

Engineering + Environmental

November 22, 2016

Jeremy Miller Maintenance Manager Department of Administrative Services Enterprise Asset Management Division 1225 Ferry Street SE Salem, Oregon 97301

Via email: Jeremy.W.MILLER@oregon.gov

Regarding: Drinking Water Sampling for Lead Garden Pride Building 155 Waverly Street NE Salem, Oregon 97301 PBS Project #: 25103.003 Phase 0008

Dear Mr. Miller:

On October 11, 2016, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at the Garden Pride Building located at155 Waverly Street NE in Salem, Oregon. The testing was requested by State of Oregon Department of Administrative Services in an effort to ensure that concentrations of lead in drinking water remain below the EPA action level.

Sampling methodology and the interpretation of laboratory results were based on the EPA Lead and Copper Rule (LCR). Following LCR sampling guidelines, PBS collected the first 1000 milliliters (mL) of water from each test location (first draw) early in the morning following an overnight stagnation period. The LCR's stagnation period, and sampling protocol specifying the first 1000 mL samples, is designed to maximize the likelihood that the highest concentrations of lead are identified in water used for consumption. At each sample location, immediately following first draw sampling, a flush sample was collected after the water had been allowed to run for 30 seconds.

The water sampling process was supervised by a certified industrial hygienist (CIH) who is also an Oregon Health Authority certified lead risk assessor.

The action level set by the EPA for lead is 15 parts per billion (ppb). If the action level is exceeded in more than 10 percent of taps sampled, then action must be taken to control plumbing-material corrosion.

One first draw and one flush drinking water samples were collected and delivered under chain of custody to BSK Laboratories in Vancouver, Washington for lead analysis. Only the first draw sample was analyzed. If the first draw sample had exceeded the EPA action level for lead, its associated flush sample would have been analyzed.

The lead concentration in the first draw sample was undetectable, indicating that this drinking water sample contained lead at a concentration below the EPA action level of 15 ppb.

The following table presents all first draw sample locations and lead concentrations in ppb.

Drinking Water Sampling for Lead, Department of Administrative Services Garden Pride Building November 22, 2016 Page 2 of 2

First Draw Drinking Water Sample Location and Lead Concentra	tion
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Sample Number	Sample Location	Lead Concentration (ppb)
WF-GP-001-FD	Water fountain, garage area adjacent to meeting and lunch room	ND

ND: None Detected

Please refer to the attached Chain of Custody form and laboratory data for greater details. It should be noted that quality control (QC) sample results are included at the end of laboratory information. The QC samples are both laboratory blanks and spiked samples used internally by the laboratory to assess accuracy.

Please feel free to contact me at 503.417.7602 or derek.may@pbsenv.com with any questions or comments.

Sincerely, PBS Engineering and Environmental Inc.

S. Durl Hay

Derek May, Principal

Attachments: Laboratory Results Chain of Custody Form

DM::bmp

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



Derek May **PBS Environmental** 4412 SW Corbett Ave Portland, OR 97239

RE: Report for A6J1822 Oregon DAS - Lead

Dear Derek May,

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 10/13/2016. 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.

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

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

Sincerely,

Debra Karlsson, Project Coordinator



Accredited in Accordance with NELAP **ORELAP #4021**



A6J1822 Oregon DAS - Lead

Case Narrative

Project and	Report Details	Invoice Details							
Client:	PBS Environmental	Invoice To: PBS Environmental							
Report To:	Derek May	Invoice Attn: Accounts Payable							
Project #:	Garden Pride #25103.00	3 PH 8 Project PO#: -							
Received:	10/13/2016 - 09:00								
Report Due:	10/27/2016								
Sample Red	ceipt Conditions								
Cooler: Defa	ault Cooler	Containers Intact							
Temperature of	on Receipt °C: 20.2	COC/Labels Agree							
		Received with no thermal preservation.							
		Sample(s) split after receipt at the laboratory. Initial receipt at BSK-VAL							
Data Quali	fiers								
The following	g qualifiers have been ap	blied to one or more analytical results:							
None applie	d								
Report Dis	tribution								

Recipient(s)	Report Format	CC:
Derek May	FINAL.RPT	



Certificate of Analysis

Sample ID: A6J1822-01SampleSampled By:ClientSample Description: WF-GP-001-FD // Water fountain garage area adjacent to
meeting and lunch roomSample

BSK Associates Fresno

Metals

Sample Date - Time: 10/11/16 - 00:00 Matrix: Drinking Water Sample Type: First Draw

					RL				
Analyte	Method	Result	RL	Units	Mult	Batch	Prepared	Analyzed Qu	ual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614384	10/19/16	10/19/16	



BSK Associates Fresno Metals Quality Control Report

			<u> </u>	Spike	Source		%REC		RPD	Date	
Analyte	Result	RL	Units	Level	Result	%REC	Limits	RPD	Limit	Analyzed	Qual
		EPA 20	00.8 - Q	uality Co	ntrol						
Batch: A614384 Prep Method: EPA 200.2										•	10/19/2016 alyst: GNG
Blank (A614384-BLK1) Lead	ND	0.0010	mg/L							10/19/16	
Leau	ND	0.0010	mg/∟							10/19/10	
Blank Spike (A614384-BS1) Lead	0.098	0.0010	mg/L	0.10		98	85-115			10/19/16	
Blank Spike Dup (A614384-BSD1)											
Lead	0.098	0.0010	mg/L	0.10		98	85-115	0	20	10/19/16	
Matrix Spike (A614384-MS1), Source:	A6J1785-21										
Lead	0.20	0.0020	mg/L	0.20	0.0029	101	70-130			10/19/16	
Matrix Spike (A614384-MS2), Source:	A6J1750-01										
Lead	0.20	0.0020	mg/L	0.20	ND	100	70-130			10/19/16	
Matrix Spike Dup (A614384-MSD1), So	ource: A6J1785-21										
Lead	0.20	0.0020	mg/L	0.20	0.0029	99	70-130	1	20	10/19/16	
Matrix Spike Dup (A614384-MSD2), So	ource: A6J1750-01										
Lead	0.20	0.0020	mg/L	0.20	ND	102	70-130	2	20	10/19/16	



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 Recovered (surrogates)	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			
State of California - ELAP	1180	State of Hawaii	4021
State of Nevada	CA000792016-1	State of Oregon - NELAP	4021
EPA - UCMR3	CA00079	State of Washington	C997-16
Sacramento			
State of California - ELAP	2435		
San Bernardino			
State of California - ELAP	2993	State of Oregon - NELAP	4119-001
Vancouver			
State of Oregon - NELAP	WA100008-008	State of Washington	C824-16

	PBS	Engineering + Environmental	A6J1822 PBSEN19	939	10/13/2016 10 LEAD IN DRINKING WATER TESTING PROGRAM
					25103.003
	FACILITY NAI	ME: GARDEN PR	-DG		PROJECT #:
		EQUESTED: <u>Lead (PB) in Drink</u> <u>Copper (Cu) in Dr</u>		IN IN	DATE: DIULIB
Di	0	VSIGNATURE: Mike Gol YSIGNATURE: MARCH LTS TO: derek.may Ppbe	Jen / W Aangel Serv.com	l	DATE/TIME: 10/2/16 1700 DATE/TIME: 10/13/16 0900 TURN AROUND TIME: 7-10 days
			SAMPLE	DATA FC	RM
	LAB	SAMPLE#	BUILDING	ROOM	LOCATION IN ROOM
	l	WF-G.P-001-FD .			Water Fountain, Elarage Area,
	2	WF- 619-002-FL			Adjacent to Meeting & Lunch 200M

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Was sodium thiosulfate addet to CN sample(s) Yes No NA Was PM notified of discrepancies? Yes 250ml(A) 500ml(B) 1Lter(C) 40ml VOA(V) Checks Passe? PM: ByTime: ByTime:<	Info			oday, is there evide	ence	Yes No (NA	Were there bubble (Volatiles Only)						Yes-	No (NA)
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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 — — Container Preservative Date/Time/Initials Container S P			(CG) Saliton Caber			· · · ·		7. 1. 1	1		27 - 24 - 24 - 24 - 24 - 24 - 24	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	10.00		
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PBSEN1939



PBS Environmental



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Turnaround: Standard Due Date: 10/27/2016





Printed: 10/19/2016 10:55:02AM Page 1 of 1

Page 8 of 9

-	Associates SR-FL-0002-16 Ample Integrity		,			A6J18 PBSEN			0/13/2 10	
BS	K Bottles: Yes No Page	eof								
	Was temperature within range? Chemistry ≤ 6°C Micro < 10°C	Yes No (1	VA)	We	re correct colleived for the	- ntainers a tests requ	nd preservativ	ves (Yes	NO NA
Info	If samples were taken today, is there evidence that chilling has begun?	Yes No (JA A	We	re there bubb latiles Only)				Yes	No (NA
coc	Did all bottles arrive unbroken and intact?		0	Wa	s a sufficient	amount o	sample rece	ived?	Ye	
Ŭ	Did all bottle labels agree with COC?	Yes N	le l	Do	samples hav	e a hold ti	me <72 hours	?	Ye	
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes No (N	VA)	Wa PM	s PM notified	of discrep By/Tin			Yes	NO (NA
	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Pase	sed?		2			L	
	Bacti Na ₂ S ₂ O ₃	····	2 -							
	None (P) ^{White Cap}			_						
	Cr6 (P) LL Green Label/Blue Cap NH4OH(NH4)2SO4 DW	Cl, pH > 8	Y	N						
	Cr6 (P) Pink Label/Blue Cap NH4OH(NH4)2SO4 WW	pH 9.3-9.7	Y	N			·····		<u></u>	
the lab	Cr6 (P) Black Label/Blue Cap NH4OH(NH4)2SO4 7199	pH 9.0-9.5	Ŷ	N						
⊒. ס		-	_	-	IC			<u>مناجعة</u> ا		
j er	H2SO4 (P) or (AG) Yellow Cap/Label	pH<2	Y	N						an se
performed	NaOH (P) ^{Green Cap}	Cl, pH >10	Y	N					7/0	ter and the second second
are pe	NaOH + ZnAc (P)	рH>9	Y	N					2013	8
or ar	Dissolved Oxygen 300ml (g)			_	<u></u>			-		
NA	None (AG) 608/8081/8082, 625, 632/8321, 8151, 8270	-						-		2
eived either N/A	HCI (AG) ^{Lt. Blue Label} O&G, Diesel					and the second s				
eith ei	Ascorbic, EDTA, KH ₂ Ct (AG) ^{Pink Label} 525									
Received	Na203S 250mL (AG)Neon Green Label 515			-		*			-	<u>িলে, কেন্দ্র ক্রান্ড</u> ্র
es scks	Na2S2O3 1 Liter (Brown P) 549		<u></u>	-						
ottles e checks	Na2S2O3 (AG)Blue Label: 548, THM, 524		-				141 - C. ASS. 244	C		
B	Na ₂ S ₂ O ₃ (CG) ^{Blue Label} 504, 505, 547		<u></u>			<u></u>		<u> </u>		
CPIC	Na2S2Q3+MCAA (CG)Orange Label 531	pH < 3	Ŷ	N			<u></u>			
ation/ch	NH ₄ Cl (AG) ^{Purple Label} 552	- Par					<u>en la segund</u>			
	EDA (AG) ^{Brown Label} DBPs							-		
preserv	a and a second secon		 			_				
0	HCL (CG) 524.2,BTEX.Gas, MTBE, 8260/624				and a second					
Jean	Buffer pH 4 (CG) H ₃ PO ₄ (CG) ^{Salmon Label}		یند. پندینه							
۲ ۱	Other:									
"	Asbestos 1Liter Plastic w/ Foil							1		No. And Street
ľ	Low Level Hg / Metals Double Baggie			<u> </u>						
Ŀ	Bottled Water	_						1		
	Clear Glass 250mL / 500mL / 1 Liter									
-	Soil Tube Brass / Steel / Plastic				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			· · ·		
	Tedlar Bag / Plastic Bag Container Preservative Date/	Time/Initials			C					
Split	s p 25 28	me/millais	s	P	Containe		eservative	Date	e/Time	/Initials
S	S P		s		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	+		
Comments	& Odd nun all samp	nbens o Con re	1		RIN 2. 10,	18/1	U.	<u> </u>		
Labele	d by:@Labels check	ked by:		@		RUSH	Paged by:			