San Francisco Bay Regional Water Quality Control Board (2019, Rev. 2). The detection of an analyte at a concentration above a screening level does not necessarily indicate an adverse impact to human health or the environment; however, an exceedance of a screening level may indicate that additional investigation is warranted. Lead concentrations were also compared to U.S. EPA and State of California published concentrations for hazardous waste criteria.

#### 4.1 Soil Analytical Results – TPH and VOCs

The soil analytical results for samples collected from soil boring B-2 indicate VOCs were below the specified laboratory report limit (RL). TPH-diesel range organics (DRO) and TPH-motor oil range organics (MORO) were detected in the soil sample collected from B-2 at 20 feet bgs (B-2-20); however, the detected TPH-DRO and TPH-MORO concentrations were several orders of magnitude below their respective environmental screening limits for residential and commercial use. The soil analytical results are summarized in the following table and the laboratory analytical report and chain-of-custody forms are included in **Appendix D**.

## Limited Site Investigation and Aerially Deposited Lead Report

Barton Road Bridge Removal and Road Construction Project

Project No. BRLS-5065(024); Bridge No. 54C-0379 ■ Colton and Grand Terrace, California

April 6, 2021 ■ Terracon Project No. CB175228



**Table 4.1 - Soil Sample Analytical Results – TPH and VOCs**

Sample ID	Boring ID	Sample Date	Sample Depth (feet bgs)	TPH-GRO	TPH- DRO	TPH- MORO	VOCs
				EPA Method 8015B (mg/kg)			EPA Method 8260B (mg/kg)
B-2-5	B-2	12/15/2020	5	<10	<10	<10	ND*
B-2-17.5	B-2	12/15/2020	17.5	<10	<10	<10	ND*
B-2-20	B-2	12/15/2020	20	<10	<b>29</b>	<b>96</b>	ND*
B-2-22.5	B-2	12/15/2020	22.5	<10	<10	<10	ND*
B-2-30	B-2	12/15/2020	30	<10	<10	<10	ND*
<b>Screening Levels</b>							
<i>Residential ESLs</i>				430	260	12,000	--
<i>Commercial ESLs</i>				2,000	1,200	180,000	--

**Notes:**

All units are in milligrams per kilograms (mg/kg)

bgs= below ground surface

EPA = United States Environmental Protection Agency

TPH GRO = total petroleum hydrocarbons in gasoline carbon range (C6-C12);

TPH DRO = total petroleum hydrocarbons in diesel carbon range (C13-C28);

TPH MORO = total petroleum hydrocarbons in waste oil carbon range (C29-C40);

VOCs = Volatile Organic Compounds

ND\* = not detected above laboratory reporting limits. Multiple analytes, see laboratory report for specific reporting limits.

-- = multiple constituents for VOC analysis. Screening values omitted due to the ND laboratory results

"<" = less than the laboratory reporting limit specified

ESLs = San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (2019, Rev.2), Summary of Soil ESLs, Direct Exposure Human Health Risk Levels, Commercial/Industrial Shallow Soil Exposure, Table S-1.

## 4.2 Soil Analytical Results – Lead

Soil samples were collected and analyzed to evaluate Aerially Deposited Lead (ADL). Total lead concentrations were detected above the laboratory RL in all but four (4) samples. The detectable concentrations of total lead, total threshold limit concentration (TTLC), ranged from **3.1 to 85 mg/kg**, with the maximum total lead concentration detected in the sample collected at 0.5 feet bgs from soil boring SB-8-0.5.

In order to further evaluate the elevated total lead concentrations for waste characterization, seven (7) soil samples were also analyzed for leachable lead to determine the Soluble Threshold Limit Concentration (STLC), and/or the Toxicity Characteristic Leaching Procedure (TCLP) concentrations. The sample collected from SB-6 at 0.5 feet bgs (SB-6-0.5) exceeded the STLC limit (5 mg/l); however, the sample collected from SB-6 at 1 foot bgs (SB-6-1) indicates an STLC concentration below the laboratory RL. The one TCLP result was below the laboratory RL and TCLP limit (5 mg/l). The soil analytical results are summarized in the following table and the laboratory analytical report and chain-of-custody forms are included in **Appendix D**.

**Limited Site Investigation and Aerially Deposited Lead Report**

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April 6, 2021 ■ Terracon Project No. CB175228



**Table 4.2 - Soil Sample Analytical Results – Lead**

Boring ID	Sample ID	Sample Date	Sample Depth (feet bgs)	Lead	Lead - STLC	Lead - TCLP
				(mg/kg)	EPA Method 6010B (mg/L)	(mg/L)
B-2	B-2-5	12/15/2020	5	3.3	--	--
B-2	B-2-10	12/15/2020	10	3.5	--	--
B-2	B-2-12.5	12/15/2020	12.5	3.6	--	--
B-2	B-2-17.5	12/15/2020	17.5	3.1	--	--
B-2	B-2-20	12/15/2020	20	3.3	--	--
B-2	B-2-22.5	12/15/2020	22.5	<3	--	--
B-2	B-2-30	12/15/2020	30	<3	--	--
SB-1	SB-1-0.5	12/15/2020	0.5	4.6	--	--
SB-2	SB-2-0.5	12/15/2020	0.5	22	--	--
SB-2	SB-2-1	12/15/2020	1	26	--	--
SB-3	SB-3-0.5	12/15/2020	0.5	4.6	--	--
SB-3	SB-3-1	12/15/2020	1	3.2	--	--
SB-3	SB-3-2	12/15/2020	2	<3	--	--
SB-4	SB-4-0.5	12/15/2020	0.5	59	4.5	--
SB-4	SB-4-1	12/15/2020	1	32	1.3	--
SB-4	SB-4-2	12/15/2020	2	<3	--	--
SB-5	SB-5-0.5	12/15/2020	0.5	34	--	--
SB-6	SB-6-0.5	12/15/2020	0.5	59	6.8	--
SB-6	SB-6-1	12/15/2020	1	24	<0.5	--
SB-7	SB-7-0.5	12/15/2020	0.5	19	--	--
SB-7	SB-7-1	12/15/2020	1	19	--	--
SB-7	SB-7-2	12/15/2020	2	3.1	--	--
SB-8	SB-8-0.5	12/15/2020	0.5	85	4	<0.1
SB-8	SB-8-1	12/15/2020	1	4	<0.5	--
SB-8	SB-8-2	12/15/2020	2	3.9	--	--
SB-9	SB-9-0.5	12/15/2020	0.5	46	2.4	--
<b>Screening Levels</b>						
<i>Residential ESLs</i>				82	--	--
<i>Commercial ESLs</i>				380	--	--
<b>Waste Characterization Limits</b>						
<i>California TTLC Limit</i>				1,000	--	--
<i>California STLC Limit (mg/L)</i>				--	5	--
<i>Federal TCLP Limit (mg/L)</i>				--	--	5

**Notes:**

All units are in milligrams per kilograms (mg/kg), unless specified

mg/L = milligrams per liter

bgs = below ground surface

EPA = United States Environmental Protection Agency

NE = not established

< = less than the laboratory reporting limit specified

ESLs = Environmental Screening Levels (ESLs), Summary of Soil ESLs: Direct Exposure Human Health Risk Levels (Table S-1), San Francisco Bay Regional Water Quality Control Board, January 2019 (Rev. 2)

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Project No. BRLS-5065(024); Bridge No. 54C-0379 ■ Colton and Grand Terrace, California

April 6, 2021 ■ Terracon Project No. CB175228



### = Concentration above Residential ESL.

#### = Concentration above STLC Limit for waste characterization.

## 5.0 FINDINGS AND CONCLUSIONS

The findings of this LSI are as follows:

- The soils encountered generally consisted of alternating layers of silty sand and sandy silt from subgrade to the maximum depth of exploration, 31.5 feet bgs. A sandy silt with gravel engineered fill material was encountered beneath the asphalt in boring B-2, from approximately 7.5 inches to 12.5 feet bgs.
- Field observations (no staining) and PID readings (maximum of 1.9 ppmv, B-2 at 5 feet bgs) indicated no significant impacts to the soils encountered.
- **VOC** concentrations were below the specified laboratory report limit for the soil samples analyzed from soil boring B-2.
- **TPH-DRO and TPH-MORO** concentrations were detected in the soil sample analyzed from B-2 at 20 feet bgs (B-2-20), but at concentrations below their respective environmental screening limits for residential and commercial use.
- **Lead** concentrations were detected above the laboratory RL in all but four (4) samples. The detectable concentrations of total lead ranged from **3.1 to 85 mg/kg**, with the maximum total lead concentration detected in the sample collected at 0.5 feet bgs from soil boring SB-8-0.5.
- Further **lead** analysis (waste characterization) indicated an STLC concentration of **6.8 mg/L** in sample SB-6-0.5, which exceeds the STLC limit (*5 mg/l*); however, the sample collected from SB-6 at 1 foot bgs (SB-6-1) indicates an STLC concentration below the laboratory RL. The one TCLP result was below the laboratory RL and TCLP limit (*5 mg/l*).
- Elevated **lead** concentrations, interpreted as ADL, were limited to the soil samples collected from 0.5 feet bgs. Total lead concentrations were below the environmental screening limits for commercial use.
- Groundwater was not encountered to the total depth of 31.5 feet bgs. Groundwater in the vicinity of the site was estimated to be at a depth of approximately 160 feet bgs.
- IDW was not generated for this investigation.

Based on the field observations and laboratory data, evidence of significant impairment were not identified in the areas accessible and investigated, and at the time the investigation was conducted.

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April 6, 2021 ■ Terracon Project No. CB175228

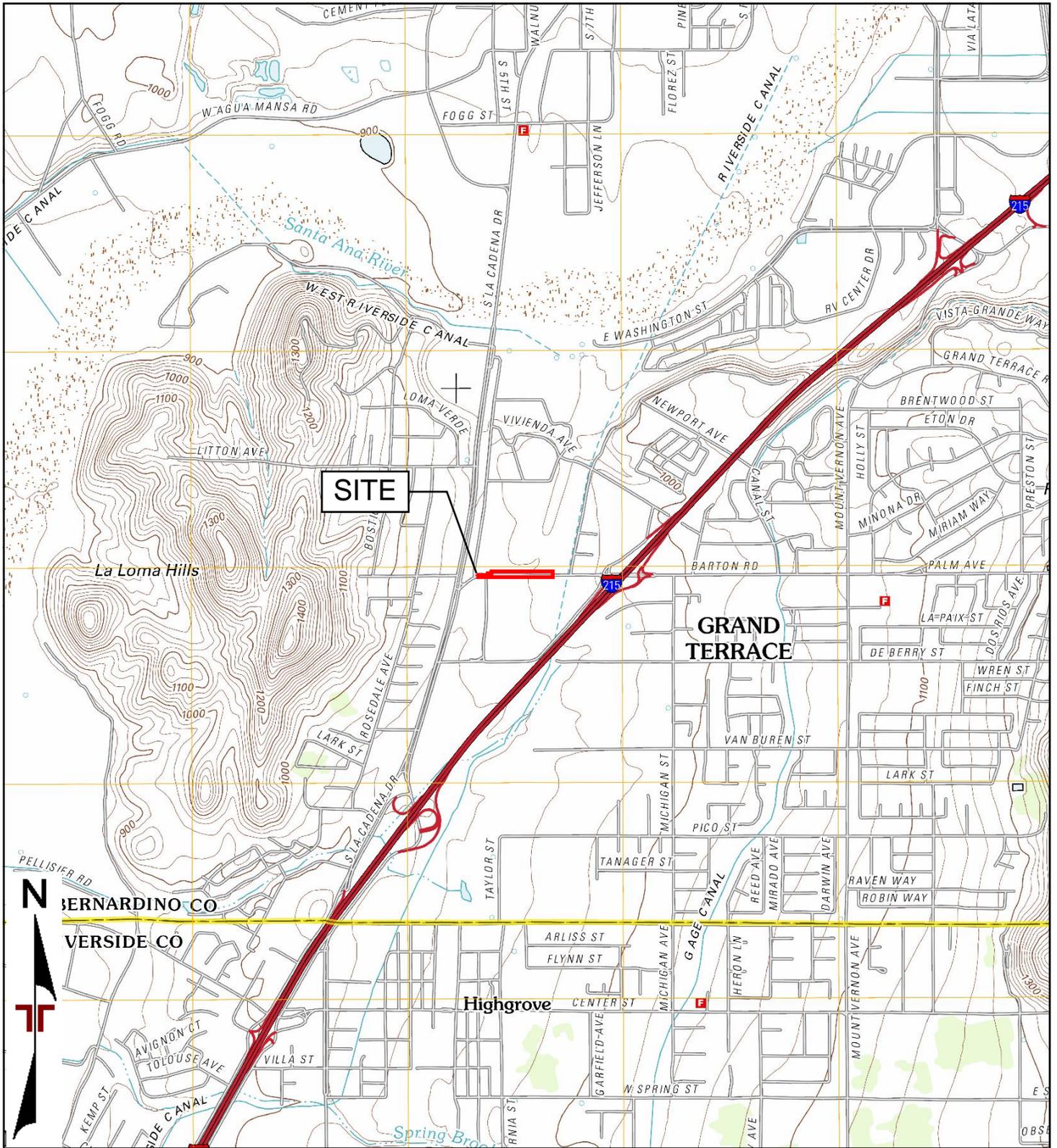


## 6.0 RECOMMENDATIONS

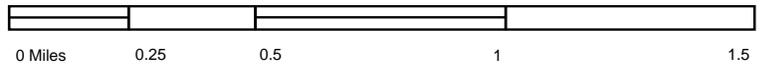
Based on the above findings and conclusions, and the planned continued commercial use of the site, Terracon has the following recommendations:

- Based on the field observations and laboratory analytical results, additional assessment of the soil does not appear warranted at this time.
- Although Terracon did not identify soil impacts above applicable regulatory screening levels or above the applicable residential and commercial screening levels, at the areas explored, there is the potential that other areas of the site may have impacts, as a result of the current and historical uses, including ADL. Based on detection of elevated lead, a soil management plan should be developed and followed if soil will be disturbed during future excavations or construction activities, in order to ensure proper procedures are followed with respect to worker health and safety. If affected soil is encountered, the soil should be properly characterized, treated, and/or disposed in accordance with applicable local, state or federal regulations.

**APPENDIX A**  
**EXHIBIT 1 – TOPOGRAPHIC MAP**  
**EXHIBIT 2 – SITE DIAGRAM**



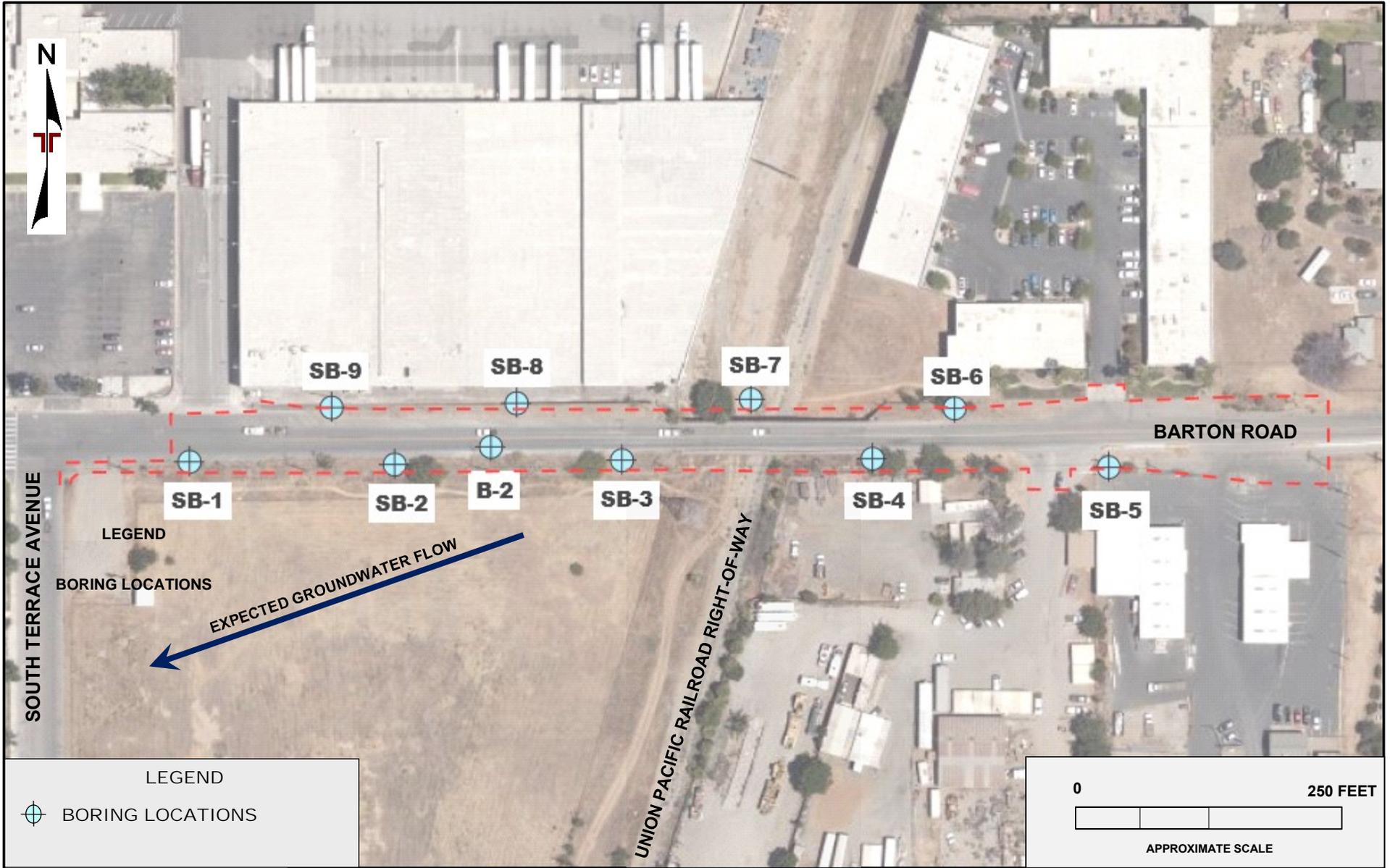
TOPOGRAPHIC MAP IMAGE COURTESY OF THE U.S. GEOLOGICAL SURVEY  
 QUADRANGLES INCLUDE: SAN BERNARDINO SOUTH, CA (2012).



Project Manager:	Project No.
TGM	CB175228
Drawn by:	Scale:
LSH	As Shown
Checked by:	File Name:
TGM	N/A
Approved by:	Date:
CAP	2012

**Terracon**  
 1355 East Cooley Drive, Suite C  
 Colton, California 92324

2012 TOPOGRAPHIC MAP	Exhibit
Barton Road Bridge Removal and Road Construction Barton Road, West of Grand Terrace Road Colton and Grand Terrace, California	1



Project Manager:	TGM
Drawn by:	TCJ
Checked by:	TGM
Approved by:	CAP

Project No.	CB175228
Scale:	AS SHOWN
File Name:	N/A
Date:	3/8/2021

<b>Terracon</b>	
1355 E Cooley Dr, Ste C Colton, CA 92324-3954	

<b>SITE DIAGRAM</b>	
<b>Barton Road Bridge Removal &amp; Road Construction</b> Barton Road , West of Grand Terrace Road Colton and Grand Terrace, California	

0	250 FEET
APPROXIMATE SCALE	

Exhibit
2

# APPENDIX B PERMITS



# City of Colton

Public Works/Engineering Division - (909) 370-5066 or 370-5065  
650 N. La Cadena Drive, Colton, CA 92324

## ENCROACHMENT PERMIT

Permit No. ENC-000-548

Subject to the provisions that follow, the City of Colton grants permission to **Terracon**, hereinafter referred to as "Permittee", to maintain the following encroachment upon land owned by the City:

encorachment will consist of hand-augered borings for environmental sampling along the north and south shoulders of Barton Rd. as well as one vertical geotechnical boring in the west-bound lane and one below bridge

EACH ENCROACHMENT PERMIT WILL HAVE ITS OWN ATTACHED LIST OF CONDITIONS THAT APPLIES TO THAT PARTICULAR REQUEST OR CASE.

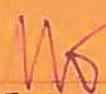
By acceptance of this permit, the Permittee agrees to the following.

1. The encroachment described above shall be maintained by Permittee in a sound, aesthetically pleasing and safe condition, as determined by the City. In the event that the Permittee fails to maintain said encroachment in such a condition, the Permittee agrees to reimburse the City for any and all costs incurred for having corrective work performed by City forces or under contract.
2. No modifications to said encroachment shall be made without obtaining a Public Works Construction Permit from the City Engineer.
3. Permittee shall indemnify, defend and hold harmless the City, its officers and its employees against any demands, claims or liability arising out of or in connection with the encroachment described above.

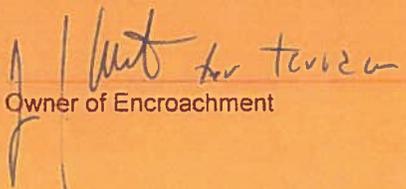
Should the Permittee fail to comply with any of the above requirements, the City may revoke this permit at any time.

APPROVED:  
CITY OF COLTON  
Public Works / Engineering

ACCEPTED:

  
City Engineer

11/12/20  
Date

 for terracon  
Owner of Encroachment

11/13/2020  
Date

**City of Colton**659 North La Cadena Drive  
Colton, CA 92324  
(909) 370-5131**INSPECTION RECORD**Permit No. ENC-000-548  
Permit Type: Encroachment  
Permit Issue Date: November 12, 2020**POST CONSPICUOUSLY ON THE JOB**

<b>Building Address</b>	Barton Rd	<b>Sq. Ft. Size</b>	<b>Liv.</b>	<b>Gar.</b>	<b>Rmdl.</b>	<b>Porch</b>	<b>Patio</b>
<b>Owner Name and Address</b>		<b>Sq. Ft. Size</b>					
<b>Contractor Name and Address</b>	2 R Drilling Inc. 6939 Schaefer Ave Chino, CA	<b>Code Year</b>					
<b>State Lic. &amp; Classif.</b>		<b>Proposed Construction:</b>	encorachment will consist of hand-augered borings for environmental sampling along the				
			Office Hours 7:30 am to 5:00pm Monday through Thursday				
			Call (909) 370-5131 before 4:30 pm for next day inspection on days of operation.				
			Call (909) 370-5079 between 7:30 -8:00 am for approximate time of inspection				

Description	Date	Inspector	Description	Date	Inspector	Description	Date	Inspector
Field Inspection			Field Re-inspection			Engineering Final Inspection		



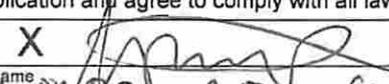
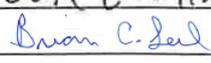
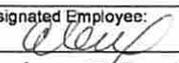
Public Health  
 Environmental Health Services

[www.SBCounty.gov](http://www.SBCounty.gov)  
[www.sbcounty.gov/dph/dehs](http://www.sbcounty.gov/dph/dehs)  
 Phone: (800) 442-2283



**APPLICATION FOR WELL PERMIT**

THIS SECTION TO BE COMPLETED BY APPLICANT • HEALTH PERMITS ARE NOT TRANSFERABLE				
<b>1 – PROPERTY INFORMATION</b>				
Property Owner <b>City of Colton</b>			Phone Number <b>9093706131</b>	
Site Address <b>Barton Road</b>		City <b>Colton</b>	State <b>CA</b>	Zip <b>92324</b>
Assessor's Parcel Number <b>ROW 116705118 (nearest)</b>		Email <b>vortiz@coltonca.gov</b>		
Township	N/S Tier <b>2S</b>	E/W Range <b>4W</b>	Section <b>6</b>	
Well Head	Latitude (decimal) <b>34.033833</b>	Longitude (decimal) <b>-117.329701</b>		
Property Owner's Mailing Address <b>650 N. La Cadena Dr.</b>		City <b>Colton</b>	State <b>CA</b>	Zip <b>92324</b>
<b>2 – CONSULTANT INFORMATION</b>				
Name of Consultant <b>Terracon Consultants Inc.</b>		Email <b>sfparoski@terracon.com</b>		Phone Number <b>805-910-9393</b>
Address <b>1355 E. Cooley Dr. Suite C / Sean</b>		City <b>Colton</b>	State <b>CA</b>	Zip <b>92324</b>
<b>3 – REGISTERED WELL DRILLER INFORMATION</b>				
Name of Driller <b>2R Drilling</b>			Phone Number <b>(909) 490-0530</b>	
Email <b>info@2rdrilling.com</b>		C-57 License Number <b>709029</b>		
Return well permit to <input type="checkbox"/> Well Driller <input checked="" type="checkbox"/> Consultant <input type="checkbox"/> Property Owner			Return by <input type="checkbox"/> Mail <input checked="" type="checkbox"/> Email	
<b>4 – TYPE OF WORK</b>				
<input checked="" type="checkbox"/> New		<input type="checkbox"/> Reconstruction		<input type="checkbox"/> Destruction
Date of Work <del>11/02/2020</del>	Start Date <del>11/28/2020</del>	Completion Date <b>12/21</b>	Estimated groundwater depth	
<b>5 – WELL TYPE</b>				
<input type="checkbox"/> Agriculture		<input type="checkbox"/> Geothermal		<input type="checkbox"/> Industrial
<input type="checkbox"/> Cathodic		<input type="checkbox"/> Horizontal		<input type="checkbox"/> Monitoring/Observation
<input type="checkbox"/> Community/PWS/City – Specify Use Below		<input type="checkbox"/> Residential – cannot be used as a community well		<input type="checkbox"/> Test
Use:		<input checked="" type="checkbox"/> Other Geotechnical soil sampling		
<b>6 – ANNULAR SEAL</b>				
Seal Depth (ft.) <b>30 - IMMEDIATELY BACKFILLED UPON COMPLETION</b>				
<input type="checkbox"/> Driven Conductor Diameter (in.)		<input type="checkbox"/> Wall (gauge) (in.)		<input type="checkbox"/> Drilling method
<input type="checkbox"/> Sealing Material		<input type="checkbox"/> Thickness (in.)		
Sealing material shall be placed in one continuous pour. Annular seal thickness must be at least 2 inches for public water supply wells.				
<b>ITEMS 7 THROUGH 10 TO BE ESTIMATED FOR NEW WELLS, EXACT FOR ALL OTHER WELLS</b>				
<b>7 – DIMENSIONS</b>				
Proposed Depth of Well (ft.) <b>30</b>		Existing Depth of Well (ft.) <b>0</b>		Diameter of Bore (in.) <b>8</b>
<b>8 – CASING INSTALLED</b>				
<input type="checkbox"/> Casing Material		<input type="checkbox"/> ATSM/AWWA/APPI <b>N/A</b>		
<b>From (ft.)</b>	<b>To (ft.)</b>	<b>Diameter (in.)</b>	<b>Wall (Gauge)</b>	
Gravel Pack	<input type="checkbox"/> Yes <input type="checkbox"/> No	From (ft.)	To (ft.)	
Specify Other Backfill Material		From (ft.)	To (ft.)	

9 – PERFORATIONS (list all if applicable)			
From (ft.)	N/A	To (ft.)	Well Screen Size
Pumping Rate (gpm)			
10 – SEALED ZONES (list all if applicable)			
From (ft.)			To (ft.)
11 – PLOT PLAN			
<p>a) In perspective to the well site, sketch and label the following items <u>on a separate paper</u>: well lot property lines, other wells (include abandoned wells), sewage disposal systems (sewers, septic tanks, leaching fields, seepage pits, cesspools), lakes and ponds, watercourses and animals or fowl kept.</p> <p>b) Indicate the distance, in <b>feet</b>, of any of the above which are within 500 ft. of the well site. The plot plan needs to be drawn to scale (½ inch = 100 feet). Show the approximate drainage pattern of the property and show access roads to the well site within 500 feet.</p> <p>c) <input type="checkbox"/> None of the above is within 500 feet.</p> <p>d) Solid or Liquid Disposal Site within Two Miles <input type="checkbox"/> Yes <input type="checkbox"/> No Location</p>			
12 – METHOD OF CONSTRUCTION OR DESTRUCTION			
<p>Provide the method of construction/destruction in the space below or as an attachment if more space is needed. The method shall be in accordance with the standards recommended in the California Department of Water Resources Bulletin No. 74-81 and 74-90. Title 22 standards shall also be followed for public water supply wells.</p> <p>I will submit water well drillers report to Environmental Health Services within 30 days of completion, and will construct or destroy well/borings in accordance with the permit application and Water Well Standards Bulletin 74-81 &amp; 74-90.</p> <p>Borings will be drilled with hollow-stem augers using a track or truck-mounted rig. Soil samples will be taken periodically and removed off-site for testing. Boring will be backfilled with cement/bentonite grout.</p>			
13 – AGREEMENT AND SIGNATURE			
I have read this application and agree to comply with all laws regulating the type of work being performed.			
Property Owner's Signature	<i>X</i> 	Date	11/17/20
Print Property Owner's Name Victor Ortiz, P.E., City Engineer			
C-57 Contractor's Signature	<i>X</i> Brianna Lee 	Date	11/17/2020
Print Contractor's Name			
For Office Use Only		DISPOSITION OF PERMIT	
<input type="checkbox"/> Sent to Water Agency	<input type="checkbox"/> Water Agency conditions or recommendations attached	<input type="checkbox"/> Denied	<input checked="" type="checkbox"/> Approved <u>subject to the following:</u>
		Permit Number:	2020121051
		Expiration Date:	6-8-2021
		WP Number:	WP0036641
<p>A. <input type="checkbox"/> Notify the Division's Safe Drinking Water Program at (800) 442-2283 at least seventy two (72) hours in advance to make an inspection of the following operations: (Inspections are conducted Monday – Friday between 8:00 AM to 5:00 PM). Failure to cancel or reschedule appointments may result in an additional hourly fee.</p> <p><input type="checkbox"/> Prior to sealing of the annular space or filling of the conductor casing.</p> <p><input type="checkbox"/> After installation of the surface protective slab and pumping equipment.</p> <p><input type="checkbox"/> After installation of the surface features.</p> <p><input type="checkbox"/> During destruction of wells, prior to pouring the sealing material.</p> <p>B. <input type="checkbox"/> Submit to the Division, within thirty (30) days after completion of work, a copy of:</p> <p><input type="checkbox"/> Water Well Driller's Report    <input type="checkbox"/> Bacterial Analysis    <input type="checkbox"/> Inorganic Chemical Analysis    <input type="checkbox"/> General Physical</p> <p><input type="checkbox"/> Radiological Analysis    <input type="checkbox"/> Nitrate as Nitrogen    <input type="checkbox"/> Organic Chemical Analysis    <input type="checkbox"/> General Mineral</p>			
Comments			
For Office Use Only    For Office Use Only    For Office Use Only    For Office Use Only    For Office Use Only			
Fee:	FA Number:	Record ID:	PE Number:
320.00		98861	4555
Late Fee:	Designated Employee:	Received By:	Date:
<input type="checkbox"/> Y <input checked="" type="checkbox"/> N			11-18-2020
Check One:	Changes (please specify):		
<input checked="" type="checkbox"/> New <input type="checkbox"/> Transfer <input type="checkbox"/> Reactivate			

*Ouleno Permit*





**Public Health**  
 Environmental Health Services

[www.SBCounty.gov](http://www.SBCounty.gov)  
[www.sbcounty.gov/dph/dehs](http://www.sbcounty.gov/dph/dehs)  
 Phone: (800) 442-2283



**APPLICATION FOR WELL PERMIT**

THIS SECTION TO BE COMPLETED BY APPLICANT • HEALTH PERMITS ARE NOT TRANSFERABLE			
<b>1 – PROPERTY INFORMATION</b>			
Property Owner	City of Colton		Phone Number 9093706131
Site Address	Barton Road	City	Colton State CA Zip 92324
Assessor's Parcel Number	ROW 116705118 (nearest)		Email vortiz@coltonca.gov
Township	N/S Tier 2S	E/W Range	4W Section 6
Well Head	Latitude (decimal) 34.033845	Longitude (decimal)	-117.330457
Property Owner's Mailing Address	650 N. La Cadena Dr.		City Colton State CA Zip 92324
<b>2 – CONSULTANT INFORMATION</b>			
Name of Consultant	Terracon Consultants Inc.		Email sfparoski@terracon.com Phone Number 805-910-9393
Address	1355 E. Cooley Dr. Suite C		City Colton State CA Zip 92324
<b>3 – REGISTERED WELL DRILLER INFORMATION</b>			
Name of Driller	2R Drilling		Phone Number (909) 490-0530
Email	info@2rdrilling.com		C-57 License Number 709029
Return well permit to	<input type="checkbox"/> Well Driller <input checked="" type="checkbox"/> Consultant <input type="checkbox"/> Property Owner		Return by <input type="checkbox"/> Mail <input checked="" type="checkbox"/> Email
<b>4 – TYPE OF WORK</b>			
<input checked="" type="checkbox"/> New <input type="checkbox"/> Reconstruction <input type="checkbox"/> Destruction			
Date of Work	11/02/2020	Start Date	11/23/2020 Completion Date 12/21 Estimated groundwater depth
<b>5 – WELL TYPE</b>			
<input type="checkbox"/> Agriculture <input type="checkbox"/> Geothermal <input type="checkbox"/> Industrial <input type="checkbox"/> Cathodic <input type="checkbox"/> Horizontal <input type="checkbox"/> Monitoring/Observation <input type="checkbox"/> Community/PWS/City – Specify Use Below <input type="checkbox"/> Residential – cannot be used as a community well <input type="checkbox"/> Test Use: <input checked="" type="checkbox"/> Other Geotechnical soil sampling			
<b>6 – ANNULAR SEAL</b>			
Seal Depth (ft.) 30 - IMMEDIATELY BACKFILLED VIA TREMIE METHOD UPON COMPLETION			
<input type="checkbox"/> Driven Conductor Diameter (in.) <input type="checkbox"/> Wall (gauge) (in.) <input type="checkbox"/> Drilling method <input type="checkbox"/> Sealing Material <input type="checkbox"/> Thickness (in.)			
Sealing material shall be placed in one continuous pour. Annular seal thickness must be at least 2 inches for public water supply wells.			
<b>ITEMS 7 THROUGH 10 TO BE ESTIMATED FOR NEW WELLS, EXACT FOR ALL OTHER WELLS</b>			
<b>7 – DIMENSIONS</b>			
Proposed Depth of Well (ft.)	30	Existing Depth of Well (ft.)	0 Diameter of Bore (in.) 8
<b>8 – CASING INSTALLED</b>			
<input type="checkbox"/> Casing Material <input type="checkbox"/> ATSM/AWWA/APPI N/A			
From (ft.)		To (ft.) Diameter (in.) Wall (Gauge)	
Gravel Pack <input type="checkbox"/> Yes <input type="checkbox"/> No		From (ft.)	To (ft.)
Specify Other Backfill Material		From (ft.)	To (ft.)

9 - PERFORATIONS (list all if applicable)							
From (ft.)	N	To (ft.)	Well Screen Size	Pumping Rate (gpm)			
10 - SEALED ZONES (list all if applicable)							
From (ft.)			To (ft.)				
11 - PLOT PLAN							
<p>a) In perspective to the well site, sketch and label the following items <u>on a separate paper</u>: well lot property lines, other wells (include abandoned wells), sewage disposal systems (sewers, septic tanks, leaching fields, seepage pits, cesspools), lakes and ponds, watercourses and animals or fowl kept.</p> <p>b) Indicate the distance, in <b>feet</b>, of any of the above which are within 500 ft. of the well site. The plot plan needs to be drawn to scale (1/2 inch = 100 feet). Show the approximate drainage pattern of the property and show access roads to the well site within 500 feet.</p> <p>c) <input type="checkbox"/> None of the above is within 500 feet.</p> <p>d) Solid or Liquid Disposal Site within Two Miles <input type="checkbox"/> Yes <input type="checkbox"/> No Location</p>							
12 - METHOD OF CONSTRUCTION OR DESTRUCTION							
<p>Provide the method of construction/destruction in the space below or as an attachment if more space is needed. The method shall be in accordance with the standards recommended in the California Department of Water Resources Bulletin No. 74-81 and 74-90. Title 22 standards shall also be followed for public water supply wells.</p> <p>I will submit water well drillers report to Environmental Health Services within 30 days of completion, and will construct or destroy well/borings in accordance with the permit application and Water Well Standards Bulletin 74-81 &amp; 74-90.</p> <p>Borings will be drilled with hollow-stem augers using a track or truck-mounted rig. Soil samples will be taken periodically and removed off-site for testing. Boring will be backfilled with cement/bentonite grout and patched with asphalt.</p>							
13 - AGREEMENT AND SIGNATURE							
I have read this application and agree to comply with all laws regulating the type of work being performed.							
Property Owner's Signature <i>[Signature]</i>			Date 11/17/20				
Print Property Owner's Name <i>VICTOR ORTIZ P.E., Civil Engineer</i>							
C-57 Contractor's Signature <i>X Brianna Lee</i>			Date 11/17/2020				
Print Contractor's Name <i>Brian C. Lee</i>							
For Office Use Only		DISPOSITION OF PERMIT		For Office Use Only		DISPOSITION OF PERMIT	
<input type="checkbox"/> Sent to Water Agency		Permit Number: 2020121052		<input type="checkbox"/> Water Agency conditions or recommendations attached		Expiration Date: 6-8-2021	
<input type="checkbox"/> Denied		WP Number: WP0036642		<input checked="" type="checkbox"/> Approved <del>subject to the following:</del>			
A. <input type="checkbox"/>		Notify the Division's Safe Drinking Water Program at (800) 442-2283 at least seventy two (72) hours in advance to make an inspection of the following operations: (Inspections are conducted Monday - Friday between 8:00 AM to 5:00 PM). Failure to cancel or reschedule appointments may result in an additional hourly fee.					
		<input type="checkbox"/> Prior to sealing of the annular space or filling of the conductor casing.					
		<input type="checkbox"/> After installation of the surface protective slab and pumping equipment.					
		<input type="checkbox"/> After installation of the surface features.					
		<input type="checkbox"/> During destruction of wells, prior to pouring the sealing material.					
B. <input type="checkbox"/>		Submit to the Division, within thirty (30) days after completion of work, a copy of:					
		<input type="checkbox"/> Water Well Driller's Report		<input type="checkbox"/> Bacterial Analysis		<input type="checkbox"/> Inorganic Chemical Analysis	
		<input type="checkbox"/> Radiological Analysis		<input type="checkbox"/> Nitrate as Nitrogen		<input type="checkbox"/> Organic Chemical Analysis	
						<input type="checkbox"/> General Physical	
						<input type="checkbox"/> General Mineral	
Comments							
For Office Use Only		For Office Use Only		For Office Use Only		For Office Use Only	
Fee: 320.00		FA Number:		Record ID: 98861		PE Number: 4555	
Late Fee: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N		Designated Employee: <i>[Signature]</i>		Received By: <i>[Signature]</i>		Date: 11-18-2020	
Check One: <input checked="" type="checkbox"/> New		<input type="checkbox"/> Transfer		<input type="checkbox"/> Reactivate		Changes (please specify):	

*[Handwritten Signature]*



CITY OF COLTON  
PUBLIC WORKS DEPARTMENT    ENGINEERING DIVISION  
**APPLICATION FOR STREET CUT PERMIT**

DATE: 12/7/2020    WORK ORDER No: \_\_\_\_\_    PROPOSED START DATE: 12/15/2020

The undersigned hereby applies for a permit to excavate, cut or bore within the public right of way within the City of Colton for the following purpose: Soil sampling

The proposed work relates to the following work or project: Barton Rd. Bridge Decommissioning

I agree to comply with all provisions of City Ordinance No. 875, and the current amendments thereto, and to pay for any additional area of pavement in excess of the amount shown below which may be cut or damaged as a result of any work accomplished under authority of a permit issued on the information listed below.

\_\_\_\_\_  
Signature of Applicant's Authorized Agent

NAME OF STREET(S) AND SPECIFIC LOCATION(S): \_\_\_\_\_

**FEE CALCULATION: TO BE COMPLETED BY APPLICANT & VERIFIED BY CITY OF COLTON**

Width	X	Length =	Square Feet	X	Unit Cost	=	Permit Fee
_____	X	=	<u>30</u>	SF	X	<u>2.0</u>	= \$ _____
_____	X	=	_____	SF	X	_____	= \$ _____
_____	X	=	_____	SF	X	_____	= \$ _____
_____	X	=	_____	SF	X	_____	= \$ _____

**TOTAL AMOUNT DUE: \$ \_\_\_\_\_**

Asphalt @\$1.00/SF     Earth @\$0.25/SF     Concrete @\$2.00/SF     Bore @\$2.00/LF     Aerial @ \$35 + \$0.25/LF

Minimum Trench Width = 2'

<b>APPLICANT</b>	<u>Terracon Consultants</u>	<b>Permit No. &amp; Date Issued</b>
<b>ADDRESS</b>	<u>1355 E. Cooley Dr. Suite C, Colton, CA 92324</u>	<u>ENC-000-548</u>
<b>PHONE NO.</b>	<u>909-301-6040</u>	<u>11/13/2020</u>
	<b>FAX NO.</b> <u>909-301-6016</u>	
<b>E-MAIL</b>	<u>sfparoski@terracon.com</u>	

WORK PERFORMED BY:     PROPERTY OWNER\*                       CONTRACTOR\*\*  
                                          \*\*\*Must be supplied by all applicants                      \*\*Must Supply All Information Requested Below

**CONTRACTOR**    2R Drilling

**ADDRESS**    6939 Schaefer Ave. Suite D-304, Chino, CA 91710

**USA No(s). \*\*\***    A203280129

**City Busn. Lic.#, expiration** \_\_\_\_\_ **Contractor's Lic.#, expiration** C57 709029 Exp: 06/30/2021

**CONTACT PERSON (Office)**    Sean Paroski (805-910-9393)    **(Field)**    same

**INSURANCE:**

\*Current copy of Homeowners Policy

\*\*Current Certificate of Insurance General Liability minimum \$1,000,000 with City of Colton named as "additional insured"

**REFUNDABLE DEPOSIT:**

A refundable deposit based upon the cost of final trench repair (Minimum \$250) is required. A written request for a Refund of Deposit may be submitted upon final approval of trench repair. Fee Schedule is available

## **APPENDIX C BORING LOGS**

# BORING LOG NO. SB-1

**PROJECT: Barton Road Bridge Removal and Road Construction**

**CLIENT: CNS Engineers, Inc.  
Riverside, CA**

**SITE: Barton Road  
Colton, CA**

GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 34.0338° Longitude: -117.3314°	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	PID
-------------	----------------------------------------------------------------------	-------------	--------------------------	-------------	-----

DEPTH	<b>SILTY SAND (SM)</b> , fine grained, Medium Brown, moist, loose				
0.5				Hand	0.0

**Boring Terminated at 0.5 Foot**

Stratification lines are approximate. In-situ, the transition may be gradual.

Advancement Method: 3" Hand Auger	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). See Appendix C for explanation of symbols and abbreviations.	Notes:	
Abandonment Method: Boring backfilled with auger cuttings upon completion.			
<b>WATER LEVEL OBSERVATIONS</b> <i>Groundwater not encountered</i>	<p style="font-size: 0.8em; color: red;">1355 E Cooley Dr, Ste C Colton, CA</p>	Boring Started: 12-15-2020 Drill Rig: N/A Project No.: CB175228	Boring Completed: 12-15-2020 Driller: Terracon Exhibit: A-1

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL CB175228\_BARTON ROAD\_ENVIRONMENTAL BORING LOGS.GPJ TERRACON DATATEMPLATE.GDT 3/11/21

# BORING LOG NO. SB-2

**PROJECT:** Barton Road Bridge Removal and Road Construction

**CLIENT:** CNS Engineers, Inc.  
Riverside, CA

**SITE:** Barton Road  
Colton, CA

GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 34.0338° Longitude: -117.3308°	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	PID
-------------	----------------------------------------------------------------------	-------------	--------------------------	-------------	-----

DEPTH	SANDY SILT (ML), fine grained, medium brown, moist, loose				
1.0				0.0	
1.0				0.0	

**Boring Terminated at 1 Foot**

Stratification lines are approximate. In-situ, the transition may be gradual.

Advancement Method: 3" Hand Auger	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). See Appendix C for explanation of symbols and abbreviations.	Notes:	
Abandonment Method: Boring backfilled with auger cuttings upon completion.			
<b>WATER LEVEL OBSERVATIONS</b> Groundwater not encountered	1355 E Cooley Dr, Ste C Colton, CA	Boring Started: 12-15-2020	Boring Completed: 12-15-2020
		Drill Rig: N/A	Driller: Terracon
		Project No.: CB175228	Exhibit: A-2

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_CB175228\_BARTON ROAD\_ENVIRONMENTAL BORING LOGS.GPJ\_TERRACON\_DATATEMPLATE.GDT\_3/11/21

# BORING LOG NO. SB-3

**PROJECT: Barton Road Bridge Removal and Road Construction**

**CLIENT: CNS Engineers, Inc.  
Riverside, CA**

**SITE: Barton Road  
Colton, CA**

GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 34.0338° Longitude: -117.3301°	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	PID
-------------	----------------------------------------------------------------------	-------------	--------------------------	-------------	-----

DEPTH	<b>SILTY SAND</b> , fine grained, medium brown, moist, loose	1			0.0
2.0	<b>Boring Terminated at 2 Feet</b>	2			0.0

Stratification lines are approximate. In-situ, the transition may be gradual.

Advancement Method: 3" Hand Auger	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). See Appendix C for explanation of symbols and abbreviations.	Notes:	
Abandonment Method: Boring backfilled with auger cuttings upon completion.		Boring Started: 12-15-2020	Boring Completed: 12-15-2020
<b>WATER LEVEL OBSERVATIONS</b> <i>Groundwater not encountered</i>	 1355 E Cooley Dr, Ste C Colton, CA	Drill Rig: N/A	Driller: Terracon
		Project No.: CB175228	Exhibit: A-3

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_CB175228\_BARTON ROAD ENVIRONMENTAL BORING LOGS.GPJ TERRACON DATATEMPLATE.GDT 3/11/21

# BORING LOG NO. SB-4

**PROJECT:** Barton Road Bridge Removal and Road Construction

**CLIENT:** CNS Engineers, Inc.  
Riverside, CA

**SITE:** Barton Road  
Colton, CA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_CB175228\_BARTON ROAD\_ENVIRONMENTAL BORING LOGS.GPJ\_TERRACON\_DATATEMPLATE.GDT\_3/11/21

GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 34.0338° Longitude: -117.3293°	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	PID
DEPTH					
0.2	<b>ASPHALTIC CEMENT CONCRETE</b> , with gravel				
0.5	<b>POORLY GRADED SAND WITH GRAVEL (SP)</b> , fine to medium grained, gray, dry, loose			Hand	0.0
2.0	<b>SILTY SAND (SM)</b> , fine to medium grained, brown, moist, loose	1		Hand	0.0
2.0	<b>Boring Terminated at 2 Feet</b>	2		Hand	0.0

Stratification lines are approximate. In-situ, the transition may be gradual.

Advancement Method: 3" Hand Auger	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). See Appendix C for explanation of symbols and abbreviations.	Notes:	
Abandonment Method: Boring backfilled with auger cuttings upon completion.			
<b>WATER LEVEL OBSERVATIONS</b>	<b>Terracon</b> 1355 E Cooley Dr, Ste C Colton, CA	Boring Started: 12-15-2020	Boring Completed: 12-15-2020
<i>Groundwater not encountered</i>		Drill Rig: N/A	Driller: Terracon
		Project No.: CB175228	Exhibit: A-4

# BORING LOG NO. SB-5

**PROJECT:** Barton Road Bridge Removal and Road Construction

**CLIENT:** CNS Engineers, Inc.  
Riverside, CA

**SITE:** Barton Road  
Colton, CA

GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 34.0338° Longitude: -117.3286°	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	PID
-------------	----------------------------------------------------------------------	-------------	--------------------------	-------------	-----

DEPTH	0.5 <b>SILTY SAND (SM)</b> , fine grained, light brown, dry, loose				
-------	-----------------------------------------------------------------------	--	--	--	--

0.5	<b>Boring Terminated at 0.5 Foot</b>				0.5
-----	--------------------------------------	--	--	--	-----

Stratification lines are approximate. In-situ, the transition may be gradual.

Advancement Method: 3" Hand Auger	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). See Appendix C for explanation of symbols and abbreviations.	Notes:	
Abandonment Method: Boring backfilled with auger cuttings upon completion.			
<b>WATER LEVEL OBSERVATIONS</b> <i>Groundwater not encountered</i>	 1355 E Cooley Dr, Ste C Colton, CA	Boring Started: 12-15-2020 Drill Rig: N/A Project No.: CB175228	Boring Completed: 12-15-2020 Driller: Terracon Exhibit: A-5

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_CB175228\_BARTON ROAD\_ENVIRONMENTAL BORING LOGS.GPJ\_TERRACON\_DATATEMPLATE.GDT\_3/11/21

# BORING LOG NO. SB-6

**PROJECT:** Barton Road Bridge Removal and Road Construction

**CLIENT:** CNS Engineers, Inc.  
Riverside, CA

**SITE:** Barton Road  
Colton, CA

GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 34.0339° Longitude: -117.3290°	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	PID
-------------	----------------------------------------------------------------------	-------------	--------------------------	-------------	-----

DEPTH	1.0 <b>SILTY SAND (SM)</b> , fine grained, light brown, dry, loose	1		Hand	0.0
				Hand	0.0

**Boring Terminated at 1 Foot**

Stratification lines are approximate. In-situ, the transition may be gradual.

Advancement Method: 3" Hand Auger	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any).	Notes:	
Abandonment Method: Boring backfilled with auger cuttings upon completion.	See Appendix C for explanation of symbols and abbreviations.		
<b>WATER LEVEL OBSERVATIONS</b> <i>Groundwater not encountered</i>	1355 E Cooley Dr, Ste C Colton, CA	Boring Started: 12-15-2020	Boring Completed: 12-15-2020
		Drill Rig: N/A	Driller: Terracon
		Project No.: CB175228	Exhibit: A-6

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_CB175228\_BARTON ROAD\_ENVIRONMENTAL BORING LOGS.GPJ\_TERRACON\_DATATEMPLATE.GDT\_3/11/21

# BORING LOG NO. SB-7

**PROJECT:** Barton Road Bridge Removal and Road Construction

**CLIENT:** CNS Engineers, Inc.  
Riverside, CA

**SITE:** Barton Road  
Colton, CA

GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 34.0340° Longitude: -117.3297°	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	PID
-------------	----------------------------------------------------------------------	-------------	--------------------------	-------------	-----

DEPTH	<b>SILTY SAND (SM)</b> , fine grained, light brown, dry, loose	1		Hand	0.0
1		1		Hand	0.0
2.0		2		Hand	0.0

**Boring Terminated at 2 Feet**

Stratification lines are approximate. In-situ, the transition may be gradual.

Advancement Method: 3" Hand Auger	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any).	Notes:	
Abandonment Method: Boring backfilled with auger cuttings upon completion.	See Appendix C for explanation of symbols and abbreviations.		
<b>WATER LEVEL OBSERVATIONS</b> <i>Groundwater not encountered</i>	1355 E Cooley Dr, Ste C Colton, CA	Boring Started: 12-15-2020	Boring Completed: 12-15-2020
		Drill Rig: N/A	Driller: Terracon
		Project No.: CB175228	Exhibit: A-7

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_CB175228\_BARTON ROAD ENVIRONMENTAL BORING LOGS.GPJ TERRACON DATATEMPLATE.GDT 3/11/21



# BORING LOG NO. SB-9

**PROJECT:** Barton Road Bridge Removal and Road Construction

**CLIENT:** CNS Engineers, Inc.  
Riverside, CA

**SITE:** Barton Road  
Colton, CA

GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 34.0339° Longitude: -117.3309°	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	PID
-------------	----------------------------------------------------------------------	-------------	--------------------------	-------------	-----

DEPTH	<b>SILTY SAND (SM)</b> , fine grained, light brown, dry, loose				
0.5			Hand		0.0

**Boring Terminated at 0.5 Foot**

Stratification lines are approximate. In-situ, the transition may be gradual.

Advancement Method: 3" Hand Auger	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). See Appendix C for explanation of symbols and abbreviations.	Notes:	
Abandonment Method: Boring backfilled with auger cuttings upon completion.			
<b>WATER LEVEL OBSERVATIONS</b> <i>Groundwater not encountered</i>	 1355 E Cooley Dr, Ste C Colton, CA	Boring Started: 12-15-2020 Drill Rig: N/A Project No.: CB175228	Boring Completed: 12-15-2020 Driller: Terracon Exhibit: A-9

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_CB175228\_BARTON ROAD\_ENVIRONMENTAL BORING LOGS.GPJ\_TERRACON\_DATATEMPLATE.GDT\_3/11/21

# BORING LOG NO. B-2

**PROJECT: Barton Road Bridge Removal and Road Construction**

**CLIENT: CNS Engineers, Inc.  
Riverside, CA**

**SITE: Barton Road  
Colton, CA**

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL - CB175228 - BARTON ROAD ENVIRONMENTAL BORING LOG (B-2) - DRAFT.GPJ TERRACON DATATEMPLATE.GDT 3/11/21

DEPTH	DESCRIPTION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	PID
0.6	<b>ASPHALT</b> , 7.5"				
	<b>FILL - SANDY SILT WITH GRAVEL (ML)</b> , brown, stiff, calcium carbonate gravel, upto 2.5"				
	very stiff	5		Hand	1.9
		10		Hand	1.0
12.5	<b>SILTY SAND (SM)</b> , brown, medium dense, no recovery	15		Hand	0.5
					1.2
17.0	<b>SANDY SILT (ML)</b> , brown, hard	20		Hand	0.2
20.0	<b>SANDY LEAN CLAY (CL)</b> , brown, hard, very stiff	25		Hand	1.8
				Hand	0.9
24.5	<b>SANDY SILT (ML)</b> , reddish brown, hard	25			

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method: Hollow Stem Auger	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). See Appendix C for explanation of symbols and abbreviations.	Notes:	
Abandonment Method: Boring backfilled with cement-bentonite grout upon completion.			
<b>WATER LEVEL OBSERVATIONS</b> Groundwater not encountered	<p style="font-size: small; margin: 0;">1355 E Cooley Dr, Ste C Colton, CA</p>	Boring Started: 12-15-2020	Boring Completed: 12-15-2020
		Drill Rig: CME-75	Driller: 2R Drilling
		Project No.: CB175228	Exhibit: A-1

# BORING LOG NO. B-2

**PROJECT:** Barton Road Bridge Removal and Road Construction

**CLIENT:** CNS Engineers, Inc.  
Riverside, CA

**SITE:** Barton Road  
Colton, CA

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL\_CB175228\_BARTON ROAD\_ENVIRONMENTAL BORING LOG (B-2)\_DRAFT.GPJ\_TERRACON\_DATATEMPLATE.GDT\_3/11/21

GRAPHIC LOG	LOCATION See Exhibit A-2 Latitude: 31.0338° Longitude: -117.3305°	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	PID
DEPTH					
31.0	<b>SANDY SILT (ML)</b> , reddish brown, hard <i>(continued)</i>	30		Hand	0.8
31.5	<b>SILTY SAND (SM)</b> , reddish brown, dense <b>Boring Terminated at 31.5 Feet</b>			Hand	0.7

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method: Hollow Stem Auger	See Exhibit A-3 for description of field procedures. See Appendix B for description of laboratory procedures and additional data (if any). See Appendix C for explanation of symbols and abbreviations.	Notes:	
Abandonment Method: Boring backfilled with cement-bentonite grout upon completion.			
<b>WATER LEVEL OBSERVATIONS</b> <i>Groundwater not encountered</i>	<p style="font-size: 0.8em; color: #800000;">1355 E Cooley Dr, Ste C Colton, CA</p>	Boring Started: 12-15-2020 Drill Rig: CME-75 Project No.: CB175228	Boring Completed: 12-15-2020 Driller: 2R Drilling Exhibit: A-2

**APPENDIX D**  
**ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS**



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

22 December 2020

Todd McFarland  
Terracon - Colton  
1355 East Cooley Dr.  
Colton, CA 92324  
RE: Barton Road Bridge

Enclosed are the results of analyses for samples received by the laboratory on 12/15/20 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Joann Marroquin For Jeff Lee  
Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Terracon - Colton  
 1355 East Cooley Dr.  
 Colton CA, 92324

Project: Barton Road Bridge  
 Project Number: CB175228  
 Project Manager: Todd McFarland

Reported:  
 12/22/20 15:37

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-1-0.5	T204228-01	Soil	12/15/20 10:12	12/15/20 15:45
SB-2-0.5	T204228-02	Soil	12/15/20 10:28	12/15/20 15:45
B-2-5	T204228-03	Soil	12/15/20 10:30	12/15/20 15:45
B-2-10	T204228-04	Soil	12/15/20 10:35	12/15/20 15:45
B-2-12.5	T204228-05	Soil	12/15/20 10:40	12/15/20 15:45
B-2-17.5	T204228-06	Soil	12/15/20 10:50	12/15/20 15:45
B-2-20	T204228-07	Soil	12/15/20 10:55	12/15/20 15:45
B-2-22.5	T204228-08	Soil	12/15/20 11:00	12/15/20 15:45
B-2-30	T204228-09	Soil	12/15/20 11:10	12/15/20 15:45
SB-2-1	T204228-10	Soil	12/15/20 11:15	12/15/20 15:45
SB-3-0.5	T204228-11	Soil	12/15/20 11:30	12/15/20 15:45
SB-3-1	T204228-12	Soil	12/15/20 11:35	12/15/20 15:45
SB-3-2	T204228-13	Soil	12/15/20 11:40	12/15/20 15:45
SB-4-0.5	T204228-14	Soil	12/15/20 11:50	12/15/20 15:45
SB-4-1	T204228-15	Soil	12/15/20 11:55	12/15/20 15:45
SB-4-2	T204228-16	Soil	12/15/20 12:00	12/15/20 15:45
SB-5-0.5	T204228-17	Soil	12/15/20 12:05	12/15/20 15:45
SB-6-0.5	T204228-18	Soil	12/15/20 12:20	12/15/20 15:45
SB-6-1	T204228-19	Soil	12/15/20 12:25	12/15/20 15:45
SB-7-0.5	T204228-20	Soil	12/15/20 13:05	12/15/20 15:45
SB-7-1	T204228-21	Soil	12/15/20 13:10	12/15/20 15:45
SB-7-2	T204228-22	Soil	12/15/20 13:15	12/15/20 15:45
SB-8-0.5	T204228-23	Soil	12/15/20 12:35	12/15/20 15:45
SB-8-1	T204228-24	Soil	12/15/20 12:40	12/15/20 15:45
SB-8-2	T204228-25	Soil	12/15/20 12:45	12/15/20 15:45
SB-9-0.5	T204228-26	Soil	12/15/20 12:50	12/15/20 15:45

SunStar Laboratories, Inc.

*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.*

Joann Marroquin For Jeff Lee, Project Manager



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Lake Forest, California 92630  
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Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

**Reported:**  
12/22/20 15:37

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SunStar Laboratories, Inc.

*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.*

---

Joann Marroquin For Jeff Lee, Project Manager

Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

Reported:  
12/22/20 15:37

**DETECTIONS SUMMARY**

Sample ID:	SB-1-0.5	Laboratory ID:	T204228-01			
Analyte	Result	Reporting Limit	Units	Method	Notes	
Lead	4.6	3.0	mg/kg	EPA 6010b		
Sample ID:	SB-2-0.5	Laboratory ID:	T204228-02			
Analyte	Result	Reporting Limit	Units	Method	Notes	
Lead	22	3.0	mg/kg	EPA 6010b		
Sample ID:	B-2-5	Laboratory ID:	T204228-03			
Analyte	Result	Reporting Limit	Units	Method	Notes	
Lead	3.3	3.0	mg/kg	EPA 6010b		
Sample ID:	B-2-10	Laboratory ID:	T204228-04			
Analyte	Result	Reporting Limit	Units	Method	Notes	
Lead	3.5	3.0	mg/kg	EPA 6010b		
Sample ID:	B-2-12.5	Laboratory ID:	T204228-05			
Analyte	Result	Reporting Limit	Units	Method	Notes	
Lead	3.6	2.7	mg/kg	EPA 6010b		
Sample ID:	B-2-17.5	Laboratory ID:	T204228-06			
Analyte	Result	Reporting Limit	Units	Method	Notes	
Lead	3.1	3.0	mg/kg	EPA 6010b		

SunStar Laboratories, Inc.



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Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

**Reported:**  
12/22/20 15:37

**Sample ID:** B-2-20

**Laboratory ID:** T204228-07

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
C13-C28 (DRO)	29	10	mg/kg	EPA 8015B	
C29-C40 (MORO)	96	10	mg/kg	EPA 8015B	
Lead	3.3	3.0	mg/kg	EPA 6010b	

**Sample ID:** B-2-22.5

**Laboratory ID:** T204228-08

No Results Detected

**Sample ID:** B-2-30

**Laboratory ID:** T204228-09

No Results Detected

**Sample ID:** SB-2-1

**Laboratory ID:** T204228-10

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	26	3.0	mg/kg	EPA 6010b	

**Sample ID:** SB-3-0.5

**Laboratory ID:** T204228-11

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	4.6	3.0	mg/kg	EPA 6010b	

**Sample ID:** SB-3-1

**Laboratory ID:** T204228-12

Analyte	Reporting		Units	Method	Notes
	Result	Limit			
Lead	3.2	3.0	mg/kg	EPA 6010b	

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Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

**Reported:**  
12/22/20 15:37

**Sample ID:** SB-3-2

**Laboratory ID:** T204228-13

No Results Detected

**Sample ID:** SB-4-0.5

**Laboratory ID:** T204228-14

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	59	3.0		mg/kg	EPA 6010b	

**Sample ID:** SB-4-1

**Laboratory ID:** T204228-15

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	32	2.7		mg/kg	EPA 6010b	

**Sample ID:** SB-4-2

**Laboratory ID:** T204228-16

No Results Detected

**Sample ID:** SB-5-0.5

**Laboratory ID:** T204228-17

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	34	3.0		mg/kg	EPA 6010b	

**Sample ID:** SB-6-0.5

**Laboratory ID:** T204228-18

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	59	3.0		mg/kg	EPA 6010b	

**Sample ID:** SB-6-1

**Laboratory ID:** T204228-19

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	24	3.0		mg/kg	EPA 6010b	

SunStar Laboratories, Inc.



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Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

Reported:  
12/22/20 15:37

**Sample ID:** SB-7-0.5

**Laboratory ID:** T204228-20

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	19	3.0		mg/kg	EPA 6010b	

**Sample ID:** SB-7-1

**Laboratory ID:** T204228-21

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	19	3.0		mg/kg	EPA 6010b	

**Sample ID:** SB-7-2

**Laboratory ID:** T204228-22

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	3.1	3.0		mg/kg	EPA 6010b	

**Sample ID:** SB-8-0.5

**Laboratory ID:** T204228-23

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	85	3.0		mg/kg	EPA 6010b	

**Sample ID:** SB-8-1

**Laboratory ID:** T204228-24

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	4.0	3.0		mg/kg	EPA 6010b	

**Sample ID:** SB-8-2

**Laboratory ID:** T204228-25

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	3.9	3.0		mg/kg	EPA 6010b	

**Sample ID:** SB-9-0.5

**Laboratory ID:** T204228-26

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	46	3.0		mg/kg	EPA 6010b	

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Terracon - Colton  
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Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

**Reported:**  
12/22/20 15:37

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---

Joann Marroquin For Jeff Lee, Project Manager



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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**SB-1-0.5**  
**T204228-01 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	4.6	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	

SunStar Laboratories, Inc.

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Joann Marroquin For Jeff Lee, Project Manager



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 Lake Forest, California 92630  
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 949.297.5027 Fax

Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	<b>Reported:</b> 12/22/20 15:37
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	------------------------------------

**SB-2-0.5**  
**T204228-02 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	22	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	

SunStar Laboratories, Inc.

*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.*

Joann Marroquin For Jeff Lee, Project Manager

Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

Reported:  
12/22/20 15:37

**B-2-5**  
**T204228-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015B**

C6-C12 (GRO)	ND	10	mg/kg	1	0121623	12/16/20	12/17/20	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		86.8 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Lead	3.3	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	
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**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.5	ug/kg	1	0121744	12/17/20	12/18/20	EPA 8260B	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	

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Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

Reported:  
12/22/20 15:37

**B-2-5**  
**T204228-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2-Dichloroethane	ND	2.5	ug/kg	1	0121744	12/17/20	12/18/20	EPA 8260B
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"
1,1-Dichloropropene	ND	2.5	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"
Isopropylbenzene	ND	2.5	"	"	"	"	"	"
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"
Methylene chloride	ND	10	"	"	"	"	"	"
Naphthalene	ND	2.5	"	"	"	"	"	"
n-Propylbenzene	ND	2.5	"	"	"	"	"	"
Styrene	ND	2.5	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"
Tetrachloroethene	ND	2.5	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"
Trichloroethene	ND	2.5	"	"	"	"	"	"
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"
Vinyl chloride	ND	2.5	"	"	"	"	"	"
Benzene	ND	2.5	"	"	"	"	"	"
Toluene	ND	2.5	"	"	"	"	"	"

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Joann Marroquin For Jeff Lee, Project Manager



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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
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**B-2-5**  
**T204228-03 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethylbenzene	ND	2.5	ug/kg	1	0121744	12/17/20	12/18/20	EPA 8260B	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	75.4-139		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	73.1-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.7 %	82.6-117		"	"	"	"	

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Joann Marroquin For Jeff Lee, Project Manager



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**B-2-10**  
**T204228-04 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Lead	3.5	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	
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Joann Marroquin For Jeff Lee, Project Manager



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**B-2-12.5**  
**T204228-05 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Lead	3.6	2.7	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	
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Joann Marroquin For Jeff Lee, Project Manager

Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

Reported:  
12/22/20 15:37

**B-2-17.5**  
**T204228-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015B**

C6-C12 (GRO)	ND	10	mg/kg	1	0121623	12/16/20	12/17/20	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		83.6 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Lead	3.1	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	
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**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.5	ug/kg	1	0121744	12/17/20	12/21/20	EPA 8260B	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	

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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
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**B-2-17.5**  
**T204228-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
1,2-Dichloroethane	ND	2.5	ug/kg	1	0121744	12/17/20	12/21/20	EPA 8260B	
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"	
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"	
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloropropene	ND	2.5	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"	
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"	
Isopropylbenzene	ND	2.5	"	"	"	"	"	"	
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"	
Methylene chloride	ND	10	"	"	"	"	"	"	
Naphthalene	ND	2.5	"	"	"	"	"	"	
n-Propylbenzene	ND	2.5	"	"	"	"	"	"	
Styrene	ND	2.5	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"	
Tetrachloroethene	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"	
Trichloroethene	ND	2.5	"	"	"	"	"	"	
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"	
Vinyl chloride	ND	2.5	"	"	"	"	"	"	
Benzene	ND	2.5	"	"	"	"	"	"	
Toluene	ND	2.5	"	"	"	"	"	"	

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Joann Marroquin For Jeff Lee, Project Manager



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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
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**B-2-17.5**  
**T204228-06 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethylbenzene	ND	2.5	ug/kg	1	0121744	12/17/20	12/21/20	EPA 8260B	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		93.1 %	75.4-139		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		113 %	73.1-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.5 %	82.6-117		"	"	"	"	

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Joann Marroquin For Jeff Lee, Project Manager

Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

Reported:  
12/22/20 15:37

**B-2-20**  
**T204228-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015B**

C6-C12 (GRO)	ND	10	mg/kg	1	0121623	12/16/20	12/17/20	EPA 8015B	
<b>C13-C28 (DRO)</b>	<b>29</b>	10	"	"	"	"	"	"	
<b>C29-C40 (MORO)</b>	<b>96</b>	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		85.5 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

<b>Lead</b>	<b>3.3</b>	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	
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**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.5	ug/kg	1	0121744	12/17/20	12/18/20	EPA 8260B	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	

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Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

Reported:  
12/22/20 15:37

**B-2-20**  
**T204228-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2-Dichloroethane	ND	2.5	ug/kg	1	0121744	12/17/20	12/18/20	EPA 8260B
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"
1,1-Dichloropropene	ND	2.5	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"
Isopropylbenzene	ND	2.5	"	"	"	"	"	"
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"
Methylene chloride	ND	10	"	"	"	"	"	"
Naphthalene	ND	2.5	"	"	"	"	"	"
n-Propylbenzene	ND	2.5	"	"	"	"	"	"
Styrene	ND	2.5	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"
Tetrachloroethene	ND	2.5	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"
Trichloroethene	ND	2.5	"	"	"	"	"	"
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"
Vinyl chloride	ND	2.5	"	"	"	"	"	"
Benzene	ND	2.5	"	"	"	"	"	"
Toluene	ND	2.5	"	"	"	"	"	"

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Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

**Reported:**  
12/22/20 15:37

**B-2-20**  
**T204228-07 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethylbenzene	ND	2.5	ug/kg	1	0121744	12/17/20	12/18/20	EPA 8260B	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		109 %	75.4-139		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		110 %	73.1-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97.4 %	82.6-117		"	"	"	"	

SunStar Laboratories, Inc.



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Joann Marroquin For Jeff Lee, Project Manager

Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

Reported:  
12/22/20 15:37

**B-2-22.5**  
**T204228-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015B**

C6-C12 (GRO)	ND	10	mg/kg	1	0121623	12/16/20	12/17/20	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		87.9 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Lead	ND	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	
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**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.5	ug/kg	1	0121744	12/17/20	12/18/20	EPA 8260B	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	

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Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

Reported:  
12/22/20 15:37

**B-2-22.5**  
**T204228-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2-Dichloroethane	ND	2.5	ug/kg	1	0121744	12/17/20	12/18/20	EPA 8260B
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"
1,1-Dichloropropene	ND	2.5	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"
Isopropylbenzene	ND	2.5	"	"	"	"	"	"
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"
Methylene chloride	ND	10	"	"	"	"	"	"
Naphthalene	ND	2.5	"	"	"	"	"	"
n-Propylbenzene	ND	2.5	"	"	"	"	"	"
Styrene	ND	2.5	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"
Tetrachloroethene	ND	2.5	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"
Trichloroethene	ND	2.5	"	"	"	"	"	"
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"
Vinyl chloride	ND	2.5	"	"	"	"	"	"
Benzene	ND	2.5	"	"	"	"	"	"
Toluene	ND	2.5	"	"	"	"	"	"

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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
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**B-2-22.5**  
**T204228-08 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethylbenzene	ND	2.5	ug/kg	1	0121744	12/17/20	12/18/20	EPA 8260B	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	75.4-139		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		103 %	73.1-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		98.9 %	82.6-117		"	"	"	"	

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Joann Marroquin For Jeff Lee, Project Manager

Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

Reported:  
12/22/20 15:37

**B-2-30**  
**T204228-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Extractable Petroleum Hydrocarbons by 8015B**

C6-C12 (GRO)	ND	10	mg/kg	1	0121623	12/16/20	12/17/20	EPA 8015B	
C13-C28 (DRO)	ND	10	"	"	"	"	"	"	
C29-C40 (MORO)	ND	10	"	"	"	"	"	"	
Surrogate: <i>p</i> -Terphenyl		80.9 %	65-135		"	"	"	"	

**Metals by EPA 6010B**

Lead	ND	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	
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**Volatile Organic Compounds by EPA Method 8260B**

Bromobenzene	ND	2.5	ug/kg	1	0121744	12/17/20	12/18/20	EPA 8260B	
Bromochloromethane	ND	2.5	"	"	"	"	"	"	
Bromodichloromethane	ND	2.5	"	"	"	"	"	"	
Bromoform	ND	2.5	"	"	"	"	"	"	
Bromomethane	ND	2.5	"	"	"	"	"	"	
n-Butylbenzene	ND	2.5	"	"	"	"	"	"	
sec-Butylbenzene	ND	2.5	"	"	"	"	"	"	
tert-Butylbenzene	ND	2.5	"	"	"	"	"	"	
Carbon tetrachloride	ND	2.5	"	"	"	"	"	"	
Chlorobenzene	ND	2.5	"	"	"	"	"	"	
Chloroethane	ND	2.5	"	"	"	"	"	"	
Chloroform	ND	2.5	"	"	"	"	"	"	
Chloromethane	ND	2.5	"	"	"	"	"	"	
2-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
4-Chlorotoluene	ND	2.5	"	"	"	"	"	"	
Dibromochloromethane	ND	2.5	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	2.5	"	"	"	"	"	"	
Dibromomethane	ND	2.5	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	2.5	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	2.5	"	"	"	"	"	"	
1,1-Dichloroethane	ND	2.5	"	"	"	"	"	"	

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Joann Marroquin For Jeff Lee, Project Manager

Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

Reported:  
12/22/20 15:37

**B-2-30**  
**T204228-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method
1,2-Dichloroethane	ND	2.5	ug/kg	1	0121744	12/17/20	12/18/20	EPA 8260B
1,1-Dichloroethene	ND	2.5	"	"	"	"	"	"
cis-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
trans-1,2-Dichloroethene	ND	2.5	"	"	"	"	"	"
1,2-Dichloropropane	ND	2.5	"	"	"	"	"	"
1,3-Dichloropropane	ND	2.5	"	"	"	"	"	"
2,2-Dichloropropane	ND	2.5	"	"	"	"	"	"
1,1-Dichloropropene	ND	2.5	"	"	"	"	"	"
cis-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"
trans-1,3-Dichloropropene	ND	2.5	"	"	"	"	"	"
Hexachlorobutadiene	ND	2.5	"	"	"	"	"	"
Isopropylbenzene	ND	2.5	"	"	"	"	"	"
p-Isopropyltoluene	ND	2.5	"	"	"	"	"	"
Methylene chloride	ND	10	"	"	"	"	"	"
Naphthalene	ND	2.5	"	"	"	"	"	"
n-Propylbenzene	ND	2.5	"	"	"	"	"	"
Styrene	ND	2.5	"	"	"	"	"	"
1,1,2,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"
1,1,1,2-Tetrachloroethane	ND	2.5	"	"	"	"	"	"
Tetrachloroethene	ND	2.5	"	"	"	"	"	"
1,2,3-Trichlorobenzene	ND	2.5	"	"	"	"	"	"
1,2,4-Trichlorobenzene	ND	2.5	"	"	"	"	"	"
1,1,2-Trichloroethane	ND	2.5	"	"	"	"	"	"
1,1,1-Trichloroethane	ND	2.5	"	"	"	"	"	"
Trichloroethene	ND	2.5	"	"	"	"	"	"
Trichlorofluoromethane	ND	2.5	"	"	"	"	"	"
1,2,3-Trichloropropane	ND	2.5	"	"	"	"	"	"
1,3,5-Trimethylbenzene	ND	2.5	"	"	"	"	"	"
1,2,4-Trimethylbenzene	ND	2.5	"	"	"	"	"	"
Vinyl chloride	ND	2.5	"	"	"	"	"	"
Benzene	ND	2.5	"	"	"	"	"	"
Toluene	ND	2.5	"	"	"	"	"	"

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Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

**Reported:**  
12/22/20 15:37

**B-2-30**  
**T204228-09 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Volatile Organic Compounds by EPA Method 8260B**

Ethylbenzene	ND	2.5	ug/kg	1	0121744	12/17/20	12/18/20	EPA 8260B	
m,p-Xylene	ND	5.0	"	"	"	"	"	"	
o-Xylene	ND	2.5	"	"	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		103 %	75.4-139		"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		107 %	73.1-125		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		99.9 %	82.6-117		"	"	"	"	

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Joann Marroquin For Jeff Lee, Project Manager



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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	<b>Reported:</b> 12/22/20 15:37
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**SB-2-1**  
**T204228-10 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	26	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	

SunStar Laboratories, Inc.

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Joann Marroquin For Jeff Lee, Project Manager



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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
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**SB-3-0.5**  
**T204228-11 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	4.6	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	

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Joann Marroquin For Jeff Lee, Project Manager



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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
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**SB-3-1**  
**T204228-12 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Lead	3.2	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	
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Joann Marroquin For Jeff Lee, Project Manager



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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
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**SB-3-2**  
**T204228-13 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	ND	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	

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**SB-4-0.5**  
**T204228-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	59	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	

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Joann Marroquin For Jeff Lee, Project Manager



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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
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**SB-4-1**  
**T204228-15 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Lead	32	2.7	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	
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Joann Marroquin For Jeff Lee, Project Manager



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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
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**SB-4-2**  
**T204228-16 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Lead	ND	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	
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Joann Marroquin For Jeff Lee, Project Manager



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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
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**SB-5-0.5**  
**T204228-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	34	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	

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Joann Marroquin For Jeff Lee, Project Manager



25712 Commercentre Drive  
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 949.297.5027 Fax

Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**SB-6-0.5**  
**T204228-18 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	59	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	

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**SB-6-1**  
**T204228-19 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	24	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	

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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
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**SB-7-0.5**  
**T204228-20 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	19	3.0	mg/kg	1	0121622	12/16/20	12/21/20	EPA 6010b	

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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	<b>Reported:</b> 12/22/20 15:37
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	------------------------------------

**SB-7-1**  
**T204228-21 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	19	3.0	mg/kg	1	0121626	12/16/20	12/17/20	EPA 6010b	

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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**SB-7-2**  
**T204228-22 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Lead	3.1	3.0	mg/kg	1	0121626	12/16/20	12/17/20	EPA 6010b	
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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**SB-8-0.5**  
**T204228-23 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	85	3.0	mg/kg	1	0121626	12/16/20	12/17/20	EPA 6010b	

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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	<b>Reported:</b> 12/22/20 15:37
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	------------------------------------

**SB-8-1**  
**T204228-24 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

<b>Lead</b>	<b>4.0</b>	3.0	mg/kg	1	0121626	12/16/20	12/17/20	EPA 6010b	
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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**SB-8-2**  
**T204228-25 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Lead	3.9	3.0	mg/kg	1	0121626	12/16/20	12/17/20	EPA 6010b	
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---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**SB-9-0.5**  
**T204228-26 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**Metals by EPA 6010B**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	46	3.0	mg/kg	1	0121626	12/16/20	12/17/20	EPA 6010b	

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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**Extractable Petroleum Hydrocarbons by 8015B - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0121623 - EPA 3550B GC**

<b>Blank (0121623-BLK1)</b>		Prepared: 12/16/20 Analyzed: 12/17/20								
C6-C12 (GRO)	ND	10	mg/kg							
C13-C28 (DRO)	ND	10	"							
C29-C40 (MORO)	ND	10	"							
<i>Surrogate: p-Terphenyl</i>	84.0		"	101		83.2	65-135			
<b>LCS (0121623-BS1)</b>		Prepared: 12/16/20 Analyzed: 12/17/20								
C13-C28 (DRO)	500	10	mg/kg	505		98.7	75-125			
<i>Surrogate: p-Terphenyl</i>	90.1		"	101		89.2	65-135			
<b>LCS Dup (0121623-BSD1)</b>		Prepared: 12/16/20 Analyzed: 12/17/20								
C13-C28 (DRO)	480	10	mg/kg	505		95.6	75-125	3.18	20	
<i>Surrogate: p-Terphenyl</i>	88.5		"	101		87.7	65-135			

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---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**Metals by EPA 6010B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0121622 - EPA 3050B**

<b>Blank (0121622-BLK1)</b>										
Prepared: 12/16/20 Analyzed: 12/21/20										
Lead	ND	3.0	mg/kg							
<b>LCS (0121622-BS1)</b>										
Prepared: 12/16/20 Analyzed: 12/21/20										
Lead	96.5	3.0	mg/kg	100		96.5	75-125			
<b>Matrix Spike (0121622-MS1)</b>										
Source: T204228-01 Prepared: 12/16/20 Analyzed: 12/21/20										
Lead	78.7	3.0	mg/kg	98.0	4.60	75.6	75-125			
<b>Matrix Spike Dup (0121622-MSD1)</b>										
Source: T204228-01 Prepared: 12/16/20 Analyzed: 12/21/20										
Lead	74.5	3.0	mg/kg	96.2	4.60	72.7	75-125	5.47	20	QM-05

**Batch 0121626 - EPA 3050B**

<b>Blank (0121626-BLK1)</b>										
Prepared: 12/16/20 Analyzed: 12/17/20										
Lead	ND	3.0	mg/kg							
<b>LCS (0121626-BS1)</b>										
Prepared: 12/16/20 Analyzed: 12/17/20										
Lead	96.4	3.0	mg/kg	100		96.4	75-125			
<b>Matrix Spike (0121626-MS1)</b>										
Source: T204228-21 Prepared: 12/16/20 Analyzed: 12/17/20										
Lead	79.7	3.0	mg/kg	94.3	19.5	63.9	75-125			QM-05
<b>Matrix Spike Dup (0121626-MSD1)</b>										
Source: T204228-21 Prepared: 12/16/20 Analyzed: 12/17/20										
Lead	87.2	3.0	mg/kg	100	19.5	67.8	75-125	8.96	20	QM-05

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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 12/22/20 15:37
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0121744 - EPA 5030 GCMS**

**Blank (0121744-BLK1)**

Prepared: 12/17/20 Analyzed: 12/18/20

Bromobenzene	ND	2.5	ug/kg							
Bromochloromethane	ND	2.5	"							
Bromodichloromethane	ND	2.5	"							
Bromoform	ND	2.5	"							
Bromomethane	ND	2.5	"							
n-Butylbenzene	ND	2.5	"							
sec-Butylbenzene	ND	2.5	"							
tert-Butylbenzene	ND	2.5	"							
Carbon tetrachloride	ND	2.5	"							
Chlorobenzene	ND	2.5	"							
Chloroethane	ND	2.5	"							
Chloroform	ND	2.5	"							
Chloromethane	ND	2.5	"							
2-Chlorotoluene	ND	2.5	"							
4-Chlorotoluene	ND	2.5	"							
Dibromochloromethane	ND	2.5	"							
1,2-Dibromo-3-chloropropane	ND	5.0	"							
1,2-Dibromoethane (EDB)	ND	2.5	"							
Dibromomethane	ND	2.5	"							
1,2-Dichlorobenzene	ND	2.5	"							
1,3-Dichlorobenzene	ND	2.5	"							
1,4-Dichlorobenzene	ND	2.5	"							
Dichlorodifluoromethane	ND	2.5	"							
1,1-Dichloroethane	ND	2.5	"							
1,2-Dichloroethane	ND	2.5	"							
1,1-Dichloroethene	ND	2.5	"							
cis-1,2-Dichloroethene	ND	2.5	"							
trans-1,2-Dichloroethene	ND	2.5	"							
1,2-Dichloropropane	ND	2.5	"							
1,3-Dichloropropane	ND	2.5	"							
2,2-Dichloropropane	ND	2.5	"							
1,1-Dichloropropene	ND	2.5	"							
cis-1,3-Dichloropropene	ND	2.5	"							
trans-1,3-Dichloropropene	ND	2.5	"							
Hexachlorobutadiene	ND	2.5	"							
Isopropylbenzene	ND	2.5	"							

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Terracon - Colton  
 1355 East Cooley Dr.  
 Colton CA, 92324

Project: Barton Road Bridge  
 Project Number: CB175228  
 Project Manager: Todd McFarland

Reported:  
 12/22/20 15:37

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0121744 - EPA 5030 GCMS**

**Blank (0121744-BLK1)**

Prepared: 12/17/20 Analyzed: 12/18/20

p-Isopropyltoluene	ND	2.5	ug/kg							
Methylene chloride	13.4	10	"							B-03
Naphthalene	ND	2.5	"							
n-Propylbenzene	ND	2.5	"							
Styrene	ND	2.5	"							
1,1,2,2-Tetrachloroethane	ND	2.5	"							
1,1,1,2-Tetrachloroethane	ND	2.5	"							
Tetrachloroethene	ND	2.5	"							
1,2,3-Trichlorobenzene	ND	2.5	"							
1,2,4-Trichlorobenzene	ND	2.5	"							
1,1,2-Trichloroethane	ND	2.5	"							
1,1,1-Trichloroethane	ND	2.5	"							
Trichloroethene	ND	2.5	"							
Trichlorofluoromethane	ND	2.5	"							
1,2,3-Trichloropropane	ND	2.5	"							
1,3,5-Trimethylbenzene	ND	2.5	"							
1,2,4-Trimethylbenzene	ND	2.5	"							
Vinyl chloride	ND	2.5	"							
Benzene	ND	2.5	"							
Toluene	ND	2.5	"							
Ethylbenzene	ND	2.5	"							
m,p-Xylene	ND	5.0	"							
o-Xylene	ND	2.5	"							

Surrogate: 4-Bromofluorobenzene	48.6		"	50.0		97.2	75.4-139			
Surrogate: Dibromofluoromethane	49.3		"	50.0		98.6	73.1-125			
Surrogate: Toluene-d8	49.5		"	50.0		98.9	82.6-117			

**LCS (0121744-BS1)**

Prepared: 12/17/20 Analyzed: 12/18/20

Chlorobenzene	44.1	2.5	ug/kg	50.0		88.2	65.2-124			
1,1-Dichloroethene	47.5	2.5	"	50.0		95.0	60.9-131			
Trichloroethene	55.3	2.5	"	50.0		111	62.1-126			
Benzene	50.9	2.5	"	50.0		102	65.3-127			
Toluene	48.3	2.5	"	50.0		96.6	64.3-122			
Surrogate: 4-Bromofluorobenzene	52.0		"	50.0		104	75.4-139			
Surrogate: Dibromofluoromethane	46.7		"	50.0		93.4	73.1-125			
Surrogate: Toluene-d8	49.9		"	50.0		99.8	82.6-117			

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Terracon - Colton  
 1355 East Cooley Dr.  
 Colton CA, 92324

Project: Barton Road Bridge  
 Project Number: CB175228  
 Project Manager: Todd McFarland

Reported:  
 12/22/20 15:37

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0121744 - EPA 5030 GCMS**

**Matrix Spike (0121744-MS1)**

Source: T204211-01

Prepared: 12/17/20 Analyzed: 12/18/20

Chlorobenzene	37.7	2.5	ug/kg	49.5	ND	76.2	65.2-125			
1,1-Dichloroethene	38.2	2.5	"	49.5	ND	77.2	60.9-131			
Trichloroethene	43.8	2.5	"	49.5	ND	88.5	62.1-126			
Benzene	42.7	2.5	"	49.5	ND	86.2	65.3-127			
Toluene	40.0	2.5	"	49.5	ND	80.9	64.3-125			
Surrogate: 4-Bromofluorobenzene	53.0		"	49.5		107	75.4-139			
Surrogate: Dibromofluoromethane	47.7		"	49.5		96.4	73.1-125			
Surrogate: Toluene-d8	48.7		"	49.5		98.3	82.6-117			

**Matrix Spike Dup (0121744-MSD1)**

Source: T204211-01

Prepared: 12/17/20 Analyzed: 12/18/20

Chlorobenzene	34.8	2.5	ug/kg	49.4	ND	70.4	65.2-125	8.16	20	
1,1-Dichloroethene	34.3	2.5	"	49.4	ND	69.5	60.9-131	10.7	20	
Trichloroethene	39.1	2.5	"	49.4	ND	79.2	62.1-126	11.2	20	
Benzene	38.9	2.5	"	49.4	ND	78.7	65.3-127	9.22	20	
Toluene	36.4	2.5	"	49.4	ND	73.6	64.3-125	9.62	20	
Surrogate: 4-Bromofluorobenzene	53.3		"	49.4		108	75.4-139			
Surrogate: Dibromofluoromethane	48.0		"	49.4		97.1	73.1-125			
Surrogate: Toluene-d8	48.8		"	49.4		98.8	82.6-117			

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Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

**Reported:**  
12/22/20 15:37

### Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- B-03 Analyte present in blank due to being a common laboratory contaminant.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

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Joann Marroquin For Jeff Lee, Project Manager

# Terracon

Consulting Engineers & Scientists

T204228

**CHAIN OF CUSTODY RECORD**

Laboratory Address: SUNSHINE LAKE FOREST  
 Office Location: COLTON  
 Project Manager: TODD McFARLAND  
 Phone: \_\_\_\_\_  
 Contact: JEFF LEE  
 PO/SO #: CB175228

Sampler's Name: TODD McFARLAND  
 Project Number: CB175228  
 Project Name: BARTON ROAD BRIDGE  
 Identifying Marks of Sample(s): \_\_\_\_\_  
 Sampler's Signature: [Signature]

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No. Type of Containers	ANALYSIS REQUESTED	LAB USE ONLY DUE DATE:
S	12/15/20	10:12	X		SB-1-0.5	0.0	0.5	X	LEAD 6010	TEMP OF COOLER WHEN RECEIVED (°C) 2.3°C
		10:28			SB-2-0.5	0.0	0.5	X	TPH CC 8015	
		10:30			B-2-5	0.0	5.5	X	VOCs 8260	
		10:35			B-2-10	9.0	10.5	X		
		10:40			B-2-12.5	11.0	12.5	X		
		10:50			B-2-17.5	-	17.5	X		
		10:55			B-2-20	-	20	X		
		11:00			B-2-22.5	-	22.5	X		
		11:10			B-2-25	-	25	X		
					B-2-30	-	30	X		

TURNDOWN TIME:  Normal  48-hour Rush  24-Hour Rush  
 Relinquished by (Signature): [Signature] Date: 12/15/20 Time: 1400  
 Relinquished by (Signature): [Signature] Date: 12/15/2020 Time: 15:45  
 Relinquished by (Signature): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by (Signature): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Matrix: WW - Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal Tube SL - Sludge O - Oil  
 Container: VOA - 40 ml vial AG - Amber Glass 1 L 250 ml = Glass wide mouth P/O Plastic or other

California Office ■ 1355 E. Cooley Drive, Suite C ■ Colton, CA 92324 ■ (909) 824-7311

Responsive ■ Resourceful ■ Reliable

NOTES:  
ALL RESULTS mg/kg  
NO SAMPLE

# Terracon

Consulting Engineers & Scientists

T204228

## CHAIN OF CUSTODY RECORD

Laboratory: SUN STAR  
 Address: LAKE FOREST

Office Location: Colton  
 Project Manager: TODD McFARLAND  
 Phone: JEFF LEE  
 Contact: JEFF LEE  
 PO/SO #: CB175228

ANALYSIS REQUESTED

LAB USE ONLY  
 DUE DATE:

TEMP OF COOLER  
 WHEN RECEIVED (°C)

2.30c

Page 2 of 3

Sampler's Name: TODD McFARLAND  
 Project Number: CB175228  
 Project Name: BARTRON ROAD BRIDGE  
 Identifying Marks of Sample(s): 204  
 Sampler's Signature: [Signature]

No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No. Type of Containers	Lab Sample ID
	11/15			X	SB-2-1	-	1	1	10
	11/15				SB-3-0.5	-	0.5	1	11
	11/30				SB-3-1	-	1	1	12
	11/35				SB-3-2	-	2	1	13
	11/40				SB-4-0.5	-	0.5	1	14
	11/50				SB-4-1	-	1	1	15
	11/55				SB-4-2	-	2	1	16
	12/00				SB-5-0.5	-	0.5	1	17
	12/05				SB-6-0.5	-	0.5	1	18
	12/20				SB-6-1	-	1	1	19

TURNAROUND TIME:  Normal  48-Hour Rush  24-Hour Rush

TRRP Laboratory Review Checklist:  Yes  No

Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:	Notes
<u>[Signature]</u>	12/15/20	1400	<u>[Signature]</u>	12/15/20	1400	ALL RESULTS mg/kg NORMAL TAT.
<u>[Signature]</u>	12/15/20	15:45	<u>[Signature]</u>	12/15/20	1545	
<u>[Signature]</u>						

Matrix: WW - Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal Tube Sl - Sludge O - Oil  
 Container: VOA - 40 ml vial A/G - Amber Glass 1 L 250 ml = Glass wide mouth P/O Plastic or other

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# Terracon

Consulting Engineers & Scientists

Office Location COLTON  
 Project Manager TODD McFARLAND

Laboratory SUNSTAR  
 Address LATE FOREST  
 Phone \_\_\_\_\_  
 Contact JEFF VEE  
 PO/SO # CB175228

Sampler's Name TODD McFARLAND Sampler's Signature [Signature]

Project Number CB175228 Project Name BARLOW ROAD BRIDGE

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No. Type of Containers		ANALYSIS REQUESTED	LAB USE ONLY DUE DATE:	TEMP OF COOLER WHEN RECEIVED (°C)
	12/15/20	1305	X	X	SB-7-0.5	-	0.5	X	402	LEAD 60/0	20	2.3°C
	1310		X	X	SB-7-1	-	1	X			21	
	1315		X	X	SB-7-2	-	2	X			22	
	1235		X	X	SB-8-0.5	-	0.5	X			23	
	1240		X	X	SB-8-1	-	1	X			24	
	1245		X	X	SB-8-2	-	2	X			25	
	1250		X	X	SB-9-0.5	-	0.5	X			26	

TURNAROUND TIME  Normal  48-Hour Rush  24-Hour Rush

Relinquished by (Signature) [Signature] Date: 12/15/20 Time: 1400 Received by (Signature) [Signature] Date: 12/15/20 Time: 14:00

Relinquished by (Signature) [Signature] Date: 12/15/20 Time: 15:45 Received by (Signature) [Signature] Date: 12/15/20 Time: 15:20

Relinquished by (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received by (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

NOTES: MG/VEG - NORMAL TAT

Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal Tube SL - Sludge O - Oil

Container VOA - 40 ml vial A/G - Amber Glass 1L 250 ml = Glass wide mouth P/O Plastic or other

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T204228

CHAIN OF CUSTODY RECORD

## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T204228

Client Name: Terracon - Colton Project: Barton Road Property

Delivered by:  Client  SunStar Courier  GLS  FedEx  Other

If Courier, Received by: Paul Date/Time Courier Received: 12-15-20 14:00

Lab Received by: Dave Date/Time Lab Received: 12-15-20 15:45

Total number of coolers received: 0 Thermometer ID: SC-1 Calibration due : 8/17/21

Temperature:	Cooler #1	2.5	°C +/- the CF (- 0.2°C) =	2.3	°C corrected temperature
Temperature:	Cooler #2		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature:	Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature

<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>	Within criteria?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>If NO:</b>		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>

Custody seals intact on cooler/sample  Yes  No\*  N/A

Sample containers intact  Yes  No\*

Sample labels match Chain of Custody IDs  Yes  No\*

Total number of containers received match COC  Yes  No\*

Proper containers received for analyses requested on COC  Yes  No\*

Proper preservative indicated on COC/containers for analyses requested  Yes  No\*  N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times  Yes  No\*

\* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: DM 12-15-20

**Comments:**  
\_\_\_\_\_  
\_\_\_\_\_

**T204228**

**SunStar Laboratories, Inc.**

<b>Client:</b> Terracon - Colton <b>Project:</b> Barton Road Bridge	<b>Project Manager:</b> Jeff Lee <b>Project Number:</b> CB175228
------------------------------------------------------------------------	---------------------------------------------------------------------

<b><u>Report To:</u></b> Terracon - Colton Todd McFarland 1355 East Cooley Dr. Colton, CA 92324 Phone: (909) 824-7311 Fax: -	<b><u>Invoice To:</u></b> Terracon - Colton Todd McFarland 1355 East Cooley Dr. Colton, CA 92324 Phone : (909) 824-7311 Fax: -
------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------

Date Due: 12/22/20 17:00 (5 day TAT)	
Received By: Dave Berner	Date Received: 12/15/20 15:45
Logged In By: Dan Marteski	Date Logged In: 12/15/20 16:57

Samples Received at: <b>2.3°C</b>			
Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
<b>T204228-01 SB-1-0.5 [Soil] Sampled 12/15/20 10:12 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:12	
<b>T204228-02 SB-2-0.5 [Soil] Sampled 12/15/20 10:28 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:28	
<b>T204228-03 B-2-5 [Soil] Sampled 12/15/20 10:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 10:30	
6010 Pb	12/22/20 15:00	5	06/13/21 10:30	
8260	12/22/20 15:00	5	12/29/20 10:30	
<b>T204228-04 B-2-10 [Soil] Sampled 12/15/20 10:35 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:35	
<b>T204228-05 B-2-12.5 [Soil] Sampled 12/15/20 10:40 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:40	

**T204228**

**SunStar Laboratories, Inc.**

<b>Client: Terracon - Colton</b> <b>Project: Barton Road Bridge</b>	<b>Project Manager: Jeff Lee</b> <b>Project Number: CB175228</b>
------------------------------------------------------------------------	---------------------------------------------------------------------

Analysis	Due	TAT	Expires	Comments
<b>T204228-06 B-2-17.5 [Soil] Sampled 12/15/20 10:50 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	12/22/20 15:00	5	12/29/20 10:50	
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 10:50	
6010 Pb	12/22/20 15:00	5	06/13/21 10:50	
<b>T204228-07 B-2-20 [Soil] Sampled 12/15/20 10:55 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	12/22/20 15:00	5	12/29/20 10:55	
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 10:55	
6010 Pb	12/22/20 15:00	5	06/13/21 10:55	
<b>T204228-08 B-2-22.5 [Soil] Sampled 12/15/20 11:00 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:00	
8260	12/22/20 15:00	5	12/29/20 11:00	
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 11:00	
<b>T204228-09 B-2-30 [Soil] Sampled 12/15/20 11:10 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	12/22/20 15:00	5	12/29/20 11:10	
6010 Pb	12/22/20 15:00	5	06/13/21 11:10	
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 11:10	
<b>T204228-10 SB-2-1 [Soil] Sampled 12/15/20 11:15 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:15	
<b>T204228-11 SB-3-0.5 [Soil] Sampled 12/15/20 11:30 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:30	
<b>T204228-12 SB-3-1 [Soil] Sampled 12/15/20 11:35 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:35	
<b>T204228-13 SB-3-2 [Soil] Sampled 12/15/20 11:40 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:40	
<b>T204228-14 SB-4-0.5 [Soil] Sampled 12/15/20 11:50 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:50	

**T204228**

**SunStar Laboratories, Inc.**

<b>Client:</b> Terracon - Colton	<b>Project Manager:</b> Jeff Lee
<b>Project:</b> Barton Road Bridge	<b>Project Number:</b> CB175228

Analysis	Due	TAT	Expires	Comments
<b>T204228-15 SB-4-1 [Soil] Sampled 12/15/20 11:55 (GMT-08:00) Pacific Time</b> (US & 6010 Pb	12/22/20 15:00	5	06/13/21 11:55	
<b>T204228-16 SB-4-2 [Soil] Sampled 12/15/20 12:00 (GMT-08:00) Pacific Time</b> (US & 6010 Pb	12/22/20 15:00	5	06/13/21 12:00	
<b>T204228-17 SB-5-0.5 [Soil] Sampled 12/15/20 12:05 (GMT-08:00) Pacific Time</b> (US & 6010 Pb	12/22/20 15:00	5	06/13/21 12:05	
<b>T204228-18 SB-6-0.5 [Soil] Sampled 12/15/20 12:20 (GMT-08:00) Pacific Time</b> (US & 6010 Pb	12/22/20 15:00	5	06/13/21 12:20	
<b>T204228-19 SB-6-1 [Soil] Sampled 12/15/20 12:25 (GMT-08:00) Pacific Time</b> (US & 6010 Pb	12/22/20 15:00	5	06/13/21 12:25	
<b>T204228-20 SB-7-0.5 [Soil] Sampled 12/15/20 13:05 (GMT-08:00) Pacific Time</b> (US & 6010 Pb	12/22/20 15:00	5	06/13/21 13:05	
<b>T204228-21 SB-7-1 [Soil] Sampled 12/15/20 13:10 (GMT-08:00) Pacific Time</b> (US & 6010 Pb	12/22/20 15:00	5	06/13/21 13:10	
<b>T204228-22 SB-7-2 [Soil] Sampled 12/15/20 13:15 (GMT-08:00) Pacific Time</b> (US & 6010 Pb	12/22/20 15:00	5	06/13/21 13:15	
<b>T204228-23 SB-8-0.5 [Soil] Sampled 12/15/20 12:35 (GMT-08:00) Pacific Time</b> (US & 6010 Pb	12/22/20 15:00	5	06/13/21 12:35	
<b>T204228-24 SB-8-1 [Soil] Sampled 12/15/20 12:40 (GMT-08:00) Pacific Time</b> (US & 6010 Pb	12/22/20 15:00	5	06/13/21 12:40	
<b>T204228-25 SB-8-2 [Soil] Sampled 12/15/20 12:45 (GMT-08:00) Pacific Time</b> (US & 6010 Pb	12/22/20 15:00	5	06/13/21 12:45	

T204228

SunStar Laboratories, Inc.

Client: Terracon - Colton  
Project: Barton Road Bridge

Project Manager: Jeff Lee  
Project Number: CB175228

Analysis	Due	TAT	Expires	Comments
T204228-26 SB-9-0.5 [Soil] Sampled 12/15/20 12:50 (GMT-08:00) Pacific Time				
(US & 6010 Pb	12/22/20 15:00	5	06/13/21 12:50	



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

06 January 2021

Todd McFarland  
Terracon - Colton  
1355 East Cooley Dr.  
Colton, CA 92324  
RE: Barton Road Bridge

Enclosed are the results of analyses for samples received by the laboratory on 12/15/20 15:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Joann Marroquin For Jeff Lee  
Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Terracon - Colton  
 1355 East Cooley Dr.  
 Colton CA, 92324

Project: Barton Road Bridge  
 Project Number: CB175228  
 Project Manager: Todd McFarland

Reported:  
 01/06/21 11:25

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-4-0.5	T204228-14	Soil	12/15/20 11:50	12/15/20 15:45
SB-4-1	T204228-15	Soil	12/15/20 11:55	12/15/20 15:45
SB-6-0.5	T204228-18	Soil	12/15/20 12:20	12/15/20 15:45
SB-6-1	T204228-19	Soil	12/15/20 12:25	12/15/20 15:45
SB-8-0.5	T204228-23	Soil	12/15/20 12:35	12/15/20 15:45
SB-8-1	T204228-24	Soil	12/15/20 12:40	12/15/20 15:45
SB-9-0.5	T204228-26	Soil	12/15/20 12:50	12/15/20 15:45

SunStar Laboratories, Inc.

*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.*

Joann Marroquin For Jeff Lee, Project Manager

Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

**Reported:**  
01/06/21 11:25

**DETECTIONS SUMMARY**

**Sample ID:** SB-4-0.5 **Laboratory ID:** T204228-14

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	4.5	0.50		mg/l	STLC Waste Extraction T	

**Sample ID:** SB-4-1 **Laboratory ID:** T204228-15

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	1.3	0.50		mg/l	STLC Waste Extraction T	

**Sample ID:** SB-6-0.5 **Laboratory ID:** T204228-18

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	6.8	0.50		mg/l	STLC Waste Extraction T	

**Sample ID:** SB-6-1 **Laboratory ID:** T204228-19

No Results Detected

**Sample ID:** SB-8-0.5 **Laboratory ID:** T204228-23

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	4.0	0.50		mg/l	STLC Waste Extraction T	

**Sample ID:** SB-8-1 **Laboratory ID:** T204228-24

No Results Detected

SunStar Laboratories, Inc.



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Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

**Reported:**  
01/06/21 11:25

**Sample ID:** SB-9-0.5

**Laboratory ID:** T204228-26

Analyte	Result	Reporting		Units	Method	Notes
		Limit				
Lead	2.4	0.50		mg/l	STLC Waste Extraction T	

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Joann Marroquin For Jeff Lee, Project Manager



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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 01/06/21 11:25
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**SB-4-0.5**  
**T204228-14 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**STLC Metals by 6000/7000 Series Methods**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	4.5	0.50	mg/l	1	0122822	12/28/20	12/31/20	STLC Waste Extraction Test	

SunStar Laboratories, Inc.

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Joann Marroquin For Jeff Lee, Project Manager



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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 01/06/21 11:25
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**SB-4-1**  
**T204228-15 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**STLC Metals by 6000/7000 Series Methods**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	1.3	0.50	mg/l	1	0122822	12/28/20	12/31/20	STLC Waste Extraction Test	

SunStar Laboratories, Inc.

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Joann Marroquin For Jeff Lee, Project Manager



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 Lake Forest, California 92630  
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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	<b>Reported:</b> 01/06/21 11:25
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	------------------------------------

**SB-6-0.5**  
**T204228-18 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**STLC Metals by 6000/7000 Series Methods**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	6.8	0.50	mg/l	1	0122822	12/28/20	12/31/20	STLC Waste Extraction Test	

SunStar Laboratories, Inc.

*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.*

Joann Marroquin For Jeff Lee, Project Manager



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 949.297.5020 Phone  
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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 01/06/21 11:25
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**SB-6-1**  
**T204228-19 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**STLC Metals by 6000/7000 Series Methods**

Lead	ND	0.50	mg/l	1	0122822	12/28/20	12/31/20	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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Joann Marroquin For Jeff Lee, Project Manager



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 Lake Forest, California 92630  
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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 01/06/21 11:25
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**SB-8-0.5**  
**T204228-23 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**TCLP Metals by 6000/7000 Series Methods**

Lead	ND	0.10	mg/l	1	0122826	12/28/20	12/31/20	EPA 1311	
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**STLC Metals by 6000/7000 Series Methods**

Lead	4.0	0.50	mg/l	1	0122822	12/28/20	12/31/20	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

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Joann Marroquin For Jeff Lee, Project Manager



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Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 01/06/21 11:25
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**SB-8-1**  
**T204228-24 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**SunStar Laboratories, Inc.**

**STLC Metals by 6000/7000 Series Methods**

Lead	ND	0.50	mg/l	1	0122822	12/28/20	12/31/20	STLC Waste Extraction Test	
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SunStar Laboratories, Inc.

*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.*

Joann Marroquin For Jeff Lee, Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 01/06/21 11:25
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**SB-9-0.5**  
**T204228-26 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

**SunStar Laboratories, Inc.**

**STLC Metals by 6000/7000 Series Methods**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Lead	2.4	0.50	mg/l	1	0122822	12/28/20	12/31/20	STLC Waste Extraction Test	

SunStar Laboratories, Inc.

*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.*

Joann Marroquin For Jeff Lee, Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 01/06/21 11:25
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**TCLP Metals by 6000/7000 Series Methods - Quality Control**  
**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 0122826 - TCLP Metals**

<b>Blank (0122826-BLK1)</b>				Prepared: 12/28/20 Analyzed: 12/31/20						
Lead	ND	0.10	mg/l							
<b>LCS (0122826-BS1)</b>				Prepared: 12/28/20 Analyzed: 12/31/20						
Lead	0.504	0.10	mg/l	0.500		101	75-125			
<b>Matrix Spike (0122826-MS1)</b>				Source: T204228-23 Prepared: 12/28/20 Analyzed: 12/31/20						
Lead	0.562	0.10	mg/l	0.500	0.0424	104	75-125			
<b>Matrix Spike Dup (0122826-MSD1)</b>				Source: T204228-23 Prepared: 12/28/20 Analyzed: 12/31/20						
Lead	0.556	0.10	mg/l	0.500	0.0424	103	75-125	1.04	30	

SunStar Laboratories, Inc.

*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.*

Joann Marroquin For Jeff Lee, Project Manager



25712 Commercentre Drive  
 Lake Forest, California 92630  
 949.297.5020 Phone  
 949.297.5027 Fax

Terracon - Colton 1355 East Cooley Dr. Colton CA, 92324	Project: Barton Road Bridge Project Number: CB175228 Project Manager: Todd McFarland	Reported: 01/06/21 11:25
---------------------------------------------------------------	--------------------------------------------------------------------------------------------	-----------------------------

**STLC Metals by 6000/7000 Series Methods - Quality Control**

**SunStar Laboratories, Inc.**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 0122822 - STLC Metals**

<b>Blank (0122822-BLK1)</b>		Prepared: 12/28/20 Analyzed: 12/31/20								
Lead	ND	0.50	mg/l							
<b>LCS (0122822-BS1)</b>		Prepared: 12/28/20 Analyzed: 12/31/20								
Lead	10.5	0.50	mg/l	10.0		105	75-125			
<b>Matrix Spike (0122822-MS1)</b>		<b>Source: T204228-14</b>		Prepared: 12/28/20 Analyzed: 12/31/20						
Lead	9.29	0.50	mg/l	10.0	4.50	47.9	75-125			QM-05
<b>Matrix Spike Dup (0122822-MSD1)</b>		<b>Source: T204228-14</b>		Prepared: 12/28/20 Analyzed: 12/31/20						
Lead	9.13	0.50	mg/l	10.0	4.50	46.3	75-125	1.71	30	QM-05

SunStar Laboratories, Inc.

*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.*

Joann Marroquin For Jeff Lee, Project Manager



25712 Commercentre Drive  
Lake Forest, California 92630  
949.297.5020 Phone  
949.297.5027 Fax

Terracon - Colton  
1355 East Cooley Dr.  
Colton CA, 92324

Project: Barton Road Bridge  
Project Number: CB175228  
Project Manager: Todd McFarland

**Reported:**  
01/06/21 11:25

### Notes and Definitions

- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS was within acceptance criteria. The data is acceptable as no negative impact on data is expected.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

---

SunStar Laboratories, Inc.

*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.*

---

Joann Marroquin For Jeff Lee, Project Manager

# Terracon

Consulting Engineers & Scientists

T204228

**CHAIN OF CUSTODY RECORD**

Laboratory Address: SUNSTAR  
 Laboratory Address: LAKE FOREST  
 Phone: \_\_\_\_\_  
 Contact: JEFF LEE  
 PO/SO #: CB175228

Office Location: COLTON  
 Project Manager: TODD McFARLAND  
 Sampler's Name: TODD McFARLAND  
 Project Number: CB175228  
 Project Name: BARTON ROAD BRIDGE  
 Sampler's Signature: [Signature]

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No. Type of Containers	ANALYSIS REQUESTED	LAB USE ONLY DUE DATE:
S	12/15/20	10:12	X		SB-1-0.5	0.0	0.5	X	LEAD 6010	TEMP OF COOLER WHEN RECEIVED (°C) 2.3°C
	10:28				SB-2-0.5	0.0	0.5	X	TPH CC 8015	
	10:30				B-2-5	0.0	5.5	X	VOCs 8260	
	10:35				B-2-10	9.0	10.5	X		
	10:40				B-2-12.5	11.0	12.5	X		
	10:50				B-2-17.5	-	17.5	X		
	10:55				B-2-20	-	20	X		
	11:00				B-2-22.5	-	22.5	X		
	11:10				B-2-25	-	25	X		
					B-2-30	-	30	X		

TURNDOWN TIME:  Normal  48-hour Rush  24-Hour Rush  
 Relinquished by (Signature): [Signature] Date: 12/15/20 Time: 1400  
 Relinquished by (Signature): [Signature] Date: 12/15/2020 Time: 15:45  
 Relinquished by (Signature): [Signature] Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Relinquished by (Signature): \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Matrix: WW - Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal Tube SL - Sludge O - Oil  
 Container: VOA - 40 ml vial AG - Amber Glass 1 L 250 ml = Glass wide mouth P/O Plastic or other

California Office ■ 1355 E. Cooley Drive, Suite C ■ Colton, CA 92324 ■ (909) 824-7311

Responsive ■ Resourceful ■ Reliable

NOTES:  
ALL RESULTS mg/kg  
NOBMAH 747  
NO SAMPLE

# Terracon

Consulting Engineers & Scientists

T204228

## CHAIN OF CUSTODY RECORD

Laboratory SUN STAR  
 Address LAKE FOREST

Office Location COLTON  
 Project Manager TODD McFARLAND

Phone  
 Contact JEFF LEE  
 PO/SO # CB175228

Sampler's Name TODD McFARLAND Sampler's Signature [Signature]

Project Number CB175228 Project Name BARLOW ROAD BRIDGE

No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	Lab Sample ID
	5/14/20	11:15		X	SB-2-1	-	1	10
					SB-3-0.5	-	0.5	11
		11:30			SB-3-1	-	1	12
		11:35			SB-3-2	-	2	13
		11:40			SB-4-0.5	-	0.5	14
		11:50			SB-4-1	-	1	15
		11:55			SB-4-2	-	2	16
		12:00			SB-5-0.5	-	0.5	17
		12:05			SB-6-0.5	-	0.5	18
		12:20			SB-6-1	-	1	19

LEAD 6010

TURNAROUND TIME  Normal  48-Hour Rush  24-Hour Rush TRRP Laboratory Review Checklist  Yes  No

Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:
<u>[Signature]</u>	12/15/20	1400	<u>[Signature]</u>	12/15/20	1400
<u>[Signature]</u>	12/15/20	15:45	<u>[Signature]</u>	12/15/20	1545
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:

NOTES:  
 ALL RESULTS mg/kg  
 NORMAL TAT.

Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal Tube Sl - Sludge O - Oil  
 Container VOA - 40 ml vial A/G - Amber Glass 1 L 250 ml = Glass wide mouth P/O Plastic or other

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# Terracon

Consulting Engineers & Scientists

T204228

## CHAIN OF CUSTODY RECORD

Laboratory SUNSTAR  
Address LATE FOREST

ANALYSIS REQUESTED

LAB USE ONLY  
DUE DATE:

TEMP OF COOLER WHEN RECEIVED (°C)

2.3°C

Office Location COLTON  
Project Manager TODD McFARLAND

Phone  
Contact JEFF VEE  
PO/SO # CB175228

Sampler's Name TODD McFARLAND Sampler's Signature [Signature]

Project Number CB175228 Project Name BARLOW ROAD BRIDGE

No. Type of Containers

Start Depth

End Depth

402

LEAD 60/10

Lab Sample ID

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No. Type of Containers	LAB USE ONLY
	12/15/20	1305	X	X	SB-7-0.5	-	0.5	X	20
	1310		X	X	SB-7-1	-	1	X	21
	1315		X	X	SB-7-2	-	2	X	22
	1235		X	X	SB-8-0.5	-	0.5	X	23
	1240		X	X	SB-8-1	-	1	X	24
	1245		X	X	SB-8-2	-	2	X	25
	1250		X	X	SB-9-0.5	-	0.5	X	26

Normal

48-Hour Rush

24-Hour Rush

TRRP Laboratory Review Checklist

Yes

No

NOTES:

MG/CG -  
NORMAL TAT

TURNAROUND TIME	Date:	Time:	Received by (Signature)	Date:	Time:
Relinquished by (Signature)	12/15/20	1400	[Signature]	12/15/20	14:00
Relinquished by (Signature)	12/15/20	15:45	[Signature]	12/15/20	15:20
Relinquished by (Signature)					

Matrix	Container	Volume	Received by (Signature)	Date:	Time:
WW - Wastewater	VOA - 40 ml vial	250 ml = Glass wide mouth	[Signature]	12/15/20	14:00
W - Water	A/G - Amber Glass 1L	250 ml = Glass wide mouth	[Signature]	12/15/20	14:00
S - Soil	L - Liquid	A - Air Bag	[Signature]	12/15/20	14:00
P/O Plastic or other	C - Charcoal Tube	SI - Sludge	[Signature]	12/15/20	14:00
O - Oil			[Signature]	12/15/20	14:00

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## Joann Marroquin

---

**From:** McFarland, Todd G <Todd.Mcfarland@terracon.com>  
**Sent:** Thursday, December 24, 2020 4:07 PM  
**To:** Joann Marroquin  
**Cc:** Cathy Hartman; Walker, Tammy L; Jeff Lee; Parten, Carl A  
**Subject:** RE: Final Report and Invoice for Barton Road Bridge (T204228)  
**Attachments:** COC\_Revised\_24Dec2020.pdf

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Joann,

Please run lead - WET/STLC for the following seven (7) samples, **AND** lead – TCLP for sample ID SB-8-0.5 (T204228-23). Revised COC attached.

CLIENT	PROJECT	PROJECTNUM	SAMPLENAME	LABSAMPID	MATRIX	METHODNAME
Terracon - Colton	Barton Road Bridge	CB175228	SB-4-0.5	<b>T204228-14</b>	Soil	EPA 6010b
Terracon - Colton	Barton Road Bridge	CB175228	SB-4-1	<b>T204228-15</b>	Soil	EPA 6010b
Terracon - Colton	Barton Road Bridge	CB175228	SB-6-0.5	<b>T204228-18</b>	Soil	EPA 6010b
Terracon - Colton	Barton Road Bridge	CB175228	SB-6-1	<b>T204228-19</b>	Soil	EPA 6010b
Terracon - Colton	Barton Road Bridge	CB175228	SB-8-0.5	<b>T204228-23</b>	Soil	EPA 6010b
Terracon - Colton	Barton Road Bridge	CB175228	SB-8-1	<b>T204228-24</b>	Soil	EPA 6010b
Terracon - Colton	Barton Road Bridge	CB175228	SB-9-0.5	<b>T204228-26</b>	Soil	EPA 6010b

Thanks,

**Todd G. McFarland, PG, CHG**  
**Department Manager | Environmental Services**  
**Terracon Consultants, Inc.**  
1355 E. Cooley Drive, Suite C | Colton, California 92324  
Office (909) 824-7311 | Mobile (805) 294-8147 | Direct (909) 301-6068  
[todd.mcfarland@terracon.com](mailto:todd.mcfarland@terracon.com) | [www.terracon.com](http://www.terracon.com)

Learn how Terracon uses technology to streamline materials testing and inspection.

Watch Now >

---

**From:** Joann Marroquin <joann@sunstarlabs.com>  
**Sent:** Tuesday, December 22, 2020 3:43 PM  
**To:** McFarland, Todd G <Todd.Mcfarland@terracon.com>; Parten, Carl A <Carl.Parten@terracon.com>  
**Cc:** Cathy Hartman <accounting@sunstarlabs.com>; Walker, Tammy L <Tammy.Walker@terracon.com>  
**Subject:** Final Report and Invoice for Barton Road Bridge (T204228)

Please find attached the final report and invoice for the following:

Project: **Barton Road Bridge**  
Project Number: **CB175228**

Thank you for choosing Sunstar! We appreciate your business!



**Shipping Alert:**

***In observance of the upcoming Christmas Holidays, SunStar Laboratories will be closed on Thursday and Friday, December 24 and 25<sup>th</sup> and Friday, January 1, 2021. Please contact your Project Manager in advance to ensure all short holding times or rush turnaround times are met for your samples. SunStar will resume normal business hours on Monday, January 4, 2021.***

***Sunstar wishes you and your families the best for the holidays, and for health and happiness throughout the coming year!***

**Joann Marroquin  
Director of Operations**



29712 Commerce Dr., Lake Forest, CA 92650  
Office: (949) 297-5020 Mobile: (949) 469-3124  
ELAP Accreditation: 1250 State of Nevada Accreditation: CA012842015-1  
ISO/IEC 17025 Accreditation: #72642 CA Small Business Certification: 31511

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---

*Private and confidential as detailed here ([www.terracon.com/disclaimer](http://www.terracon.com/disclaimer)). If you cannot access the hyperlink, please e-mail sender.*

T204228

CHAIN OF CUSTODY RECORD



Consulting Engineers & Scientists

Laboratory SUN STAR  
 Address LAKE FORREST  
 Phone \_\_\_\_\_  
 Contact JEFF LEE  
 PO/SO # CB175228

Office Location COLTON  
 Project Manager TODD MCFARLAND

ANALYSIS REQUESTED	
LEAD	0010
WET/STC	

LAB USE ONLY  
 DUE DATE:  
 TEMP OF COOLER WHEN RECEIVED (°C) 2.3°C

Page 2 of 3

Sampler's Name TODD MCFARLAND Sampler's Signature [Signature]

Project Number CB175228 Project Name BARTON ROAD BRIDGE No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No. Type of Containers		Lab Sample ID
S	12/15/20	1115		X	SB-2-1	-	1	X		10
		1130			SB-3-0.5	-	0.5	X		11
		1135			SB-3-1	-	1	X		12
		1140			SB-3-2	-	2	X		13
		1150			SB-4-0.5	-	0.5	X	X	14
		1155			SB-4-1	-	1	X	X	15
		1200			SB-4-2	-	2	X		16
		1205			SB-5-0.5	-	0.5	X		17
		1220			SB-6-0.5	-	0.5	X	X	18
		1225			SB-6-1	-	1	X	X	19

TURNAROUND TIME  Normal  48-Hour Rush  24-Hour Rush TRRP Laboratory Review Checklist  Yes  No

Relinquished by (Signature) <u>[Signature]</u>	Date: <u>12/15/20</u>	Time: <u>1400</u>	Received by (Signature) <u>Paul Turner</u>	Date: <u>12/15/20</u>	Time: <u>1400</u>
Relinquished by (Signature) <u>Paul Turner</u>	Date: <u>12/15/2020</u>	Time: <u>15:45</u>	Received by (Signature) <u>[Signature]</u>	Date: <u>12-15-20</u>	Time: <u>1545</u>
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:

NOTES:  
ALL RESULTS MG/KG  
NORMAL TAT.  
12/24/20 - ADD STC Pb - [Signature]

Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal Tube SL - Sludge O - Oil  
 Container VOA - 40 ml vial A/G - Amber Glass 1 L 250 ml = Glass wide mouth P/O Plastic or other

California Office ■ 1355 E. Cooley Drive, Suite C ■ Colton, CA 92324 ■ (909) 824-7311  
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T204228

CHAIN OF CUSTODY RECORD

**Terracon**  
Consulting Engineers & Scientists

Laboratory SUNSTAR  
Address LAKE FOREST  
Phone \_\_\_\_\_  
Contact JEFF LEE  
PO/SO # CB175228

Office Location COLTON  
Project Manager TODD MCFARLAND

ANALYSIS REQUESTED

LAB USE ONLY  
DUE DATE:

TEMP OF COOLER WHEN RECEIVED (°C) 2.3°c

Page 3 of 3

Sampler's Name TODD MCFARLAND Sampler's Signature

Project Number CB175228 Project Name BARTON ROAD BRIDGE No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	No. Type of Containers			Lab Sample ID
								LEAD	WET/STLC	TCLP	
	12/15/20	1305	X		SB-7-0.5	-	0.5	X			20
		1310	X		SB-7-1	-	1	X			21
		1315	X		SB-7-2	-	2	X			22
		1235	X		SB-8-0.5	-	0.5	X	X	X	23
		1240	X		SB-8-1	-	1	X	X		24
		1245	X		SB-8-2	-	2	X	X		25
		1250	X		SB-9-0.5	-	0.5	X	X		26

TURNAROUND TIME  Normal  48-Hour Rush  24-Hour Rush TRRP Laboratory Review Checklist  Yes  No

Reinstated by (Signature)	Date: <u>12/15/20</u> Time: <u>1400</u>	Received by (Signature) <u>Tal Turner</u>	Date: <u>12/15/2020</u> Time: <u>14:00</u>
Relinquished by (Signature) <u>Tal Turner</u>	Date: <u>12/15/2020</u> Time: <u>15:45</u>	Received by (Signature) <u>AB</u>	Date: <u>12/15/20</u> Time: <u>1545</u>
Relinquished by (Signature)	Date:	Received by (Signature)	Date:
Relinquished by (Signature)	Date:	Received by (Signature)	Date:

NOTES:  
MG/KG -  
NORMAL TAT  
12/24/20-STLC/TCLP Pb-(TM)

Matrix WW - Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal Tube SL - Sludge O - Oil  
Container VOA - 40 ml vial A/G - Amber Glass 1 L 250 ml - Glass wide mouth P/O Plastic or other \_\_\_\_\_

California Office ■ 1355 E. Cooley Drive, Suite C ■ Colton, CA 92324 ■ (909) 824-7311  
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## SAMPLE RECEIVING REVIEW SHEET

Batch/Work Order #: T204228

Client Name: Terracon - Colton Project: Barton Road Property

Delivered by:  Client  SunStar Courier  GLS  FedEx  Other

If Courier, Received by: Paul Date/Time Courier Received: 12-15-20 14:00

Lab Received by: Dave Date/Time Lab Received: 12-15-20 15:45

Total number of coolers received: 0 Thermometer ID: SC-1 Calibration due : 8/17/21

Temperature:	Cooler #1	2.5	°C +/- the CF (- 0.2°C) =	2.3	°C corrected temperature
Temperature:	Cooler #2		°C +/- the CF (- 0.2°C) =		°C corrected temperature
Temperature:	Cooler #3		°C +/- the CF (- 0.2°C) =		°C corrected temperature

<b>Temperature criteria = ≤ 6°C (no frozen containers)</b>	Within criteria?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
<b>If NO:</b>		
Samples received on ice?	<input type="checkbox"/> Yes	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>
If on ice, samples received same day collected?	<input type="checkbox"/> Yes → Acceptable	<input type="checkbox"/> No → <b>Complete Non-Conformance Sheet</b>

Custody seals intact on cooler/sample  Yes  No\*  N/A

Sample containers intact  Yes  No\*

Sample labels match Chain of Custody IDs  Yes  No\*

Total number of containers received match COC  Yes  No\*

Proper containers received for analyses requested on COC  Yes  No\*

Proper preservative indicated on COC/containers for analyses requested  Yes  No\*  N/A

Complete shipment received in good condition with correct temperatures, containers, labels, volumes preservatives and within method specified holding times  Yes  No\*

\* Complete Non-Conformance Receiving Sheet if checked Cooler/Sample Review - Initials and date: DM 12-15-20

**Comments:**  
\_\_\_\_\_  
\_\_\_\_\_

**T204228**

**SunStar Laboratories, Inc.**

<b>Client:</b> Terracon - Colton <b>Project:</b> Barton Road Bridge	<b>Project Manager:</b> Jeff Lee <b>Project Number:</b> CB175228
------------------------------------------------------------------------	---------------------------------------------------------------------

<b><u>Report To:</u></b> Terracon - Colton Todd McFarland 1355 East Cooley Dr. Colton, CA 92324 Phone: (909) 824-7311 Fax: -	<b><u>Invoice To:</u></b> Terracon - Colton Todd McFarland 1355 East Cooley Dr. Colton, CA 92324 Phone : (909) 824-7311 Fax: -
------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------

Date Due: 12/22/20 17:00 (5 day TAT)	
Received By: Dave Berner	Date Received: 12/15/20 15:45
Logged In By: Dan Marteski	Date Logged In: 12/15/20 16:57

Samples Received at: <b>2.3°C</b>			
Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Comments
<b>T204228-01 SB-1-0.5 [Soil] Sampled 12/15/20 10:12 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:12	
<b>T204228-02 SB-2-0.5 [Soil] Sampled 12/15/20 10:28 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:28	
<b>T204228-03 B-2-5 [Soil] Sampled 12/15/20 10:30 (GMT-08:00) Pacific Time (US &amp;</b>				
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 10:30	
6010 Pb	12/22/20 15:00	5	06/13/21 10:30	
8260	12/22/20 15:00	5	12/29/20 10:30	
<b>T204228-04 B-2-10 [Soil] Sampled 12/15/20 10:35 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:35	
<b>T204228-05 B-2-12.5 [Soil] Sampled 12/15/20 10:40 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:40	

**T204228**

**SunStar Laboratories, Inc.**

<b>Client:</b> Terracon - Colton	<b>Project Manager:</b> Jeff Lee
<b>Project:</b> Barton Road Bridge	<b>Project Number:</b> CB175228

Analysis	Due	TAT	Expires	Comments
<b>T204228-06 B-2-17.5 [Soil] Sampled 12/15/20 10:50 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	12/22/20 15:00	5	12/29/20 10:50	
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 10:50	
6010 Pb	12/22/20 15:00	5	06/13/21 10:50	
<b>T204228-07 B-2-20 [Soil] Sampled 12/15/20 10:55 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	12/22/20 15:00	5	12/29/20 10:55	
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 10:55	
6010 Pb	12/22/20 15:00	5	06/13/21 10:55	
<b>T204228-08 B-2-22.5 [Soil] Sampled 12/15/20 11:00 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:00	
8260	12/22/20 15:00	5	12/29/20 11:00	
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 11:00	
<b>T204228-09 B-2-30 [Soil] Sampled 12/15/20 11:10 (GMT-08:00) Pacific Time (US &amp;</b>				
8260	12/22/20 15:00	5	12/29/20 11:10	
6010 Pb	12/22/20 15:00	5	06/13/21 11:10	
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 11:10	
<b>T204228-10 SB-2-1 [Soil] Sampled 12/15/20 11:15 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:15	
<b>T204228-11 SB-3-0.5 [Soil] Sampled 12/15/20 11:30 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:30	
<b>T204228-12 SB-3-1 [Soil] Sampled 12/15/20 11:35 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:35	
<b>T204228-13 SB-3-2 [Soil] Sampled 12/15/20 11:40 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:40	
<b>T204228-14 SB-4-0.5 [Soil] Sampled 12/15/20 11:50 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:50	

T204228

**SunStar Laboratories, Inc.**

<b>Client:</b> Terracon - Colton <b>Project:</b> Barton Road Bridge	<b>Project Manager:</b> Jeff Lee <b>Project Number:</b> CB175228
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Analysis	Due	TAT	Expires	Comments
<b>T204228-15 SB-4-1 [Soil] Sampled 12/15/20 11:55 (GMT-08:00) Pacific Time (US &amp; 6010 Pb</b>	12/22/20 15:00	5	06/13/21 11:55	
<b>T204228-16 SB-4-2 [Soil] Sampled 12/15/20 12:00 (GMT-08:00) Pacific Time (US &amp; 6010 Pb</b>	12/22/20 15:00	5	06/13/21 12:00	
<b>T204228-17 SB-5-0.5 [Soil] Sampled 12/15/20 12:05 (GMT-08:00) Pacific Time (US &amp; 6010 Pb</b>	12/22/20 15:00	5	06/13/21 12:05	
<b>T204228-18 SB-6-0.5 [Soil] Sampled 12/15/20 12:20 (GMT-08:00) Pacific Time (US &amp; 6010 Pb</b>	12/22/20 15:00	5	06/13/21 12:20	
<b>T204228-19 SB-6-1 [Soil] Sampled 12/15/20 12:25 (GMT-08:00) Pacific Time (US &amp; 6010 Pb</b>	12/22/20 15:00	5	06/13/21 12:25	
<b>T204228-20 SB-7-0.5 [Soil] Sampled 12/15/20 13:05 (GMT-08:00) Pacific Time (US &amp; 6010 Pb</b>	12/22/20 15:00	5	06/13/21 13:05	
<b>T204228-21 SB-7-1 [Soil] Sampled 12/15/20 13:10 (GMT-08:00) Pacific Time (US &amp; 6010 Pb</b>	12/22/20 15:00	5	06/13/21 13:10	
<b>T204228-22 SB-7-2 [Soil] Sampled 12/15/20 13:15 (GMT-08:00) Pacific Time (US &amp; 6010 Pb</b>	12/22/20 15:00	5	06/13/21 13:15	
<b>T204228-23 SB-8-0.5 [Soil] Sampled 12/15/20 12:35 (GMT-08:00) Pacific Time (US &amp; 6010 Pb</b>	12/22/20 15:00	5	06/13/21 12:35	
<b>T204228-24 SB-8-1 [Soil] Sampled 12/15/20 12:40 (GMT-08:00) Pacific Time (US &amp; 6010 Pb</b>	12/22/20 15:00	5	06/13/21 12:40	
<b>T204228-25 SB-8-2 [Soil] Sampled 12/15/20 12:45 (GMT-08:00) Pacific Time (US &amp; 6010 Pb</b>	12/22/20 15:00	5	06/13/21 12:45	

T204228

SunStar Laboratories, Inc.

Client: Terracon - Colton  
Project: Barton Road Bridge

Project Manager: Jeff Lee  
Project Number: CB175228

Analysis	Due	TAT	Expires	Comments
T204228-26 SB-9-0.5 [Soil] Sampled 12/15/20 12:50 (GMT-08:00) Pacific Time (US &				
6010 Pb	12/22/20 15:00	5	06/13/21 12:50	

Empty rectangular box



**WORK ORDER**

**T204228**

<b>Client:</b> Terracon - Colton	<b>Project Manager:</b> Jeff Lee
<b>Project:</b> Barton Road Bridge	<b>Project Number:</b> CBI75228

**Report To:**

Terracon - Colton  
 Todd McFarland  
 1355 East Cooley Dr.  
 Colton, CA 92324

Date Due:	01/06/21 17:00 (13 day TAT)	Date Received:	12/15/20 15:45
Received By:	Dave Berner	Date Logged In:	12/15/20 16:57
Logged In By:	Dan Marteski		

Samples Received at:	2.3°C		
Custody Seals	No	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confirmed	No		

Analysis	Due	TAT	Expires	Comments
<b>T204228-01 SB-1-0.5 [Soil] Sampled 12/15/20 10:12 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:12	
<b>T204228-02 SB-2-0.5 [Soil] Sampled 12/15/20 10:28 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:28	
<b>T204228-03 B-2-5 [Soil] Sampled 12/15/20 10:30 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:30	
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 10:30	
8260	12/22/20 15:00	5	12/29/20 10:30	
<b>T204228-04 B-2-10 [Soil] Sampled 12/15/20 10:35 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:35	
<b>T204228-05 B-2-12.5 [Soil] Sampled 12/15/20 10:40 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:40	
<b>T204228-06 B-2-17.5 [Soil] Sampled 12/15/20 10:50 (GMT-08:00) Pacific Time (US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:50	
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 10:50	
8260	12/22/20 15:00	5	12/29/20 10:50	



**WORK ORDER**

**T204228**

<b>Client:</b> Terracon - Colton	<b>Project Manager:</b> Jeff Lee
<b>Project:</b> Barton Road Bridge	<b>Project Number:</b> CBI75228

Analysis	Due	TAT	Expires	Comments
<b>T204228-07 B-2-20 [Soil] Sampled 12/15/20 10:55 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 10:55	
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 10:55	
8260	12/22/20 15:00	5	12/29/20 10:55	
<b>T204228-08 B-2-22.5 [Soil] Sampled 12/15/20 11:00 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:00	
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 11:00	
8260	12/22/20 15:00	5	12/29/20 11:00	
<b>T204228-09 B-2-30 [Soil] Sampled 12/15/20 11:10 (GMT-08:00) Pacific Time (US</b>				
<b>&amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:10	
8015 Carbon Chain	12/22/20 15:00	5	12/29/20 11:10	
8260	12/22/20 15:00	5	12/29/20 11:10	
<b>T204228-10 SB-2-1 [Soil] Sampled 12/15/20 11:15 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:15	
<b>T204228-11 SB-3-0.5 [Soil] Sampled 12/15/20 11:30 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:30	
<b>T204228-12 SB-3-1 [Soil] Sampled 12/15/20 11:35 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:35	
<b>T204228-13 SB-3-2 [Soil] Sampled 12/15/20 11:40 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:40	
<b>T204228-14 SB-4-0.5 [Soil] Sampled 12/15/20 11:50 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:50	
STLC Pb	01/06/21 15:00	5	06/13/21 11:50	
STLC Leaching Procedure Metals	01/06/21 15:00	5	06/13/21 11:50	



**WORK ORDER**

**T204228**

<b>Client:</b> Terracon - Colton	<b>Project Manager:</b> Jeff Lee
<b>Project:</b> Barton Road Bridge	<b>Project Number:</b> CBI75228

Analysis	Due	TAT	Expires	Comments
<b>T204228-15 SB-4-1 [Soil] Sampled 12/15/20 11:55 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 11:55	
STLC Pb	01/06/21 15:00	5	06/13/21 11:55	
STLC Leaching Procedure Metals	01/06/21 15:00	5	06/13/21 11:55	
<b>T204228-16 SB-4-2 [Soil] Sampled 12/15/20 12:00 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 12:00	
<b>T204228-17 SB-5-0.5 [Soil] Sampled 12/15/20 12:05 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 12:05	
<b>T204228-18 SB-6-0.5 [Soil] Sampled 12/15/20 12:20 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 12:20	
STLC Pb	01/06/21 15:00	5	06/13/21 12:20	
STLC Leaching Procedure Metals	01/06/21 15:00	5	06/13/21 12:20	
<b>T204228-19 SB-6-1 [Soil] Sampled 12/15/20 12:25 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 12:25	
STLC Pb	01/06/21 15:00	5	06/13/21 12:25	
STLC Leaching Procedure Metals	01/06/21 15:00	5	06/13/21 12:25	
<b>T204228-20 SB-7-0.5 [Soil] Sampled 12/15/20 13:05 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 13:05	
<b>T204228-21 SB-7-1 [Soil] Sampled 12/15/20 13:10 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 13:10	
<b>T204228-22 SB-7-2 [Soil] Sampled 12/15/20 13:15 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 13:15	



**WORK ORDER**

**T204228**

<b>Client:</b> Terracon - Colton	<b>Project Manager:</b> Jeff Lee
<b>Project:</b> Barton Road Bridge	<b>Project Number:</b> CB175228

Analysis	Due	TAT	Expires	Comments
<b>T204228-23 SB-8-0.5 [Soil] Sampled 12/15/20 12:35 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 12:35	
STLC Pb	01/06/21 15:00	5	06/13/21 12:35	
STLC Leaching Procedure Metals	01/06/21 15:00	5	06/13/21 12:35	
TCLP Leaching Procedure Metals	01/06/21 15:00	5	06/13/21 12:35	
TCLP Pb	01/06/21 15:00	5	06/13/21 12:35	
<b>T204228-24 SB-8-1 [Soil] Sampled 12/15/20 12:40 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 12:40	
STLC Pb	01/06/21 15:00	5	06/13/21 12:40	
STLC Leaching Procedure Metals	01/06/21 15:00	5	06/13/21 12:40	
<b>T204228-25 SB-8-2 [Soil] Sampled 12/15/20 12:45 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 12:45	
<b>T204228-26 SB-9-0.5 [Soil] Sampled 12/15/20 12:50 (GMT-08:00) Pacific Time</b>				
<b>(US &amp;</b>				
6010 Pb	12/22/20 15:00	5	06/13/21 12:50	
STLC Pb	01/06/21 15:00	5	06/13/21 12:50	
STLC Leaching Procedure Metals	01/06/21 15:00	5	06/13/21 12:50	