



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
Public Service Building
255 Capitol Street NE
Salem, Oregon 97301
PBS Project # 25103.003 Phase 0022

Dear Mr. Miller:

On October 14 and 15, 2016, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at Public Service Building located at 255 Capitol 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.

Fifty-two first draw and flush drinking water samples were collected and delivered under chain of custody to BSK Laboratories in Vancouver, Washington for lead analysis. Initially, only first draw samples were analyzed. Any first draw sample that exceeded the EPA action level for lead had its associated flush sample analyzed.

Lead concentrations in all of the first draw samples were undetectable according to laboratory analysis, indicating that all of these drinking water samples contained lead well below the EPA action level of 15 ppb.

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

4412 SW Corbett Avenue, Portland, OR 97239
503.248.1939 Main
866.727.0140 Fax
888.248.1939 Toll-Free
www.pbsenv.com

First Draw Drinking Water Sample Locations and Lead Concentrations

Sample Number	Sample Location	Lead Concentration (ppb)
SK-PSB-001-FD	Kitchenette fifth floor south kitchen sink audits division	ND
WF-PSB-003-FD	Water fountain fifth floor upper audits division adjacent to women's room	ND
WF-PSB-005-FD	Water fountain fifth floor lower audits division adjacent to women's room	ND
SK-PSB-007-FD	Kitchenette fifth floor north kitchen sink audits division	ND
SK-PSB-009-FD	Kitchenette fourth floor south kitchen sink education department	ND
WF-PSB-011-FD	Water fountain fourth floor upper education department adjacent to women's room	ND
WF-PSB-013-FD	Water fountain fourth floor lower education department adjacent to women's room	ND
SK-PSB-015-FD	Kitchenette fourth floor south education department	ND
SK-PSB-017-FD	Kitchenette third floor south education department	ND
WF-PSB-019-FD	Water fountain third floor upper adjacent to women's bathroom	ND
WF-PSB-021-FD	Water fountain third floor lower adjacent to women's bathroom	ND
SK-PSB-023-FD	Kitchenette third floor north education department	ND
SK-PSB-025-FD	Kitchenette second floor south office of student services	ND
WF-PSB-027-FD	Water fountain second floor upper adjacent to women's bathroom	ND
WF-PSB-029-FD	Water fountain second floor lower adjacent to women's bathroom	ND
SK-PSB-031-FD	Kitchenette second floor north kitchen sink	ND
SK-PSB-033-FD	Kitchenette first floor south kitchen sink secretary of state department	ND
WF-PSB-035-FD	Water fountain first floor upper outside of secretary of state department across from women's room	ND
WF-PSB-037-FD	Water fountain first floor lower outside of secretary of state department across from women's room	ND
SK-PSB-039-FD	Room 105 kitchenette first floor kitchen sink secretary of state, HR	ND
SK-PSB-041-FD	Kitchenette basement kitchen sink adjacent to conference room C	ND
WF-PSB-043-FD	Water fountain basement upper hallway adjacent to elevators	ND

Sample Number	Sample Location	Lead Concentration (ppb)
WF-PSB-045-FD	Water fountain basement lower hallway adjacent to elevators	ND
WF-PSB-047-FD	Water fountain basement custodial office	ND
SK-PSB-049-FD	Cafe kitchen sink 1	ND
SK-PSB-051-FD	Cafe kitchen sink 2	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.



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)
559-485-6935 (FAX)



A6J2088
10/25/2016

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

RE: Report for A6J2088 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 10/17/2016. 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

Case Narrative

Project and Report Details **Invoice Details**

Client: PBS Environmental
Report To: Derek May
Project #: Public Service Building #25103.003 PH 22
Received: 10/17/2016 - 16:30
Report Due: 10/31/2016

Invoice To: PBS Environmental
Invoice Attn: Accounts Payable
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 20.5

Containers Intact
COC/Labels Agree
Received with no thermal preservation.
Sample(s) split after receipt at the laboratory.
Initial receipt at BSK-VAL

Data Qualifiers

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

None applied

Report Distribution

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



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-01

Sampled By: Client

Sample Description: SK-PSB-001-FD // Kitchenette 5th Floor South kitchen sink

Audits Division

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-03

Sampled By: Client

Sample Description: WF-PSB-003-FD // Water fountain 5th Floor upper Audits
Division adjacent to women's room

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-05

Sampled By: Client

Sample Description: WF-PSB-005-FD // Water fountain 5th Floor lower Audits

Division adjacent to women's room

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-07

Sampled By: Client

Sample Description: SK-PSB-007-FD // Kitchenette 5th Floor North kitchen sink

Audits Division

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-09

Sampled By: Client

Sample Description: SK-PSB-009-FD // Kitchenette 4th Floor South kitchen sink
Education Dept

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-11

Sampled By: Client

Sample Description: WF-PSB-011-FD // Water fountain 4th Floor upper Education Dept adjacent to women's room

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-13

Sampled By: Client

Sample Description: WF-PSB-013-FD // Water fountain 4th Floor lower Education Dept adjacent to women's room

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-15

Sampled By: Client

Sample Description: SK-PSB-015-FD // Kitchenette 4th Floor South Education Dept

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-17

Sampled By: Client

Sample Description: SK-PSB-017-FD // Kitchenette 3rd Floor South Education Dept

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-19

Sampled By: Client

Sample Description: WF-PSB-019-FD // Water fountain 3rd Floor upper adjacent to women's bathroom

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-21

Sampled By: Client

Sample Description: WF-PSB-021-FD // Water fountain 3rd Floor lower adjacent to women's bathroom

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-23

Sampled By: Client

Sample Description: SK-PSB-023-FD // Kitchenette 3rd Floor North Education Dept

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-25

Sampled By: Client

Sample Description: SK-PSB-025-FD // Kitchenette 2nd Floor South Office of Student Services

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-27

Sampled By: Client

Sample Description: WF-PSB-027-FD // Water fountain 2nd Floor upper adjacent to women's bathroom

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-29

Sampled By: Client

Sample Description: WF-PSB-029-FD // Water fountain 2nd Floor lower adjacent to women's bathroom

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-31

Sampled By: Client

Sample Description: SK-PSB-031-FD // Kitchenette 2nd Floor North kitchen sink

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-33

Sampled By: Client

Sample Description: SK-PSB-033-FD // Kitchenette 1st Floor South kitchen sink
Secretary of State Dept

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-35

Sampled By: Client

Sample Description: WF-PSB-035-FD // Water fountain 1st Floor upper outside of Secretary of State Dept across from women's room

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-37

Sampled By: Client

Sample Description: WF-PSB-037-FD // Water fountain 1st Floor lower outside of Secretary of State Dept across from women's room

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-39

Sampled By: Client

Sample Description: SK-PSB-039-FD // Room 105 Kitchenette 1st Floor kitchen sink
Secretary of State, HR

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614536	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-41

Sampled By: Client

Sample Description: SK-PSB-041-FD // Kitchenette basement kitchen sink adjacent to conference room C

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614537	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-43

Sampled By: Client

Sample Description: WF-PSB-043-FD // Water fountain basement upper hallway adjacent to elevators

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614537	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-45

Sampled By: Client

Sample Description: WF-PSB-045-FD // Water fountain basement lower hallway adjacent to elevators

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614537	10/21/16	10/21/16	



A6J2088

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J2088-47

Sampled By: Client

Sample Description: WF-PSB-047-FD // Water fountain basement custodial office

Sample Date - Time: 10/14/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A614537	10/21/16	10/21/16	

BSK Associates 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: A614536

Prepared: 10/21/2016

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: GNG

Blank (A614536-BLK1)

Lead	ND	0.0010	mg/L							10/21/16	
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Blank Spike (A614536-BS1)

Lead	0.11	0.0010	mg/L	0.10		107	85-115			10/21/16	
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Blank Spike Dup (A614536-BSD1)

Lead	0.11	0.0010	mg/L	0.10		107	85-115	0	20	10/21/16	
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Matrix Spike (A614536-MS1), Source: A6J2088-01

Lead	0.11	0.0010	mg/L	0.10	ND	107	70-130			10/21/16	
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Matrix Spike (A614536-MS2), Source: A6J2088-21

Lead	0.11	0.0010	mg/L	0.10	ND	105	70-130			10/21/16	
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Matrix Spike Dup (A614536-MSD1), Source: A6J2088-01

Lead	0.11	0.0010	mg/L	0.10	ND	108	70-130	1	20	10/21/16	
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Matrix Spike Dup (A614536-MSD2), Source: A6J2088-21

Lead	0.11	0.0010	mg/L	0.10	ND	105	70-130	0	20	10/21/16	
------	------	--------	------	------	----	-----	--------	---	----	----------	--

EPA 200.8 - Quality Control

Batch: A614537

Prepared: 10/21/2016

Prep Method: EPA 200.2 - Pb/Cu Rule

Analyst: GNG

Blank (A614537-BLK1)

Lead	ND	0.0010	mg/L							10/21/16	
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Blank Spike (A614537-BS1)

Lead	0.11	0.0010	mg/L	0.10		108	85-115			10/21/16	
------	------	--------	------	------	--	-----	--------	--	--	----------	--

Blank Spike Dup (A614537-BSD1)

Lead	0.11	0.0010	mg/L	0.10		108	85-115	0	20	10/21/16	
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Matrix Spike (A614537-MS1), Source: A6J2088-41

Lead	0.21	0.0020	mg/L	0.20	ND	104	70-130			10/21/16	
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Matrix Spike (A614537-MS2), Source: A6J2495-01

Lead	0.21	0.0020	mg/L	0.20	ND	106	70-130			10/21/16	
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Matrix Spike Dup (A614537-MSD1), Source: A6J2088-41

Lead	0.21	0.0020	mg/L	0.20	ND	104	70-130	0	20	10/21/16	
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Matrix Spike Dup (A614537-MSD2), Source: A6J2495-01

Lead	0.21	0.0020	mg/L	0.20	ND	105	70-130	0	20	10/21/16	
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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 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
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San Bernardino

State of California - ELAP	2993	State of Oregon - NELAP	4119-001
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Vancouver

State of Oregon - NELAP	WA100008-008	State of Washington	C824-16
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Engineering + Environmental

A6J2088
PBSEN1939



10/17/2016
10

OREGON DAS
LEAD IN DRINKING WATER
TESTING PROGRAM

25103.003

FACILITY NAME: PUBLIC SERVICE BUILDING

PROJECT #: [REDACTED] PH 22

ANALYSIS REQUESTED:

- LEAD (PB) IN DRINKING WATER
- COPPER (CU) IN DRINKING WATER

DATE: 10/14/16

RELINQ'D BY/SIGNATURE: Mike Golden

DATE/TIME: 10/14/16 1400

RECEIVED BY/SIGNATURE: Jenea Kangel

DATE/TIME: 10/17/16 1630

EMAIL RESULTS TO: derek.may@pbsenv.com

TURN AROUND TIME: 7-10 days

SAMPLE DATA FORM

LAB	SAMPLE #	BUILDING	ROOM	LOCATION IN ROOM
1	SK-PSB-001-FD			Kitchenette, 5th Floor, South
2	SK-PSB-002-FL			Kitchen Sink (Audits Division)
3	WF-PSB-003-FD			Water Fountain, 5th Floor, Upper
4	WF-PSB-004-FL			Audits Division, adjacent to men's Room
5	WF-PSB-005-FD			Water Fountain 5th Floor, Lower
6	WF-PSB-006-FL			Audits Division, adjacent to men's Room
7	SK-PSB-007-FD			Kitchenette 5th Floor, North
8	SK-PSB-008-FL			Kitchen Sink (Audits Division)
9	SK-PSB-009-FD			Kitchenette, 4th Floor, South
10	SK-PSB-010-FL			Kitchen Sink (Education Dept)
11	WF-PSB-011-FD			Water Fountain, 4th Floor, Upper
12	WF-PSB-012-FL			Education Dept, adjacent to women's room
13	WF-PSB-013-FD			Water Fountain, 4th Floor, Lower
14	WF-PSB-014-FL			Education Dept, adjacent to women's room
15	SK-PSB-015-FD			Kitchenette, 4th Floor, North
16	SK-PSB-016-FL			Education Dept
17	SK-PSB-017-FD			Kitchenette, 3rd Floor, South
18	SK-PSB-018-FL			Education Dept
19	WF-PSB-019-FD			Water Fountain, 3rd Floor, Upper
20	WF-PSB-020-FL			adjacent to women's bathroom
21	WF-PSB-021-FD			Water Fountain 3rd Floor, Lower
22	WF-PSB-022-FL			adjacent to women's bathroom
23	SK-PSB-023-FD			Kitchenette 3rd Floor, North
24	SK-PSB-024-FL			Education Dept.
25	SK-PSB-025-FD			Kitchenette 2nd Floor, South
26	SK-PSB-026-FL			Office of Student Services

20.5

8/8
X

2
8
4



Engineering + Environmental

A6J2088
PBSEN1939



10/17/2016
10

OREGON DWS
LEAD IN DRINKING WATER
TESTING PROGRAM

25103.003

FACILITY NAME: PUBLIC SERVICE BUILDING

PROJECT #: [REDACTED] PH 22

ANALYSIS REQUESTED:

- LEAD (PB) IN DRINKING WATER
- COPPER (CU) IN DRINKING WATER

DATE: 10/14/16

RELINQ'D BY/SIGNATURE: Mike Golden

DATE/TIME: 10/14/16 1400

20.5 RECEIVED BY/SIGNATURE: Jana Kangel

DATE/TIME: 10/17/16 1630

EMAIL RESULTS TO: derek.may@pbsenv.com

TURN AROUND TIME: 7-10 days

SAMPLE DATA FORM

LAB	SAMPLE #	BUILDING	ROOM	LOCATION IN ROOM
27	WF-PSB-027-FO			Water Fountain, 2nd Floor (Upper)
28	WF-PSB-028-FL			Adjacent to women's bathroom
29	WF-PSB-029-FO			Water Fountain, 2nd Floor (Lower)
30	WF-PSB-030-FL			Adjacent to women's bathroom
31	SK-PSB-031-FO			Kitchenette, 2nd Floor, North
32	SK-PSB-032-FL			Kitchen Sink
33	SK-PSB-033-FO			Kitchenette, 1st Floor, South
34	SK-PSB-034-FL			Kitchen Sink, Secretary of State Dept
35	WF-PSB-035-FO			Water Fountain, 1st Floor, Upper
36	WF-PSB-036-FL			outside of Secretary of State Dept
37	WF-PSB-037-FO			Water Fountain, 1st Floor, Lower, outside of
38	WF-PSB-038-FL			Secretary of State Dept, across from women's room
39	SK-PSB-039-FO		105	Kitchenette, 1st Floor, Kitchen Sink
40	SK-PSB-040-FL		↓	Secretary of State, HR, 1st Floor
41	SK-PSB-041-FO			Kitchenette, Basement, Kitchen Sink
42	SK-PSB-042-FL			Adjacent to Conference Room C
43	WF-PSB-043-FO			Water Fountain, Basement (Upper)
44	WF-PSB-044-FL			Hallway, adjacent to elevators
45	WF-PSB-045-FO			Water Fountain, Basement (Lower)
46	WF-PSB-046-FL			Hallway, adjacent to elevators
47	WF-PSB-047-FO			Water Fountain, Basement
48	WF-PSB-048-FL			Custodial office

Sample Integrity



BSK Bottles: Yes No Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$	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	NA
	Did all bottle labels agree with COC?	Yes	No		Do samples have a hold time <72 hours?	Yes	No	NA
	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	Checks	Passed?	1-48	
			Y	N
250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)				
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 O ₃ S 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	250*			S P	
S P				S P		

Comments: * Odd numbers only. Per x labeled as 'SK' instead of 'WF' on bottles.
 -033 -034 Non BSK Bottles 1L HNO₃ Red Label



A6J2088



10182016

PBSEN1939

Turnaround: Standard
Due Date: 10/31/2016



PBS Environmental



Sample Integrity

BSK Bottles: Yes No Page 1 of 1



COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$	Yes No <u>NA</u>	Were correct containers and preservatives received for the tests requested?	<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 <u>NA</u>
	Did all bottle labels agree with COC?	<u>Yes</u> <u>NA</u>	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	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)	Checks	Passed?				
	Bacti $\text{Na}_2\text{S}_2\text{O}_3$	—	—	1-48			
	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_2SO_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_2Cl (AG) Pink Label 525	—	—				
	$\text{Na}_2\text{O}_3\text{S}$ 250mL (AG) Neon Green Label 515	—	—				
	$\text{Na}_2\text{S}_2\text{O}_3$ 1 Liter (Brown P) 549	—	—				
	$\text{Na}_2\text{S}_2\text{O}_3$ (AG) Blue Label 548, THM, 524	—	—				
	$\text{Na}_2\text{S}_2\text{O}_3$ (CG) Blue Label 504, 505, 547	—	—				
	$\text{Na}_2\text{S}_2\text{O}_3$ + MCAA (CG) Orange Label 531	pH < 3	Y N				
	NH_4Cl (AG) Purple Label 552	—	—				
	EDA (AG) Brown Label DBPs	—	—				
	HCL (CG) 524.2, BTEX, Gas, MTBE, 8260/624	—	—				
	Buffer pH 4 (CG)	—	—				
	H_3PO_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>S</u> P	250*			S P	
S P				S P		

Comments:
 * Reactives
 all 250 poly * Add numbers only. Reel
 on 10/20 x labeled as 'JK' instead
 1700 of 'WF' on bottles.
 -033 Non BSK
 -034 Bottles
 1L HNO3 Red Reel
 Label

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

RE: Report for A6J3319 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 10/26/2016. 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

Case Narrative

Project and Report Details **Invoice Details**

Client: PBS Environmental
Report To: Derek May
Project #: Public Service Building #25103.003 PH 22
Received: 10/26/2016 - 17:15
Report Due: 11/10/2016

Invoice To: PBS Environmental
Invoice Attn: Accounts Payable
Project PO#: -

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 20.4

Containers Intact
COC/Labels Agree
Received with no thermal preservation.
Sample(s) split after receipt at the laboratory.
Initial receipt at BSK-VAL

Data Qualifiers

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

None applied

Report Distribution

Recipient(s)	Report Format	CC:
Derek May	FINAL.RPT	beth.powers@pbsenv.com



A6J3319

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J3319-01

Sampled By: Client

Sample Description: SK-PSB-049-FD // Cafe kitchen sink 1

Sample Date - Time: 10/15/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A615129	11/02/16	11/02/16	



A6J3319

Oregon DAS - Lead

Public Service Building #25103.003 PH 22

Certificate of Analysis

Sample ID: A6J3319-03

Sampled By: Client

Sample Description: SK-PSB-051-FD // Cafe kitchen sink 2

Sample Date - Time: 10/15/16 - 00:00

Matrix: Drinking Water

Sample Type: First Draw

BSK Associates Fresno

Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Lead	EPA 200.8	ND	0.0010	mg/L	1	A615129	11/02/16	11/02/16	

BSK Associates Fresno
Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Date Analyzed	Qual
EPA 200.8 - Quality Control											
Batch: A615129										Prepared: 11/2/2016	
Prep Method: EPA 200.2										Analyst: GNG	
Blank (A615129-BLK1)											
Lead	ND	0.0010	mg/L							11/02/16	
Blank Spike (A615129-BS1)											
Lead	0.098	0.0010	mg/L	0.10		98	85-115			11/02/16	
Blank Spike Dup (A615129-BSD1)											
Lead	0.098	0.0010	mg/L	0.10		98	85-115	0	20	11/02/16	
Matrix Spike (A615129-MS1), Source: A6J3315-03											
Lead	0.19	0.0020	mg/L	0.20	ND	97	70-130			11/02/16	
Matrix Spike Dup (A615129-MSD1), Source: A6J3315-03											
Lead	0.19	0.0020	mg/L	0.20	ND	95	70-130	3	20	11/02/16	

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
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San Bernardino

State of California - ELAP	2993	State of Oregon - NELAP	4119-001
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Vancouver

State of Oregon - NELAP	WA100008-008	State of Washington	C824-16
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Engineering +
Environmental

A6J3319
PBS EN1939



10/26/2016
10

OREGON DAS
LEAD IN DRINKING WATER
TESTING PROGRAM

FACILITY NAME: PUBLIC SERVICE BUILDING

PROJECT #: 25103.003 PH 22

ANALYSIS REQUESTED:

- LEAD (PB) IN DRINKING WATER
 COPPER (CU) IN DRINKING WATER

DATE: 10/15/2016

RELINQ'D BY/SIGNATURE: Mike Golden / [Signature]

DATE/TIME: 10/21/2016 1500

RECEIVED BY/SIGNATURE: [Signature]

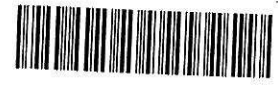
DATE/TIME: 10/26/16 5:15 PM

EMAIL RESULTS TO: derek.may@pbseov.com

TURN AROUND TIME: 7-10 days

SAMPLE DATA FORM

LAB	SAMPLE #	BUILDING	ROOM	LOCATION IN ROOM
1	SF-PSB-049-FO		CAFÉ	Kitchen Sink #1
2	SK-PSB-050-FZ		↓	↓
3	SF-PSB-051-FO		↓	Kitchen Sink #2
4	SF-PSB-052-FZ		↓	↓



BSK Bottles: **Yes** No Page 1 of 1

COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$	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	NA
	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	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 O ₃ S 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 250*			S P		
	S P			S P		

Comments
 * Odd numbers only. per

Sample Integrity

BSK Bottles: Yes No Page 1 of 1



COC Info	Was temperature within range? Chemistry $\leq 6^{\circ}\text{C}$ Micro $< 10^{\circ}\text{C}$	Yes	No	<u>NA</u>	Were correct containers and preservatives received for the tests requested?	<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	<u>NA</u>
	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>

Bottles Received	Checks	Passed?	By/Time:														
			1	2	3	4	5	6									
250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)			1-														
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 O ₃ S 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

Comments: * Add numbers only. per
All containers received intact per 11-1