



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2678

3/09/2018

Invoice: A806594

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2678 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,



Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
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Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Alamo Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
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Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2678

General EDT

Lead in Schools - Alamo

Certificate of Analysis

Sample ID: A8B2678-01
Sampled By: Kurtis Westbrook
Sample Description: Alamo- Cafeteria Kitchen Sink

Sample Date - Time: 02/20/18 - 08:48
Matrix: Drinking Water
Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802670	02/27/18	03/06/18	



A8B2678

General EDT

Lead in Schools - Alamo

Certificate of Analysis

Sample ID: A8B2678-02

Sampled By: Kurtis Westbrook

Sample Description: Alamo- Nurses Office Sink

Sample Date - Time: 02/20/18 - 08:46

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802670	02/27/18	03/06/18	



A8B2678

General EDT

Lead in Schools - Alamo

Certificate of Analysis

Sample ID: A8B2678-03

Sampled By: Kurtis Westbrook

Sample Description: Alamo- Room 1 Sink/Fountain

Sample Date - Time: 02/20/18 - 08:49

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	3.3	1.0	ug/L	1	A802670	02/27/18	03/06/18	



A8B2678

General EDT

Lead in Schools - Alamo

Certificate of Analysis

Sample ID: A8B2678-04

Sampled By: Kurtis Westbrook

Sample Description: Alamo- Room 25 Sink/Fountain

Sample Date - Time: 02/20/18 - 08:52

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802670	02/27/18	03/06/18	



A8B2678

General EDT

Lead in Schools - Alamo

Certificate of Analysis

Sample ID: A8B2678-05

Sampled By: Kurtis Westbrook

Sample Description: Alamo- Room 28 Sink/Fountain

Sample Date - Time: 02/20/18 - 08:54

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802682	02/27/18	03/07/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802670

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802670-BLK1)

Lead	ND	1.0	ug/L							03/06/18	
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Blank Spike (A802670-BS1)

Lead	200	1.0	ug/L	200		100	85-115			03/06/18	
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Blank Spike Dup (A802670-BSD1)

Lead	200	1.0	ug/L	200		99	85-115	2	20	03/06/18	
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Matrix Spike (A802670-MS1), Source: A8B2630-03

Lead	190	1.0	ug/L	200	ND	95	70-130			03/06/18	
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Matrix Spike (A802670-MS2), Source: A8B2676-05

Lead	190	1.0	ug/L	200	ND	96	70-130			03/06/18	
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Matrix Spike Dup (A802670-MSD1), Source: A8B2630-03

Lead	190	1.0	ug/L	200	ND	93	70-130	2	20	03/06/18	
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Matrix Spike Dup (A802670-MSD2), Source: A8B2676-05

Lead	190	1.0	ug/L	200	ND	97	70-130	2	20	03/06/18	
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EPA 200.8 - Quality Control

Batch: A802682

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802682-BLK1)

Lead	ND	1.0	ug/L							03/07/18	
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Blank Spike (A802682-BS1)

Lead	200	1.0	ug/L	200		102	85-115			03/07/18	
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Blank Spike Dup (A802682-BSD1)

Lead	200	1.0	ug/L	200		101	85-115	1	20	03/07/18	
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Matrix Spike (A802682-MS1), Source: A8B2678-05

Lead	200	1.0	ug/L	200	ND	100	70-130			03/07/18	
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Matrix Spike (A802682-MS2), Source: A8B2683-02

Lead	200	1.0	ug/L	200	ND	98	70-130			03/07/18	
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Matrix Spike Dup (A802682-MSD1), Source: A8B2678-05

Lead	200	1.0	ug/L	200	ND	100	70-130	0	20	03/07/18	
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Matrix Spike Dup (A802682-MSD2), Source: A8B2683-02

Lead	200	1.0	ug/L	200	ND	100	70-130	2	20	03/07/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK’s sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method , all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2678



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 - Fax (559) 497-2893
 www.bskassociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

A8B2678
 Vacav 6430
 02/23/2018
 10

*Required Fields

Temp: File 10.0

Company/Client Name: **Mindy Boele** Report Attention: **Mindy Boele** Invoice To: **Mindy Boele** Phone: **707-469-6430** Fax: **707-469-6493**
 City of Vacaville Additional cc's: **36159** PO#: **36159** Email: **Mindy.boele@cityofvacaville.com**
 Address: **6040 Vacca Station Road** City: **Elmira** State: **CA** Zip: **95625**

Project: **Lead in Schools - Alamo** Project #: _____
 Reporting Options: Trace (J-Flag) Swamp EDD Type: _____
 Regulatory Carbon Copies: SWRCB (Drinking Water) EDT to California SWRCB (Drinking Water) System Number: **4810008**
 Merced Co Fresno Co Madera Co Tulare Co Other: _____
 Geotracker #: _____
 How would you like to receive your completed results? E-Mail Fax Mail

Sampler Name (Printed/Signature): **Kurtis Westbrock**
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid
 Matrix: **DW** Comments / Station Code / WTRAX: **4810008-AAC-A**

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX	Received by (Signature and Printed Name)	Date	Time	Company
		Date	Time						
1	Cafeteria Kitchen Sink	2/20/18	8:48	DW	4810008-AAC-A	<i>[Signature]</i>	2/20/18	10:24	COVVAL
2	Nurses Office Sink	2/20/18	8:46	DW	4810008-AAC-B	<i>[Signature]</i>	2/20/18	1:35	COVVAL
3	Room 1 Sink/Fountain	2/20/18	8:49	DW	4810008-AAC-C	<i>[Signature]</i>	2/20/18	1:35	COVVAL
4	Room 25 Sink/Fountain	2/20/18	8:52	DW	4810008-AAC-D	<i>[Signature]</i>	2/20/18	1:35	COVVAL
5	Room 28 Sink/Fountain	2/20/18	8:54	DW	4810008-AAC-E	<i>[Signature]</i>	2/20/18	1:35	COVVAL

Requisitioned by (Signature and Printed Name): **Kurtis Westbrock** Company: **COVVAL** Date: **2/20/18** Time: **10:24**
 Requisitioned by (Signature and Printed Name): **Brian Steffe** Company: **COVVAL** Date: **2/20/18** Time: **1:35**
 Received for Lab by (Signature and Printed Name): *[Signature]* Date: **2/20/18** Time: **1:35**
 Received by (Signature and Printed Name): *[Signature]* Date: **2/20/18** Time: **1:35**
 Payment Received at Delivery: *[Signature]* Date: **2/20/18** Time: **1:35**
 Shipping Method: **ONTBAC** UPS **GSO** WALK-IN **HED EX** Courier: **1100**
 Cooling Method: **Wet** Blue **None**
 Custody Seal: **YN** Chilling Process Begun: **YN** PIA#: **1100**

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for Laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSK/Lab/ChainOfCustody.pdf



Sample Integrity

BSK Bottles: Yes No Page () of ()

COC Info		Yes	No	NA	Were correct containers and preservatives received for the tests requested?	Yes	No	NA
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
If samples were taken today, is there evidence that chilling has begun?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Were there bubbles in the VOA vials? (Volatiles Only)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Did all bottles arrive unbroken and intact?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Was a sufficient amount of sample received?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Did all bottle labels agree with COC?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do samples have a hold time <72 hours?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Was PM notified of discrepancies? PM: _____ By/Time: _____	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)		Checks	Passed?					
Bacti Na ₂ S ₂ O ₃		—	—					
None (P) White Cap		—	—					
Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW		Cl, pH > 8	Y	N				
Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW		pH 9.3-9.7	Y	N				
Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5	Y	N				
HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label		—	—					
H ₂ SO ₄ (P) or (AG) Yellow Cap/Label		pH < 2	Y	N				
NaOH (P) Green Cap		Cl, pH > 10	Y	N				
NaOH + ZnAc (P)		pH > 9	Y	N				
Dissolved Oxygen 300ml (g)		—	—					
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		—	—					
HCl (AG) Lt. Blue Label O&G, Diesel		—	—					
Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525		—	—					
Na ₂ SO ₃ 250mL (AG) Neon Green Label 515		—	—					
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		—	—					
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524		—	—					
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547		—	—					
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531		pH < 3	Y	N				
NH ₄ Cl (AG) Purple Label 552		—	—					
EDA (AG) Brown Label DBPs		—	—					
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—	—					
Buffer pH 4 (CG)		—	—					
H ₃ PO ₄ (CG) Salmon Label		—	—					
Other:								
Asbestos 1Liter Plastic w/ Foil		—	—					
Low Level Hg / Metals Double Baggie		—	—					
Bottled Water		—	—					
Clear Glass 250mL / 500mL / 1 Liter		—	—					
Soil Tube Brass / Steel / Plastic		—	—					
Tedlar Bag / Plastic Bag		—	—					
Split	Container	Preservative	Date/Time/Initials	SP	Container	Preservative	Date/Time/Initials	
	SP	LP	HNO ₃	2/23/18 1300	SP			
Comments								

Labeled by: SL @ 1730 Labels checked by: EE @ 1550 RUSH Paged by: @



BSK Associates Laboratory Fresno
1414 Stanislaus St
Fresno, CA 93706
559-497-2888 (Main)
559-485-6935 (FAX)

A8B2627

3/09/2018

Invoice: A806582

Mindy Boele
City of Vacaville - Easterly WWTP
6040 Vaca Station Road
Elmira, CA 95625

RE: Report for A8B2627 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

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If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Heather S. White, Project Manager



Accredited in Accordance with NELAP
ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
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Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Browns Valley Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
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Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2627

General EDT

Lead in Schools - Browns Valley

Certificate of Analysis

Sample ID: A8B2627-01

Sampled By: Kurtis Westbrook

Sample Description: Cafeteria Kitchen Sink

Sample Date - Time: 02/20/18 - 09:55

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	2.0	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2627

General EDT

Lead in Schools - Browns Valley

Certificate of Analysis

Sample ID: A8B2627-02
Sampled By: Kurtis Westbrook
Sample Description: Nurses Office Sink

Sample Date - Time: 02/20/18 - 10:01
Matrix: Drinking Water
Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	1.5	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2627

General EDT

Lead in Schools - Browns Valley

Certificate of Analysis

Sample ID: A8B2627-03

Sampled By: Kurtis Westbrook

Sample Description: MP Room Breezeway Drinking Fountain

Sample Date - Time: 02/20/18 - 09:57

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2627

General EDT

Lead in Schools - Browns Valley

Certificate of Analysis

Sample ID: A8B2627-04

Sampled By: Kurtis Westbrook

Sample Description: Room 17 Sink/Fountain

Sample Date - Time: 02/20/18 - 09:58

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	4.0	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2627

General EDT

Lead in Schools - Browns Valley

Certificate of Analysis

Sample ID: A8B2627-05

Sampled By: Kurtis Westbrook

Sample Description: Room 36 Sink/Fountain

Sample Date - Time: 02/20/18 - 10:04

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	2.0	1.0	ug/L	1	A802669	02/27/18	03/06/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802669

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802669-BLK1)

Lead	ND	1.0	ug/L							03/06/18	
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Blank Spike (A802669-BS1)

Lead	190	1.0	ug/L	200		94	85-115			03/06/18	
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Blank Spike Dup (A802669-BSD1)

Lead	190	1.0	ug/L	200		94	85-115	1	20	03/06/18	
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Matrix Spike (A802669-MS1), Source: A8B2539-03

Lead	190	1.0	ug/L	200	ND	95	70-130			03/06/18	
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Matrix Spike (A802669-MS2), Source: A8B2628-03

Lead	190	1.0	ug/L	200	2.0	95	70-130			03/06/18	
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Matrix Spike Dup (A802669-MSD1), Source: A8B2539-03

Lead	180	1.0	ug/L	200	ND	92	70-130	4	20	03/06/18	
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Matrix Spike Dup (A802669-MSD2), Source: A8B2628-03

Lead	190	1.0	ug/L	200	2.0	94	70-130	1	20	03/06/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method , all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2627



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed: 4/10/18

A8B2627
 Vacav6430
 02/23/2018
 10

Required Fields

Company/Client Name: **Mindy Boele** Report Attention: **Mindy Boele** Invoice To: **Mindy Boele** Phone: **707-469-6430** Fax: **707-469-6493**
 City of Vacaville Additional ccs: **36159** City: **Elmira** State: **CA** Zip: **95625** Email: **Mindy.boele@cityofvacaville.com**

Address: **6040 Vaca Station Road** Project #: **Elmira** State: **CA** Zip: **95625**
 Project: **Lead in Schools - Browns Valley**

Reporting Options: Trace (J-Flag) Swamp EDD Type: _____
 SWRCB (Drinking Water) Merced Co Fresno Co Madera Co Tulare Co
 EDT to California SWRCB (Drinking Water) System Number: **4810008**
 Geotracker #: _____

Sampler Name (Printed/Signature)*: **Kurtis Westbrook / Kurtis Westbrook**
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX
		Date	Time		
1	Cafeteria Kitchen Sink	4/20/18	9:55	DW	4810008-AAD-A
2	Nurses Office Sink	4/20/18	10:01	DW	4810008-AAD-B
3	MP Room Breezeway Drinking Fountain	4/20/18	9:51	DW	4810008-AAD-C
4	Room 17 Sink/Fountain	4/20/18	9:58	DW	4810008-AAD-D
5	Room 36 Sink/Fountain	4/20/18	10:04	DW	4810008-AAD-E

Requisitioned by: (Signature and Printed Name)	Company	Date	Time	Received by: (Signature and Printed Name)	Company
<i>Kurtis Westbrook</i> Kurtis Westbrook	COVQAL	4/20/18	10:24	<i>Lab Friddle #2</i> Lab Friddle #2	COVQAL
<i>Lab Friddle #2</i> Lab Friddle #2	COVQAL	4/20/18	1:58	<i>M. Schmitt</i> M. Schmitt	COVQAL

Shipping Method: **ONTRAC** **UPS** **GSO** **WALK-IN** **FED EX** Courier: _____
 Cooling Method: **Wet** **Blue** **None**
 Chilling Process Begun: **Y** **N**

Payment for services rendered as noted herein is due in full within 30 days from the date involved. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf



Sample Integrity

BSK Bottles: Yes No Page (of)

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$			Were correct containers and preservatives received for the tests requested?			
		Yes	No	NA	Yes	No	NA
	If samples were taken today, is there evidence that chilling has begun?			Were there bubbles in the VOA vials? (Volatiles Only)			
	Yes	No	NA	Yes	No	NA	
	Did all bottles arrive unbroken and intact?			Was a sufficient amount of sample received?			
	Yes	No		Yes	No		
	Did all bottle labels agree with COC?			Do samples have a hold time <72 hours?			
	Yes	No		Yes	No		
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?			Was PM notified of discrepancies? PM: _____ By/Time: _____			
	Yes	No	NA	Yes	No	NA	
Bottles Received <small>"-" means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?				
	Bacti Na ₂ S ₂ O ₃	-	-				
	None (P) White Cap	-	-				
	Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW	Cl, pH > 8	Y	N			
	Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW	pH 9.3-9.7	Y	N			
	Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	Y	N			
	HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	-	-				
	H ₂ SO ₄ (P) or (AG) Yellow Cap/Label	pH < 2	Y	N			
	NaOH (P) Green Cap	Cl, pH > 10	Y	N			
	NaOH + ZnAc (P)	pH > 9	Y	N			
	Dissolved Oxygen 300ml (g)	-	-				
	None (AG) 808/8081/8082, 625, 632/8321, 8151, 8270	-	-				
	HCl (AG) Lt. Blue Label O&G, Diesel	-	-				
	Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525	-	-				
	Na ₂ SO ₃ 250mL (AG) Neon Green Label 515	-	-				
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	-	-				
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	-	-				
	Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547	-	-				
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	Y	N			
	NH ₄ Cl (AG) Purple Label 552	-	-				
	EDA (AG) Brown Label DBPs	-	-				
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	-	-				
	Buffer pH 4 (CG)	-	-				
	H ₃ PO ₄ (CG) Salmon Label	-	-				
	Other:						
	Asbestos 1Liter Plastic w/ Foil	-	-				
	Low Level Hg / Metals Double Baggie	-	-				
	Bottled Water	-	-				
Clear Glass 250mL / 500mL / 1 Liter	-	-					
Soil Tube Brass / Steel / Plastic	-	-					
Tedlar Bag / Plastic Bag	-	-					
Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials	
	S P S P	HNO ₃	2/23/18 1300	S P S P			
Comments							

Labeled by: SL @ 1430 Labels checked by: EW @ 1550 RUSH Paged by: _____ @ _____



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2692

3/09/2018

Invoice: A806615

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2692 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
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Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Buckingham Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2692

General EDT

Lead in Schools - Buckingham

Certificate of Analysis

Sample ID: A8B2692-01

Sampled By: Kelly Richardson

Sample Description: Bldg. 186 Gym Drinking Fountain

Sample Date - Time: 02/22/18 - 07:26

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2692

General EDT

Lead in Schools - Buckingham

Certificate of Analysis

Sample ID: A8B2692-02

Sampled By: Kelly Richardson

Sample Description: Bldg. 188 B Drinking Fountain by Student Restrooms

Sample Date - Time: 02/22/18 - 07:21

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2692

General EDT

Lead in Schools - Buckingham

Certificate of Analysis

Sample ID: A8B2692-03

Sampled By: Kelly Richardson

Sample Description: Bldg. 188 A Drinking Fountain by Student Restrooms

Sample Date - Time: 02/22/18 - 07:22

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2692

General EDT

Lead in Schools - Buckingham

Certificate of Analysis

Sample ID: A8B2692-04

Sampled By: Kelly Richardson

Sample Description: Bldg. 194 Drinking Fountain by Room 101

Sample Date - Time: 02/22/18 - 07:31

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2692

General EDT

Lead in Schools - Buckingham

Certificate of Analysis

Sample ID: A8B2692-05

Sampled By: Kelly Richardson

Sample Description: Bldg. 194 Drinking Fountain by Room 106

Sample Date - Time: 02/22/18 - 07:33

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802683	02/27/18	03/07/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802683

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802683-BLK1)

Lead	ND	1.0	ug/L							03/07/18	
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Blank Spike (A802683-BS1)

Lead	210	1.0	ug/L	200		104	85-115			03/07/18	
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Blank Spike Dup (A802683-BSD1)

Lead	210	1.0	ug/L	200		104	85-115	0	20	03/07/18	
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Matrix Spike (A802683-MS1), Source: A8B2686-02

Lead	200	1.0	ug/L	200	4.1	100	70-130			03/07/18	
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Matrix Spike (A802683-MS2), Source: A8B2690-02

Lead	210	1.0	ug/L	200	3.2	101	70-130			03/07/18	
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Matrix Spike Dup (A802683-MSD1), Source: A8B2686-02

Lead	200	1.0	ug/L	200	4.1	100	70-130	1	20	03/07/18	
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Matrix Spike Dup (A802683-MSD2), Source: A8B2690-02

Lead	210	1.0	ug/L	200	3.2	102	70-130	1	20	03/07/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method , all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2692



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bs&kassociates.com

Turnaround Time Request

Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed: _____

A8B2692
 Yacav6430
 02/23/2018
 10

Required Fields

Company/Client Name: **Mindy Boeile** Report Attention: **Mindy Boeile** Temp: **100 #46**
 City of Vacaville Additional cc's: **Mindy Boeile** Invoice to: **Mindy Boeile**
 Address: **6040 Vaca Station Road** City: **Elmira** State: **CA** Zip: **95625** PO#: **36159**
 Project: **Lead in Schools - Buckingham** Project #: _____ How would you like to receive your completed results? E-Mail Fax Mail
 Reporting Options: Trace (U-Flag) Swamp EDD Type: _____ Regulatory Carbon Copies: SWRCB (Drinking Water) Fresno Co Tulare Co
 Sampler Name (Printed/Signature)*: **Kelly Richardson** Regulatory Compliance: EDT to California SWRCB (Drinking Water) System Number: **4810008**
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Soil Geotracker #: _____

#	Sample Description*	Date	Time	Matrix*	Comments / Station Code / WTRAX	Lead
1	Bldg. 186 Gym Drinking Fountain	2/22/18	1:26	DW	4810008-AAG-A / 399F4	X
2	Bldg. 188 B Drinking Fountain by Student Restrooms	2/22/18	1:21	DW	4810008-AAG-B / 399F5	X
3	Bldg. 188 A Drinking Fountain by Student Restrooms	2/22/18	1:22	DW	4810008-AAG-C / 399F6	X
4	Bldg. 194 Drinking Fountain by Room 101	2/22/18	1:31	DW	4810008-AAG-D / 399F7	X
5	Bldg. 194 Drinking Fountain by Room 106	2/22/18	1:33	DW	4810008-AAG-E / 399F8	X

Relinquished by (Signature and Printed Name): **Kelly Richardson** Company: **COV WA LAB** Date: **2/22/18** Time: **0840** Received by (Signature and Printed Name): **Kelly Richardson**
 Relinquished by (Signature and Printed Name): **Kelly Richardson** Company: **COV WA LAB** Date: **2/22/18** Time: **1100** Received by (Signature and Printed Name): **Kelly Richardson**
 Received for Lab by (Signature and Printed Name): **Kelly Richardson** Date: **2/23/18** Time: **1100** Payment Received at Delivery: **Yes**
 Shipping Method: **ONTRAC** Wet **Blue** UPS **WALK-IN** GSO **FED EX** Chilling Process Begun: **Y/N** Amount: **Y/N** P/A#: **Bar**
 Company: **COV WA LAB** Company: **COV WA LAB** Company: **COV WA LAB**
 Check: **BS&K** Cash: **BS&K**

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BS&K's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Client of Custody, and agrees to BS&K's terms and conditions for laboratory services unless contractually bound otherwise. BS&K's current terms and conditions can be found at www.bs&kassociates.com/BS&KLabTermsConditions.pdf



Sample Integrity

BSK Bottles: Yes No Page (of)

COC Info		Yes	No	NA	Were correct containers and preservatives received for the tests requested?		Yes	No	NA
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		<u>Yes</u>	No	NA			<u>Yes</u>	No	NA
If samples were taken today, is there evidence that chilling has begun?		Yes	No	<u>NA</u>	Were there bubbles in the VOA vials? (Volatiles Only)		Yes	No	<u>NA</u>
Did all bottles arrive unbroken and intact?		<u>Yes</u>	No		Was a sufficient amount of sample received?		<u>Yes</u>	No	
Did all bottle labels agree with COC?		<u>Yes</u>	No		Do samples have a hold time <72 hours?		Yes	<u>No</u>	
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		Yes	No	<u>NA</u>	Was PM notified of discrepancies? PM: _____ By/Time: _____		Yes	No	<u>NA</u>
250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)		Checks	Passed?		1-5				
Bacti Na ₂ S ₂ O ₃		—	—						
None (P) White Cap		—	—						
Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW		Cl, pH > 8	Y	N					
Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW		pH 9.3-9.7	Y	N					
Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5	Y	N					
HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label		—	—		10				
H ₂ SO ₄ (P) or (AG) Yellow Cap/Label		pH < 2	Y	N					
NaOH (P) Green Cap		Cl, pH > 10	Y	N					
NaOH + ZnAc (P)		pH > 9	Y	N					
Dissolved Oxygen 300ml (g)		—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		—	—						
HCl (AG) Lt. Blue Label O&G, Diesel		—	—						
Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525		—	—						
Na ₂ SO ₃ 250mL (AG) Neon Green Label 515		—	—						
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		—	—						
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524		—	—						
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547		—	—						
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531		pH < 3	Y	N					
NH ₄ Cl (AG) Purple Label 552		—	—						
EDA (AG) Brown Label DBPs		—	—						
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—	—						
Buffer pH 4 (CG)		—	—						
H ₃ PO ₄ (CG) Salmon Label		—	—						
Other:									
Asbestos 1Liter Plastic w/ Foil		—	—						
Low Level Hg / Metals Double Baggie		—	—						
Bottled Water		—	—						
Clear Glass 250mL / 500mL / 1 Liter		—	—						
Soil Tube Brass / Steel / Plastic		—	—						
Tedlar Bag / Plastic Bag		—	—						
Split	Container	Preservative	Date/Time/Initials	SL	Container	Preservative	Date/Time/Initials		
	S P S P	LP LP	HNO ₃ HNO ₃	2/23/18 1300	S P S P				
Comments									

Labeled by:

SL @ 1430

Labels checked by:

SL @ 1550

RUSH Paged by:

@



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2684

3/09/2018

Invoice: A806600

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2684 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,



Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
----------------------------	-----------------

Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Callison Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2684

General EDT

Lead in Schools - Callison

Certificate of Analysis

Sample ID: A8B2684-01

Sampled By: Kurtis Westbrook

Sample Description: Callison- Cafeteria Kitchen Sink

Sample Date - Time: 02/21/18 - 08:30

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2684

General EDT

Lead in Schools - Callison

Certificate of Analysis

Sample ID: A8B2684-02

Sampled By: Kurtis Westbrook

Sample Description: MP Breezeway Drinking Fountain

Sample Date - Time: 02/21/18 - 08:31

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2684

General EDT

Lead in Schools - Callison

Certificate of Analysis

Sample ID: A8B2684-03

Sampled By: Kurtis Westbrook

Sample Description: Callison- Nurses Office Sink

Sample Date - Time: 02/21/18 - 08:38

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	2.6	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2684

General EDT

Lead in Schools - Callison

Certificate of Analysis

Sample ID: A8B2684-04

Sampled By: Kurtis Westbrook

Sample Description: Room 8 Sink/Fountain

Sample Date - Time: 02/21/18 - 08:36

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	1.1	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2684

General EDT

Lead in Schools - Callison

Certificate of Analysis

Sample ID: A8B2684-05

Sampled By: Kurtis Westbrook

Sample Description: Room 21 Sink/Fountain

Sample Date - Time: 02/21/18 - 08:33

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	4.1	1.0	ug/L	1	A802682	02/27/18	03/07/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802682

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802682-BLK1)

Lead	ND	1.0	ug/L							03/07/18	
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Blank Spike (A802682-BS1)

Lead	200	1.0	ug/L	200		102	85-115			03/07/18	
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Blank Spike Dup (A802682-BSD1)

Lead	200	1.0	ug/L	200		101	85-115	1	20	03/07/18	
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Matrix Spike (A802682-MS1), Source: A8B2678-05

Lead	200	1.0	ug/L	200	ND	100	70-130			03/07/18	
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Matrix Spike (A802682-MS2), Source: A8B2683-02

Lead	200	1.0	ug/L	200	ND	98	70-130			03/07/18	
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Matrix Spike Dup (A802682-MSD1), Source: A8B2678-05

Lead	200	1.0	ug/L	200	ND	100	70-130	0	20	03/07/18	
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Matrix Spike Dup (A802682-MSD2), Source: A8B2683-02

Lead	200	1.0	ug/L	200	ND	100	70-130	2	20	03/07/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2684



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

Turnaround Time Request

Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

A8B2684
 Vacav6430

 02/23/2018
 10

Required Fields

Company/Client Name*: **City of Vacaville** Report Attention*: **Mindy Boele** Invoice to*: **Mindy Boele** Phone*: **707-469-6430** Fax*: **707-469-6493**
 Additional cc's: Additional cc's: PO#: **36159** E-mail*: **Mindy.boele@cityofvacaville.com**
 Temp: **44.0**

Address*: **6040 Vaca Station Road** City*: **Elmira** State*: **CA** Zip*: **95625**

Project: **Lead in Schools - Callison** Project #:

Reporting Options: Trace (4-Flag) Swamp EDD Type: Regulatory Carbon Copies SWRCB (Drinking Water) Fresno Co Tulare Co Madera Co Other: EDT to California SWRCB (Drinking Water) System Number*: **4810008** Geotracker #:

Sampler Name (Printed/Signature)*: **Katie's Drinking Water Laboratory** Matrix Types: SW=Surface Water BW=Boiled Water GW=Ground Water WV=Vase Water STW=Storm Water DW=Drinking Water SO=Soil

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX
		Date	Time		
1	Cafeteria Kitchen Sink	1/23/18	8:20	DW	4810008-ABA-A / 4810008
2	MP Breezeway Drinking Fountain	1/23/18	8:20	DW	4810008-ABA-B / 4810008
3	Nurses Office Sink	1/23/18	8:20	DW	4810008-ABA-C / 4810008
4	Room 8 Sink/Fountain	1/23/18	8:20	DW	4810008-ABA-D / 4810008
5	Room 21 Sink/Fountain	1/23/18	8:20	DW	4810008-ABA-E / 4810008

Relinquished By: (Signature and Printed Name) Company: **BS&K** Date: **1/23/18** Time: **8:20** Received by: (Signature and Printed Name) Company: **BS&K** Date: **1/23/18** Time: **8:20**

Relinquished By: (Signature and Printed Name) Company: **BS&K** Date: **1/23/18** Time: **8:20** Received by: (Signature and Printed Name) Company: **BS&K** Date: **1/23/18** Time: **8:20**

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Relinquished By: (Signature and Printed Name) Company: **BS&K** Date: **1/23/18** Time: **8:20** Received by: (Signature and Printed Name) Company: **BS&K** Date: **1/23/18** Time: **8:20**

Relinquished By: (Signature and Printed Name) Company: **BS&K** Date: **1/23/18** Time: **8:20** Received by: (Signature and Printed Name) Company: **BS&K** Date: **1/23/18** Time: **8:20**

Shipping Method: **ONTRAC** **UPS** **GSO** **WALK-IN** **FED EX** **Courier**
 Cooling Method: **Wet** **Blue** **None**
 Payment for services rendered as noted hereon is due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions of Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

Sample Integrity



BSK Bottles: Yes No Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		Yes	No	NA	Were correct containers and preservatives received for the tests requested?		Yes	No	NA	
	If samples were taken today, is there evidence that chilling has begun?		Yes	No	NA	Were there bubbles in the VOA vials? (Volatiles Only)		Yes	No	NA	
	Did all bottles arrive unbroken and intact?		Yes	No		Was a sufficient amount of sample received?		Yes	No		
	Did all bottle labels agree with COC?		Yes	No		Do samples have a hold time <72 hours?		Yes	No		
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		Yes	No	NA	Was PM notified of discrepancies? PM: _____ By/Time: _____		Yes	No	NA	
Bottles Received <small>"_" means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?								
	Bacti Na ₂ S ₂ O ₃	—	—								
	None (P) White Cap	—	—								
	Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW	Cl, pH > 8	Y	N							
	Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW	pH 9.3-9.7	Y	N							
	Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	Y	N							
	HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label		—	—							
	H ₂ SO ₄ (P) or (AG) Yellow Cap/Label	pH < 2	Y	N							
	NaOH (P) Green Cap	Cl, pH > 10	Y	N							
	NaOH + ZnAc (P)	pH > 9	Y	N							
	Dissolved Oxygen 300ml (g)		—	—							
	None (AG) 606/8081/8082, 625, 632/8321, 8151, 8270		—	—							
	HCl (AG) Lt. Blue Label O&G, Diesel		—	—							
	Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525		—	—							
	Na ₂ SO ₃ 250mL (AG) Neon Green Label 515		—	—							
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		—	—							
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524		—	—							
	Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547		—	—							
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	Y	N							
	NH ₄ Cl (AG) Purple Label 552		—	—							
	EDA (AG) Brown Label DBPs		—	—							
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—	—							
	Buffer pH 4 (CG)		—	—							
	H ₃ PO ₄ (CG) Salmon Label		—	—							
	Other:										
	Asbestos 1Liter Plastic w/ Foil		—	—							
	Low Level Hg / Metals Double Baggie		—	—							
	Bottled Water		—	—							
Clear Glass 250mL / 500mL / 1 Liter		—	—								
Soil Tube Brass / Steel / Plastic		—	—								
Tedlar Bag / Plastic Bag		—	—								
Split	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials				
	S P	DLCP	HNO ₃	2/23/18 1300	S P						
	S P			S P							
Comments											

Labeled by: SL @ 1510 Labels checked by: EL @ 1550 RUSH Paged by: _____ @ _____



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2629

3/09/2018

Invoice: A806591

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2629 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,



Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
----------------------------	-----------------

Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Cooper Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2629

General EDT

Lead in Schools - Cooper

Certificate of Analysis

Sample ID: A8B2629-01

Sampled By: Kurtis Westbrook

Sample Description: Cooper- Cafeteria Kitchen Sink

Sample Date - Time: 02/21/18 - 08:09

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2629

General EDT

Lead in Schools - Cooper

Certificate of Analysis

Sample ID: A8B2629-02

Sampled By: Kurtis Westbrook

Sample Description: Cooper- Nurses Office Sink

Sample Date - Time: 02/21/18 - 08:05

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	1.7	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2629

General EDT

Lead in Schools - Cooper

Certificate of Analysis

Sample ID: A8B2629-03

Sampled By: Kurtis Westbrook

Sample Description: Cooper- MP Room Breezeway Drinking Fountain

Sample Date - Time: 02/21/18 - 08:11

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2629

General EDT

Lead in Schools - Cooper

Certificate of Analysis

Sample ID: A8B2629-04

Sampled By: Kurtis Westbrook

Sample Description: Room 1 Sink/Fountain

Sample Date - Time: 02/21/18 - 08:07

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	2.4	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2629

General EDT

Lead in Schools - Cooper

Certificate of Analysis

Sample ID: A8B2629-05

Sampled By: Kurtis Westbrook

Sample Description: Room 30 Sink/Fountain

Sample Date - Time: 02/21/18 - 08:15

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802669	02/27/18	03/06/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802669

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802669-BLK1)

Lead	ND	1.0	ug/L							03/06/18	
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Blank Spike (A802669-BS1)

Lead	190	1.0	ug/L	200		94	85-115			03/06/18	
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Blank Spike Dup (A802669-BSD1)

Lead	190	1.0	ug/L	200		94	85-115	1	20	03/06/18	
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Matrix Spike (A802669-MS1), Source: A8B2539-03

Lead	190	1.0	ug/L	200	ND	95	70-130			03/06/18	
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Matrix Spike (A802669-MS2), Source: A8B2628-03

Lead	190	1.0	ug/L	200	2.0	95	70-130			03/06/18	
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Matrix Spike Dup (A802669-MSD1), Source: A8B2539-03

Lead	180	1.0	ug/L	200	ND	92	70-130	4	20	03/06/18	
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Matrix Spike Dup (A802669-MSD2), Source: A8B2628-03

Lead	190	1.0	ug/L	200	2.0	94	70-130	1	20	03/06/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method , all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435				
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2629



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bs&kassociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed: 4/10/10

A8B2629
 Vacav6430

 02/23/2018
 10

Company/Client Name: **City of Vacaville** Report Attention: **Mindy Boele** Phone: **707-469-6430** Fax: **707-469-6493**
 Address: **6040 Vacca Station Road** City: **Elmira** State: **CA** Zip: **95625** E-mail: **Mindy.boele@cityofvacaville.com**
 Project: **Lead in Schools - Cooper** Project #: **36159** Invoice To: **Mindy Boele** PO#: **36159**

Reporting Options: Trace (J-Flag) Swamp EDD Type: _____ Regulatory Carbon Copies: SWRCB (Drinking Water) Merced Co Madera Co Tulare Co Other _____
 How would you like to receive your completed results? E-Mail Fax Mail
 Regulatory Compliance: EDT to California SWRCB (Drinking Water) System Number: **4810006**
 Sampler Name (Printed/Signature)*: **Kate Labrak** Geotracker #: _____
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX
		Date	Time		
1	Cafeteria Kitchen Sink	4/10	08:15	DW	4810008-AAE-A
2	Nurses Office Sink	4/10	08:15	DW	4810008-AAE-B
3	MP Room Breezeway Drinking Fountain	4/10	08:15	DW	4810008-AAE-C
4	Room 1 Sink/Fountain	4/10	08:15	DW	4810008-AAE-D
5	Room 30 Sink/Fountain	4/10	08:15	DW	4810008-AAE-E

Relinquished by: (Signature and Printed Name) **[Signature]** Company: **[Company]** Date: **4/10/10** Time: **08:15**
 Relinquished by: (Signature and Printed Name) **[Signature]** Company: **[Company]** Date: **4/10/10** Time: **08:15**
 Received by: (Signature and Printed Name) **[Signature]** Company: **[Company]** Date: **4/10/10** Time: **08:15**
 Received by: (Signature and Printed Name) **[Signature]** Company: **[Company]** Date: **4/10/10** Time: **08:15**
 Shipping Method: **ONTRAC** **Wet** **Blue** **UPS** **None** **GSO** **WALK-IN** **FED EX** **Courier:** _____
 Cooling Method: **Wet** **Blue** **UPS** **None** **GSO** **WALK-IN** **FED EX** **Courier:** _____
 Chilling Process Begun: **Y/N** **[Signature]**

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for Laboratory Services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bs&kassociates.com/BSKLabTermsConditions.pdf



Sample Integrity

BSK Bottles: Yes No Page (of)

COC Info		Yes	No	NA	Were correct containers and preservatives received for the tests requested?		Yes	No	NA
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		<u>Yes</u>					<u>Yes</u>		
If samples were taken today, is there evidence that chilling has begun?		Yes	No	<u>NA</u>	Were there bubbles in the VOA vials? (Volatiles Only)		Yes	No	<u>NA</u>
Did all bottles arrive unbroken and intact?		<u>Yes</u>	No		Was a sufficient amount of sample received?		<u>Yes</u>	No	
Did all bottle labels agree with COC?		<u>Yes</u>	No		Do samples have a hold time <72 hours?		Yes	No	<u>NA</u>
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		Yes	No	<u>NA</u>	Was PM notified of discrepancies? PM: _____ By/Time: _____		Yes	No	<u>NA</u>
250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)		Checks	Passed?		1-5				
Bacti $\text{Na}_2\text{S}_2\text{O}_3$		—	—						
None (P) White Cap		—	—						
Cr6 (P) Lt. Green Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW		Cl, pH > 8	Y	N					
Cr6 (P) Pink Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ WW		pH 9.3-9.7	Y	N					
Cr6 (P) Black Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5	Y	N					
HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label		—	—		ic				
H ₂ SO ₄ (P) or (AG) Yellow Cap/Label		pH < 2	Y	N					
NaOH (P) Green Cap		Cl, pH >10	Y	N					
NaOH + ZnAc (P)		pH > 9	Y	N					
Dissolved Oxygen 300ml (g)		—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		—	—						
HCl (AG) Lt. Blue Label O&G, Diesel		—	—						
Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525		—	—						
Na ₂ SO ₃ 250mL (AG) Neon Green Label 515		—	—						
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		—	—						
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524		—	—						
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547		—	—						
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531		pH < 3	Y	N					
NH ₄ Cl (AG) Purple Label 552		—	—						
EDA (AG) Brown Label DBPs		—	—						
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—	—						
Buffer pH 4 (CG)		—	—						
H ₃ PO ₄ (CG) Salmon Label		—	—						
Other:									
Asbestos 1Liter Plastic w/ Foil		—	—						
Low Level Hg / Metals Double Baggie		—	—						
Bottled Water		—	—						
Clear Glass 250mL / 500mL / 1 Liter		—	—						
Soil Tube Brass / Steel / Plastic		—	—						
Tedlar Bag / Plastic Bag		—	—						
Split	Container	Preservative	Date/Time/Initials	SP	Container	Preservative	Date/Time/Initials		
	SP	NO ₃	2/23/18 1300	SP					
Comments									

Labeled by: JL @ 1570 Labels checked by: Eve @ 1550 RUSH Paged by: @



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2677

3/09/2018

Invoice: A806593

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2677 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,



Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
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Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Country High Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
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Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2677

General EDT

Lead in Schools - Country High

Certificate of Analysis

Sample ID: A8B2677-01

Sampled By: Kurtis Westbrook

Sample Description: Country High- Cafeteria Kitchen Sink

Sample Date - Time: 02/21/18 - 09:11

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	1.6	1.0	ug/L	1	A802670	02/27/18	03/06/18	



A8B2677

General EDT

Lead in Schools - Country High

Certificate of Analysis

Sample ID: A8B2677-02

Sampled By: Kurtis Westbrook

Sample Description: Country High- Nursery Sink

Sample Date - Time: 02/21/18 - 09:07

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	6.2	1.0	ug/L	1	A802670	02/27/18	03/06/18	



A8B2677

General EDT

Lead in Schools - Country High

Certificate of Analysis

Sample ID: A8B2677-03

Sampled By: Kurtis Westbrook

Sample Description: Country High- Room 1 Sink/Fountain

Sample Date - Time: 02/21/18 - 09:09

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	3.9	1.0	ug/L	1	A802670	02/27/18	03/06/18	



A8B2677

General EDT

Lead in Schools - Country High

Certificate of Analysis

Sample ID: A8B2677-04

Sampled By: Kurtis Westbrook

Sample Description: Country High- Room 10 Sink/Fountain

Sample Date - Time: 02/21/18 - 09:23

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802670	02/27/18	03/06/18	



A8B2677

General EDT

Lead in Schools - Country High

Certificate of Analysis

Sample ID: A8B2677-05

Sampled By: Kurtis Westbrook

Sample Description: Country High- Room 14 Sink/Fountain

Sample Date - Time: 02/21/18 - 09:13

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802670	02/27/18	03/06/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802670

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802670-BLK1)

Lead	ND	1.0	ug/L							03/06/18	
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Blank Spike (A802670-BS1)

Lead	200	1.0	ug/L	200		100	85-115			03/06/18	
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Blank Spike Dup (A802670-BSD1)

Lead	200	1.0	ug/L	200		99	85-115	2	20	03/06/18	
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Matrix Spike (A802670-MS1), Source: A8B2630-03

Lead	190	1.0	ug/L	200	ND	95	70-130			03/06/18	
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Matrix Spike (A802670-MS2), Source: A8B2676-05

Lead	190	1.0	ug/L	200	ND	96	70-130			03/06/18	
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Matrix Spike Dup (A802670-MSD1), Source: A8B2630-03

Lead	190	1.0	ug/L	200	ND	93	70-130	2	20	03/06/18	
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Matrix Spike Dup (A802670-MSD2), Source: A8B2676-05

Lead	190	1.0	ug/L	200	ND	97	70-130	2	20	03/06/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
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- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
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- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2677



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

A8B2677
 Vacav6430

 02/23/2018
 10

Required Fields Temp: #46 10.0

Company/Client Name: **City of Vacaville** Report Attention: **Mindy Boeie** Invoice To: **Mindy Boeie** Phone: **707-469-6430** Fax: **707-469-6493**
 Address: **6040 Vacca Station Road** City: **Elmira** State: **CA** Zip: **95625** PO#: **36159** Email: **Mindy.boeie@cityofvacaville.com**

Project: **Lead in Schools - Country High** Project #: _____
 Reporting Options: Trace (J-Flag) Swamp EDD Type: _____
 Regulatory Carbon Copies: SWRCB (Drinking Water) Merced Co Madera Co Tulare Co
 EDT to California SWRCB (Drinking Water) System Number: **4810003**
 How would you like to receive your completed results? E-Mail Fax Mail
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid
 Matrix: _____ Geotracer #: _____

Sampler Name (Printed/Signature): **Kurt's Westbrook / Kurt's Westbrook**

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX
		Date	Time		
1	Cafeteria Kitchen Sink	2/20/18	9:11	DW	4810008-ABI-A / 30725
2	Nursery Sink	2/20/18	9:07	DW	4810008-ABI-B / 30706
3	Room 1 Sink/Fountain	2/20/18	9:09	DW	4810008-ABI-C / 30717
4	Room 10 Sink/Fountain	2/20/18	9:23	DW	4810008-ABI-D / 30723
5	Room 14 Sink/Fountain	2/20/18	9:13	DW	4810008-ABI-E / 30720

Requisitioned by: (Signature and Printed Name) **Kurt's Westbrook** Company: **COVVAL** Date: **2/20/18** Time: **10:24** Received by: (Signature and Printed Name) **L.S. Fridge #2**
 Requisitioned by: (Signature and Printed Name) **Kurt's Westbrook** Company: **COVVAL** Date: **2/20/18** Time: **1:50** Received by: (Signature and Printed Name) **OFF Y. DUNITZ OFF**
 Reserved for Lab by: (Signature and Printed Name) **L.S. Fridge #2** Company: **COVVAL** Date: **2/23/18** Time: **11:00** Payment Received at Delivery: **OFF**
 Shipping Method: **ONTRAC** **UPS** **GSO** **WALK-IN** **FED EX** **Courier** Custody Seal: **Y.N.** **AS** Amount: **PLA#** **Check** **Bill** **Cash**

Payment for services rendered as noted hereafter due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually noted otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

Sample Integrity



BSK Bottles: Yes No Page 1 of 1

COC Info		Yes	No	NA	Were correct containers and preservatives received for the tests requested?	Yes	No	NA
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		<u>Yes</u>	No	NA		<u>Yes</u>	No	NA
If samples were taken today, is there evidence that chilling has begun?		Yes	No	<u>NA</u>	Were there bubbles in the VOA vials? (Volatiles Only)	Yes	No	<u>NA</u>
Did all bottles arrive unbroken and intact?		<u>Yes</u>	No		Was a sufficient amount of sample received?	<u>Yes</u>	No	
Did all bottle labels agree with COC?		<u>Yes</u>	No		Do samples have a hold time <72 hours?	Yes	No	<u>NA</u>
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		Yes	No	<u>NA</u>	Was PM notified of discrepancies? PM: _____ By/Time: _____	Yes	No	<u>NA</u>
250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)		Checks	Passed?					
Bacti Na ₂ S ₂ O ₃		—	—					
None (P) ^{White Cap}		—	—					
Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW		Cl, pH > 8	Y	N				
Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW		pH 9.3-9.7	Y	N				
Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5	Y	N				
HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label		—	—					
H ₂ SO ₄ (P) or (AG) Yellow Cap/Label		pH < 2	Y	N				
NaOH (P) Green Cap		Cl, pH > 10	Y	N				
NaOH + ZnAc (P)		pH > 9	Y	N				
Dissolved Oxygen 300ml (g)		—	—					
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		—	—					
HCl (AG) ^{Lt. Blue Label} O&G, Diesel		—	—					
Ascorbic, EDTA, KH ₂ Ct (AG) ^{Pink Label} 525		—	—					
Na ₂ SO ₃ 250mL (AG) ^{Neon Green Label} 515		—	—					
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		—	—					
Na ₂ S ₂ O ₃ (AG) ^{Blue Label} 548, THM, 524		—	—					
Na ₂ S ₂ O ₃ (CG) ^{Blue Label} 504, 505, 547		—	—					
Na ₂ S ₂ O ₃ + MCAA (CG) ^{Orange Label} 531		pH < 3	Y	N				
NH ₄ Cl (AG) ^{Purple Label} 552		—	—					
EDA (AG) ^{Brown Label} DBPs		—	—					
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—	—					
Buffer pH 4 (CG)		—	—					
H ₃ PO ₄ (CG) ^{Salmon Label}		—	—					
Other:								
Asbestos 1Liter Plastic w/ Foil		—	—					
Low Level Hg / Metals Double Baggie		—	—					
Bottled Water		—	—					
Clear Glass 250mL / 500mL / 1 Liter		—	—					
Soil Tube Brass / Steel / Plastic		—	—					
Tedlar Bag / Plastic Bag		—	—					
Split	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials	
	<u>SP</u> <u>SP</u>	<u>LNOS</u>	<u>2/23/18 1300</u>	<u>SL</u>	<u>SP</u> <u>SP</u>			
Comments								

Labeled by: SL/1445 @ Labels checked by: [Signature] @ ISSO RUSH Paged by: _____ @



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2630

3/09/2018

Invoice: A806592

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2630 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
----------------------------	-----------------

Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Fairmont Charter Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2630

General EDT

Lead in Schools - Fairmont Charter

Certificate of Analysis

Sample ID: A8B2630-01

Sampled By: Kurtis Westbrook

Sample Description: Fairmont Charter- Cafeteria Kitchen Sink

Sample Date - Time: 02/21/18 - 07:50

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2630

General EDT

Lead in Schools - Fairmont Charter

Certificate of Analysis

Sample ID: A8B2630-02

Sampled By: Kurtis Westbrook

Sample Description: Fairmont Charter- Nurses Office Sink

Sample Date - Time: 02/21/18 - 07:45

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2630

General EDT

Lead in Schools - Fairmont Charter

Certificate of Analysis

Sample ID: A8B2630-03

Sampled By: Kurtis Westbrook

Sample Description: Upstairs Hall Drinking Fountain

Sample Date - Time: 02/21/18 - 07:52

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802670	02/27/18	03/06/18	



A8B2630

General EDT

Lead in Schools - Fairmont Charter

Certificate of Analysis

Sample ID: A8B2630-04

Sampled By: Kurtis Westbrook

Sample Description: Downstairs Hall Drinking Fountain

Sample Date - Time: 02/21/18 - 07:48

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802670	02/27/18	03/06/18	



A8B2630

General EDT

Lead in Schools - Fairmont Charter

Certificate of Analysis

Sample ID: A8B2630-05
Sampled By: Kurtis Westbrook
Sample Description: Room 104

Sample Date - Time: 02/21/18 - 07:54
Matrix: Drinking Water
Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	1.3	1.0	ug/L	1	A802670	02/27/18	03/06/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802669

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802669-BLK1)

Lead	ND	1.0	ug/L							03/06/18	
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Blank Spike (A802669-BS1)

Lead	190	1.0	ug/L	200		94	85-115			03/06/18	
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Blank Spike Dup (A802669-BSD1)

Lead	190	1.0	ug/L	200		94	85-115	1	20	03/06/18	
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Matrix Spike (A802669-MS1), Source: A8B2539-03

Lead	190	1.0	ug/L	200	ND	95	70-130			03/06/18	
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Matrix Spike (A802669-MS2), Source: A8B2628-03

Lead	190	1.0	ug/L	200	2.0	95	70-130			03/06/18	
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Matrix Spike Dup (A802669-MSD1), Source: A8B2539-03

Lead	180	1.0	ug/L	200	ND	92	70-130	4	20	03/06/18	
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Matrix Spike Dup (A802669-MSD2), Source: A8B2628-03

Lead	190	1.0	ug/L	200	2.0	94	70-130	1	20	03/06/18	
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EPA 200.8 - Quality Control

Batch: A802670

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802670-BLK1)

Lead	ND	1.0	ug/L							03/06/18	
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Blank Spike (A802670-BS1)

Lead	200	1.0	ug/L	200		100	85-115			03/06/18	
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Blank Spike Dup (A802670-BSD1)

Lead	200	1.0	ug/L	200		99	85-115	2	20	03/06/18	
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Matrix Spike (A802670-MS1), Source: A8B2630-03

Lead	190	1.0	ug/L	200	ND	95	70-130			03/06/18	
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Matrix Spike (A802670-MS2), Source: A8B2676-05

Lead	190	1.0	ug/L	200	ND	96	70-130			03/06/18	
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Matrix Spike Dup (A802670-MSD1), Source: A8B2630-03

Lead	190	1.0	ug/L	200	ND	93	70-130	2	20	03/06/18	
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Matrix Spike Dup (A802670-MSD2), Source: A8B2676-05

Lead	190	1.0	ug/L	200	ND	97	70-130	2	20	03/06/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method , all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2630



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP



Printed: 2/23/2018 4:40:01PM

Page 1 of 1

Page 10 of 12



1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

ARB2630
 Vacav6430
 02/23/2018
 10

Required Fields

Company/Client Name: **City of Vacaville** Report Attention: **Mindy Boele** Invoice To: **Mindy Boele** Phone: **707-469-6430** Fax: **707-469-6493**
 Address: **6040 Vaca Station Road** City: **Elmira** State: **CA** Zip: **95625** PO#: **36159** E-mail: **Mindy.boele@cityofvacaville.com**

Project: **Lead in Schools - Fairmont Charter** Project #: _____
 Reporting Options: Trace (J-Flag) Swamp EDD Type: _____
 SWRCB (Drinking Water) Fresno Co Tulare Co
 Madera Co Other: _____
 EDI to California SWRCB (Drinking Water) System Number: **4810006**
 Geotracker #: _____
 How would you like to receive your completed results? E-Mail Fax Mail

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid
 Sampler Name (Printed/Signature)*: **Kevin Goshawk**
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX	Date	Time	Received by: (Signature and Printed Name)	Date	Time	Payment Received at Delivery:	Amount:	Chilling Process: <input type="checkbox"/> Begun <input type="checkbox"/> N	Custody Seal: <input type="checkbox"/> N <input type="checkbox"/> Y	P/A#:	Company	Check	Init.	Cash
		Date	Time																
1	Cafeteria Kitchen Sink	2/21/18	9:00	DW	4810008-AAI-A	2/21/18	9:00	<i>[Signature]</i>	2/21/18	1:30	<i>[Signature]</i>								
2	Nurses Office Sink	2/21/18	7:45	DW	4810008-AAI-B	2/21/18	7:45	<i>[Signature]</i>	2/21/18	1:30	<i>[Signature]</i>								
3	Upstairs Hall Drinking Fountain	2/21/18	7:45	DW	4810008-AAI-C	2/21/18	7:45	<i>[Signature]</i>	2/21/18	1:30	<i>[Signature]</i>								
4	Downstairs Hall Drinking Fountain	2/21/18	7:45	DW	4810008-AAI-D	2/21/18	7:45	<i>[Signature]</i>	2/21/18	1:30	<i>[Signature]</i>								
5	Room 104	2/21/18	7:45	DW	4810008-AAI-E	2/21/18	7:45	<i>[Signature]</i>	2/21/18	1:30	<i>[Signature]</i>								

Relinquished by: (Signature and Printed Name) _____ Company _____ Date _____ Time _____
 Relinquished by: (Signature and Printed Name) _____ Company _____ Date _____ Time _____
 Resealed for Lab by: (Signature and Printed Name) _____ Date _____ Time _____
 Shipping Method: ONTRAC UPS None GSO WALK-IN FED-EX Counter _____
 Cooling Method: Wet Blue None

Payment for services rendered as noted herein is due within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSK%20LabTermsConditions.pdf

Sample Integrity



BSK Bottles: Yes No Page (of)

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Were correct containers and preservatives received for the tests requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA			
	If samples were taken today, is there evidence that chilling has begun?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	Were there bubbles in the VOA vials? (Volatiles Only)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA			
	Did all bottles arrive unbroken and intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Was a sufficient amount of sample received?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	Did all bottle labels agree with COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Do samples have a hold time <72 hours?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	Was PM notified of discrepancies? PM: _____ By/Time: _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA			
Bottles Received <small>* means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	1-5			
	Bacti $\text{Na}_2\text{S}_2\text{O}_3$	—	—				
	None (P) White Cap	—	—				
	Cr6 (P) Lt. Green Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW	Cl, pH > 8	Y	N			
	Cr6 (P) Pink Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ WW	pH 9.3-9.7	Y	N			
	Cr6 (P) Black Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	Y	N			
	HNO₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	—	—				
	H₂SO₄ (P) or (AG) Yellow Cap/Label	pH < 2	Y	N			
	NaOH (P) Green Cap	Cl, pH > 10	Y	N			
	NaOH + ZnAc (P)	pH > 9	Y	N			
	Dissolved Oxygen 300ml (g)	—	—				
	None (AG) 608/6081/6082, 625, 632/8321, 8151, 8270	—	—				
	HCl (AG) Lt. Blue Label O&G, Diesel	—	—				
	Ascorbic, EDTA, KH₂Ct (AG) Pink Label 525	—	—				
	Na₂SO₃ 250mL (AG) Neon Green Label 515	—	—				
	Na₂S₂O₃ 1 Liter (Brown P) 549	—	—				
	Na₂S₂O₃ (AG) Blue Label 548, THM, 524	—	—				
	Na₂S₂O₃ (CG) Blue Label 504, 505, 547	—	—				
	Na₂S₂O₃ + MCAA (CG) Orange Label 531	pH < 3	Y	N			
	NH₄Cl (AG) Purple Label 552	—	—				
	EDA (AG) Brown Label DBPs	—	—				
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—				
	Buffer pH 4 (CG)	—	—				
	H₃PO₄ (CG) Salmon Label	—	—				
	Other:						
	Asbestos 1Liter Plastic w/ Foil	—	—				
	Low Level Hg / Metals Double Baggie	—	—				
	Bottled Water	—	—				
Clear Glass 250mL / 500mL / 1 Liter	—	—					
Soil Tube Brass / Steel / Plastic	—	—					
Tedlar Bag / Plastic Bag	—	—					
Split	Container	Preservative	Date/Time/Initials	SL	Container	Preservative	Date/Time/Initials
	S P	L P	NNO	2/23/18 1300	S P		
	S P				S P		
Comments							

Labeled by: SL @ 1445 Labels checked by: Em @ 1500 RUSH Paged by: @



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2683

3/09/2018

Invoice: A806598

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2683 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,



Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
----------------------------	-----------------

Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Hemlock Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2683

General EDT

Lead in Schools - Hemlock

Certificate of Analysis

Sample ID: A8B2683-01

Sampled By: Kurtis Westbrook

Sample Description: Hemlock- Cafeteria Kitchen Sink

Sample Date - Time: 02/20/18 - 08:26

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	13	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2683

General EDT

Lead in Schools - Hemlock

Certificate of Analysis

Sample ID: A8B2683-02

Sampled By: Kurtis Westbrook

Sample Description: Hemlock- Nurses Office Sink

Sample Date - Time: 02/20/18 - 08:27

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2683

General EDT

Lead in Schools - Hemlock

Certificate of Analysis

Sample ID: A8B2683-03

Sampled By: Kurtis Westbrook

Sample Description: Hemlock- Room 3 Sink/Fountain

Sample Date - Time: 02/20/18 - 08:29

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	1.7	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2683

General EDT

Lead in Schools - Hemlock

Certificate of Analysis

Sample ID: A8B2683-04

Sampled By: Kurtis Westbrook

Sample Description: Hemlock- Room 16 Sink/Fountain

Sample Date - Time: 02/20/18 - 08:34

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	1.5	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2683

General EDT

Lead in Schools - Hemlock

Certificate of Analysis

Sample ID: A8B2683-05

Sampled By: Kurtis Westbrook

Sample Description: Hemlock- Room 27 Sink/Fountain

Sample Date - Time: 02/20/18 - 08:36

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802682	02/27/18	03/07/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802682

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802682-BLK1)

Lead	ND	1.0	ug/L							03/07/18	
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Blank Spike (A802682-BS1)

Lead	200	1.0	ug/L	200		102	85-115			03/07/18	
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Blank Spike Dup (A802682-BSD1)

Lead	200	1.0	ug/L	200		101	85-115	1	20	03/07/18	
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Matrix Spike (A802682-MS1), Source: A8B2678-05

Lead	200	1.0	ug/L	200	ND	100	70-130			03/07/18	
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Matrix Spike (A802682-MS2), Source: A8B2683-02

Lead	200	1.0	ug/L	200	ND	98	70-130			03/07/18	
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Matrix Spike Dup (A802682-MSD1), Source: A8B2678-05

Lead	200	1.0	ug/L	200	ND	100	70-130	0	20	03/07/18	
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Matrix Spike Dup (A802682-MSD2), Source: A8B2683-02

Lead	200	1.0	ug/L	200	ND	100	70-130	2	20	03/07/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method , all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2683



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 - Fax (559) 497-2893
 www.bsksociates.com

Turnaround Time Request

Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed: 46 10-0

A8B2683
 Vacav6430
 02/23/2018
 10

Required Fields

Company/Client Name: **City of Vacaville** Report Attention*: **Mindy Boele** Invoice To*: **Mindy Boele** Phone*: **707-469-6430** Fax: **707-469-6493**
 Address*: **6040 Vaca Station Road** Additional cc's: **Elmira** PO#: **36159** E-mail: **Mindy.boele@cityofvacaville.com**
 Project: **Lead in Schools - Hemlock** Project #: **CA** State*: **CA** Zip*: **95625**

Reporting Options: Trace (J-Flag) Swamp EDD Type: _____
 Regulatory Carbon Copies: SWRCB (Drinking Water) Merced Co Madera Co Other: _____
 How would you like to receive your completed results?: E-Mail Fax Mail
 Regulatory Compliance: EDT to California SWRCB (Drinking Water) System Number: **4810008**
 Sampler Name (Printed/Signature)*: **Kurt's Westbrook** Fresno Co Tubare Co Geotracer #: _____

Matrix Types: **SV=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid**
Sample Description*

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX
		Date	Time		
1	Cafeteria Kitchen Sink	8/20/18	8:26	DW	4810008-AAJ-A / 39961
2	Nurses Office Sink	8/20/18	8:27	DW	4810008-AAJ-B / 39962
3	Room 3 Sink/Fountain	8/20/18	8:29	DW	4810008-AAJ-C / 39963
4	Room 16 Sink/Fountain	8/20/18	8:34	DW	4810008-AAJ-D / 39964
5	Room 27 Sink/Fountain	8/20/18	8:36	DW	4810008-AAJ-E / 39965

Relinquished by (Signature and Printed Name): **Kurt's Westbrook** Company: **COVUOL** Date: **2/20/18** Time: **10:24** Received by (Signature and Printed Name): **Las Fridage #2**
 Relinquished by (Signature and Printed Name): **Las Fridage #2** Company: **COVUOL** Date: **2/20/18** Time: **13:52** Received by (Signature and Printed Name): **PH DMITRICH**
 Received for Lab by (Signature and Printed Name): **Las Fridage #2** Date: **2/20/18** Time: **13:52** Payment Received at Delivery: **Y**
 Shipping Method: **WEL** **Blue** **UPS** **GSO** **WALK-IN** **FED EX** **Count*** **1** **Amount:** **Y/N** **Chilling Process Begun:** **Y/N** **PLAF:** **Y/N**
 Company: **COVUOL** Company: **BS&K** Check: **BS&K** Int: **BS&K** Cash: **BS&K**

Payment for services rendered as noted herein is due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BS&K's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on the Chain of Custody, and agrees to BS&K's terms and conditions for laboratory services unless specifically bound otherwise. BS&K's current terms and conditions can be found at www.bsksociates.com/BS&K_ebtrmsConditions.pdf

Sample Integrity



BSK Bottles: Yes No Page (of)

COC Info		Yes	No	NA	Yes	No	NA
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		<u>Yes</u>	No	NA	Were correct containers and preservatives received for the tests requested?		
If samples were taken today, is there evidence that chilling has begun?		Yes	No	<u>NA</u>	Were there bubbles in the VOA vials? (Volatiles Only)		
Did all bottles arrive unbroken and intact?		<u>Yes</u>	No		Was a sufficient amount of sample received?		
Did all bottle labels agree with COC?		<u>Yes</u>	No		Do samples have a hold time <72 hours?		
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		Yes	No	<u>NA</u>	Was PM notified of discrepancies? PM: _____ By/Time: _____		
250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)		Checks	Passed?				
Bacti Na ₂ S ₂ O ₃		—	—				
None (P) White Cap		—	—				
Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW		Cl, pH > 8	Y	N			
Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW		pH 9.3-9.7	Y	N			
Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199		pH 9.0-9.5	Y	N			
24 HOUR HOLD TIME							
HNO ₃ (F) Red Cap or HCl (P) Purple Cap/Lt. Blue Label		—	—				
H ₂ SO ₄ (P) or (AG) Yellow Cap/Label		pH < 2	Y	N			
NaOH (P) Green Cap		Cl, pH > 10	Y	N			
NaOH + ZnAc (P)		pH > 9	Y	N			
Dissolved Oxygen 300ml (g)		—	—				
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		—	—				
HCl (AG) Lt. Blue Label O&G, Diesel		—	—				
Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525		—	—				
Na ₂ SO ₃ 250mL (AG) Neon Green Label 515		—	—				
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		—	—				
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524		—	—				
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547		—	—				
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531		pH < 3	Y	N			
NH ₄ Cl (AG) Purple Label 552		—	—				
EDA (AG) Brown Label DBPs		—	—				
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—	—				
Buffer pH 4 (CG)		—	—				
H ₃ PO ₄ (CG) Salmon Label		—	—				
Other:							
Asbestos 1Liter Plastic w/ Foil		—	—				
Low Level Hg / Metals Double Baggie		—	—				
Bottled Water		—	—				
Clear Glass 250mL / 500mL / 1 Liter		—	—				
Soil Tube Brass / Steel / Plastic		—	—				
Tedlar Bag / Plastic Bag		—	—				
Split	Container	Preservative	Date/Time/Initials	Split	Container	Preservative	Date/Time/Initials
	S P	LP	HNO ₃ 2/23/18 1300	S P			
Comments							

Labeled by: SL 1510 @ Labels checked by: [Signature] @ 150 RUSH Paged by: @



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2688

3/09/2018

Invoice: A806606

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2688 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,



Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
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Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Willis Jepson Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2688

General EDT

Lead in Schools - Willis Jepson

Certificate of Analysis

Sample ID: A8B2688-01

Sampled By: Kurtis Westbrook

Sample Description: Willis Jepson- Cafeteria Kitchen Sink

Sample Date - Time: 02/20/18 - 07:59

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2688

General EDT

Lead in Schools - Willis Jepson

Certificate of Analysis

Sample ID: A8B2688-02
Sampled By: Kurtis Westbrook
Sample Description: Gym Drinking Fountain

Sample Date - Time: 02/20/18 - 07:57
Matrix: Drinking Water
Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	2.1	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2688

General EDT

Lead in Schools - Willis Jepson

Certificate of Analysis

Sample ID: A8B2688-03

Sampled By: Kurtis Westbrook

Sample Description: A Hall Drinking Fountain

Sample Date - Time: 02/20/18 - 07:49

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	3.9	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2688

General EDT

Lead in Schools - Willis Jepson

Certificate of Analysis

Sample ID: A8B2688-04

Sampled By: Kurtis Westbrook

Sample Description: E Hall Drinking Fountain

Sample Date - Time: 02/20/18 - 07:52

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	3.4	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2688

General EDT

Lead in Schools - Willis Jepson

Certificate of Analysis

Sample ID: A8B2688-05

Sampled By: Kurtis Westbrook

Sample Description: G Hall Drinking Fountain

Sample Date - Time: 02/20/18 - 07:54

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	3.4	1.0	ug/L	1	A802683	02/27/18	03/07/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802683

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802683-BLK1)

Lead	ND	1.0	ug/L							03/07/18	
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Blank Spike (A802683-BS1)

Lead	210	1.0	ug/L	200		104	85-115			03/07/18	
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Blank Spike Dup (A802683-BSD1)

Lead	210	1.0	ug/L	200		104	85-115	0	20	03/07/18	
------	-----	-----	------	-----	--	-----	--------	---	----	----------	--

Matrix Spike (A802683-MS1), Source: A8B2686-02

Lead	200	1.0	ug/L	200	4.1	100	70-130			03/07/18	
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Matrix Spike (A802683-MS2), Source: A8B2690-02

Lead	210	1.0	ug/L	200	3.2	101	70-130			03/07/18	
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Matrix Spike Dup (A802683-MSD1), Source: A8B2686-02

Lead	200	1.0	ug/L	200	4.1	100	70-130	1	20	03/07/18	
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Matrix Spike Dup (A802683-MSD2), Source: A8B2690-02

Lead	210	1.0	ug/L	200	3.2	102	70-130	1	20	03/07/18	
------	-----	-----	------	-----	-----	-----	--------	---	----	----------	--

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP 2435

San Bernardino

NELAP certified 4119-002 State of California - ELAP 2993 State of Oregon - NELAP 4119-002

Vancouver

NELAP certified WA100008-010 State of Oregon - NELAP WA100008-010 State of Washington C824-17



A8B2688



02232018



Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

Turnaround Time Request

Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

A8B2688
 Vacav6430
 02/23/2018
 10

*Required Fields

Temp: **44.0 D**

Company/Client Name: **Report Attention: Mindy Boele**
 City of Vacaville Additional c/s:
 Address: **6040 Vaca Station Road** City: **Elmira** State: **CA** Zip: **95625**
 Project: **Lead in Schools - Willis Jenson** Project #:
 Reporting Options: Trace (J-Flag) Swamp EDD Type: SWRCB (Drinking Water) Merced Co Tulare Co
 Sampler Name (Printed/Signature)*: **Kurtis Westbrook** Regulatory Carbon Copies: SWRCB (Drinking Water) Fresno Co Tulare Co
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid
 How would you like to receive your completed results? E-Mail Fax Mail
 EDI to California SWRCB (Drinking Water) System Number: 4810008
 Geotracker #:
 Invoice To: **Mindy Boele** PO#: **36159** State: **CA** Zip: **95625**
 Phone: **707-469-6430** Fax: **707-469-6493**
 E-mail: **Mindy.boele@cityofvacaville.com**

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX
		Date	Time		
1	Cafeteria Kitchen Sink	2/20/18	7:59	DW	4810008-ABH-A / 30928
2	Gym Drinking Fountain	2/28/18	7:51	DW	4810008-ABH-B / 30928
3	A Hall Drinking Fountain	2/20/18	7:49	DW	4810008-ABH-C / 30928
4	E Hall Drinking Fountain	2/20/18	7:52	DW	4810008-ABH-D / 30928
5	G Hall Drinking Fountain	2/20/18	7:54	DW	4810008-ABH-E / 30928

Reinvoiced By: (Signature and Printed Name) **Kurtis Westbrook** Company **COVQUAL** Date **2/20/18** Time **10:29** Received by: (Signature and Printed Name) **Lab Friddle #2**
 Reinstated By: (Signature and Printed Name) **Lab Friddle #2** Company **COVQUAL** Date **2/20/18** Time **1:50** Received by: (Signature and Printed Name) **PSIMUTE**
 Received for Lab by: (Signature and Printed Name) **Lab Friddle #2** Date **2/23/18** Time **10:00** Payment Received at Delivery: **PSIMUTE**
 Shipping Method: **ONTRAK** **UPS** **GSO** **WALK-IN** **FED EX** **COURT**
 Chilling Process Begun: **Y/N** **Y/N** **Y/N** **Y/N**
 Custody Seal: **Y/N** **Y/N** **Y/N** **Y/N**
 Company **COVQUAL** Company **COVQUAL** Company **COVQUAL**
 Check **501 SR** Cash **157**

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabTermsConditions.pdf

SR-FL-0012-07



Sample Integrity

BSK Bottles: Yes No Page (of)

COC Info		Yes	No	NA	Yes	No	NA	
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Were correct containers and preservatives received for the tests requested?			<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
If samples were taken today, is there evidence that chilling has begun?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Were there bubbles in the VOA vials? (Volatiles Only)			<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
Did all bottles arrive unbroken and intact?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Was a sufficient amount of sample received?			<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
Did all bottle labels agree with COC?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Do samples have a hold time <72 hours?			<input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Was PM notified of discrepancies? PM: _____ By/Time: _____			<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
Bottles Received <small>"-" means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?					
	Bacti Na ₂ S ₂ O ₃	-	-					
	None (P) White Cap	-	-					
	Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW	Cl, pH > 8	Y	N				
	Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW	pH 9.3-9.7	Y	N				
	Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	Y	N				
	HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	-	-					
	H ₂ SO ₄ (P) or (AG) Yellow Cap/Label	pH < 2	Y	N				
	NaOH (P) Green Cap	Cl, pH > 10	Y	N				
	NaOH + ZnAc (P)	pH > 9	Y	N				
	Dissolved Oxygen 300ml (g)	-	-					
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	-	-					
	HCl (AG) Lt. Blue Label O&G, Diesel	-	-					
	Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525	-	-					
	Na ₂ SO ₃ 250mL (AG) Neon Green Label 515	-	-					
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	-	-					
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	-	-					
	Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547	-	-					
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	Y	N				
	NH ₄ Cl (AG) Purple Label 552	-	-					
	EDA (AG) Brown Label DBPs	-	-					
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	-	-					
	Buffer pH 4 (CG)	-	-					
	H ₃ PO ₄ (CG) Salmon Label	-	-					
	Other:							
Asbestos 1Liter Plastic w/ Foil	-	-						
Low Level Hg / Metals Double Baggie	-	-						
Bottled Water	-	-						
Clear Glass 250mL / 500mL / 1 Liter	-	-						
Soil Tube Brass / Steel / Plastic	-	-						
Tedlar Bag / Plastic Bag	-	-						
Split	Container	Preservative	Date/Time/Initials	SP	Container	Preservative	Date/Time/Initials	
	SP	NO ₃	2/23/18 1300	SP				
Comments								

Labeled by: [Signature] @ 1510

Labels checked by: [Signature] @ 1510

RUSH Paged by: _____ @ _____



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2695

3/09/2018

Invoice: A806612

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2695 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,

Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
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Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Kairos Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
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Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2695

General EDT

Lead in Schools - Kairos

Certificate of Analysis

Sample ID: A8B2695-01

Sampled By: Kelly Richardson

Sample Description: Kairos- Cafeteria Kitchen Sink

Sample Date - Time: 02/22/18 - 08:05

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	2.4	1.0	ug/L	1	A802684	02/27/18	03/07/18	



A8B2695

General EDT

Lead in Schools - Kairos

Certificate of Analysis

Sample ID: A8B2695-02

Sampled By: Kelly Richardson

Sample Description: Kairos- Kindergarten Sink/Fountain

Sample Date - Time: 02/22/18 - 08:08

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	4.3	1.0	ug/L	1	A802684	02/27/18	03/07/18	



A8B2695

General EDT

Lead in Schools - Kairos

Certificate of Analysis

Sample ID: A8B2695-03

Sampled By: Kelly Richardson

Sample Description: Kairos- Room 9 Sink/Fountain

Sample Date - Time: 02/22/18 - 08:10

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	3.3	1.0	ug/L	1	A802684	02/27/18	03/07/18	



A8B2695

General EDT

Lead in Schools - Kairos

Certificate of Analysis

Sample ID: A8B2695-04

Sampled By: Kelly Richardson

Sample Description: Kairos- Room 14 Sink/Fountain

Sample Date - Time: 02/22/18 - 08:12

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	1.4	1.0	ug/L	1	A802684	02/27/18	03/07/18	



A8B2695

General EDT

Lead in Schools - Kairos

Certificate of Analysis

Sample ID: A8B2695-05

Sampled By: Kelly Richardson

Sample Description: Kairos- Room 25 Sink/Fountain

Sample Date - Time: 02/22/18 - 08:14

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	1.2	1.0	ug/L	1	A802684	02/27/18	03/07/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802684

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802684-BLK1)

Lead	ND	1.0	ug/L							03/07/18	
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Blank Spike (A802684-BS1)

Lead	200	1.0	ug/L	200		99	85-115			03/07/18	
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Blank Spike Dup (A802684-BSD1)

Lead	200	1.0	ug/L	200		99	85-115	0	20	03/07/18	
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Matrix Spike (A802684-MS1), Source: A8B2694-02

Lead	200	1.0	ug/L	200	ND	98	70-130			03/07/18	
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Matrix Spike (A802684-MS2), Source: A8B2696-02

Lead	200	1.0	ug/L	200	2.6	98	70-130			03/07/18	
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Matrix Spike Dup (A802684-MSD1), Source: A8B2694-02

Lead	200	1.0	ug/L	200	ND	98	70-130	0	20	03/07/18	
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Matrix Spike Dup (A802684-MSD2), Source: A8B2696-02

Lead	200	1.0	ug/L	200	2.6	100	70-130	2	20	03/07/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435				
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2695



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 - Fax (559) 497-2893
 www.bskassociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

Vacav6430

 10
 V212312018

Required Fields

Company/Client Name*: **Mindy Boele** Report Attention*: **Mindy Boele** Additional c/s: **Mindy Boele**
 City of Vacaville City*: **Elmira** State*: **CA** Zip*: **95625**
 Address*: **6040 Vacca Station Road** Project #: **100** How would you like to receive your completed results? E-Mail Fax Mail
 Project: **Lead in Schools - Kairos** Regulatory Carbon Copies: SWRCB (Drinking Water) EDT to California SWRCB (Drinking Water) System Number: **4810008**
 Reporting Options: Traces (-Flag) Swamp EDD Type: _____
 Sampler Name (Printed/Signature)*: **Kelly Richards** *Kelly Richards* Merced Co Tulare Co Other: _____
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid
 Temp: **10.0** Invoice To*: **Mindy Boele** PO#: **36159** Phone*: **707-469-6430** Fax: **707-469-6493**
 E-mail*: **Mindy.boele@cityofvacaville.com**

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX	Regulatory Carbon Copies	Regulatory Compliance	SWRCB (Drinking Water)	EDT to California SWRCB (Drinking Water)	System Number	Geotracker #
		Date	Time								
1	Cafeteria Kitchen Sink	2/22/18	8:05	DW	4810008-ABB-A						
2	Kindergarten Sink/Fountain	2/22/18	8:08	DW	4810008-ABB-B						
3	Room 9 Sink/Fountain	2/22/18	8:10	DW	4810008-ABB-C						
4	Room 14 Sink/Fountain	2/22/18	8:12	DW	4810008-ABB-D						
5	Room 25 Sink/Fountain	2/22/18	8:14	DW	4810008-ABB-E						

Relinquished by: (Signature and Printed Name) **Kelly Richards** Company: **COV WQ LLS** Date: **2/22/18** Time: **0840** Received by: (Signature and Printed Name) **LS Fiske #1** Company: **COV WQ LLS**
 Relinquished by: (Signature and Printed Name) **Kelly Richards** Company: **COV WQ LLS** Date: **2/22/18** Time: **1300** Received by: (Signature and Printed Name) **W. Fiske #1** Company: **COV WQ LLS**
 Received for Lab by: (Signature and Printed Name) **Kelly Richards** Date: **2/22/18** Time: **1110** Pay/In/Received at/Deliver: **W. Fiske #1**
 Shipping Method: **CONTRAC** UPS **None** GSO **WALK-IN** FED EX **Courier**
 Cooling Method: **Wet** **Bike** **None**
 Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Technical Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassociates.com/BSKLabChainOfCustody.pdf
 Chilling Process Begun: **Y/N** **Y/N** **Y/N** **Y/N**
 Custody Seal: **Y/N** **Y/N** **Y/N** **Y/N**
 Amount: **PLA#**
 Company: **COV WQ LLS** Company: **COV WQ LLS**
 Cash: **W. Fiske #1** Cash: **W. Fiske #1**



Sample Integrity

BSK Bottles: Yes No Page (of)

COC Info		Yes	No	NA	Were correct containers and preservatives received for the tests requested?	Yes	No	NA
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		<u>Yes</u>	No	NA		<u>Yes</u>	No	NA
If samples were taken today, is there evidence that chilling has begun?		Yes	No	<u>NA</u>	Were there bubbles in the VOA vials? (Volatiles Only)	Yes	No	<u>NA</u>
Did all bottles arrive unbroken and intact?		<u>Yes</u>	No		Was a sufficient amount of sample received?	<u>Yes</u>	No	
Did all bottle labels agree with COC?		<u>Yes</u>	No		Do samples have a hold time <72 hours?	Yes	<u>No</u>	
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		Yes	No	<u>NA</u>	Was PM notified of discrepancies? PM: _____ By/Time: _____	Yes	No	<u>NA</u>
250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)		Checks	Passed?					
Bacti $\text{Na}_2\text{S}_2\text{O}_3$		—	—					
None (P) White Cap		—	—					
Cr6 (P) Lt. Green Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW		Cl, pH > 8	Y	N				
Cr6 (P) Pink Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ WW		pH 9.3-9.7	Y	N				
Cr6 (P) Black Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5	Y	N				
HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label		—	—					
H ₂ SO ₄ (P) or (AG) Yellow Cap/Label		pH < 2	Y	N				
NaOH (P) Green Cap		Cl, pH > 10	Y	N				
NaOH + ZnAc (P)		pH > 9	Y	N				
Dissolved Oxygen 300ml (g)		—	—					
None (AG) 608/6081/8082, 625, 632/8321, 8151, 8270		—	—					
HCl (AG) Lt. Blue Label O&G, Diesel		—	—					
Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525		—	—					
Na ₂ SO ₃ 250mL (AG) Neon Green Label 515		—	—					
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		—	—					
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524		—	—					
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547		—	—					
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531		pH < 3	Y	N				
NH ₄ Cl (AG) Purple Label 552		—	—					
EDA (AG) Brown Label DBPs		—	—					
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—	—					
Buffer pH 4 (CG)		—	—					
H ₃ PO ₄ (CG) Salmon Label		—	—					
Other:								
Asbestos 1Liter Plastic w/ Foil		—	—					
Low Level Hg / Metals Double Baggie		—	—					
Bottled Water		—	—					
Clear Glass 250mL / 500mL / 1 Liter		—	—					
Soil Tube Brass / Steel / Plastic		—	—					
Tedlar Bag / Plastic Bag		—	—					
Split	Container	Preservative	Date/Time/Initials		Container	Preservative	Date/Time/Initials	
	<u>SP</u>	<u>LP</u>	<u>NO³</u>	<u>2/23/18 1300</u>	<u>SP</u>			
Comments								

Labeled by: SL @ 1430 Labels checked by: [Signature] @ 1550 RUSH Paged by: _____ @ _____



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2686

3/09/2018

Invoice: A806604

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2686 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,



Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
----------------------------	-----------------

Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Markham Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
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Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
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Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2686

General EDT

Lead in Schools - Markham

Certificate of Analysis

Sample ID: A8B2686-01

Sampled By: Kurtis Westbrook

Sample Description: Markham- Cafeteria Kitchen Sink

Sample Date - Time: 02/20/18 - 09:35

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	6.0	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2686

General EDT

Lead in Schools - Markham

Certificate of Analysis

Sample ID: A8B2686-02

Sampled By: Kurtis Westbrook

Sample Description: Markham- Room 2 Sink/Fountain

Sample Date - Time: 02/20/18 - 09:40

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	4.1	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2686

General EDT

Lead in Schools - Markham

Certificate of Analysis

Sample ID: A8B2686-03

Sampled By: Kurtis Westbrook

Sample Description: Markham- Room 14 Sink/Fountain

Sample Date - Time: 02/20/18 - 09:38

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	4.5	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2686

General EDT

Lead in Schools - Markham

Certificate of Analysis

Sample ID: A8B2686-04

Sampled By: Kurtis Westbrook

Sample Description: Markham- Room 28 Sink/Fountain

Sample Date - Time: 02/20/18 - 09:43

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	3.3	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2686

General EDT

Lead in Schools - Markham

Certificate of Analysis

Sample ID: A8B2686-05

Sampled By: Kurtis Westbrook

Sample Description: Markham- 4 Plex Hallway Sink/Fountain

Sample Date - Time: 02/20/18 - 09:45

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	1.0	1.0	ug/L	1	A802683	02/27/18	03/07/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802682

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802682-BLK1)

Lead	ND	1.0	ug/L							03/07/18	
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Blank Spike (A802682-BS1)

Lead	200	1.0	ug/L	200		102	85-115			03/07/18	
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Blank Spike Dup (A802682-BSD1)

Lead	200	1.0	ug/L	200		101	85-115	1	20	03/07/18	
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Matrix Spike (A802682-MS1), Source: A8B2678-05

Lead	200	1.0	ug/L	200	ND	100	70-130			03/07/18	
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Matrix Spike (A802682-MS2), Source: A8B2683-02

Lead	200	1.0	ug/L	200	ND	98	70-130			03/07/18	
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Matrix Spike Dup (A802682-MSD1), Source: A8B2678-05

Lead	200	1.0	ug/L	200	ND	100	70-130	0	20	03/07/18	
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Matrix Spike Dup (A802682-MSD2), Source: A8B2683-02

Lead	200	1.0	ug/L	200	ND	100	70-130	2	20	03/07/18	
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EPA 200.8 - Quality Control

Batch: A802683

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802683-BLK1)

Lead	ND	1.0	ug/L							03/07/18	
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Blank Spike (A802683-BS1)

Lead	210	1.0	ug/L	200		104	85-115			03/07/18	
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Blank Spike Dup (A802683-BSD1)

Lead	210	1.0	ug/L	200		104	85-115	0	20	03/07/18	
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Matrix Spike (A802683-MS1), Source: A8B2686-02

Lead	200	1.0	ug/L	200	4.1	100	70-130			03/07/18	
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Matrix Spike (A802683-MS2), Source: A8B2690-02

Lead	210	1.0	ug/L	200	3.2	101	70-130			03/07/18	
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Matrix Spike Dup (A802683-MSD1), Source: A8B2686-02

Lead	200	1.0	ug/L	200	4.1	100	70-130	1	20	03/07/18	
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Matrix Spike Dup (A802683-MSD2), Source: A8B2690-02

Lead	210	1.0	ug/L	200	3.2	102	70-130	1	20	03/07/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK’s sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method , all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435				
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2686



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bs&kassociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed: 10/23/18

A8B2686
 V&C&V6430

 02/23/2018
 10

Required Fields

Company/Client Name*: **City of Vacaville** Report Attention*: **Mindy Boele** Phone*: **707-469-6430** Fax: **707-469-6493**
 Additional cc's: **Mindy Boele** City*: **Elmira** State*: **CA** Zip*: **95625**
 Address*: **6040 Vaca Station Road** Project #: **Lead in Schools - Markham** How would you like to receive your completed results?:
 E-Mail Fax Mail
 Reporting Options: Trace (J-Flag) Swamp EDD Type: _____ Regulatory Carbon Copies: SWRCB (Drinking Water) EDT to California SWRCB (Drinking Water)
 Merced Co Fresno Co System Number*: **4810003**
 Madera Co Tulare Co
 Sampler Name (Printed/Signature)*: **Kurtis Westbrook / Kurtis Westbrook** Other: _____ Geotracer #: _____
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX
		Date	Time		
1	Cafeteria Kitchen Sink	2/20/18	9:35	DW	4810008-AAF-A / 20200
2	Room 2 Sink/Fountain	2/20/18	9:40	DW	4810008-AAF-B / 20200
3	Room 14 Sink/Fountain	2/20/18	9:38	DW	4810008-AAF-C / 20200
4	Room 28 Sink/Fountain	2/20/18	9:43	DW	4810008-AAF-D / 20200
5	4 Plex Hallway Sink/Fountain	2/20/18	9:45	DW	4810008-AAF-E / 20200

Requisitioned by: (Signature and Printed Name) **Kurtis Westbrook** Company **COVICAL** Date **2/20/18** Time **10:24** Received by: (Signature and Printed Name) **Lab Fridge #2**
 Requisitioned by: (Signature and Printed Name) **Kurtis Westbrook** Company **COVICAL** Date **2/20/18** Time **1:50** Received by: (Signature and Printed Name) **Michelle Wolff**
 Received for Lab by: (Signature and Printed Name) **Kurtis Westbrook** Date **2/20/18** Time **1:50** Payment Received at Delivery: **Michelle Wolff**
 Shipping Method: **ONTRAC** UPS **GSO** WALK-IN **FED EX** Count: _____
 Cooling Method: **WET** **Blue** Name _____
 Custody Seal: **Y/N** Chilling Process Begun: **Y/N** Amount: _____
 Company **COVICAL** Check **BS&K** Cash **COVICAL**

Payment for services rendered as noted hereafter due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BS&K's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to be responsible for payment for the services on this chain of custody, and agrees to BS&K's terms and conditions for laboratory services unless contractually bound otherwise. BS&K's current terms and conditions can be found at www.bs&kassociates.com/bs&k/lab/termconditions.pdf

Sample Integrity



BSK Bottles: Yes No Page (of)

COC Info		Yes	No	NA	Were correct containers and preservatives received for the tests requested?		Yes	No	NA
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		<u>Yes</u>	No	NA			<u>Yes</u>	No	NA
If samples were taken today, is there evidence that chilling has begun?		Yes	No	<u>NA</u>	Were there bubbles in the VOA vials? (Volatiles Only)		Yes	No	<u>NA</u>
Did all bottles arrive unbroken and intact?		<u>Yes</u>	No		Was a sufficient amount of sample received?		<u>Yes</u>	No	
Did all bottle labels agree with COC?		<u>Yes</u>	No		Do samples have a hold time <72 hours?		Yes	No	<u>No</u>
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		Yes	No	<u>NA</u>	Was PM notified of discrepancies? PM: _____ By/Time: _____		Yes	No	<u>NA</u>
250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)		Checks	Passed?		1-5				
Bacti Na ₂ S ₂ O ₃		—	—						
None (P) White Cap		—	—						
Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW		Cl, pH > 8	Y	N					
Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW		pH 9.3-9.7	Y	N					
Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5	Y	N					
HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label		—	—		10				
H ₂ SO ₄ (P) or (AG) Yellow Cap/Label		pH < 2	Y	N					
NaOH (P) Green Cap		Cl, pH > 10	Y	N					
NaOH + ZnAc (P)		pH > 9	Y	N					
Dissolved Oxygen 300ml (g)		—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		—	—						
HCl (AG) Lt. Blue Label O&G, Diesel		—	—						
Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525		—	—						
Na ₂ SO ₃ 250mL (AG) Neon Green Label 515		—	—						
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		—	—						
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524		—	—						
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547		—	—						
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531		pH < 3	Y	N					
NH ₄ Cl (AG) Purple Label 552		—	—						
EDA (AG) Brown Label DBPs		—	—						
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—	—						
Buffer pH 4 (CG)		—	—						
H ₃ PO ₄ (CG) Salmon Label		—	—						
Other:									
Asbestos 1Liter Plastic w/ Foil		—	—						
Low Level Hg / Metals Double Baggie		—	—						
Bottled Water		—	—						
Clear Glass 250mL / 500mL / 1 Liter		—	—						
Soil Tube Brass / Steel / Plastic		—	—						
Tedlar Bag / Plastic Bag		—	—						
Split	Container	Preservative	Date/Time/Initials	SP	Container	Preservative	Date/Time/Initials		
	S P	HNO ₃	2/23/18 1300	S P					
Comments									

Labeled by: SL/STO @ 1570 Labels checked by: [Signature] @ 1550 RUSH Paged by: _____ @ _____



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2690

3/09/2018

Invoice: A806607

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2690 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,



Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
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Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Orchard Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
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Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2690

General EDT

Lead in Schools - Orchard

Certificate of Analysis

Sample ID: A8B2690-01

Sampled By: Kurtis Westbrook

Sample Description: Orchard- Cafeteria Kitchen Sink

Sample Date - Time: 02/20/18 - 08:10

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	10	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2690

General EDT

Lead in Schools - Orchard

Certificate of Analysis

Sample ID: A8B2690-02

Sampled By: Kurtis Westbrook

Sample Description: MP Room Drinking Fountain

Sample Date - Time: 02/20/18 - 08:09

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	3.2	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2690

General EDT

Lead in Schools - Orchard

Certificate of Analysis

Sample ID: A8B2690-03

Sampled By: Kurtis Westbrook

Sample Description: Kindergarten Sink/Fountain

Sample Date - Time: 02/20/18 - 08:12

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	3.1	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2690

General EDT

Lead in Schools - Orchard

Certificate of Analysis

Sample ID: A8B2690-04

Sampled By: Kurtis Westbrook

Sample Description: Breezeway Drinking Fountain

Sample Date - Time: 02/20/18 - 08:14

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	3.3	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2690

General EDT

Lead in Schools - Orchard

Certificate of Analysis

Sample ID: A8B2690-05

Sampled By: Kurtis Westbrook

Sample Description: Room 9 Sink/Fountain

Sample Date - Time: 02/20/18 - 08:16

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	2.6	1.0	ug/L	1	A802683	02/27/18	03/07/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802683

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802683-BLK1)

Lead	ND	1.0	ug/L							03/07/18	
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Blank Spike (A802683-BS1)

Lead	210	1.0	ug/L	200		104	85-115			03/07/18	
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Blank Spike Dup (A802683-BSD1)

Lead	210	1.0	ug/L	200		104	85-115	0	20	03/07/18	
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Matrix Spike (A802683-MS1), Source: A8B2686-02

Lead	200	1.0	ug/L	200	4.1	100	70-130			03/07/18	
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Matrix Spike (A802683-MS2), Source: A8B2690-02

Lead	210	1.0	ug/L	200	3.2	101	70-130			03/07/18	
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Matrix Spike Dup (A802683-MSD1), Source: A8B2686-02

Lead	200	1.0	ug/L	200	4.1	100	70-130	1	20	03/07/18	
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Matrix Spike Dup (A802683-MSD2), Source: A8B2690-02

Lead	210	1.0	ug/L	200	3.2	102	70-130	1	20	03/07/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
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- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method , all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters: ****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2690



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bs&kassociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

A8B2690
 Vacav6430

 02/23/2018
 10

*Required Fields

Temp: #46 D.D

Phone: 707-469-6430 Fax: 707-469-6493

Company/Client Name: City of Vacaville
 Report Attention: Mindy Boele
 Additional ccs: Invoice To: Mindy Boele
 PO#: 36159
 State: CA Zip: 95625
 E-mail: Mindy.boele@cityofvacaville.com

Address: 6040 Vaca Station Road
 City: Elmira
 State: CA Zip: 95625

Project: Lead in Schools - Orchard
 Project #:

Reporting Options:
 Trace (L-Flag) Swamp EDD Type: _____
 SWRCB (Drinking Water) Fresno Co
 Madera Co Tulare Co
 Geotracker #: _____
 EDT to California SWRCB (Drinking Water)
 System Number: 4810008

Sampler Name (Printed/Signature):
 Kurtis Westbrook
 Matrix Types: SW=Surface Water BW=Boiled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX	Lead
		Date	Time			
1	Cafeteria Kitchen Sink	2/20/18	8:10	DW	4810008-ABC-A	X
2	MP Room Drinking Fountain	2/20/18	8:09	DW	4810008-ABC-B	X
3	Kindergarten Sink/Fountain	2/20/18	8:12	DW	4810008-ABC-C	X
4	Brezeeway Drinking Fountain	2/20/18	8:14	DW	4810008-ABC-D	X
5	Room 9 Sink/Fountain	2/20/18	8:16	DW	4810008-ABC-E	X

Requisitioned by: (Signature and Printed Name)
 Kurtis Westbrook Kurtis Westbrook
 Company: COVQA
 Date: 2/20/18
 Time: 10:29
 Received by: (Signature and Printed Name)
 L.S. Fridise #2
 Company: COVQA
 Date: 2/21/18
 Time: 13:52
 Received by: (Signature and Printed Name)
 M. Smith
 Company: BS&K
 Date: 2/23/18
 Time: 11:00
 Received by: (Signature and Printed Name)
 M. Smith
 Company: BS&K
 Date: 2/23/18
 Time: 11:00

Shipping Method: UPS
 Cooling Method: Wet
 Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BS&K's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BS&K's terms and conditions for laboratory services unless contractually bound otherwise. BS&K's current terms and conditions can be found at www.bs&kassociates.com/BS&KLabTermsConditions.pdf

Sample Integrity



BSK Bottles: Yes No Page (of)

COC Info		Yes		No		NA		Yes		No		NA	
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		Were correct containers and preservatives received for the tests requested?		<input checked="" type="checkbox"/>		<input type="checkbox"/>	
If samples were taken today, is there evidence that chilling has begun?		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>		Were there bubbles in the VOA vials? (Volatiles Only)		<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Did all bottles arrive unbroken and intact?		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		Was a sufficient amount of sample received?		<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Did all bottle labels agree with COC?		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		Do samples have a hold time <72 hours?		<input checked="" type="checkbox"/>		<input type="checkbox"/>	
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>		Was PM notified of discrepancies? PM: _____ By/Time: _____		<input checked="" type="checkbox"/>		<input type="checkbox"/>	
250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)		Checks		Passed?		L5							
Bacti Na ₂ S ₂ O ₃		—		—									
None (P) White Cap		—		—									
Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW		Cl, pH > 8		Y N									
Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW		pH 9.3-9.7		Y N									
Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5		Y N									
HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label		—		—		1C							
H ₂ SO ₄ (P) or (AG) Yellow Cap/Label		pH < 2		Y N									
NaOH (P) Green Cap		Cl, pH > 10		Y N									
NaOH + ZnAc (P)		pH > 9		Y N									
Dissolved Oxygen 300ml (g)		—		—									
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		—		—									
HCl (AG) Lt. Blue Label O&G, Diesel		—		—									
Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525		—		—									
Na ₂ SO ₃ 250ml (AG) Neon Green Label 515		—		—									
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		—		—									
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524		—		—									
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547		—		—									
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531		pH < 3		Y N									
NH ₄ Cl (AG) Purple Label 552		—		—									
EDA (AG) Brown Label DBPs		—		—									
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624		—		—									
Buffer pH 4 (CG)		—		—									
H ₃ PO ₄ (CG) Salmon Label		—		—									
Other:													
Asbestos 1Liter Plastic w/ Foil		—		—									
Low Level Hg / Metals Double Baggie		—		—									
Bottled Water		—		—									
Clear Glass 250mL / 500mL / 1 Liter		—		—									
Soil Tube Brass / Steel / Plastic		—		—									
Tedlar Bag / Plastic Bag		—		—									
Split	Container	Preservative	Date/Time/Initials	SP	Container	Preservative	Date/Time/Initials						
	SP	LP	NNO	2/23/18 1300	SP								
Comments													

Labeled by: GL @ MB Labels checked by: [Signature] @ ISSO RUSH Paged by: [Signature] @



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2694

3/09/2018

Invoice: A806610

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2694 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,



Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
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Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Padan Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2694

General EDT

Lead in Schools - Padan

Certificate of Analysis

Sample ID: A8B2694-01
Sampled By: Kelly Richardson
Sample Description: Padan- Cafeteria Kitchen Sink

Sample Date - Time: 02/22/18 - 07:42
Matrix: Drinking Water
Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	4.3	1.0	ug/L	1	A802683	02/27/18	03/07/18	



A8B2694

General EDT

Lead in Schools - Padan

Certificate of Analysis

Sample ID: A8B2694-02

Sampled By: Kelly Richardson

Sample Description: Padan- Nurses Office Sink

Sample Date - Time: 02/22/18 - 07:44

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802684	02/27/18	03/07/18	



A8B2694

General EDT

Lead in Schools - Padan

Certificate of Analysis

Sample ID: A8B2694-03

Sampled By: Kelly Richardson

Sample Description: Padan- Room 5 Sink/Fountain

Sample Date - Time: 02/22/18 - 07:48

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	4.0	1.0	ug/L	1	A802684	02/27/18	03/07/18	



A8B2694

General EDT

Lead in Schools - Padan

Certificate of Analysis

Sample ID: A8B2694-04

Sampled By: Kelly Richardson

Sample Description: Padan- Room 17 Sink/Fountain

Sample Date - Time: 02/22/18 - 07:46

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802684	02/27/18	03/07/18	



A8B2694

General EDT

Lead in Schools - Padan

Certificate of Analysis

Sample ID: A8B2694-05

Sampled By: Kelly Richardson

Sample Description: Padan- Room 63 Sink/Fountain

Sample Date - Time: 02/22/18 - 07:51

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802684	02/27/18	03/07/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802683

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802683-BLK1)

Lead	ND	1.0	ug/L							03/07/18	
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Blank Spike (A802683-BS1)

Lead	210	1.0	ug/L	200		104	85-115			03/07/18	
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Blank Spike Dup (A802683-BSD1)

Lead	210	1.0	ug/L	200		104	85-115	0	20	03/07/18	
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Matrix Spike (A802683-MS1), Source: A8B2686-02

Lead	200	1.0	ug/L	200	4.1	100	70-130			03/07/18	
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Matrix Spike (A802683-MS2), Source: A8B2690-02

Lead	210	1.0	ug/L	200	3.2	101	70-130			03/07/18	
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Matrix Spike Dup (A802683-MSD1), Source: A8B2686-02

Lead	200	1.0	ug/L	200	4.1	100	70-130	1	20	03/07/18	
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Matrix Spike Dup (A802683-MSD2), Source: A8B2690-02

Lead	210	1.0	ug/L	200	3.2	102	70-130	1	20	03/07/18	
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EPA 200.8 - Quality Control

Batch: A802684

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802684-BLK1)

Lead	ND	1.0	ug/L							03/07/18	
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Blank Spike (A802684-BS1)

Lead	200	1.0	ug/L	200		99	85-115			03/07/18	
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Blank Spike Dup (A802684-BSD1)

Lead	200	1.0	ug/L	200		99	85-115	0	20	03/07/18	
------	-----	-----	------	-----	--	----	--------	---	----	----------	--

Matrix Spike (A802684-MS1), Source: A8B2694-02

Lead	200	1.0	ug/L	200	ND	98	70-130			03/07/18	
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Matrix Spike (A802684-MS2), Source: A8B2696-02

Lead	200	1.0	ug/L	200	2.6	98	70-130			03/07/18	
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Matrix Spike Dup (A802684-MSD1), Source: A8B2694-02

Lead	200	1.0	ug/L	200	ND	98	70-130	0	20	03/07/18	
------	-----	-----	------	-----	----	----	--------	---	----	----------	--

Matrix Spike Dup (A802684-MSD2), Source: A8B2696-02

Lead	200	1.0	ug/L	200	2.6	100	70-130	2	20	03/07/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters:

NA

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2694



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bs&kassociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed: 2/23/18

ARB2694
 Vacav6430

 02/23/2018
 10

Required Fields

Company/Client Name*: Mindy Boeile Report Attention*: Mindy Boeile Invoice To*: Mindy Boeile Phone*: 707-469-6430 Fax: 707-469-6493
 City of Vacaville Additional ccs: 36159 City*: Elmira State*: CA Zip*: 95625 Email*: Mindy.boeile@cityofvacaville.com

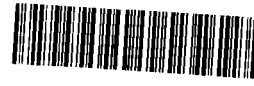
Address*: 6040 Vacca Station Road Project #: Lead in Schools - Padan
 Reporting Options: Trace (J-Flag) Swamp EDD Type: Regulatory Carbon Copies
 SWRCB (Drinking Water) Merced Co Fresno Co
 Madera Co Tulare Co Other: Geotracker #:
 EDI to California SWRCB (Drinking Water) System Number* 4810008
 How would you like to receive your completed results? E-Mail Fax Mail

Sampler Name (Printed/Signature)*: Kelly Richards
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid
 Matrix: DW Comments / Station Code / WTRAX: 6040

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX	Received by: (Signature and Printed Name)	Company
		Date	Time				
1	Cafeteria Kitchen Sink	2/22/18	7:42	DW	6040	<u>L. B. Franks #1</u>	COV W2 LLC
2	Nurses Office Sink	2/22/18	7:44	DW	6040	<u>L. B. Franks #1</u>	COV W2 LLC
3	Room 5 Sink/Fountain	2/22/18	7:48	DW	6040	<u>L. B. Franks #1</u>	COV W2 LLC
4	Room 17 Sink/Fountain	2/22/18	7:46	DW	6040	<u>L. B. Franks #1</u>	COV W2 LLC
5	Room 63 Sink/Fountain	2/22/18	7:51	DW	6040	<u>L. B. Franks #1</u>	COV W2 LLC

Reinquested by: (Signature and Printed Name) Kelly Richards Company: COV W2 LLC
 Reinstigated by: (Signature and Printed Name) Bob Franks #2 Company: COV W2 LLC
 Received for Lab by: (Signature and Printed Name) [Signature] Date: 2/23/18 Time: 13:52
 Shipping Method: ONTRAC UPS None GSO WALK-IN FED EX Courier
 Cooling Method: Wet Blug None
 Custody Seal: Y/N Y/N Y/N Y/N
 Chilling Process Begun: Y/N Y/N Y/N Y/N
 Amount: Y/N PIA#: Y/N
 Company: COV W2 LLC Check: Y/N Cash: Y/N

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bs&kassociates.com/BSKLabTermsConditions.pdf



Sample Integrity

BSK Bottles: Yes No Page (of)

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$			Were correct containers and preservatives received for the tests requested?				
		<u>Yes</u>	No	NA		<u>Yes</u>	No	NA
		Yes	No	<u>NA</u>		Yes	No	<u>NA</u>
		<u>Yes</u>	No			<u>Yes</u>	No	
		<u>Yes</u>	No			<u>Yes</u>	No	<u>NA</u>
Bottles Received	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)			Checks	Passed?			
	Bacti Na ₂ S ₂ O ₃			—	—	15		
None (P) White Cap			—	—				
Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW			Cl, pH > 8	Y	N			
Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW			pH 9.3-9.7	Y	N			
Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***			pH 9.0-9.5	Y	N			
HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label			—	—	10			
H ₂ SO ₄ (P) or (AG) Yellow Cap/Label			pH < 2	Y	N			
NaOH (P) Green Cap			Cl, pH > 10	Y	N			
NaOH + ZnAc (P)			pH > 9	Y	N			
Dissolved Oxygen 300ml (g)			—	—				
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270			—	—				
HCl (AG) Lt. Blue Label O&G, Diesel			—	—				
Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525			—	—				
Na ₂ SO ₃ 250mL (AG) Neon Green Label 515			—	—				
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549			—	—				
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524			—	—				
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547			—	—				
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531			pH < 3	Y	N			
NH ₄ Cl (AG) Purple Label 552			—	—				
EDA (AG) Brown Label DBPs			—	—				
HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624			—	—				
Buffer pH 4 (CG)			—	—				
H ₃ PO ₄ (CG) Salmon Label			—	—				
Other:								
Asbestos 1Liter Plastic w/ Foil			—	—				
Low Level Hg / Metals Double Baggie			—	—				
Bottled Water			—	—				
Clear Glass 250mL / 500mL / 1 Liter			—	—				
Soil Tube Brass / Steel / Plastic			—	—				
Tedlar Bag / Plastic Bag			—	—				
Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials		
	S P S P	LP	HNO ₃ 2/23/18 1300	S P S P				
Comments								

Labeled by: SL 1430 @ Labels checked by: ew 1550 @ RUSH Paged by: _____ @



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2628

3/09/2018

Invoice: A806589

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2628 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,



Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
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Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Sierra Vista Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2628

General EDT

Lead in Schools - Sierra Vista

Certificate of Analysis

Sample ID: A8B2628-01

Sampled By: Kurtis Westbrook

Sample Description: Sierra Vista- Cafeteria Kitchen Sink

Sample Date - Time: 02/21/18 - 09:36

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	2.5	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2628

General EDT

Lead in Schools - Sierra Vista

Certificate of Analysis

Sample ID: A8B2628-02

Sampled By: Kurtis Westbrook

Sample Description: Room 2 Sink/Fountain

Sample Date - Time: 02/20/18 - 09:25

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	5.8	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2628

General EDT

Lead in Schools - Sierra Vista

Certificate of Analysis

Sample ID: A8B2628-03

Sampled By: Kurtis Westbrook

Sample Description: Room 10 Sink/Fountain

Sample Date - Time: 02/20/18 - 09:30

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	2.0	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2628

General EDT

Lead in Schools - Sierra Vista

Certificate of Analysis

Sample ID: A8B2628-04

Sampled By: Kurtis Westbrook

Sample Description: Room 13 Sink/Fountain

Sample Date - Time: 02/20/18 - 09:28

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802669	02/27/18	03/06/18	



A8B2628

General EDT

Lead in Schools - Sierra Vista

Certificate of Analysis

Sample ID: A8B2628-05

Sampled By: Kurtis Westbrook

Sample Description: Room 27 Sink/Fountain

Sample Date - Time: 02/20/18 - 09:33

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802669	02/27/18	03/06/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802669

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802669-BLK1)

Lead	ND	1.0	ug/L							03/06/18	
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Blank Spike (A802669-BS1)

Lead	190	1.0	ug/L	200		94	85-115			03/06/18	
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Blank Spike Dup (A802669-BSD1)

Lead	190	1.0	ug/L	200		94	85-115	1	20	03/06/18	
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Matrix Spike (A802669-MS1), Source: A8B2539-03

Lead	190	1.0	ug/L	200	ND	95	70-130			03/06/18	
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Matrix Spike (A802669-MS2), Source: A8B2628-03

Lead	190	1.0	ug/L	200	2.0	95	70-130			03/06/18	
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Matrix Spike Dup (A802669-MSD1), Source: A8B2539-03

Lead	180	1.0	ug/L	200	ND	92	70-130	4	20	03/06/18	
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Matrix Spike Dup (A802669-MSD2), Source: A8B2628-03

Lead	190	1.0	ug/L	200	2.0	94	70-130	1	20	03/06/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters: **NA**

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2628



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 - Fax (559) 497-2893
 www.bsksociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

A8B2628
 Vaca6430

 02/25/2018
 10
 C

Required Fields

Temp: #46 10.0

Company/Client Name*:
 City of Vacaville

Report Attention*:
 Mindy Boele
 Additional c/s:
 City*:
 Elmira
 State*:
 CA
 Zip*:
 95625

Phone*:
 707-469-6430
 Fax:
 707-469-6493
 E-mail*:
 Mindy.boele@cityofvacaville.com

Address*:
 6040 Vaca Station Road

City*:
 Elmira

State*:
 CA
 Zip*:
 95625

Project:
 Lead in Schools - Sierra Vista

Project #:

How would you like to receive your completed results*?
 E-Mail
 Fax
 Mail

Reporting Options:
 Traces (J-Flag)
 Swamp
 EDD Type: _____

Regulatory Carton Copies
 SWRCB (Drinking Water)
 Merced Co
 Madera Co
 Other: _____

Regulatory Compliance
 EDT to California SWRCB (Drinking Water)
 System Number*: 4810008
 Geotracker #: _____

Sampler Name (Printed/Signature)*:
Mindy Boele

Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water WW=Waste Water STW=Storm Water DW=Drinking Water SO=Solid

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX	Received by: (Signature and Printed Name)	Date	Time	Received by: (Signature and Printed Name)	Date	Time	Payment Received at Delivery	Amount:	PL#:	Company	Check	Cash
		Date	Time														
1	Cafeteria Kitchen Sink	1/23/18	9:26	DW	4810008-ABD-A / 95625	<i>Mindy Boele</i>	1/23/18	9:26	<i>Mindy Boele</i>	1/23/18	9:26						
2	Room 2 Sink/Fountain	1/23/18	9:26	DW	4810008-ABD-B / 95625	<i>Mindy Boele</i>	1/23/18	9:26	<i>Mindy Boele</i>	1/23/18	9:26						
3	Room 10 Sink/Fountain	1/23/18	9:26	DW	4810008-ABD-C / 95625	<i>Mindy Boele</i>	1/23/18	9:26	<i>Mindy Boele</i>	1/23/18	9:26						
4	Room 13 Sink/Fountain	1/23/18	9:26	DW	4810008-ABD-D / 95625	<i>Mindy Boele</i>	1/23/18	9:26	<i>Mindy Boele</i>	1/23/18	9:26						
5	Room 27 Sink/Fountain	1/23/18	9:26	DW	4810008-ABD-E / 95625	<i>Mindy Boele</i>	1/23/18	9:26	<i>Mindy Boele</i>	1/23/18	9:26						

Reinquished by: (Signature and Printed Name)
 Reinquished by: (Signature and Printed Name)
 Received for Lab by: (Signature and Printed Name)
 Shipping Method: ONTRAC Blue UPS None GSO WALK-IN FED EX Courier: _____

Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BS&K's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BS&K's terms and conditions for laboratory services unless contractually bound otherwise. BS&K's current terms and conditions can be found at www.bsksociates.com/BSKLabChainOfCustody.pdf



Sample Integrity

BSK Bottles: Yes No Page (of)

COC Info		Yes	No	NA	Were correct containers and preservatives received for the tests requested?		Yes	No	NA
Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$		<u>Yes</u>	No	NA			<u>Yes</u>	No	NA
If samples were taken today, is there evidence that chilling has begun?		Yes	No	<u>NA</u>	Were there bubbles in the VOA vials? (Volatiles Only)		Yes	No	<u>NA</u>
Did all bottles arrive unbroken and intact?		<u>Yes</u>	No		Was a sufficient amount of sample received?		<u>Yes</u>	No	
Did all bottle labels agree with COC?		<u>Yes</u>	No		Do samples have a hold time <72 hours?		Yes	No	<u>No</u>
Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?		Yes	No	<u>NA</u>	Was PM notified of discrepancies? PM: _____ By/Time: _____		Yes	No	<u>NA</u>
250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)		Checks	Passed?		1-5				
Bacti $\text{Na}_2\text{S}_2\text{O}_3$		—	—						
None (P) White Cap		—	—						
Cr6 (P) Lt. Green Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ DW		Cl, pH > 8	Y	N					
Cr6 (P) Pink Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ WW		pH 9.3-9.7	Y	N					
Cr6 (P) Black Label/Blue Cap $\text{NH}_4\text{OH}(\text{NH}_4)_2\text{SO}_4$ 7199 ***24 HOUR HOLD TIME***		pH 9.0-9.5	Y	N					
HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label		—	—		10				
H ₂ SO ₄ (P) or (AG) Yellow Cap/Label		pH < 2	Y	N					
NaOH (P) Green Cap		Cl, pH >10	Y	N					
NaOH + ZnAc (P)		pH > 9	Y	N					
Dissolved Oxygen 300ml (g)		—	—						
None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270		—	—						
HCl (AG) Lt. Blue Label O&G, Diesel		—	—						
Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525		—	—						
Na ₂ SO ₃ 250mL (AG) Neon Green Label 515		—	—						
Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549		—	—						
Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524		—	—						
Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547		—	—						
Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531		pH < 3	Y	N					
NH ₄ Cl (AG) Purple Label 552		—	—						
EDA (AG) Brown Label DBPs		—	—						
HCL (CG) 524.2.BTEX, Gas, MTBE, 8260/624		—	—						
Buffer pH 4 (CG)		—	—						
H ₃ PO ₄ (CG) Salmon Label		—	—						
Other:									
Asbestos 1Liter Plastic w/ Foil		—	—						
Low Level Hg / Metals Double Baggie		—	—						
Bottled Water		—	—						
Clear Glass 250mL / 500mL / 1 Liter		—	—						
Soil Tube Brass / Steel / Plastic		—	—						
Tedlar Bag / Plastic Bag		—	—						
Split	Container	Preservative	Date/Time/Initials	SL	Container	Preservative	Date/Time/Initials		
	S P S P	LP LP	NNO ^s NNO ^s	2/23/18 1300	S P S P				
Comments	<p>SL @ 1448</p> <p>Labels checked by: [Signature] @ 1550</p> <p>RUSH Paged by: _____ @ _____</p>								

Labeled by: SL @ 1448 Labels checked by: [Signature] @ 1550 RUSH Paged by: _____ @ _____



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2681

3/09/2018

Invoice: A806597

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2681 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,



Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
----------------------------	-----------------

Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Vacaville High School Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------

Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2681

General EDT

Lead in Schools - Vacaville High School

Certificate of Analysis

Sample ID: A8B2681-01

Sampled By: Kurtis Westbrook

Sample Description: Vacaville High School- Cafeteria Kitchen Sink

Sample Date - Time: 02/20/18 - 07:38

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2681

General EDT

Lead in Schools - Vacaville High School

Certificate of Analysis

Sample ID: A8B2681-02

Sampled By: Kurtis Westbrook

Sample Description: Vacaville High School- Nurses Office Sink

Sample Date - Time: 02/20/18 - 07:23

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2681

General EDT

Lead in Schools - Vacaville High School

Certificate of Analysis

Sample ID: A8B2681-03

Sampled By: Kurtis Westbrook

Sample Description: Wrestling Gym Drinking Fountain

Sample Date - Time: 02/20/18 - 07:30

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	5.7	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2681

General EDT

Lead in Schools - Vacaville High School

Certificate of Analysis

Sample ID: A8B2681-04

Sampled By: Kurtis Westbrook

Sample Description: Main Gym Drinking Fountain

Sample Date - Time: 02/20/18 - 07:36

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2681

General EDT

Lead in Schools - Vacaville High School

Certificate of Analysis

Sample ID: A8B2681-05

Sampled By: Kurtis Westbrook

Sample Description: Room 30 Drinking Fountain

Sample Date - Time: 02/20/18 - 07:26

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802682	02/27/18	03/07/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802682

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802682-BLK1)

Lead	ND	1.0	ug/L							03/07/18	
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Blank Spike (A802682-BS1)

Lead	200	1.0	ug/L	200		102	85-115			03/07/18	
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Blank Spike Dup (A802682-BSD1)

Lead	200	1.0	ug/L	200		101	85-115	1	20	03/07/18	
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Matrix Spike (A802682-MS1), Source: A8B2678-05

Lead	200	1.0	ug/L	200	ND	100	70-130			03/07/18	
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Matrix Spike (A802682-MS2), Source: A8B2683-02

Lead	200	1.0	ug/L	200	ND	98	70-130			03/07/18	
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Matrix Spike Dup (A802682-MSD1), Source: A8B2678-05

Lead	200	1.0	ug/L	200	ND	100	70-130	0	20	03/07/18	
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Matrix Spike Dup (A802682-MSD2), Source: A8B2683-02

Lead	200	1.0	ug/L	200	ND	100	70-130	2	20	03/07/18	
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Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method , all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters: ****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435				
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2681



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP



Printed: 2/23/2018 4:38:51PM

Page 1 of 1

Page 10 of 12



1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bskassociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

A8B2681
 Yacav6430

 02/23/2018
 10

Required Fields

Company/Client Name: **Report Attention:** Mindy Boele
 City of Vacaville Additional c/s:
 Invoice To: Mindy Boele
 PO#: 36159
 State: CA ZIP: 95625
 Phone: 707-469-6430 Fax: 707-469-6493
 E-mail: Mindy.boele@cityofvacaville.com

Address: 6040 Vacca Station Road
 City: Elmira
 State: CA ZIP: 95625

Project: Lead in Schools - Vacaville High School
 Project #:
 Regulatory Carbon Copies
 SWRCB (Drinking Water)
 Merced Co
 Madera Co
 Fresno Co
 Tulare Co
 Other:
 How would you like to receive your completed results?
 E-Mail Fax Mail
 Regulatory Compliance
 EDT to California SWRCB (Drinking Water)
 System Number: 4810008
 Geotracker #: _____

Reporting Options:
 Trace (J-Flag) Swamp EDD Type: _____
 Sampler Name (Printed/Signature): Kurtis Westbrook / Kurtis Westbrook
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water VW=Vase Water STW=Storm Water DW=Drinking Water SO=Solid
 Matrix: _____

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / WTRAX
		Date	Time		
1	Cafeteria Kitchen Sink	2/20/18	7:38	DW	4810008-ABF-A
2	Nurses Office Sink	2/20/18	1:23	DW	4810008-ABF-B
3	Wrestling Gym Drinking Fountain	2/20/18	1:23	DW	4810008-ABF-C
4	Main Gym Drinking Fountain	2/20/18	1:36	DW	4810008-ABF-D
5	Room 30 Drinking Fountain	2/20/18	7:26	DW	4810008-ABF-E

Reinquired by: (Signature and Printed Name) Kurtis Westbrook Kurtis Westbrook Company: COVWAL
 Received by: (Signature and Printed Name) Lab Facility #2
 Date: 2/21/18 Time: 10:29
 Payment Received at Delivery: [Signature] V.A. Smith
 Date: 2/21/18 Time: 11:00
 Shipping Method: OKTRACK Blue UPS Name: [Signature]
 Cooling Method: [Signature]
 Custody Seal: Y/N [Signature]
 Chilling Process Begun: Y/N [Signature]
 Payment for services rendered as noted herein are due in full within 30 days from the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BSK's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client, or an authorized agent to the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BSK's terms and conditions for laboratory services unless contractually bound otherwise. BSK's current terms and conditions can be found at www.bskassoc.com/BSKLabFormConditions.pdf



Sample Integrity

BSK Bottles: Yes No Page (of)

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$			Were correct containers and preservatives received for the tests requested?			
		Yes	No	NA	Yes	No	NA
	If samples were taken today, is there evidence that chilling has begun?			Were there bubbles in the VOA vials? (Volatiles Only)			
	Yes	No	NA	Yes	No	NA	
	Did all bottles arrive unbroken and intact?			Was a sufficient amount of sample received?			
	Yes	No		Yes	No		
	Did all bottle labels agree with COC?			Do samples have a hold time <72 hours?			
	Yes	No		Yes	No		
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?			Was PM notified of discrepancies? PM: _____ By/Time: _____			
	Yes	No	NA	Yes	No	NA	
Bottles Received <small>"-" means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?	1-5			
	Bacti Na ₂ S ₂ O ₃	-	-				
	None (P) White Cap	-	-				
	Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW	Cl, pH > 8	Y	N			
	Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW	pH 9.3-9.7	Y	N			
	Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	Y	N			
	HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	-	-				
	H ₂ SO ₄ (P) or (AG) Yellow Cap/Label	pH < 2	Y	N			
	NaOH (P) Green Cap	Cl, pH > 10	Y	N			
	NaOH + ZnAc (P)	pH > 9	Y	N			
	Dissolved Oxygen 300ml (g)	-	-				
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	-	-				
	HCl (AG) Lt. Blue Label O&G, Diesel	-	-				
	Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525	-	-				
	Na ₂ SO ₃ 250mL (AG) Neon Green Label 515	-	-				
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	-	-				
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	-	-				
	Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547	-	-				
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	Y	N			
	NH ₄ Cl (AG) Purple Label 552	-	-				
	EDA (AG) Brown Label DBPs	-	-				
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	-	-				
	Buffer pH 4 (CG)	-	-				
	H ₃ PO ₄ (CG) Salmon Label	-	-				
	Other:						
	Asbestos 1Liter Plastic w/ Foil	-	-				
	Low Level Hg / Metals Double Baggie	-	-				
	Bottled Water	-	-				
Clear Glass 250mL / 500mL / 1 Liter	-	-					
Soil Tube Brass / Steel / Plastic	-	-					
Tedlar Bag / Plastic Bag	-	-					
Split	Container	Preservative	Date/Time/Initials	SL	Container	Preservative	Date/Time/Initials
	SP LP	NNO	2/23/18 1300	SL	SP		
Comments							

Labeled by: SL @ 1500 Labels checked by: SL @ 1500 RUSH Paged by: _____ @ _____



BSK Associates Laboratory Fresno
 1414 Stanislaus St
 Fresno, CA 93706
 559-497-2888 (Main)
 559-485-6935 (FAX)

A8B2679

3/09/2018

Invoice: A806595

Mindy Boele
 City of Vacaville - Easterly WWTP
 6040 Vaca Station Road
 Elmira, CA 95625

RE: Report for A8B2679 General EDT

Dear Mindy Boele,

Thank you for using BSK Associates for your analytical testing needs. In the following pages, you will find the test results for the samples submitted to our laboratory on 2/23/2018. The results have been approved for release by our Laboratory Director as indicated by the authorizing signature below.

The samples were analyzed for the test(s) indicated on the Chain of Custody (see attached) and the results relate only to the samples analyzed. BSK certifies that the testing was performed in accordance with the quality system requirements specified in the 2009 TNI Standard. Any deviations from this standard or from the method requirements for each test procedure performed will be annotated alongside the analytical result or noted in the Case Narrative. Unless otherwise noted, the sample results are reported on an "as received" basis.

This certificate of analysis shall not be reproduced except in full, without written approval of the laboratory.

If additional clarification of any information is required, please contact your Project Manager, Heather S. White, at 559-497-2888.

Thank you again for using BSK Associates. We value your business and appreciate your loyalty.

Sincerely,



Heather S. White, Project Manager



Accredited in Accordance with NELAP
 ORELAP #4021-009

Case Narrative

Project and Report Details	Invoice Details
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Client: City of Vacaville - Easterly WWTP Report To: Mindy Boele Project #: Lead in Schools - Vaca Pena Received: 2/23/2018 - 11:00 Report Due: 3/09/2018	Invoice To: City of Vacaville - Easterly WWTP Invoice Attn: Christine Quesada Project PO#: 36159
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Sample Receipt Conditions

Cooler: Default Cooler Temperature on Receipt °C: 10.0	Containers Intact COC/Labels Agree Received On Wet Ice Packing Material - Bubble Wrap Sample(s) were received in temperature range. Sample(s) preserved after receipt at lab. Initial receipt at BSK-SAC
-------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Data Qualifiers

The following qualifiers have been applied to one or more analytical results:

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Mindy Boele	FINAL.RPT	
Mindy Boele	WRITEON.RPT	
City of Vacaville Lab	FINAL.RPT	
City of Vacaville Lab	WRITEON.RPT	
Jo Jacobsen	FINAL.RPT	



A8B2679

General EDT

Lead in Schools - Vaca Pena

Certificate of Analysis

Sample ID: A8B2679-01

Sampled By: Kurtis Westbrook

Sample Description: Vaca Pena- Cafeteria Kitchen Sink

Sample Date - Time: 02/21/18 - 07:23

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	1.6	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2679

General EDT

Lead in Schools - Vaca Pena

Certificate of Analysis

Sample ID: A8B2679-02

Sampled By: Kurtis Westbrook

Sample Description: MP Room Drinking Fountain by Office Courtyard

Sample Date - Time: 02/21/18 - 07:25

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802748	03/01/18	03/06/18	



A8B2679

General EDT

Lead in Schools - Vaca Pena

Certificate of Analysis

Sample ID: A8B2679-03

Sampled By: Kurtis Westbrook

Sample Description: MP Room Drinking Fountain by Staff Courtyard

Sample Date - Time: 02/21/18 - 07:28

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	1.4	1.0	ug/L	1	A802748	03/01/18	03/06/18	



A8B2679

General EDT

Lead in Schools - Vaca Pena

Certificate of Analysis

Sample ID: A8B2679-04

Sampled By: Kurtis Westbrook

Sample Description: Media Hallway Drinking Foutain by Front Office

Sample Date - Time: 02/21/18 - 07:35

Matrix: Drinking Water

Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	3.9	1.0	ug/L	1	A802682	02/27/18	03/07/18	



A8B2679

General EDT

Lead in Schools - Vaca Pena

Certificate of Analysis

Sample ID: A8B2679-05
Sampled By: Kurtis Westbrook
Sample Description: Room 23 Sink

Sample Date - Time: 02/21/18 - 07:32
Matrix: Drinking Water
Sample Type: Grab

BSK Associates Laboratory Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	1.0	ug/L	1	A802682	02/27/18	03/07/18	

**BSK Associates Laboratory Fresno
Metals Quality Control Report**

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
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EPA 200.8 - Quality Control

Batch: A802682

Prepared: 2/27/2018

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: MAS

Blank (A802682-BLK1)

Lead ND 1.0 ug/L 03/07/18

Blank Spike (A802682-BS1)

Lead 200 1.0 ug/L 200 102 85-115 03/07/18

Blank Spike Dup (A802682-BSD1)

Lead 200 1.0 ug/L 200 101 85-115 1 20 03/07/18

Matrix Spike (A802682-MS1), Source: A8B2678-05

Lead 200 1.0 ug/L 200 ND 100 70-130 03/07/18

Matrix Spike (A802682-MS2), Source: A8B2683-02

Lead 200 1.0 ug/L 200 ND 98 70-130 03/07/18

Matrix Spike Dup (A802682-MSD1), Source: A8B2678-05

Lead 200 1.0 ug/L 200 ND 100 70-130 0 20 03/07/18

Matrix Spike Dup (A802682-MSD2), Source: A8B2683-02

Lead 200 1.0 ug/L 200 ND 100 70-130 2 20 03/07/18

EPA 200.8 - Quality Control

Batch: A802748

Prepared: 3/1/2018

Prep Method: EPA 200.2

Analyst: MAS

Blank (A802748-BLK1)

Lead ND 1.0 ug/L 03/06/18

Blank Spike (A802748-BS1)

Lead 190 1.0 ug/L 200 97 85-115 03/06/18

Blank Spike Dup (A802748-BSD1)

Lead 200 1.0 ug/L 200 99 85-115 2 20 03/06/18

Matrix Spike (A802748-MS1), Source: A8B2882-01

Lead 200 1.0 ug/L 200 ND 99 70-130 03/06/18

Matrix Spike (A802748-MS2), Source: A8B2929-01

Lead 190 1.0 ug/L 200 ND 95 70-130 03/06/18

Matrix Spike Dup (A802748-MSD1), Source: A8B2882-01

Lead 190 1.0 ug/L 200 ND 97 70-130 2 20 03/06/18

Matrix Spike Dup (A802748-MSD2), Source: A8B2929-01

Lead 190 1.0 ug/L 200 ND 95 70-130 0 20 03/06/18

Certificate of Analysis

Notes:

- The Chain of Custody document and Sample Integrity Sheet are part of the analytical report.
- Any remaining sample(s) for testing will be disposed of according to BSK's sample retention policy unless other arrangements are made in advance.
- All positive results for EPA Methods 504.1 and 524.2 require the analysis of a Field Reagent Blank (FRB) to confirm that the results are not a contamination error from field sampling steps. If Field Reagent Blanks were not submitted with the samples, this method requirement has not been performed.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- J-value is equivalent to DNQ (Detected, not quantified) which is a trace value. A trace value is an analyte detected between the MDL and the laboratory reporting limit. This result is of an unknown data quality and is only qualitative (estimated). Baseline noise, calibration curve extrapolation below the lowest calibrator, method blank detections, and integration artifacts can all produce apparent DNQ values, which contribute to the un-reliability of these values.
- (1) - Residual chlorine and pH analysis have a 15 minute holding time for both drinking and waste water samples as defined by the EPA and 40 CFR 136. Waste water and ground water (monitoring well) samples must be field filtered to meet the 15 minute holding time for dissolved metals.
- Summations of analytes (i.e. Total Trihalomethanes) may appear to add individual amounts incorrectly, due to rounding of analyte values occurring before or after the total value is calculated, as well as rounding of the total value.
- RL Multiplier is the factor used to adjust the reporting limit (RL) due to variations in sample preparation procedures and dilutions required for matrix interferences.
- Due to the subjective nature of the Threshold Odor Method, all characterizations of the detected odor are the opinion of the panel of analysts. The characterizations can be found in Standard Methods 2170B Figure 2170:1.
- The MCLs provided in this report (if applicable) represent the primary MCLs for that analyte.

Definitions

mg/L:	Milligrams/Liter (ppm)	MDL:	Method Detection Limit	MDA95:	Min. Detected Activity
mg/Kg:	Milligrams/Kilogram (ppm)	RL:	Reporting Limit: DL x Dilution	MPN:	Most Probable Number
µg/L:	Micrograms/Liter (ppb)	ND:	None Detected at RL	CFU:	Colony Forming Unit
µg/Kg:	Micrograms/Kilogram (ppb)	pCi/L:	PicoCuries per Liter	Absent:	Less than 1 CFU/100mLs
%:	Percent	RL Mult:	RL Multiplier	Present:	1 or more CFU/100mLs
NR:	Non-Reportable	MCL:	Maximum Contaminant Limit		

Please see the individual Subcontract Lab's report for applicable certifications.

BSK is not accredited under the NELAP program for the following parameters:

****NA****

Certifications: Please refer to our website for a copy of our Accredited Fields of Testing under each certification.

Fresno

EPA - UCMR4	CA00079	NELAP certified	4021-010	State of California - ELAP	1180
State of Hawaii	4021	State of Nevada	CA000792018-1	State of New York	12073
State of Oregon - NELAP	4021-010	State of Washington	C997-17b		

Sacramento

State of California - ELAP	2435				
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San Bernardino

NELAP certified	4119-002	State of California - ELAP	2993	State of Oregon - NELAP	4119-002
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Vancouver

NELAP certified	WA100008-010	State of Oregon - NELAP	WA100008-010	State of Washington	C824-17
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A8B2679



02232018

Vacav6430

Turnaround: Standard

Due Date: 3/9/2018



City of Vacaville - Easterly WWTP





1414 Stanislaus St., Fresno, CA 93706
 (559) 497-2888 · Fax (559) 497-2893
 www.bs&kassociates.com

Turnaround Time Request
 Standard - 10 business days
 Rush (Surcharge may apply)
 Date needed:

A8B2679
 Vacav6430
 02/23/2018
 10

Required Fields

Temp: #46 10.0

Company/Client Name*: **City of Vacaville** Report Attention*: **Mindy Boele** Invoice To*: **Mindy Boele** Phone*: **707-469-6430** Fax: **707-469-6493**
 Address*: **6040 Vacca Station Road** City*: **Elmira** State*: **CA** ZIP*: **95625** PO#: **36159** E-mail*: **Mindy.boele@cityofvacaville.com**

Project: **Lead in Schools - Vacca Pena** Project #: _____
 Reporting Options: Trace (L-Flag) Swamp EDD Type: _____
 Regulatory Carbon Copies: SWRCB (Drinking Water) Merced Co Madera Co Tulare Co
 Regulatory Compliance: EDT to California SWRCB (Drinking Water) System Number*: 4810008
 How would you like to receive your completed results?: E-Mail Fax Mail
 Matrix Types: SW=Surface Water BW=Bottled Water GW=Ground Water STW=Storm Water DW=Drinking Water SO=Solid
 Geotracker #: _____

#	Sample Description*	Sampled*		Matrix*	Comments / Station Code / W/TRAX
		Date	Time		
1	Cafeteria Kitchen Sink	2/23	7:23	DW	4810008-ABE-A / 30110
2	MP Room Drinking Fountain by Office Courtyard	2/25	7:25	DW	4810008-ABE-B / 30110
3	MP Room Drinking Fountain by Staff Courtyard	2/25	7:25	DW	4810008-ABE-C / 30110
4	Media Hallway Drinking Fountain by Front Office	2/25	7:25	DW	4810008-ABE-D / 30110
5	Room 23 Sink	2/25	7:52	DW	4810008-ABE-E / 30110

Requisitioned by: (Signature and Printed Name) _____ Company _____ Date _____ Time _____
 Requisitioned by: (Signature and Printed Name) *Brian Sucka* Company *COURT 2* Date *2/21/18* Time *1:52*
 Received for Lab by: (Signature and Printed Name) _____ Date _____ Time _____
 Received by: (Signature and Printed Name) *Y. N. ...* Date _____ Time _____
 Received by: (Signature and Printed Name) *Y. N. ...* Date _____ Time _____
 Payment Received at Delivery: _____ Date _____
 Shipping Method: ONTRAC Blue UPS None GSO WALK-IN FED EX Courier: _____
 Cooling Method: V/let Blue None
 Chilling Process Begun: Y N
 Custody Seal: Y N
 Amount: _____ P/L#:
 Company Check Int Cash

Payment for services rendered as noted herein, regardless of when the date invoiced. If not so paid, account balances are deemed delinquent. Delinquent balances are subject to monthly service charges and interest specified in BS&K's current Standard Terms and Conditions for Laboratory Services. The person signing for the Client/Company acknowledges that they are either the Client or an authorized agent of the Client, that the Client agrees to be responsible for payment for the services on this Chain of Custody, and agrees to BS&K's terms and conditions for laboratory services unless contractually bound otherwise. BS&K's current terms and conditions can be found at www.bs&kassociates.com/BS&KLabFormConditions.pdf

Sample Integrity



BSK Bottles: Yes No Page (of)

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 8^{\circ}\text{C}$	Yes No NA	Were correct containers and preservatives received for the tests requested?	Yes No NA		
	If samples were taken today, is there evidence that chilling has begun?	Yes No <u>NA</u>	Were there bubbles in the VOA vials? (Volatiles Only)	Yes No <u>NA</u>		
	Did all bottles arrive unbroken and intact?	<u>Yes</u> No	Was a sufficient amount of sample received?	<u>Yes</u> No		
	Did all bottle labels agree with COC?	<u>Yes</u> No	Do samples have a hold time <72 hours?	Yes <u>No</u>		
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No <u>NA</u>	Was PM notified of discrepancies? PM: _____ By/Time: _____	Yes No <u>NA</u>		
Bottles Received <small>"_" means preservation/chlorine checks are either N/A or are performed in the lab</small>	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks Passed?				
	Bacti Na ₂ S ₂ O ₃	— —				
	None (P) White Cap	— —				
	Cr6 (P) Lt. Green Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ DW	Cl, pH > 8	Y N			
	Cr6 (P) Pink Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ WW	pH 9.3-9.7	Y N			
	Cr6 (P) Black Label/Blue Cap NH ₄ OH(NH ₄) ₂ SO ₄ 7199 ***24 HOUR HOLD TIME***	pH 9.0-9.5	Y N			
	HNO ₃ (P) Red Cap or HCl (P) Purple Cap/Lt. Blue Label	— —				
	H ₂ SO ₄ (P) or (AG) Yellow Cap/Label	pH < 2	Y N			
	NaOH (P) Green Cap	Cl, pH > 10	Y N			
	NaOH + ZnAc (P)	pH > 9	Y N			
	Dissolved Oxygen 300ml (g)	— —				
	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	— —				
	HCl (AG) Lt. Blue Label O&G, Diesel	— —				
	Ascorbic, EDTA, KH ₂ Ct (AG) Pink Label 525	— —				
	Na ₂ SO ₃ 250mL (AG) Neon Green Label 515	— —				
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549	— —				
	Na ₂ S ₂ O ₃ (AG) Blue Label 548, THM, 524	— —				
	Na ₂ S ₂ O ₃ (CG) Blue Label 504, 505, 547	— —				
	Na ₂ S ₂ O ₃ + MCAA (CG) Orange Label 531	pH < 3	Y N			
	NH ₄ Cl (AG) Purple Label 552	— —				
	EDA (AG) Brown Label DBPs	— —				
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	— —				
	Buffer pH 4 (CG)	— —				
	H ₃ PO ₄ (CG) Salmon Label	— —				
	Other:					
Asbestos 1Liter Plastic w/ Foil	— —					
Low Level Hg / Metals Double Baggie	— —					
Bottled Water	— —					
Clear Glass 250mL / 500mL / 1 Liter	— —					
Soil Tube Brass / Steel / Plastic	— —					
Tedlar Bag / Plastic Bag	— —					
Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials
	<u>SP</u> <u>LP</u>	<u>NO₂</u>	<u>2/23/18 1300</u>	<u>SP</u>		
Comments						

Labeled by: SL/507 @ _____ Labels checked by: [Signature] @ 1550 RUSH Paged by: _____ @ _____