



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
Employment Building
875 Union Street NE
Salem, Oregon 97311
PBS Project #: 25103.003 Phase 0005

Dear Mr. Miller:

On October 10, 2016, PBS Engineering and Environmental Inc. (PBS) performed drinking water sampling at the Employment building located at 875 Union 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.

Twenty-six 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.

Concentrations of lead in the first draw samples ranged from none detected to 13 ppb. Laboratory analysis indicates that all of these drinking water samples contained lead at concentrations 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

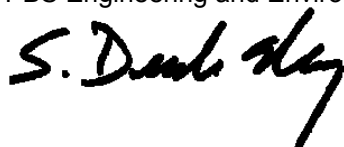
Sample Number	Sample Location	Lead Concentration (ppb)
SK-E-001-FD	Break room kitchen sink on fourth floor across from print-out room	ND
WF-E-003-FD	Water fountain in hallway on fourth floor between men's and women's bathrooms (North)	6.1
SK-E-005-FD	Break room kitchen sink on third floor adjacent to room 304	ND
WF-E-007-FD	Hallway water fountain, third floor between men's and women's bathrooms	1.6
SK-E-009-FD	Break room kitchen sink, second floor between men's and women's bathrooms	1.5
WF-E-011-FD	Hallway water fountain, second floor between men's and women's bathrooms	1.3
WF-E-013-FD	Hallway water fountain, first floor between men's and women's bathroom adjacent to room 113	1.8
SK-E-015-FD	Room 112 break room kitchen sink on first floor	2.0
WF-E-017-FD	Hallway water fountain, first floor adjacent to room 108	13
SK-E-019-FD	First floor break room adjacent to chamber of secrets	2.0
WF-E-021-FD	Basement water fountain in hallway adjacent to men's bathroom across from room B-3F	2.9
SK-E-023-FD	Basement break room kitchen sink adjacent to room B-3	2.1
WF-E-025-FD	Water fountain in second floor hallway across from room 207	8.1

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

The information contained in this document is proprietary and shall not be duplicated, used, or disclosed in whole or in part to other parties without the permission of PBS.

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

RE: Report for A6J1785 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

Case Narrative

Project and Report Details **Invoice Details**

Client: PBS Environmental
Report To: Derek May
Project #: Employment #25103.003 PH 5
Received: 10/13/2016 - 09:00
Report Due: 10/27/2016

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

Sample Receipt Conditions

Cooler: Default Cooler
Temperature on Receipt °C: 20.2

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	



A6J1785

Oregon DAS - Lead

Employment #25103.003 PH 5

Certificate of Analysis

Sample ID: A6J1785-01

Sampled By: Client

Sample Description: SK-E-001-FD // Breakroom kitchen sink on 4th Floor across from print out room

Sample Date - Time: 10/10/16 - 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	A614381	10/19/16	10/19/16	



A6J1785

Oregon DAS - Lead

Employment #25103.003 PH 5

Certificate of Analysis

Sample ID: A6J1785-03

Sampled By: Client

Sample Description: WF-E-003-FD // Water fountain in hallway on 4th Floor between men's and women's bathrooms (North)

Sample Date - Time: 10/10/16 - 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	0.0061	0.0010	mg/L	1	A614381	10/19/16	10/19/16	



A6J1785

Oregon DAS - Lead

Employment #25103.003 PH 5

Certificate of Analysis

Sample ID: A6J1785-05

Sampled By: Client

Sample Description: SK-E-005-FD // Breakroom kitchen sink on 3rd Floor adjacent to Rm 304

Sample Date - Time: 10/10/16 - 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	A614381	10/19/16	10/19/16	



A6J1785

Oregon DAS - Lead

Employment #25103.003 PH 5

Certificate of Analysis

Sample ID: A6J1785-07

Sampled By: Client

Sample Description: WF-E-007-FD // Hallway water fountain on 3rd Floor between men's and women's bathrooms

Sample Date - Time: 10/10/16 - 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	0.0016	0.0010	mg/L	1	A614381	10/19/16	10/19/16	



A6J1785

Oregon DAS - Lead

Employment #25103.003 PH 5

Certificate of Analysis

Sample ID: A6J1785-09

Sampled By: Client

Sample Description: SK-E-009-FD // Breakroom kitchen sink on 2nd Floor between men's and women's bathrooms

Sample Date - Time: 10/10/16 - 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	0.0015	0.0010	mg/L	1	A614381	10/19/16	10/19/16	



A6J1785

Oregon DAS - Lead

Employment #25103.003 PH 5

Certificate of Analysis

Sample ID: A6J1785-11

Sampled By: Client

Sample Description: WF-E-011-FD // Hallway water fountain on 2nd Floor between men's and women's bathrooms

Sample Date - Time: 10/10/16 - 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	0.0013	0.0010	mg/L	1	A614381	10/19/16	10/19/16	



A6J1785

Oregon DAS - Lead

Employment #25103.003 PH 5

Certificate of Analysis

Sample ID: A6J1785-13

Sampled By: Client

Sample Description: WF-E-013-FD // Hallway water fountain on 1st Floor between men's and women's bathroom adjacent to Rm 113

Sample Date - Time: 10/10/16 - 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	0.0018	0.0010	mg/L	1	A614381	10/19/16	10/19/16	



A6J1785

Oregon DAS - Lead

Employment #25103.003 PH 5

Certificate of Analysis

Sample ID: A6J1785-15

Sampled By: Client

Sample Description: SK-E-015-FD // Room 112 Breakroom kitchen sink on 1st Floor

Sample Date - Time: 10/10/16 - 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	0.0020	0.0010	mg/L	1	A614381	10/19/16	10/19/16	



A6J1785

Oregon DAS - Lead

Employment #25103.003 PH 5

Certificate of Analysis

Sample ID: A6J1785-17

Sampled By: Client

Sample Description: WF-E-017-FD // Hallway water fountain on 1st Floor adjacent to Rm 108

Sample Date - Time: 10/10/16 - 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	0.013	0.0010	mg/L	1	A614381	10/19/16	10/19/16	



A6J1785

Oregon DAS - Lead

Employment #25103.003 PH 5

Certificate of Analysis

Sample ID: A6J1785-19

Sampled By: Client

Sample Description: SK-E-019-FD // 1st Floor breakroom adjacent to chamber of secrets

Sample Date - Time: 10/10/16 - 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	0.0020	0.0010	mg/L	1	A614381	10/19/16	10/19/16	



A6J1785

Oregon DAS - Lead

Employment #25103.003 PH 5

Certificate of Analysis

Sample ID: A6J1785-21

Sampled By: Client

Sample Description: WF-E-021-FD // Basement water fountain in hallway adjacent to men's bathroom across from Rm B-3F

Sample Date - Time: 10/10/16 - 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	0.0029	0.0010	mg/L	1	A614384	10/19/16	10/19/16	



A6J1785

Oregon DAS - Lead

Employment #25103.003 PH 5

Certificate of Analysis

Sample ID: A6J1785-23

Sampled By: Client

Sample Description: SK-E-023-FD // Basement breakroom kitchen sink adjacent to Room B-3

Sample Date - Time: 10/10/16 - 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	0.0021	0.0010	mg/L	1	A614384	10/19/16	10/19/16	



A6J1785

Oregon DAS - Lead

Employment #25103.003 PH 5

Certificate of Analysis

Sample ID: A6J1785-25

Sampled By: Client

Sample Description: WF-E-025-FD // Water fountain in 2nd Floor hallway across from Room 207

Sample Date - Time: 10/10/16 - 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	0.0081	0.0010	mg/L	1	A614384	10/19/16	10/19/16	

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: A614381

Prepared: 10/19/2016

Prep Method: EPA 200.2

Analyst: GNG

Blank (A614381-BLK1)

Lead	ND	0.0010	mg/L							10/19/16	
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Blank Spike (A614381-BS1)

Lead	0.10	0.0010	mg/L	0.10		100	85-115			10/19/16	
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Blank Spike Dup (A614381-BSD1)

Lead	0.099	0.0010	mg/L	0.10		99	85-115	1	20	10/19/16	
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Matrix Spike (A614381-MS1), Source: A6J1752-01

Lead	0.21	0.0020	mg/L	0.20	0.010	100	70-130			10/19/16	
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Matrix Spike (A614381-MS2), Source: A6J1785-01

Lead	0.20	0.0020	mg/L	0.20	ND	101	70-130			10/19/16	
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Matrix Spike Dup (A614381-MSD1), Source: A6J1752-01

Lead	0.21	0.0020	mg/L	0.20	0.010	99	70-130	0	20	10/19/16	
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Matrix Spike Dup (A614381-MSD2), Source: A6J1785-01

Lead	0.20	0.0020	mg/L	0.20	ND	100	70-130	2	20	10/19/16	
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EPA 200.8 - Quality Control

Batch: A614384

Prepared: 10/19/2016

Prep Method: EPA 200.2

Analyst: GNG

Blank (A614384-BLK1)

Lead	ND	0.0010	mg/L							10/19/16	
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Blank Spike (A614384-BS1)

Lead	0.098	0.0010	mg/L	0.10		98	85-115			10/19/16	
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Blank Spike Dup (A614384-BSD1)

Lead	0.098	0.0010	mg/L	0.10		98	85-115	0	20	10/19/16	
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Matrix Spike (A614384-MS1), Source: A6J1785-21

Lead	0.20	0.0020	mg/L	0.20	0.0029	101	70-130			10/19/16	
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Matrix Spike (A614384-MS2), Source: A6J1750-01

Lead	0.20	0.0020	mg/L	0.20	ND	100	70-130			10/19/16	
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Matrix Spike Dup (A614384-MSD1), Source: A6J1785-21

Lead	0.20	0.0020	mg/L	0.20	0.0029	99	70-130	1	20	10/19/16	
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Matrix Spike Dup (A614384-MSD2), Source: A6J1750-01

Lead	0.20	0.0020	mg/L	0.20	ND	102	70-130	2	20	10/19/16	
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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

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



Engineering + Environmental

A6J1785
PBSEN1939

10/13/2016

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OREGON DAS

LEAD IN DRINKING WATER TESTING PROGRAM



25103.003

FACILITY NAME: Employment

PROJECT #: PH 5

ANALYSIS REQUESTED:

- LEAD (Pb) IN DRINKING WATER
- COPPER (Cu) IN DRINKING WATER

DATE: 10/10/16

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

DATE/TIME: 10/12/16 1700

202 RECEIVED BY/SIGNATURE: [Signature]

DATE/TIME: 10/13/16 0900

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-E-001-FD			Breakroom, Kitchen Sink,
2	SK-E-002-FL			4th Floor across from Printout Room
3	WF-E-003-FD			Water Fountain Hallway, 4th Floor
4	WF-E-004-FL			across from, between Mens and Womens bathrooms (North)
5	SK-E-005-FD			Breakroom, Kitchen Sink, 3rd
6	SK-E-006-FL			Floor, adjacent to Rm. 304
7	WF-E-007-FD			Water Fountain Hallway, 3rd Floor between Mens and
8	WF-E-008-FL			Womens bathrooms
9	SK-E-009-FD			Breakroom, Kitchen Sink, 2nd
10	WF-E-010-FL			Floor between Mens and Womens bathrooms
11	WF-E-011-FD			Water Fountain, Hallway, 2nd Floor
12	WF-E-012-FL			between mens and womens bathrooms
13	WF-E-013-FD			Water Fountain, Hallway, 1st
14	WF-E-014-FL			Floor between mens and womens bathroom, adjacent to Rm. 113
15	SK-E-015-FD		112	Breakroom, Kitchen Sink, 1st
16	SK-E-016-FL		112	Floor
17	WF-E-017-FD			Water Fountain, Hallway, 1st Floor
18	WF-E-018-FL			adjacent to Rm 108
19	SK-E-019-FD			Breakroom, 1st Floor, Adjacent
20	SK-E-020-FL			to Chamber of Secrets
21	WF-E-021-FD			Water Fountain, Hallway, Basement
22	WF-E-022-FL			Adjacent to Men bathroom, across from Room B-3F



Engineering + Environmental

A6J1785
PBSEN1939

10/13/2016
10

OREGON DAS

LEAD IN DRINKING WATER
TESTING PROGRAM



25103.003

FACILITY NAME: Employment

PROJECT #: [REDACTED] PH 5

ANALYSIS REQUESTED:

- LEAD (Pb) IN DRINKING WATER
- COPPER (Cu) IN DRINKING WATER

DATE: 10/10/16

RELINQ'D BY/SIGNATURE: Mike Golden

DATE/TIME: 10/12/16 1700

207°

RECEIVED BY/SIGNATURE: Genea Kangel

DATE/TIME: 10/13/16 0900

EMAIL RESULTS TO: derek.may@pbsenv.com

TURN AROUND TIME: 7-10 days

SAMPLE DATA FORM

LAB	SAMPLE #	BUILDING	ROOM	LOCATION IN ROOM
<u>24 23</u>	<u>SK-E-023-FD</u>			<u>Breakroom, Basement, Adjacent to Room B-3, Kitchen Sink</u>
<u>25 24</u>	<u>SK-E-024-FL</u>			<u>Water Fountain, Hallway, 2nd Floor, across from Room 207</u>
<u>26 25</u>	<u>WF-E-025-FD</u>			
<u>27 26</u>	<u>WF-E-026-FL</u>			

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	
	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	Description	Checks		Passed?		Notes
		Y	N	Y	N	
	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)					1-26
	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_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
	<input checked="" type="radio"/> S <input type="radio"/> P	250 *			S P	
<input type="radio"/> S <input type="radio"/> P				S P		

Comments: * Odd numbers only. RIR



A6J1785



10142016

PBSEN1939

Turnaround: Standard

Due Date: 10/27/2016



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	<input checked="" type="radio"/> NA	Were correct containers and preservatives received for the tests requested?	<input checked="" type="radio"/> Yes	No	NA
	If samples were taken today, is there evidence that chilling has begun?	Yes	No	<input checked="" type="radio"/> NA	Were there bubbles in the VOA vials? (Volatiles Only)	Yes	No	<input checked="" type="radio"/> NA
	Did all bottles arrive unbroken and intact?	<input checked="" type="radio"/> Yes	No		Was a sufficient amount of sample received?	<input checked="" type="radio"/> Yes	No	
	Did all bottle labels agree with COC?	<input checked="" type="radio"/> Yes	No		Do samples have a hold time <72 hours?	Yes	<input checked="" type="radio"/> No	
	Was sodium thiosulfate added to CN sample(s) until chlorine was no longer present?	Yes	No	<input checked="" type="radio"/> NA	Was PM notified of discrepancies? PM: _____ By/Time: _____	Yes	No	<input checked="" type="radio"/> NA

Bottles Received	250ml(A) 500ml(B) 1Liter(C) 40ml VOA(V)		Checks	Passed?				
	Bacti Na ₂ S ₂ O ₃			—	—	1-20		
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) 608/808178082, 625, 632/8321, 8151, 8270			—	—				
HCl (AG) Lt Blue Label O&G, Diesel			—	—				
Ascorbic, EDTA, KH ₂ Cl (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
	<input checked="" type="radio"/> S <input type="radio"/> P 250 *			<input type="radio"/> S <input type="radio"/> P		
	<input type="radio"/> S <input type="radio"/> P			<input type="radio"/> S <input type="radio"/> P		

Comments: * Odd numbers only. RIR received all sample 10/13/16