



A2L1322

01/03/2013

Sophie James
California Water Service Company
1720 North First Street
San Jose, CA 95112

Dear Sophie James,

Thank you for selecting BSK Associates for your analytical testing needs. We have prepared this report in response to your request for analytical services. Enclosed are the results of analyses for samples received by the laboratory on 12/17/2012 15:05.

If additional clarification of any information is required, please contact your Client Services Representative, Renea Rangell at (800) 877-8310 or (559) 497-2888.

BSK ASSOCIATES

A handwritten signature in cursive script that reads "Renea Rangell". The signature is written in black ink and is positioned above a horizontal line.

Renea Rangell
Client Services Manager



01/03/2013

Case Narrative

Work Order Information

Client Name: California Water Service Company	Submitted by: Matt Nena
Client Code: Calif8314	Shipped by: Walk-In
Work Order: A2L1322	COC Number:
Project: General-Non EDT	TAT: 10
Client Project: Monson	PO #: 30-53259

Sample Receipt Conditions

Cooler: Default Cooler	Temp. °C: 2.1
Containers Intact	
COC/Labels Agree	
Received On Blue Ice	
Sample(s) arrived at lab on same day sampled.	
Packing Material - Other	
Initial receipt at BSK-FAL	

Report Manager

Steve Johnson
Matt Nena

Report Format

Final.rpt
Final.rpt



Certificate of Analysis

Sophie James
 California Water Service Company
 1720 North First Street
 San Jose, CA 95112

Report Issue Date: 01/03/2013 16:06
Received Date: 12/17/2012
Received Time: 15:05

Lab Sample ID: A2L1322-01
Sample Date: 12/17/2012 12:19
Sample Type: Grab

Client Project: Monson
Sampled by: Matt Nena
Matrix: Drinking Water

Sample Description: 38660 Monson Post Treatment

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Nitrate as NO3	EPA 300.0	3.1	1.0	mg/L	1	A214153	12/18/12 01:30	12/18/12 01:30	



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Report Issue Date: 01/03/2013 16:06
Received Date: 12/17/2012
Received Time: 15:05

Lab Sample ID: A2L1322-02
Sample Date: 12/17/2012 12:47
Sample Type: Grab

Client Project: Monson
Sampled by: Matt Nena
Matrix: Drinking Water

Sample Description: 38734 Monson Post Treatment

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Nitrate as NO3	EPA 300.0	16	1.0	mg/L	1	A214153	12/18/12 01:40	12/18/12 01:40	



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Report Issue Date: 01/03/2013 16:06
Received Date: 12/17/2012
Received Time: 15:05

Lab Sample ID: A2L1322-03
Sample Date: 12/17/2012 13:08
Sample Type: Grab

Client Project: Monson
Sampled by: Matt Nena
Matrix: Drinking Water

Sample Description: 10524 Ave 388 Post Treatment

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Nitrate as NO3	EPA 300.0	28	1.0	mg/L	1	A214153	12/18/12 01:49	12/18/12 01:49	



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Report Issue Date: 01/03/2013 16:06
Received Date: 12/17/2012
Received Time: 15:05

Lab Sample ID: A2L1322-04
Sample Date: 12/17/2012 13:27
Sample Type: Grab

Client Project: Monson
Sampled by: Matt Nena
Matrix: Drinking Water

Sample Description: 83785 Campbell Post Treatment

General Chemistry

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Nitrate as NO3	EPA 300.0	18	1.0	mg/L	1	A214153	12/18/12 01:58	12/18/12 01:58	



General Chemistry Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	Limits	RPD	Limit	Date Analyzed	Qual
Batch: A214153				Analyst: AJT			Prepared: 12/17/2012				
Blank (A214153-BLK1) EPA 300.0 - Quality Control											
Nitrate as NO3	ND	1.0	mg/L							12/17/12	B2.0
Blank Spike (A214153-BS1) EPA 300.0 - Quality Control											
Nitrate as NO3	49	1.0	mg/L	50		98	90-110			12/17/12	
Blank Spike Dup (A214153-BSD1) EPA 300.0 - Quality Control											
Nitrate as NO3	49	1.0	mg/L	50		97	90-110	1	20	12/17/12	
Matrix Spike (A214153-MS1) EPA 300.0 - Quality Control											
						Source: A2L1320-01					
Nitrate as NO3	120	2.0	mg/L	100	21	99	80-120			12/17/12	
Matrix Spike (A214153-MS2) EPA 300.0 - Quality Control											
						Source: A2L1322-04					
Nitrate as NO3	120	2.0	mg/L	100	18	98	80-120			12/18/12	
Matrix Spike Dup (A214153-MSD1) EPA 300.0 - Quality Control											
						Source: A2L1320-01					
Nitrate as NO3	120	2.0	mg/L	100	21	101	80-120	1	20	12/17/12	
Matrix Spike Dup (A214153-MSD2) EPA 300.0 - Quality Control											
						Source: A2L1322-04					
Nitrate as NO3	120	2.0	mg/L	100	18	100	80-120	2	20	12/18/12	



Certificate of Analysis

01/03/2013

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 one month from the final report date unless other arrangements are made in advance.
- Sample(s) received, prepared, and analyzed within the method specified criteria unless otherwise noted within this report.
- The results relate only to the samples analyzed in accordance with test(s) requested by the client on the Chain of Custody document. Any analytical quality control exceptions to method criteria that are to be considered when evaluating these results have been flagged and are defined in the data qualifiers section.
- All results are expressed on wet weight basis unless otherwise specified.
- All positive results for EPA Methods 504.1, 502.2, 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.
- Results contained in this analytical report must be reproduced in its entirety.
- Samples collected by BSK Analytical Laboratories were collected in accordance with the BSK Sampling and Collection Standard Operating Procedures.
- BSK Analytical Laboratories certifies that the test results contained in this report meet all requirements of the NELAC Standards for applicable certified drinking water chemistry analyses unless qualified or noted in the Case Narrative.
- Analytical data contained in this report may be used for regulatory purposes to meet the requirements of the Federal or State drinking water, wastewater, and hazardous waste programs.
- 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.
- * - This is not a NELAP accredited analyte.
- 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.
- (2) The digestion used to produce this result deviated from EPA 200.2 by excluding hydrochloric acid in order to produce acceptable recoveries for affected metals.
- (2C) Result reported from secondary analytical column.
- 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.

Certifications:

State of California - CDPH - ELAP	1180
State of California - CDPH - SAC ELAP	2435
State of California - CDPH - NELAP	04227CA
State of Nevada - NDEP	CA000792009A
State of Hawaii - DOH	04227CA

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

Definitions and Flags for Data Qualifiers

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

B2.0 Analyte present in the method blank above the method detection limit (MDL). Laboratory does not determine batch acceptance on detections below the reporting limit (RL).

A2L1322



California Water Service Company

Calif8314



12172012

Turnaround: Standard

Due Date: 1/4/2013



Sample Integrity

BSK Bottles: Yes No Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$			Were correct containers and preservatives received for the tests requested?		
		2.1	<u>Yes</u> No NA	<u>Yes</u> No NA		
COC Info	If samples were taken today, is there evidence that chilling has begun?			Were there bubbles in the VOA vials? (Volatiles Only)		
			<u>Yes</u> No NA	Yes No <u>NA</u>		
COC Info	Did all bottles arrive unbroken and intact?			Was a sufficient amount of sample received?		
			<u>Yes</u> No	<u>Yes</u> No		
COC Info	Did all bottle labels agree with COC?			Do samples have a hold time <72 hours?		
			<u>Yes</u> No	<u>Yes</u> No		
COC Info	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?			Was PM notified of discrepancies?		
			Yes No <u>NA</u>	Yes No <u>NA</u>	PM:	By/Time:
Bottles Received	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)			Checks	Passed?	1-4
	Bacti $\text{Na}_2\text{S}_2\text{O}_3$			—	—	
Bottles Received	None (P) ^{White Cap}			—	—	1A
	Cr6 Buffer (P) ^{Blue Cap}			pH 9-9.5	Y N	
Bottles Received	HNO ₃ (P) ^{Red Cap}			—	—	
	H ₂ SO ₄ (P) ^{Yellow Cap}			pH < 2	Y N	
Bottles Received	NaOH (P) ^{Green Cap}			Cl, pH > 12	Y N	
	NaOH + ZnAc (P)			pH > 9	Y N	
Bottles Received	Dissolved Oxygen 300ml (g)			—	—	PH
	None (AG) 608/6081/8082, 625, 632/8321, 8151, 8270			—	—	PH, PH
Bottles Received	H ₂ SO ₄ (AG) ^{Yellow Label} O&G, Diesel			—	—	
	Na ₂ S ₂ O ₃ 1 Liter (Brown P) 549			—	—	
Bottles Received	Na ₂ S ₂ O ₃ (AG) ^{Blue Label} 547, 515, 525, 548			—	—	
	Na ₂ S ₂ O ₃ (AG) ^{Blue Label} THMs 524.2 or 524.3			—	—	
Bottles Received	Na ₂ S ₂ O ₃ (CG) ^{Blue Label} 504, 505			—	—	
	Na ₂ S ₂ O ₃ + MCAA (CG) ^{Orange Label} 531			pH = 3	Y N	
Bottles Received	NH ₄ Cl (AG) ^{Purple Label} 552			—	—	
	EDA (AG) ^{Brown Label} DBPs			—	—	
Bottles Received	Ascorbic + Maleic (AG) ^{Lt Green Label} 524.3			—	—	
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624			—	—	
Bottles Received	Buffer pH 4 (CG)			—	—	
	None (CG)			—	—	
Bottles Received	H ₃ PO ₄ (CG) ^{Salmon Label}			—	—	
	Other:			—	—	
Bottles Received	Asbestos 1Liter Plastic w/ Foil			—	—	
	Low Level Hg / Metals Double Baggie			—	—	
Bottles Received	Bottled Water			—	—	
	Clear Glass Jar: 250 / 500 / 1 Liter			—	—	
Bottles Received	Soil Tube Brass / Steel / Plastic			—	—	
	Tedlar Bag / Plastic Bag			—	—	
Split	Container	Preservative	Date/Time/Initials	Container	Preservative	Date/Time/Initials
	S P			S P		
Comments						