

South Yuba River Bridge Rehabilitation Nevada City, CA 95946





KELLCO Job #1702-17

Pre-Renovation Asbestos, Lead, Polychlorinated Biphenyls (PCBs), Total Petroleum Hydrocarbons & Creosote Inspection Report

for

Department Of Parks and Recreation One Capital Mall Suite 500 Sacramento, Ca 95813

March 1, 2017



Pre-Renovation Asbestos, Lead, Polychlorinated Biphenyls (PCBs), Total Petroleum Hydrocarbons & Creosote Inspection Report

Date:	March 1, 2017
KELLCO Job #:	1702-17
Client:	Department of Parks and Recreation One Capital Mall Suite #500 Sacramento, CA 95813
Location:	South Yuba River Bridge Rehabilitation Nevada City, CA 95946
Date of Inspection:	February 13, 2017
Inspectors:	Tim Cannard CAC #94-1395, CDPH Lead #764 Derrik Quach CSST #02-3214, CDPH Lead 2280
Lab Reports:	Asbestos Labs: 202054 Lead Labs: 202053 Misc. Lab: 1702904
Description Of The Inspected Area:	The inspection was conducted on the South Yuba River Bridge in Nevada City, California. Samples were taken of suspect asbestos, lead, PCBs, Total Petroleum Hydrocarbons and Creosote materials.

Background

This is a pre-renovation inspection on a bridge located in Nevada City, California.

Synopsis

Asbestos was **NOT** found in the tested materials.

Lead was found in the following tested materials;

• Soil around bridge

With respect to the soil, the soil samples exhibited relatively low lead concentrations between 2.3 and 28 milligrams per kilogram (mg/kg); below applicable screening levels, including the DTSC-recommended Screening Level (SL) of 80 mg/kg for residential, or unrestricted, reuse. Additionally, based on a review of the USGS 2011 Map, *Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California*, the site is not located in an area of known asbestos presence or ultramafic rock outcrops. Therefore, we do not believe testing of soil for naturally occurring asbestos (NOA) is necessary.

In reviewing the test data of the wood samples, total recoverable petroleum hydrocarbons, creosote, and polycyclic aromatic hydrocarbons (PAHs) were detected, but this is consistent with what would be expected for pressure-treated lumber. None of the samples exhibited detectable concentrations of PCBs. We would not expect any special measures would be needed if wooden members from the bridge were to be removed and disposed of at a landfill facility.

About the Inspection

The inspection performed was both visual and tactile. Samples were taken of suspect materials located at the exterior of the survey area.

The inspection was a reasonable attempt to find suspect materials that were hidden within walls, behind structures, in vertical shafts or in areas not normally accessible. If any non-sampled materials are uncovered, these should be submitted for asbestos and/or lead paint analysis.

LETTER	STANDS FOR	EXAMPLE	MEANING
XXXX-YY	Building DESIGNATION	YRB-01	Yuba River Bridge – First
	based on information provided		Sample
	on drawings provided to us		
	prior to inspection		
F	SYSTEM (W: wall; F:	YRB-M-01	Yuba River Bridge – Mortar
	Flooring; C: Ceiling; T: TSI;		Sample– First Sample
	M: Misc.)		

The following numbering convention was used for this inspection:

• Asbestos Findings

Asbestos samples were analyzed in Schneider Laboratories Global by Polarized Light Microscopy, the EPA's recommended method. Copies of the full laboratory reports are attached. These valuable reports can be utilized as future reference to determine if a particular material was tested.

Photographs of sampled materials are included. Sample locations are noted on the attached not-to-scale drawing.

The determination of a material to be Asbestos Containing Material (ACM) was made either by direct sampling or by homogeneity with at least one positive sample of the same material.



Tested materials that were **none detected** for asbestos are:

			LAYER	LAYER	LAYER
LAB #	FIELD #	FIELD DESCRIPTION	#	NAME	DESCRIPTION
		SE Of Covered Bridge			
202054-001	YRB-M-01	Grey Mortar	1	Mortar	Gray, Granular
		SW Of Covered Bridge			
202054-002	YRB-M-02	Grey Mortar	1	Mortar	Gray, Granular
		NE Of Covered Bridge			Gray/Brown,
202054-003	YRB-M-03	Grey Mortar	1	Mortar	Granular
		NW Of Covered Bridge			
202054-004	YRB-M-04	Grey Mortar	1	Mortar	Gray, Hard

• Paint Findings

Lead samples were analyzed by Atomic Absorption in Schneider Laboratories Global. OSHA requires protection of workers from exposure to any lead. Paint should be considered as containing lead if it is the same color as any positive tested material, unless it has specifically been tested and shown to be **none detected** for lead.

The following are materials for which the lead was **none detected**:

LAB #	FIELD #	FIELD DESCRIPTION	LEAD mg/kg (PPM)	LEAD %
		Support/Base		
202053-001	YRB-Pb-05	Tan/Brown Paint	< 49.0	<0.00491

• Soil Sample Results

KELLCO took a total of 4 soil samples, 1 sample in each corner of the bridge. The soil samples were submitted for lead analysis. The current Housing Urban Development (HUD) guidelines have to be below 1,000 mg/kg (PPM) in all other areas where children are not present.

None of the samples taken were above the HUD guidelines:

LAB #	FIELD #	FIELD DESCRIPTION	LEAD mg/kg (PPM)
1702904-004A	YRB-Pb-01 (SE)	Soil Sample Taken at the South East End of Bridge	2.3
1702904-005A	YRB-Pb-02 (SW)	Soil Sample Taken at the South West End of Bridge	3.3
1702904-006A	YRB-Pb-03 (NE)	Soil Sample Taken at North East End of Bridge	28
1702904-007A	YRB-Pb-04 (NW)	Soil Sample Taken at North West End of Bridge	7.3

• Total Recoverable Petroleum Hydrocarbons (TRPH)

KELLCO took three (3) samples of the wood on the bridge. This was done to verify the presence of Total Petroleum Hydrocarbons.

LAB #	FIELD #	FIELD DESCRIPTION	RESULTS mg/kg
1702904-001A	Wood #1 South	Wood Sample Taken From Bridge on the	840
	End of Bridge	South End	
1702904-002A	Wood #2 Midway	Wood Sample Taken From the Middle of	280
		the Bridge	
1702904-003A	Wood #3 North	Wood Sample Taken From the North	1900
	End of Bridge	Endo of the Bridge	

In reviewing the test data of the wood samples, total recoverable petroleum hydrocarbons (PAHs) were detected, but this is consistent with what would be expected for pressure-treated lumber. We would not expect any special measures would be needed if wooden members from the bridge were to be removed and disposed of at a landfill facility.

• Polychlorinated Biphenyls (PCB) Findings

Polychlorinated Biphenyls samples were analyzed in McCampbell Laboratories, Inc. by SW846 8082 using SLI O17 analytical method. Copies of the full laboratory reports are attached. These valuable reports can be utilized as future reference to determine if a particular material was tested.

Polychlorinated Biphenyls (PCBs) samples were taken from the wood on the bridge. This was done to confirm the presence of PCBs which would require abatement, and is part of the standard series of tests required for hazardous material sampling.

Lab Sample Number:	1702904-001A	1702904-002A	1702904-003A
Client Sample Number:	PCB-01	PCB-02	PCB-03
Mg/kg	Wood #1 South End of Bridge	Wood #2 Midway	Wood #3 North End of Bridge
Units:	µg/kg	µg/kg	µg/kg
Arocor-1016	ND	ND	ND
Aroclor-1221	ND	ND	ND
Aroclor-1232	ND	ND	ND
Aroclor-1242	ND	ND	ND
Aroclor-1248	ND	ND	ND
Aroclor-1254	ND	ND	ND
Aroclor-1260	ND	ND	ND

PCB's were not detected in any of the samples taken.

• Polynuclear Aromatic Hydrocarbons (PAHs/PNAs) Sample Results

Polynuclear Aromatic Hydrocarbons samples were taken from the wood on the bridge. This was done to confirm the presence of PAHs/PNAs which would require abatement and is part of the standard series of tests required for hazardous material sampling.

Lab Sample Number:	1702904-001A	1702904-002A	1702904-003A
Client Sample Number:	PCB-01	PCB-02	PCB-03
Mg/kg	Wood #1 South End of Bridge	Wood #2 Midway	Wood #3 North End of Bridge
Units:	µg/kg	µg/kg	µg/kg
Acenaphthene	ND	ND	ND
Acenaphthylene	ND	ND	ND
Anthracene	ND	0.058	ND
Benzo (a) anhracene	ND	0.064	ND
Benzo (a) prene	ND	ND	ND
Benzo (b) fluoranthene	ND	0.12	ND
Benzo (g,h,i) perylene	ND	ND	ND
Benzo (k) Fluoranthene	ND	0.054	ND
Chrysene	ND	0.21	ND
Dibenzo (a,h) anthracene	ND	ND	ND
Fluoranthene	ND	0.55	0.019
Fluorene	ND	ND	ND
Indeno (1,2,3-cd) Pyrene	ND	ND	ND
1-Methylnaphthalene	ND	ND	ND
2-Methylnaphthalene	ND	ND	ND
Naphthalene	ND	ND	ND
Phenanthrene	ND	0.27	0.018
Pyrene	ND	0.26	ND

In reviewing the test data of the wood samples for polycyclic aromatic hydrocarbons (PAHs) were detected, but this is consistent with what would be expected for pressure-treated lumber. We would not

expect any special measures would be needed if wooden members from the bridge were to be removed and disposed of at a landfill facility.

• Creosote Sampling Results

LAB #	FIELD #	FIELD DESCRIPTOIN	RESULT IN mg/kg
1702904-001A	Wood #1 South	Wood taken from South End of Bridge	ND
	End of Bridge		
1702904-002A	Wood #2 Midway	Wood Taken From Middle of Bridge	ND
1702904-003A	Wood #3 North	Wood Taken From North End of	800
	End of Bridge	Bridge	

In reviewing the test data of the wood samples, creosote (PAHs) were detected, but this is consistent with what would be expected for pressure-treated lumber. We would not expect any special measures would be needed if wooden members from the bridge were to be removed and disposed of at a landfill facility.

Regulatory Requirements

The Environmental Protection Agency (EPA) defines Asbestos Containing Material as any material that contains greater than 1% asbestos.

Analytical Procedures

• POLARIZED LIGHT MICROSCOPY (PLM)

Bulk samples were analyzed in accordance with U.S. EPA "Test Method for Determination of Asbestos in Bulk Building Materials, 1993," with inclusion of area percent estimates of the sample components. The use of the McCrone Color Dispersion Staining Technique supplements the analysis when considered useful by the analyst. The samples are prepared with refractive immersion oil and are examined under Polarized Light Microscopy (PLM). The accuracy of the visual estimate method is 1%.

As per the standard "...The accuracy in the determination of the presence or absence of asbestos of greater than 1 area percent asbestos is greater than 99%." ASTM Committee D22.05, 1/18/88, Standard *Method of Testing for Asbestos Containing Materials by Polarized Light Microscopy*. If the sample matrix is reduced to minimize non-asbestos components, the detection limit can be mathematically enhanced, based on the amount of material remaining after matrix reduction. This method is called gravimetric reduction. This method involves ashing and chemical dissolution of the sample.

• ATOMIC ABSORPTION FOR LEAD

Paint samples were collected for atomic absorption (AA) analysis. The detection limit for each sample depends upon many factors including the sensitivity of the instrument and the sample size. In the laboratory utilizing flame AA, the detection limit is normally .01% or 100 parts per million (ppm).

KELLCO Qualifications

The KELLCO asbestos inspector is licensed with the State of California Department of Occupational Safety and Health (CAL-OSHA).

The KELLCO lead inspector is licensed by the California Department of Public Health (CDPH)

The following supporting documents are attached to this report:

- Laboratory analytical reports
- Photographs of sample locations
- Floor plan or sketch showing sample locations

Please call KELLCO if there are any questions and/or clarifications regarding this report. We look forward to working with you in the future.

Sincerely,

KELLCO Services, Inc.

Tim C. Cannard CAC #94-1395, CDPH Lead #764 Senior Project Manager



GEOTECHNICAL ENVIRONMENTAL WATER RESOURCES CONSTRUCTION SERVICES

Project No. **P2017.000.340**

March 3, 2017

Mr. Tim Cannard KELLCO Services, Inc. 3137 Diablo Avenue Hayward, CA 94545

Subject: South Yuba City River Bridge Rehabilitation Nevada City, California

SUMMARY OF FINDINGS

Reference: KELLCO Services, Inc., Pre-Renovation Asbestos, Lead, Polychlorinated Biphenyls (PCBs), Total Petroleum Hydrocarbons & Creosote Inspection Report, South Yuba River Bridge Rehabilitation, Nevada City, California, March 1, 2017

Dear Mr. Cannard:

As requested, this letter presents a summary of findings of the pre-renovation inspection for the South Yuba City River Bridge in Nevada City, California (Site).

Samples were collected from the wood on the bridge and from the adjacent soil. With respect to the soil, the soil samples exhibited relatively low lead concentrations between 2.3 and 28 milligrams per kilogram (mg/kg); below applicable screening levels, including the DTSC-recommended Screening Level (SL) of 80 mg/kg for residential, or unrestricted, reuse, and within expected naturally occurring background concentrations. Additionally, based on a review of the USGS 2011 Map, *Reported Historic Asbestos Mines, Historic Asbestos Prospects, and Other Natural Occurrences of Asbestos in California*, the site is not located in an area of known asbestos presence or ultramafic rock outcrops. Therefore, we do not believe testing of soil for naturally occurring asbestos (NOA) is necessary.

In reviewing the test data of the wood samples, total recoverable petroleum hydrocarbons, creosote, and polycyclic aromatic hydrocarbons (PAHs) were detected, but this is consistent with what would be expected for pressure-treated lumber. None of the samples exhibited detectable concentrations of PCBs. We would not expect any special measures would be needed if wooden members from the bridge were to be removed and disposed of at a landfill facility.

We concur with the findings of the report prepared by KELLCO March 1, 2017 (Reference).

If you have any questions, please contact us.

PROFESSION Sincerely, **ENGEO** Incorporated No. 82024 Divya Bhargava, PE Jeffréy 🖗 Adams, PhD, PE db/jaa/bvv

Analysis	Report
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2512 W. Cary Street • Richmond, Virginia • 23220-5117 804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: Address:	Kellco Services 3137 Diablo Ave	Inc. (193) enue		Ord	er #:	202053		
	Hayward, CA 9	4545-2701		Matrix		Paint		
				Receive	d	02/15/17		
Attn:				Analyze	d	02/15/17		
Project: Location: Number:	South Yuba Riv Nevada City, C/ 1702-17	er Bridge Rehab \ 95946		Reporte PO Nur	d nber:	02/15/17		
Sample ID Parameter	Cust. Sample ID	Location Method	Sample Date	Weight Total ug	% / Wt.	Conc.	RL*	
								_
202053-001	YRB-Pb-05	Support/Base Tan/Brwn Pnt	02/13/17	204 mg				
Lead		EPA 7000B / 3050B		<10.0 µg	<0.00491 %	<49.1 mg/kg	49.0 mg/kg	

Analyst: OHE 202053-02/15/17 03:59 PM

Abisola O Kasali

Reviewed By: Abisola Kasali Metals Supervisor

Minimum reporting limit: 10.0 μ g. Lead Based Paint contains 0.5% lead by weight per Federal statute. The OSHA Lead in Construction Standard, 29 CFR 1926.62, is invoked if any lead is present in the sample. Concentration and *Reporting Limit (RL) based on weights provided by client. All internal QC parameters were met. Unusual sample conditions, if any, are described. Values are reported to three significant figures. PPM = mg/kg | PPB = μ g/kg. The test results reported relate only to the samples submitted.

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Customer: Address:	Kellco 3137 [Services Inc. (19 Diablo Avenue	93)		Order #:	20	02054	
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Number:	1702-1	17	4 00 000		PO Number:			
Method:	EPA 600/R	-93/116 & 600/IM	4-82-020			alysis		
Sample ID	02/13/17	YRB-M-01	SE Of Covered	ASDE	Stos Fibers		Other Materials	
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202054-002	02/13/17	YRB-M-02	SW Of Covere	ed Bridge Grey				
Layer 1: Gray, Gr	Mortar anular			None	e Detected	100%	NON FIBROUS MATERIAL	
202054-003	02/13/17	YRB-M-03	NE Of Covered	d Bridge Grey				
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Reviewed By: Hind Eldanaf Microscopy Supervisor

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KEII CO Services JOR#1702-17 I AB I OCIN #	702-17 LAB LOGIN #	KELLCO Services JOB#1		JOBSITE		CLIENT



McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1702904

Report Created for: Kellco Services, Inc.

3137 Diablo Avenue Hayward, CA 94545

Project Contact: Project P.O.: Project Name:

Tim Cannard 48-10846P-47 1702-17; South Yuba River Bridge

Project Received: 02/16/2017

Analytical Report reviewed & approved for release on 02/24/2017 by:

Angela Rydelius, Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.



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Glossary of Terms & Qualifier Definitions

Client:Kellco Services, Inc.Project:1702-17; South Yuba River BridgeWorkOrder:1702904

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 μ m filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Glossary of Terms & Qualifier Definitions

Client:Kellco Services, Inc.Project:1702-17; South Yuba River BridgeWorkOrder:1702904

Analytical Qualifiers

S	surrogate spike recovery outside accepted recovery limits
a1	sample diluted due to matrix interference
a4	reporting limits raised due to the sample's matrix prohibiting a full volume extraction.
с7	surrogate value diluted out of range
h4	sulfuric acid permanganate (EPA 3665) cleanup



Client:Kellco Services, Inc.Date Received:2/16/17 16:15Date Prepared:2/23/17Project:1702-17; South Yuba River Bridge

WorkOrder:	1702904
Extraction Method:	E418.1
Analytical Method:	E418.1
Unit:	mg/kg

Total Recoverable Petroleum Hydrocarbons with Silica Gel Clean-Up by IR Spectrometry

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #1 S end of bridge	1702904-001A	Solid	02/13/2017 12:30	O&G	134602
Analytes	<u>Result</u>		<u>RL</u> <u>DF</u>		Date Analyzed
TRPH	840		150 1		02/23/2017 13:15
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
MAI-SS	101		70-130		02/23/2017 13:15
<u>Analyst(s):</u> HN					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #2 Midway	1702904-002A	Solid	02/13/2017 11:20	O&G	134602
Analytes	Result		<u>RL</u> <u>DF</u>		Date Analyzed
TRPH	280		150 1		02/23/2017 13:20
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
MAI-SS	102		70-130		02/23/2017 13:20
<u>Analyst(s):</u> HN					
Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Wood #3 N end of bridge	1702904-003A	Solid	02/13/2017 10:30	O&G	134602
Analytes	<u>Result</u>		<u>RL</u> <u>DF</u>		Date Analyzed
TRPH	1900		150 1		02/23/2017 13:25
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>		
MAI-SS	104		70-130		02/23/2017 13:25
Analyst(s): HN					



Client:Kellco Services, Inc.Date Received:2/16/17 16:15Date Prepared:2/16/17Project:1702-17; South Yuba River Bridge

WorkOrder:	1702904
Extraction Method:	SW3550B
Analytical Method:	SW8082
Unit:	mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
Wood #1 S end of bridge	1702904-001A	Solid	02/13/20	17 12:30 GC23	134308
Analytes	Result		<u>RL</u>	DF	Date Analyzed
Aroclor1016	ND		0.50	1	02/16/2017 22:08
Aroclor1221	ND		0.50	1	02/16/2017 22:08
Aroclor1232	ND		0.50	1	02/16/2017 22:08
Aroclor1242	ND		0.50	1	02/16/2017 22:08
Aroclor1248	ND		0.50	1	02/16/2017 22:08
Aroclor1254	ND		0.50	1	02/16/2017 22:08
Aroclor1260	ND		0.50	1	02/16/2017 22:08
PCBs, total	ND		0.50	1	02/16/2017 22:08
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	74		70-130		02/16/2017 22:08
<u>Analyst(s):</u> SS			Analytical Com	ments: a4,h4	

Client ID	Lab ID	Matrix	Date C	Collected Instrument	Batch ID
Wood #2 Midway	1702904-002A	Solid	02/13/2	017 11:20 GC23	134308
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
Aroclor1016	ND		50	100	02/17/2017 18:50
Aroclor1221	ND		50	100	02/17/2017 18:50
Aroclor1232	ND		50	100	02/17/2017 18:50
Aroclor1242	ND		50	100	02/17/2017 18:50
Aroclor1248	ND		50	100	02/17/2017 18:50
Aroclor1254	ND		50	100	02/17/2017 18:50
Aroclor1260	ND		50	100	02/17/2017 18:50
PCBs, total	ND		50	100	02/17/2017 18:50
<u>Surrogates</u>	<u>REC (%)</u>	<u>Qualifiers</u>	<u>Limits</u>		
Decachlorobiphenyl	983	S	70-130		02/17/2017 18:50
<u>Analyst(s):</u> SS			Analytical Com	nments: a1,a4,h4,c7	



Client:Kellco Services, Inc.Date Received:2/16/17 16:15Date Prepared:2/16/17Project:1702-17; South Yuba River Bridge

WorkOrder:	1702904
Extraction Method:	SW3550B
Analytical Method:	SW8082
Unit:	mg/kg

Polychlorinated Biphenyls (PCBs) Aroclors

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
Wood #3 N end of bridge	1702904-003A	Solid	02/13/20	017 10:30 GC23	134308
Analytes	Result		<u>RL</u>	DF	Date Analyzed
Aroclor1016	ND		50	100	02/17/2017 19:03
Aroclor1221	ND		50	100	02/17/2017 19:03
Aroclor1232	ND		50	100	02/17/2017 19:03
Aroclor1242	ND		50	100	02/17/2017 19:03
Aroclor1248	ND		50	100	02/17/2017 19:03
Aroclor1254	ND		50	100	02/17/2017 19:03
Aroclor1260	ND		50	100	02/17/2017 19:03
PCBs, total	ND		50	100	02/17/2017 19:03
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
Decachlorobiphenyl	106		70-130		02/17/2017 19:03
<u>Analyst(s):</u> SS			Analytical Com	ments: a1,a4,h4	



Client:Kellco Services, Inc.Date Received:2/16/17 16:15Date Prepared:2/17/17Project:1702-17; South Yuba River Bridge

WorkOrder:	1702904
Extraction Method:	SW3550B
Analytical Method:	SW8270C-SIM
Unit:	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
Wood #1 S end of bridge	1702904-001A	Solid	02/13/20	017 12:30 GC35	134390
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
Acenaphthene	ND		0.010	1	02/17/2017 17:50
Acenaphthylene	ND		0.010	1	02/17/2017 17:50
Anthracene	ND		0.010	1	02/17/2017 17:50
Benzo (a) anthracene	ND		0.010	1	02/17/2017 17:50
Benzo (a) pyrene	ND		0.010	1	02/17/2017 17:50
Benzo (b) fluoranthene	ND		0.010	1	02/17/2017 17:50
Benzo (g,h,i) perylene	ND		0.010	1	02/17/2017 17:50
Benzo (k) fluoranthene	ND		0.010	1	02/17/2017 17:50
Chrysene	ND		0.010	1	02/17/2017 17:50
Dibenzo (a,h) anthracene	ND		0.010	1	02/17/2017 17:50
Fluoranthene	ND		0.010	1	02/17/2017 17:50
Fluorene	ND		0.010	1	02/17/2017 17:50
Indeno (1,2,3-cd) pyrene	ND		0.010	1	02/17/2017 17:50
1-Methylnaphthalene	ND		0.010	1	02/17/2017 17:50
2-Methylnaphthalene	ND		0.010	1	02/17/2017 17:50
Naphthalene	ND		0.010	1	02/17/2017 17:50
Phenanthrene	ND		0.010	1	02/17/2017 17:50
Pyrene	ND		0.010	1	02/17/2017 17:50
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	77		30-130		02/17/2017 17:50
2-Fluorobiphenyl	73		30-130		02/17/2017 17:50
Analyst(s): REB					



Client:Kellco Services, Inc.Date Received:2/16/17 16:15Date Prepared:2/17/17Project:1702-17; South Yuba River Bridge

WorkOrder:	1702904
Extraction Method:	SW3550B
Analytical Method:	SW8270C-SIM
Unit:	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date Co	ollected Instrument	Batch ID
Wood #2 Midway	1702904-002A	Solid	02/13/201	17 11:20 GC35	134390
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
Acenaphthene	ND		0.020	2	02/21/2017 20:14
Acenaphthylene	ND		0.020	2	02/21/2017 20:14
Anthracene	0.058		0.020	2	02/21/2017 20:14
Benzo (a) anthracene	0.064		0.020	2	02/21/2017 20:14
Benzo (a) pyrene	ND		0.020	2	02/21/2017 20:14
Benzo (b) fluoranthene	0.12		0.020	2	02/21/2017 20:14
Benzo (g,h,i) perylene	ND		0.020	2	02/21/2017 20:14
Benzo (k) fluoranthene	0.054		0.020	2	02/21/2017 20:14
Chrysene	0.21		0.020	2	02/21/2017 20:14
Dibenzo (a,h) anthracene	ND		0.020	2	02/21/2017 20:14
Fluoranthene	0.55		0.020	2	02/21/2017 20:14
Fluorene	ND		0.020	2	02/21/2017 20:14
Indeno (1,2,3-cd) pyrene	ND		0.020	2	02/21/2017 20:14
1-Methylnaphthalene	ND		0.020	2	02/21/2017 20:14
2-Methylnaphthalene	ND		0.020	2	02/21/2017 20:14
Naphthalene	ND		0.020	2	02/21/2017 20:14
Phenanthrene	0.27		0.020	2	02/21/2017 20:14
Pyrene	0.26		0.020	2	02/21/2017 20:14
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	81		30-130		02/21/2017 20:14
2-Fluorobiphenyl	77		30-130		02/21/2017 20:14
Analyst(s): REB					



Client:Kellco Services, Inc.Date Received:2/16/17 16:15Date Prepared:2/17/17Project:1702-17; South Yuba River Bridge

WorkOrder:	1702904
Extraction Method:	SW3550B
Analytical Method:	SW8270C-SIM
Unit:	mg/kg

Polynuclear Aromatic Hydrocarbons (PAHs / PNAs) using SIM Mode

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
Wood #3 N end of bridge	1702904-003A	Solid	02/13/20	17 10:30 GC35	134390
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
Acenaphthene	ND		0.010	1	02/17/2017 18:40
Acenaphthylene	ND		0.010	1	02/17/2017 18:40
Anthracene	ND		0.010	1	02/17/2017 18:40
Benzo (a) anthracene	ND		0.010	1	02/17/2017 18:40
Benzo (a) pyrene	ND		0.010	1	02/17/2017 18:40
Benzo (b) fluoranthene	ND		0.010	1	02/17/2017 18:40
Benzo (g,h,i) perylene	ND		0.010	1	02/17/2017 18:40
Benzo (k) fluoranthene	ND		0.010	1	02/17/2017 18:40
Chrysene	ND		0.010	1	02/17/2017 18:40
Dibenzo (a,h) anthracene	ND		0.010	1	02/17/2017 18:40
Fluoranthene	0.019		0.010	1	02/17/2017 18:40
Fluorene	ND		0.010	1	02/17/2017 18:40
Indeno (1,2,3-cd) pyrene	ND		0.010	1	02/17/2017 18:40
1-Methylnaphthalene	ND		0.010	1	02/17/2017 18:40
2-Methylnaphthalene	ND		0.010	1	02/17/2017 18:40
Naphthalene	ND		0.010	1	02/17/2017 18:40
Phenanthrene	0.018		0.010	1	02/17/2017 18:40
Pyrene	ND		0.010	1	02/17/2017 18:40
Surrogates	<u>REC (%)</u>		<u>Limits</u>		
1-Fluoronaphthalene	81		30-130		02/17/2017 18:40
2-Fluorobiphenyl	80		30-130		02/17/2017 18:40
Analyst(s): REB					



Kellco Services, Inc.
2/16/17 16:15
2/23/17
1702-17; South Yuba River Bridge

WorkOrder:	1702904
Extraction Method:	E9071B
Analytical Method:	E9071B
Unit:	mg/Kg

Hexane Extractable Material with Silica Gel Treatment

Client ID	Lab ID	Matrix	Date C	ollected Instrument	Batch ID
Wood #1 S end of bridge	1702904-001A	Solid	02/13/20	17 12:30 O&G	134619
Analytes	<u>Result</u>		<u>RL</u>	DF	Date Analyzed
SGT-HEM	ND		750	1	02/24/2017 10:15

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Collected Ir	strument Batch ID
Wood #2 Midway	1702904-002A	Solid	02/13/2017 11:20 O	&G 134619
Analytes	Result		<u>RL</u> <u>DF</u>	Date Analyzed
SGT-HEM	ND		750 1	02/24/2017 10:20

Analyst(s): HN

Client ID	Lab ID	Matrix	Date Col	lected Instrument	Batch ID
Wood #3 N end of bridge	1702904-003A	Solid	02/13/2017	710:30 O&G	134619
Analytes	<u>Result</u>		RL	DF	Date Analyzed
SGT-HEM	800		750	1	02/24/2017 10:25

Analyst(s): HN



Client:	Kellco Services, Inc.
Date Received:	2/16/17 16:15
Date Prepared:	2/16/17
Project:	1702-17; South Yuba River Bridge

WorkOrder:	1702904
Extraction Method:	SW3050B
Analytical Method:	SW6020
Unit:	mg/Kg

		Lead				
Client ID	Lab ID	Matrix	Date Col	lected	Instrument	Batch ID
YRB-Pb-01 (SE)	1702904-004A	Soil	02/13/2017	7 13:10	ICP-MS3	134323
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
Lead	2.3		0.50	1		02/18/2017 16:51
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Terbium	107		70-130			02/18/2017 16:51
<u>Analyst(s):</u> DVH						
Client ID	Lab ID	Matrix	Date Col	lected	Instrument	Batch ID
YRB-Pb-02 (SW)	1702904-005A	Soil	02/13/2017	7 13:10	ICP-MS3	134323
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
Lead	3.3		0.50	1		02/18/2017 16:57
<u>Surrogates</u>	<u>REC (%)</u>		<u>Limits</u>			
Terbium	111		70-130			02/18/2017 16:57
<u>Analyst(s):</u> DVH						
Client ID	Lab ID	Matrix	Date Col	lected	Instrument	Batch ID
YRB-Pb-03 (NE)	1702904-006A	Soil	02/13/2017	7 13:10	ICP-MS3	134323
Analytes	<u>Result</u>		<u>RL</u>	<u>DF</u>		Date Analyzed
Lead	28		0.50	1		02/18/2017 17:03
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Terbium	108		70-130			02/18/2017 17:03
Analyst(s): DVH						
Client ID	Lab ID	Matrix	Date Col	lected	Instrument	Batch ID
YRB-Pb-04 (NW)	1702904-007A	Soil	02/13/2017	7 13:10	ICP-MS3	134323
Analytes	<u>Result</u>		<u>RL</u>	DF		Date Analyzed
Lead	7.3		0.50	1		02/18/2017 17:09
Surrogates	<u>REC (%)</u>		<u>Limits</u>			
Terbium	110		70-130			02/18/2017 17:09
Analyst(s): DVH						

Client:	Kellco Services, Inc.	WorkOrder:	1702904
Date Prepared:	2/23/17	BatchID:	134602
Date Analyzed:	2/23/17	Extraction Method:	E418.1
Instrument:	O&G	Analytical Method:	E418.1
Matrix:	Soil	Unit:	mg/kg
Project:	1702-17; South Yuba River Bridge	Sample ID:	MB/LCS-134602
			1702A72-001AMS/MSD

QC Summary Report for E418.1									
Analyte	MB Result	LCS Result		RL	SPK Val	M %	B SS REC	LCS %REC	LCS Limits
TRPH	ND	145		15	156	-		93	70-130
Surrogate Recovery									
MAI-SS	152.7	134			150	10)2	90	70-130
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/M Limits	ISD RPD s	RPD Limit
TRPH	146	148	156	ND	93	95	70-13	0 1.72	20
Surrogate Recovery									
MAI-SS	136	137	150		91	91	70-13	0 0	20

QA/QC Officer Page 12 of 20

Client:	Kellco Services, Inc.	WorkOrder:	1702904
Date Prepared:	2/16/17	BatchID:	134308
Date Analyzed:	2/17/17	Extraction Method:	SW3550B
Instrument:	GC23	Analytical Method:	SW8082
Matrix:	Soil	Unit:	mg/kg
Project:	1702-17; South Yuba River Bridge	Sample ID:	MB/LCS/LCSD-134308

QC Summary Report for SW8082

Analyte	MB Result			RL	SPK Val	M %	B SS REC	N	MB SS _imits
Aroclor1016	ND			0.050	-	-		-	
Aroclor1221	ND			0.050	-	-		-	
Aroclor1232	ND			0.050	-	-		-	
Aroclor1242	ND			0.050	-	-		-	
Aroclor1248	ND			0.050	-	-		-	
Aroclor1254	ND			0.050	-	-		-	
Aroclor1260	ND			0.050	-	-		-	
PCBs, total	ND			0.050	-	-		-	
Surrogate Recovery									
Decachlorobiphenyl	0.04588				0.05	92	2	7	70-130
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aroclor1016	0.140	0.146	0.15		94	97	70-130	3.52	20
Aroclor1260	0.146	0.145	0.15		98	96	70-130	1.14	20
Surrogate Recovery									
Decachlorobiphenyl	0.0455	0.0454	0.050		91	91	70-130	0	20

QA/QC Officer

Client:	Kellco Services, Inc.
Date Prepared:	2/17/17
Date Analyzed:	2/17/17
Instrument:	GC35
Matrix:	Soil
Project:	1702-17; South Yuba River Bridge

WorkOrder:	1702904
BatchID:	134390
Extraction Method:	SW3550B
Analytical Method:	SW8270C-SIM
Unit:	mg/kg
Sample ID:	MB/LCS-134390
	1702887-100AMS/MSD

QC Summary Report for SW8270C

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acenaphthene	ND	-	0.010	-	-	-	-
Acenaphthylene	ND	-	0.010	-	-	-	-
Anthracene	ND	-	0.010	-	-	-	-
Benzo (a) anthracene	ND	-	0.010	-	-	-	-
Benzo (a) pyrene	ND	0.125	0.010	0.20	-	62	23-129
Benzo (b) fluoranthene	ND	-	0.010	-	-	-	-
Benzo (g,h,i) perylene	ND	-	0.010	-	-	-	-
Benzo (k) fluoranthene	ND	-	0.010	-	-	-	-
Chrysene	ND	0.110	0.010	0.20	-	55	38-104
Dibenzo (a,h) anthracene	ND	-	0.010	-	-	-	-
Fluoranthene	ND	-	0.010	-	-	-	-
Fluorene	ND	-	0.010	-	-	-	-
Indeno (1,2,3-cd) pyrene	ND	-	0.010	-	-	-	-
1-Methylnaphthalene	ND	0.165	0.010	0.20	-	82	59-106
2-Methylnaphthalene	ND	0.156	0.010	0.20	-	78	54-108
Naphthalene	ND	-	0.010	-	-	-	-
Phenanthrene	ND	0.129	0.010	0.20	-	65	48-107
Pyrene	ND	0.113	0.010	0.20	-	57	40-104
Surrogate Recovery							
1-Fluoronaphthalene	0.3363	0.355		0.50	67	71	63-123
2-Fluorobiphenyl	0.3037	0.327		0.50	61	65	55-127

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Benzo (a) pyrene	NR	NR		23	NR	NR	-	NR	
Chrysene	NR	NR		27	NR	NR	-	NR	
1-Methylnaphthalene	NR	NR		37	NR	NR	-	NR	
2-Methylnaphthalene	NR	NR		41	NR	NR	-	NR	
Phenanthrene	NR	NR		130	NR	NR	-	NR	
Pyrene	NR	NR		61	NR	NR	-	NR	
Surrogate Recovery									
1-Fluoronaphthalene	NR	NR			NR	NR	-	NR	
2-Fluorobiphenyl	NR	NR			NR	NR	-	NR	

QA/QC Officer

Client:	Kellco Services, Inc.	WorkOrder:	1702904
Date Prepared:	2/23/17	BatchID:	134619
Date Analyzed:	2/24/17	Extraction Method:	E9071B
Instrument:	O&G	Analytical Method:	E9071B
Matrix:	Soil	Unit:	mg/Kg
Project:	1702-17; South Yuba River Bridge	Sample ID:	MB/LCS/LCSD-134619

QC Summary Report for E9071B

Analyte	MB Result			RL					
SGT-HEM	ND			50	-	-		-	
Analyte	LCS Result	LCSD Result	SPK Val		LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
SGT-HEM	1690	1630	2000		85	82	70-130	3.61	30

QA/QC Officer Page 15 of 20

Client:	Kellco Services, Inc.	WorkOrder:	1702904
Date Prepared:	2/16/17	BatchID:	134323
Date Analyzed:	2/17/17	Extraction Method:	SW3050B
Instrument:	ICP-MS3	Analytical Method:	SW6020
Matrix:	Soil	Unit:	mg/Kg
Project:	1702-17; South Yuba River Bridge	Sample ID:	MB/LCS-134323 1702893-001AMS/MSD

	QC Sur	nmary R	eport f	or Metals					
Analyte	MB Result	LCS Result		RL	SPK Val	M %	B SS REC	LCS %REC	LCS Limits
Lead	ND	50.1		0.50	50	-		100	75-125
Surrogate Recovery									
Terbium	516.4	536			500	10)3	107	70-130
Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/M Limit	ISD RI s	PD RPD Limit
Lead	52.7	54.3	50	3.639	98	101	75-12	25 2.	88 20
Surrogate Recovery									
Terbium	522	544	500		104	109	70-13	0 3	.98 20
Analyte	DLT Result			DLTRef Val				%	D %D Limit
Lead	4.60			3.639				26	õ.4 -

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

_QA/QC Officer

McCampbell Analytical, Inc.

1534 Willow Pass Rd

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Pittsburg, CA 94565-1701 (925) 252-9262				WorkOrder	r: 1702904	ClientC	ode: KSH		
	WaterTrax	writeOn	EDF	Excel	EQuIS	🖌 Email	HardCopy	ThirdParty	☐ J-flag
Report to:				Bil	ll to:		Req	uested TAT:	5 days;
Tim Cannard	Email:	mailbox3137@k	ellco.com		Accounts Paya	ble			
Kellco Services, Inc.	cc/3rd Party:				Kellco Services	s, Inc.			
3137 Diablo Avenue	PO:	48-10846P-47			3137 Diablo Av	/enue	Dat	te Received:	02/16/2017
Hayward, CA 94545	ProjectNo:	1702-17; South '	Yuba River Bridge	9	Hayward, CA 9	4545	Dat	te Logged:	02/16/2017
(510) 786-9751 FAX: (510) 786-9625			-		-			00	

					Requested Tests (See legend below)											
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1702904-001	Wood #1 S end of bridge	Solid	2/13/2017 12:30		Α	Α	Α	Α								
1702904-002	Wood #2 Midway	Solid	2/13/2017 11:20		А	Α	Α	Α								
1702904-003	Wood #3 N end of bridge	Solid	2/13/2017 10:30		А	Α	Α	Α								
1702904-004	YRB-Pb-01 (SE)	Soil	2/13/2017 13:10						Α							
1702904-005	YRB-Pb-02 (SW)	Soil	2/13/2017 13:10						А							
1702904-006	YRB-Pb-03 (NE)	Soil	2/13/2017 13:10						А							
1702904-007	YRB-Pb-04 (NW)	Soil	2/13/2017 13:10						A							

Test Legend:

1	418_SG_S
5	PBMS_TTLC_S
9	

2	8082_PCB_S	3
6		7
10		1

3	8270_PNA_S
7	
11	

4	9071B_SG_S
8	
12	

Prepared by: Briana Cutino

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name	e: KELLCO SER	VICES, INC.	Pro	ject: 1702-17;	South Yuba River Brid	lge	Wor	k Order: 1702904
Contact's E	mail: mailbox3137@	kellco.com	Cor	mments:			Date	Logged: 2/16/2017
		WaterTrax	WriteOn EDF	Excel]Fax 🖌 Email	HardCopy ThirdPart	у 🗋,	J-flag
Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- Collection Date chlorinated & Time	TAT	Sediment Hold SubOut Content
1702904-001A	Wood #1 S end of bridg	e Solid	E9071B (O&G w/ S.G. Clean-up)	1	16OZ GJ	2/13/2017 12:30	5 days	
			SW8270C (PAHs/PNAs)				5 days	
			SW8082 (PCBs Only)				5 days	
			E418.1 (TRPH w/ S.G. Clean-Up)				5 days	
1702904-002A	Wood #2 Midway	Solid	E9071B (O&G w/ S.G. Clean-up)	1	16OZ GJ	2/13/2017 11:20	5 days	
			SW8270C (PAHs/PNAs)				5 days	
			SW8082 (PCBs Only)				5 days	
			E418.1 (TRPH w/ S.G. Clean-Up)				5 days	
1702904-003A	Wood #3 N end of bridg	ge Solid	E9071B (O&G w/ S.G. Clean-up)	1	16OZ GJ	2/13/2017 10:30	5 days	
			SW8270C (PAHs/PNAs)				5 days	
			SW8082 (PCBs Only)				5 days	
			E418.1 (TRPH w/ S.G. Clean-Up)				5 days	
1702904-004A	YRB-Pb-01 (SE)	Soil	SW6020 (Lead)	1	16OZ GJ	2/13/2017 13:10	5 days	
1702904-005A	YRB-Pb-02 (SW)	Soil	SW6020 (Lead)	1	16OZ GJ	2/13/2017 13:10	5 days	
1702904-006A	YRB-Pb-03 (NE)	Soil	SW6020 (Lead)	1	16OZ GJ	2/13/2017 13:10	5 days	
1702904-007A	YRB-Pb-04 (NW)	Soil	SW6020 (Lead)	1	16OZ GJ	2/13/2017 13:10	5 days	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

General C	COC
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MAI Work Order # _____

McCAMI	PBELL	ANAI	LY]	FICAL	, INC.	CHAIN OF CUSTODY RECORD																		
1534 Willow Pass Rd. Pittsburg, Ca. 94565-1701								Turn Around Time: I Day Rush2 Day Rush3 Day RushSTDQuot											ote #					
Telephone: (877) 252-9262 / Fax: (925) 252-9269							J-Flag / MDL ESL C					Clean	up App	proved		Bottle Ord			der #	ier #				
www.mccamp	bell.com	ma	in@m	nccampbell.	<u>com</u>	Deliv	ery Fo	rmat:	GeoTi	acker l	EDF	٠	PDF		EDD		Wr	ite On	(DW)	,		QuIS		
Report To: Tim Cannard		Bill To:	KELLO	CO Services,	Inc.								A	nalys	is Re	quest	ed							_
Company: KELLCO Services, Inc., 313	7 Diablo Ave	nue, Haywa	ard, CA	A 94545		BE			out					_						-2				
Email: mailbox3137@kellco.co						IN (Wit	N III	Gel &	118.1	\$	only			VAs)				meta				
Alt Email:		Tele:	510-78	6-9751		8015	ö	ö	(110	ons - ilica) suo	ticide	clors	<u></u>	ວິ	s/P	•(0			olved				
Project Name/#: 1702-17						8021/	Motc	Moto	6419	ith S	carb	l Pest	: Aro	Š	OV2)	PAH	/ 602		~	disse				
Project Location: South Yuba River Bridg	8	PO #	48-108	46P-47		Gas (2) +	15) +	e (16	ydro V	lydro	91 (C	B's	3260	3270	310 (00.8	ŝ	ment	le for	ľ		1	
Sampler Signature: Denf (dut					I as	1 (80) a Gel	1 (80)	ireas	H mn / 907	E -	/ 808	82 PC	5478	25/8	M / 8	als (2	/ 602	uire	amp	e	لا ا		
SAMPLE ID	Sam	pling	ners		1	t TPI	Diese	Diese	1 & C	trole 1664	itrole ica G	5/ 608	3 / 80	12/6	5.2 /6	70 SI	Met	200.8	s Req	liter s	<u>X</u>	X		
Location / Field Point			ontai	Matrix	Preservative	EX 8	H as thout	E E	10 U 17 U	al Pe case (h Sil	A 505	A 608	A 524	A 52	A 82	11 M	tals (/land	o to fi Iysis	l e	9		
	Date	lime	#C			BT	ĒŠ	Sile T	Tol	ê ŝ	۱ <u>۵</u>	EP.	EP	EP	EP	EP	<u>с</u>	ž	Bay	ana ana				
Wood #1 5 end of bid	Feb13.1	1230		Wood	nore																			
Wood # 2 Midway	· <u> </u>	1120		Wood									lacksquare											
Wood # 3 N end this	J T	1030		Wood	/						•		۲											
4RB-Pb-01(SE)	Feb 15, 17	1310		5011	4																	X		
YRB-Ph-02/SW		,		Soul																		V		_
YEB-Ph-DRINE	44	4		Soil																		Ŷ		
VPB-Ph-DHAIN				5011																\square		v	\neg	
7.8 10 0 1 (NII	/ /			2011				+													<u> </u>	\frown		
							-	+												┼──	<u> </u>			
							<u> </u>													–	 '			
MAI clients MUST disclose any dangerous chemic	als known to be j	present in their	submitte	ed samples in co	oncentrations the	at may	cause in	nmedia	te harm	or seri	ous futu	re heal	th enda	ngerme	ent as a	result o	f brief,	gloved	, open	air, sam	iple han	dling by	⁷ MAI st	aff.
* 16 manufactors an immediate \$250 surcharg	d the uptor trm	(Matrix) is a	icgai na	wified on the el	surrered. Thank	. you to	i youru	afoult (nung a		2200 9	gusto		nery.				r –		ommei	nts / In	structio	ne	
Please provide an adequate volume of sample	If the volume	is not sufficie	nt for a	MS/MSD a L	CS/LCSD wil	be pr	enared	in its r	lo meta	nd not	ed in th	e repo	rt					ho	I L	vo 1	M (1) A	• 9	~ I	
Relinguished By / Compa	ny Name		D	ate Ti	ime	p.	Rece	ived By	y / Con	npany	Name		<u> </u>	D	ate	Ti	me	•						.
Durack Quan ha	-		Feb	13.11 15	00 /	On/	\triangleright	<		/	5	_		2/1	plit	110	<u>r</u>	14	× 4	fut	Ĩ	- 0	ma	4
	<i>\</i>		214	17 16	15	F			7	/	K		/	2	ن گ'	ΠØ	IS	ન	Δŧ	28	1-81	5		
								7		ブ	2	\checkmark		11				1 T	т					
Matrix Code: DW=Drinking Water,	GW=Groun	d Water, W	W=₩	aste Water	, SW=Seaw	ater,	S=So	oil, SL	,=Slu	dge, A	A=Ai	r, WF	=Wi	pe, O	=Oth	er								
Preservative Code: 1=4°C 2=HCl	$3=H_2SO_4$	4=HNO ₃	5=Na	aOH 6=Zr	nOAc/NaOl	H 7	=Non	e					-			1	emp			°C	Init	ials		



Sample Receipt Checklist

Client Name:	Kellco Services, Inc.			Date and Time Received	2/16/2017 16:15
Project Name:	1702-17; South Yuba River Bridge			Date Logged:	2/16/2017
Marila Oralia a Mar				Received by:	Briana Cutino
workOrder №:	1/02904 Matrix: <u>Soli/Solid</u> Benjamin Yslas (MAL Courier)			Logged by:	Briana Cutino
oumon					
	Chain of C	ustody	/ (COC) Infor	mation	
Chain of custody	present?	Yes	✓	No 🗌	
Chain of custody	signed when relinquished and received?	Yes	✓	No 🗌	
Chain of custody	agrees with sample labels?	Yes	✓	No 🗌	
Sample IDs note	d by Client on COC?	Yes	✓	No 🗌	
Date and Time of	collection noted by Client on COC?	Yes	✓	No 🗌	
Sampler's name	noted on COC?	Yes		No 🗌	
	Sampl	e Rece	eipt Informati	ion	
Custody seals int	act on shipping container/cooler?	Yes		No 🗌	NA 🔽
Shipping containe	er/cooler in good condition?	Yes		No 🗌	
Samples in prope	er containers/bottles?	Yes		No 🗌	
Sample containe	rs intact?	Yes	✓	No 🗌	
Sufficient sample	volume for indicated test?	Yes	✓	No 🗌	
	Sample Preservation	on and	<u>Hold Time (</u>	HT) Information	
All samples recei	ved within holding time?	Yes	✓	No 🗌	
Sample/Temp Bla	ank temperature		Temp: 6.9	9°C	
Water - VOA vial	s have zero headspace / no bubbles?	Yes		No 🗌	NA 🗹
Sample labels ch	ecked for correct preservation?	Yes	\checkmark	No 🗌	
pH acceptable up	oon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes		No 🗌	NA 🖌
Samples Receive	ed on Ice?	Yes	✓	No 🗌	
	(Ісе Туре	: WE	TICE)		
UCMR3 Samples	<u>.</u>				
Total Chlorine t	ested and acceptable upon receipt for EPA 522?	Yes		No 📖	NA 🗹
Free Chlorine t 300.1, 537, 539	ested and acceptable upon receipt for EPA 218.7, 0?	Yes		No 🗌	NA 🗹

Comments:























BRIDGEPORT HISTORIC DISTRICT

BUILT IN 1862 BY DAVID J. WOOD WITH LUMBER FROM HIS MILL IN SIERRA COUNTY, THE COVERED BRIDGE WAS PART OF THE VIRGINIA TURNPIKE COMPANY TOLL ROAD THAT SERVED THE NORTHERN MINES AND THE NEVADA COMSTOCK LODE THE ASSOCIATED RANCH AND RESOURCES FOR REST AND REPAIR PROVIDED A NECESSARY LIFELINE ACROSS THE SIERRA NEVADA. UTILIZING A UNIQUE COMBINATION TRUSS AND ARCH CONSTRUCTION, BRIDGEPORT COVERED BRIDGE IS ONE OF THE OLDEST HOUSED SPANS IN THE WESTERN UNITED STATES AND THE LONGEST SINGLE SPAN, WOODEN COVERED BRIDGE IN THE WORLD.

STATE REGISTERED HISTORICAL LANDMARK NO. 390

REGISTERED AUGUST 26, 1947

PLAQUE PLACED BY THE NATIVE SONS OF THE GOLDEN WEST, THE CALIFORNIA STATE PARKS FOUNDATION, AND CALIFORNIA STATE PARKS REDEDICATED 2014, THE 150TH ANNIVERSARY OF CALIFORNIA STATE PARKS





























