Exh. SH Rply T-31 **Docket UW 170924** 2 Witness: Sarah Hand 3 4 5 6 BEFORE THE WASHINGTON 7 UTILITIES AND TRANSPORTATION COMMISSION 8 SARAH HAND AND GRETCHEN HAND, **DOCKET UW 170924** 9 a married couple **EXHIBIT 3 TO REPLY TESTIMONY** Complainant, 10 **OF SARAH HAND** v. 11 RAINIER VIEW WATER COMPANY, INC., 12 Respondent. 13 14 15 **EXHIBIT 3** 16 17 TO REPLY TESTIMONY OF SARAH HAND 18 July 2, 2018 19 20 Spectra Laboratory Water Report 21 re: Sarah Hand's Residence 22 23 24 25 26 27 28 **NIGEL S. MALDEN LAW, PLLC EXHIBIT 3 TO REPLY TESTIMONY OF SARAH** 711 Court A, Suite 200 **HAND - DOCKET UW 170924** Tacoma, Wa. 98402

253-627-0393 p 844-273-6067 f

2221 Ross Way, Tacoma Washington 98421 (253) 272-4850 INORGANIC CHEMICALS (IOCS) REPORT

System ID No.:	System Name: Hand-57434P	
Lab/Sample No: 11831341	Date Collected: 04/06/2017	DOH Source No:
Mulitple Source Nos:	Sample Type:	Sample Purpose:
Date Received: 04/06/2017	Date Reported: 04/18/2017	Supervisor: Tac
Date Digested:	Date Analyzed:	Analyst:
County:		Group:
Sample Location:		Sample Description: 1st Draw
Send Report To: ESI 700 South Industrial Way Seattle, WA 98108-5231	Bill To: ESI	<u>Spectra Order #</u> 2017040191

DOH#	ANALYTES	RESULTS	UNITS	SRL	TRIGGER	MCL	EXCE		Method/An	alyst
			REGULATED				Trigger ?	MCL 2		
4		ND	mg/l	0.002	0.01	0.01			EPA 200.8	SCJ
5		ND	mg/l	0.1	2	2			EPA 200.8	SCJ
6	 	ND	mg/l	0.002	0.005	0.005			EPA 200.8	SCJ
7	Chromium	ND	mg/l	0.01	0.1	0.1			EPA 200.8	SCJ
11	Mercury	ND	mg/l	0.0005	0.002	0.002			EPA 245.1	BJN
12	Selenium	ND *	mg/l	0.005	0.05	0.05			EPA 200.9	010
110	Beryllium	ND *	mg/l	0.003	0.004	0.004			EPA 200.7	010
111	Nickel	ND	mg/l	0.04	0.1	0.1			EPA 200.8	SCJ
112	Antimony	ND	mg/l	0.005	0.006	0.006			EPA 200.8	SCJ
113	Thallium	ND	mg/l	0.002	0.002	0.002			EPA 200.8	SCJ
116	Cyanide	ND *	mg/l	0.05	0.2	0.2			SM 4500-CN	010
19	Fluoride	ND	mg/l	0.2	2	4			SM 4500-F	SN
114	Nitrite-N	ND	mg/l	0.5	0.5	1			SM 4500-NO	KRD
20	Nitrate-N	0.31	mg/l	0.5	5	10			Easy (1-Re	KRD
161	Total Nitrate/Nitrite	0.31	mg/l	0.5	5	10			Easy (1-Re	KRD
	FINE STREET	EPA REGUL	ATED (Second	ary)	Banton e e		Trigger ?	MCL ?		
8	Iron	ND	mg/l	0.1	0.3	0.3			EPA 200.7	SCJ
10	Manganese	ND	mg/l	0.01	0.05	0.05			EPA 200.8	SCJ
13	Silver	ND	mg/l	0.01	0.1	0.1			EPA 200.8	SCJ
21	Chloride	ND	mg/l	20	250	250			SM 4500-CL	MK
22	Sulfate	ND	mg/l	10	250	250			SM 4500-SO	BJN
24	Zinc	0.26	mg/l	0.2	5	5			EPA 200.8	SCJ
			REGULATED	y 2006			Trigger ?	MCL ?		9.88
14	Sodium	6.34 *	mg/l	5					EPA 200.7	010
15	Hardness	37	mg/l	10					SM 2340 B	SCJ
16	Conductivity	130	umhos/cm	10	700	700			EPA 120.1	MK
17	Turbidity	ND	NTU	0.1	1	1			EPA 180.1	MK
18	Color	ND	color units	5	15	15			SM 2120 B	MK
26	Total Dissoved Solids	110	mg/l	150	500	500			SM 2540 C	KRD
NAME:			NREGULATED				Trigger ?	MCL 2		
9	Lead	ND	mg/l	0.002					EPA 200.8	SCJ
23	Copper	0.07	mg/l	0.2			1		EPA 200.8	SCJ

^{*} Analyzed by Spectra Laboratories-Kitsap, complete report enclosed.

SRL (State Reporting Level):

Indicates the minimum reporting level by the Washington Department of Health (DOH).

Trigger Level:

DOH Drinking Water response level. Systems with compounds detected at concentrations in excess

of this level are required to take additional samples. Contact your regional DOH office for further information.

MCL (maximum contaminant level): If the contaminant amount exceeds the MCL, immediately contact your regional DOH office.

ND (Not Detected):

in the results column indicates this compound was analyzed and not detected at a level greater than or equal

to the SRL.

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

04/10/2017

700 South Industrial Way

Seattle, WA 98108-5231

Attn: Susan Evans

ESI

Project: Hand-57434P

Client ID: 2nd Fl Master Tub

Sample Matrix: Drinking Water

Date Sampled: 04/06/2017 Date Received: 04/06/2017

Spectra Project: 2017040191

Spectra Number: 2

Analyte Result Units Method

Coliform Bacteria Absent SM 9223

E. coli Bacteria Absent SM 9223

SPECTRA LABORATORIES

ooper, Laboratory Manager

Page 1 of 1

SPECTRA Laboratories - Kitsap LLC

26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370

Telephone (360) 779-5141 FAX (360) 779-5150

IOC - SHORT

IOC - SHORT by Various EPA Approved Methods

Source / Point of Entry - Report of Analysis

Date Collected:

4/6/2017

System ID No:

Private 01034901

Lab - Sample #: Sample Location:

2017040191-1

Sample Purpose:

0

Sample Composition:

Send Report To:

Spectra Laboratories LLC

2221 Ross Way Tacoma, WA 98421 Group:

System Name:

2017040191-1

County:

DOH Source No:

Date Received:

4/7/2017

Date Reported:

4/13/2017

Sample Type: Collected By: Phone Number:

Bill To:

Spectra Laboratories LLC

2221 Ross Way Tacoma, WA 98421

DOH#	Analyte	Results	Units	SRL	Trigger	MCL	MCL Exceeded	Method (Analyst Init.)	Date Analyzed
110	Beryllium	<0.0003	mg/L	0.0003	0.004	0.004		EPA 200,7 (KW)	04/11/17
116	Cyanide, Free	<0.05	mg/L	0.05	0.2	0.2		SM 4500-CN F (EC)	04/10/17
14	Sodium	6.34	mg/L	5				EPA 200.7 (KW)	04/11/17
12	Selenium	< 0.002	mg/L	0.002	0.05	0.05		EPA 200.9 (KW)	04/12/17

*Confirmation:

Include the original lab number, sample number, and collection date of the original sample in the special instruction section.

SRL (State Reporting Level):

The minimum reporting level required by the Washington State Department of Health (DOH).

Trigger Level:

DOH drinking water response level. Regulated systems with compounds detected at concentrations in excess of this level may be required to take additional samples or monitor more frequently. Please contact your DOH drinking water regional office for further information.

MCL (Maximum Contaminant Level):

If the contaminant amount exceeds the MCL, please contact your regional DOH office to determine follow-up actions if you are a regulated system. Secondary MCL limits are established for aesthetic purposes and are not health based. Secondary parameters are iron, manganese, silver, chloride, sulfate, zinc, conductivity, color and TDS.

NA (Not Analyzed):

In the results column, indicates this compound was not included in the current analysis.

ND (Not Detected):

In the results column, indicates this compound was analyzed and not detected at a level greater than or equal to the SRL.

<(0.00x):

The compound was not detected in the sample at or above the concentration indicated (usually the lab method reporting limit).

mg/L:

milligrams per liter or parts per million

NTU:

nephelometric turbidity units (a measure of water clarity).

umbos/cm:

Micro chms per centimeter (a measure of the ability of the water to conduct electricity). One micro chm per centimeter is equivalent to one micro siemen per centimeter (uS/cm).

-: No existing trigger or MCL value.

www.twisslabs.com SPECTRA Laboratories – Kitsap, LLC 26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370 779-5141 FAX (360) 779-5150 www.twisslabs. (360) 779-5141

		Client Infermation	majlon.					Tee	Toet Parameters	rs Reached	-	10138	Mary 1
Company/Client:Spectra							uz I						
Address: 2221 Ross Way						64 €	T gA a			q-ətado			
City:Tacoma				Zip	98421	S BH C		Grease	-	soudo			
	<u>a</u>	Protest Information	rmation	Ш		III 1					er	<u>ال</u> د	:(
Project Manager/Report To: N	Marie Holt	ļ					d no	ac			ગ	Ot N	cuot
Project Name: 201704019	191		Sampled by	þ.		_	ור כר (:(,			dsoul	MPN	CEC
Telephone No: 253-272-4850			Fax No.	Fax No. 253-572-9838	2-9838		D 98		Hq	4-etht	7/7	:tuuo;	bns H
Email address:marieh@spectra-lab.com	ctra-lab.com_		į			umber o	iority Po SA dS 13 Regs	2) slate D CC	T :abild Vibidi	N-sist iN+sist	12E	cel Colii	goil: pi
Bemp	Onte	Tiene	Distrik	Hexard	Lab ID	-10	- 14	NA .	υŢ	Nii Nii	4	_	
17317040191-1	4	08.80	36	-	167249-01	0	ane des/	De parameter	s allowe if	if multiple t	safes are Heber	as out no b	same line
O		3	3		7	7	\dagger		+	1	9		
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11							+		-	1			
12									‡	1			
	Return to Clear)isposal		□ Hazan	Hazardous sample disposal	Special Instructions	tructions		1				
Sample Receipt:				(Cost of di	ost of disposal will be billed to client)								
Total # of containers		-	1		1	LINE (NEW PORTONIA) DAME, LINE	pany new	(nwe)					
COC seals present? Intact?	Relinquished by: LCD LOTA	3 px:	Š	aven	2 Sentonne	Company	Aus	potra	Tac	1 etc	1/11	13	6
Temp at receipt? °C		Ξ	(print)		Signature)		1						777
Samples infact?	Received by:	7	0	1 SM	14	Company	200	Los L	×	7	イノブ	-	ť
Received Via:	_		(buldt)	2	(Signature)					naie	+	Time	2
Turn-ground Time Requirement C Standard (10 Business days)	Relinquished by:)	<i>†</i>		A	Ċ		5		7	7		10
☐ Rush (specify date needed)‡		5		1 9	5	Company	any.			Date	+	Time /	1
Specifical Specify 4-17-17	Received by:	F	Corint	Ž	(Signature)	, and a second	V	Do Ari			0/1/10		ļ
 additional charges may apply 			(print)		(Sloneture)		A III	2000		Date	111111	Time //	
		•											

Samples received after 12 noon will be considered as received the following business day

Rev. 1.1 11/04/14

R:\COC's\Blank Sub Spectra-K COC

2221 Ross Way, Tacoma Washington 98421 (253) 272-4850 INORGANIC CHEMICALS (IOCS) REPORT

	Rush Turn Around
	(Additional 50% Charge)
21-	MALAIAI

PRIMARY ONLY PRIM	IARY AND	SECONDARY	Y 🔲 SP	ECIFY BELO	W
Client Name: ES	P	roject Name: 🐈	1	57434	P
Client Address: 700 S. ladust or a Wa	Lu D	Pate Sampled:	4/6/12	Time Sample	d:8130A
Client Address: 700 S. Industrial Wa Seattle, WA 98108	5 8	ample Location(a	ddrass)	- Sumpion	DISUN
Phone: 20(0-952215 mail: 5/0/05 @ en			Table 1		
Phone: 20(0-95) 215 mail: 5 evans @ en	35 YS , CON	escription(ie. well	head)	Draw	
PUB	LIC SYSTE	MS ONLY		A STATE OF THE SERVE	
Water System ID Number:	S	ystem Name:			
System Group Type: (circle one) A B Other:	C	ounty:			
Sample Purpose: (check appropriate box)	S	ample Compositi	On: (check appropri	ate box)	
RC – Routine/Compliance (satisfies monitoring requirements) C – Confirmation (confirmation of chemical result)		S - Single So	urce		
I – Investigative (does not satisfy monitoring requirements)		B - Blended	,,		_,
O – Other (specify – does not satisfy monitoring requirements)		D - Distribut	ion sample		
Sample Collected by: (name)	Sa	ample Type: (chec	ck one)		
m v i		Untreated (rav			
Phone Number:		Treated			
	LADIGEO	Unknown			- Washington
	LAB USE O	NLY		0.0.1	
Date/Time Received: 4-6-17 oges Temp. p	7.2—Paid		Lab #: 11	8-3134	
Arsenic	RESULTS	UNITS	SRL	TRIGGER	MCL
Barium		mg/L	0.0014	0.010	0.010
Cadmium		mg/L	0.1	2	2
Chromium		mg/L	0.001	0.005	0.005
Mercury		mg/L	0.007	0.1	0.1
Selenium		mg/L	0.0002	0.002	0.002
Beryllium		mg/L mg/L	0.002	0.05	0.05
Antimony		mg/L mg/L	0.0003	0.004	0.004
Thallium		mg/L	0.003	0.006	0.006
Cyanide		mg/L	0.001	0.002	0.002
Fluoride		mg/L	0.5	2	0.2
Nitrite-N		mg/L	0.1	0.5	1
Nitrate-N		mg/L	0.5	5	10
Total Nitrate/Nitrite		mg/L	0.5	5	10
Iron		mg/L	0.1		0.3
Manganese		mg/L	0.01		0.05
Silver		mg/L	0.1		0.1
Chloride		mg/L	20		250
Sulfate		mg/L	50		250
Zinc		mg/L	0.2	U-10-	5
Sodium		mg/L	5		
Hardness		mg/L	10		-
Conductivity		umhos/cm	70		700
_ Turbidity Color		NTU	0.1		
TDS-Total Dissolved Solids		color units	15		15
Nickel		mg/L	100		500
Lead		mg/L	0.005		
Copper		mg/L	0.001		
Copper		mg/L	0.02		

SRL (State Reporting Level): The minimum reporting level established by the Washington State Department of Health (DOH).

Trigger Level: DOH drinking water response level. Systems with compounds detected at concentrations in excess of this level may be required to take additional samples or monitor more frequently.

SPECTRA Laboratories RUSH

Fee Applies

2221 Ross Way - Tacoma WA 98421 (253) 272-4850 www.spectra-lab.com

(===,==================================		
COLIFORM BA	CTERIA AI	NALYSIS
	ne Sample follected	County
	36 DPM	
Month Day Year	OLO DPM	PIERCE
Type of Water System (check only one	*	
☐ Group A ☐ Group	B □ P	rivate Well
Group A and Group B Systems - Provi	de from Water Fa	acilities Inventory (WFI):
ID#		_
System Name or Well Address if Priva	-	
Contact Person: Su San E		
Day Phone: (206) 957-215	Gen Pho	one: 206 /601-3257
Email Address: 5 evans Client Information: (Print full name, maili	er engs	Sys.com
ESI	ng address and zip	core)
7005, Industria	Q Way	
Seattle WA	98108	
Sample collected by (name):		
Sus	an Eva	
Specific location sample collected (well, bat	h): Special I	nstructions or comments:
2nd Fl Muster Tub		
PUBLIC SYSTEMS FILL OUT SHADED	AREA (must check	only one box of #1 - 5)
I. M Routine Distribution Sample	2. Repeat San	nple (A/P)
Chlorinated: Yes 🗶 No		n system after unsat. routine)
Chlorine Residual: TotalFree	Unsatisfact	ory routine lab number:
3. Ground Water Rule Source Sample		
S		ry routine collect date:
☐ Triggered (A/P)	i	/
— mggojou (ret)		/esNo
☐ Assesment (A/P)	Chlorine Resi	dual: Total Free
4. 🛘 Sample or GWI Raw Source Water S	ample (Enumeratio	on) S
☐ <i>E. coli</i> ☐ E. coli Filtered)
5. Sample Collected for Information		
Investigative Construction		Other
	VATER RESUL	
Unsatisfactory Total Coliform Prese		A Satisfactory
☐ E. coli present ☐ E. d ☐ Fecal coliform present ☐	<i>coli</i> absent 1 Feest coliform (sheart
Replacement Sample Required:	recai comonna	insent .
☐ Sample too old (>30 hours) ☐ T	NTC	
	urbid Culture	
Bacterial Density Results: Plate Count_	/ml.	E.coli /100ml.
Total Coliform/100ml.	Fecal Coliform	/100ml.
Date/Time Incubated 1520		Date and Time Received:
1.4.761	ed:	Temp://o_4/Rec'd by:
Date / Ime Analyzed: 405 Report Sample Number (DOH number plus five digits)	1350	Paid:
118 - 31342		, a.d.
110-11-17-		

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

04/18/2017

ESI

700 South Industrial Way Seattle, WA 98108-5231

Attn: Susan Evans

Project:

Hand-57434P

Client ID:

WH Drain

Sample Matrix: Drinking Water

Date Sampled:

04/06/2017

Date Received: 04/06/2017

Spectra Project: 2017040192

Spectra Number:1

<u>Analyte</u>	Result	<u>Units</u>	Method	Analyte	Result	Units	Method
Conductivity	160	umhos/c	EPA 120.1	Particle Count by LASER	42,150**	#/cc	NSF
Turbidity	1.6	NTU	EPA 180.1	Color	30	Color	SM 2120 B
Beryllium	ND *	mg/L	EPA 200.7	Total Hardness	39	mg/L	SM 2340 B
Iron	ND	mg/L	EPA 200.7	Total Dissolved Solids	110	mg/L	SM 2540 C
Sodium	11.5 *	mg/L	EPA 200.7	Total Suspended Solids	1.0	mg/L	SM 2540 D
Antimony	ND	mg/L	EPA 200.8	Chloride	ND	mg/L	$SM 4500-CL^{-}B$
Arsenic	ND	mg/L	EPA 200.8	Total Cyanide	ND *	mg/L	SM 4500-CN F
Barium	ND	mg/L	EPA 200.8	Fluoride	ND	mg/L	SM 4500-F ⁻ C
Cadmium	ND	mg/L	EPA 200.8	Nitrite	ND	mg/L-N	SM 4500-NO2 ⁻ B
Chromium	ND	mg/L	EPA 200.8	Sulfate	ND	mg/L	SM 4500-SO4 ⁻ E
Copper	ND	mg/L	EPA 200.8				
Lead	ND	mg/L	EPA 200.8				
Manganese	0.03	mg/L	EPA 200.8				
Nickel	ND	mg/L	EPA 200.8				
Silver	ND	mg/L	EPA 200.8				
Thallium	ND	mg/L	EPA 200.8				
Zinc	ND	mg/L	EPA 200.8				

EPA 200.9

EPA 245.1

mg/L-N Easy (1-Reagent)

mg/L-N Easy (1-Reagent)

SPECTRA LABORATORIES

Cooper, Laboratory Manager

ND *

ND

2.2

2.2

mg/L

mg/L

Page 1 of 1

al4/jac

Selenium

Mercury

Nitrate/Nitrite

Nitrate

^{*}Analyzed at Spectra Laboratories-Kitsap. See enclosed report. **For further detail on the particle count analysis please see the enclosed scan.

2221 Ross Way, Tacoma Washington 98421 (253) 272-4850 INORGANIC CHEMICALS (IOCS) REPORT

	011211101120 (1000) 1121 0111	
System ID No.:	System Name: Hand-57434P	
Lab/Sample No: 11831343	Date Collected: 04/06/2017	DOH Source No:
Mulitple Source Nos:	Sample Type:	Sample Purpose:
Date Received: 04/06/2017	Date Reported: 04/18/2017	Supervisor: The
Date Digested:	Date Analyzed:	Analyst:
County:		Group:
Sample Location:		Sample Description: WH Drain
Send Report To: ESI 700 South Industrial Way Seattle, WA 98108-5231	Bill To: ESI	<u>Spectra Order #</u> 2017040192

DOH#	ANALYTES	RESULTS	UNITS	SRL	TRIGGER	MCL	EXCE	EDS	Method/An	alyst
			REGULATED				Trigger ?	MCL ?		
4	7	ND	mg/l	0.002	0.01	0.01			EPA 200.8	SCJ
5	Barium	ND	mg/l	0.1	2	2			EPA 200.8	SCJ
6	Cadmium	ND	mg/l	0.002	0.005	0.005			EPA 200.8	SCJ
7	Chromium	ND	mg/l	0.01	0.1	0.1			EPA 200.8	SCJ
11	Mercury	ND	mg/l	0.0005	0.002	0.002			EPA 245.1	BJN
12	Selenium	ND *	mg/l	0.005	0.05	0.05			EPA 200.9	010
110	Beryllium	ND *	mg/l	0.003	0.004	0.004			EPA 200.7	010
111	Nickel	ND	mg/l	0.04	0.1	0.1			EPA 200.8	SCJ
112	Antimony	ND	mg/l	0.005	0.006	0.006			EPA 200.8	SCJ
113	Thallium	ND	mg/l	0.002	0.002	0.002			EPA 200.8	SCJ
116	Cyanide	ND *	mg/l	0.05	0.2	0.2			SM 4500-CN	010
19	Fluoride	ND	mg/l	0.2	2	4			SM 4500-F	SN
114	Nitrite-N	ND	mg/i	0.5	0.5	1			SM 4500-NO	KRD
20	Nitrate-N	2.2	mg/l	0.5	5	10			Easy (1-Re	KRD
161	Total Nitrate/Nitrite	2.2	mg/l	0.5	5	10			Easy (1-Re	KRD
e ID Q	THE ROLL SEED	EPA REGUI	ATED (Second	lary)			Trigger ?	MCL ?		100
8	Iron	ND	mg/l	0.1	0.3	0.3			EPA 200.7	SCJ
10	Manganese	0.03	mg/l	0.01	0.05	0.05			EPA 200.8	SCJ
13	Silver	ND	mg/l	0.01	0.1	0.1			EPA 200.8	SCJ
21	Chloride	ND	mg/l	20	250	250			SM 4500-CL	MK
22	Sulfate	ND	mg/l	10	250	250			SM 4500-SO	BJN
24	Zinc	ND	mg/i	0.2	5	5			EPA 200.8	SCJ
			REGULATED				Trigger ?	MCL ?		
14	Sodium	11.5 *	mg/l	5					EPA 200.7	010
15	Hardness	39	mg/l	10					SM 2340 B	SCJ
16	Conductivity	160	umhos/cm	10	700	700			EPA 120.1	MK
17	Turbidity	1.6	NTU	0.1	1	1			EPA 180.1	MK
18	Color	30	color units	5	15	15			SM 2120 B	MK
26	Total Dissoved Solids	110	mg/l	150	500	500			SM 2540 C	KRD
		STATE	<u>JNREGULATED</u>		Switzenstein		Trigger ?	MCL 2		J.
	Lead	ND	mg/l	0.002				Í	EPA 200.8	SCJ
23	Copper	ND	mg/l	0.2					EPA 200.8	SCJ

^{*} Analyzed by Spectra Laboratories-Kitsap, complete report enclosed.

SRL (State Reporting Level):

Indicates the minimum reporting level by the Washington Department of Health (DOH).

Trigger Level:

DOH Drinking Water response level. Systems with compounds detected at concentrations in excess

of this level are required to take additional samples. Contact your regional DOH office for further information.

MCL (maximum contaminant level): If the contaminant amount exceeds the MCL, immediately contact your regional DOH office.

ND (Not Detected):

in the results column indicates this compound was analyzed and not detected at a level greater than or equal

to the SRL.

SPECTRA Laboratories - Kitsap LLC

26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370

Telephone (360) 779-5141 FAX (360) 779-5150

IOC - SHORT

IOC - SHORT by Various EPA Approved Methods

Source / Point of Entry - Report of Analysis

Date Collected:

4/6/2017

System ID No:

Private

Lab - Sample #:

01035001 2017040192-1

Sample Location: Sample Purpose:

0

Sample Composition:

Send Report To:

Spectra Laboratories LLC

2221 Ross Way Tacoma, WA 98421 Group:

System Name:

2017040192-1

County:

DOH Source No:

Date Received:

4/7/2017

Date Reported:

4/13/2017

Sample Type:

Collected By:

Phone Number:

Bill To:

Spectra Laboratories LLC

2221 Ross Way Tacoma, WA 98421

DOH#	Analyte	Results	Units	SRL	Trigger	MCL	MCL. Exceeded	Method (Analyst Init.)	Date Analyzed
110	Beryllium	<0.0003	mg/L	0.0003	0.004	0.004		EPA 200.7 (KW)	04/11/17
116	Cyanide, Free	<0.05	mg/L	0.05	0.2	0.2		SM 4500-CN F (EC)	04/10/17
14	Sodium	11.5	mg/L	5				EPA 200.7 (KW)	04/11/17
12	Selenium	<0.002	mg/L	0.002	0.05	0.05		EPA 200.9 (KW)	04/12/17

*Confirmation:

Include the original lab number, sample number, and collection date of the original sample in the special instruction section.

SRL (State Reporting Level):

The minimum reporting level required by the Washington State Department of Health (DOH).

Trigger Level:

DOH drinking water response level. Regulated systems with compounds detected at concentrations in excess of this level may be required to take

additional samples or monitor more frequently. Please contact your DOH drinking water regional office for further information.

MCL (Maximum Contaminant Level):

If the contaminant amount exceeds the MCL, please contact your regional DOH office to determine follow-up actions if you are a regulated system. Secondary MCL limits are established for aesthetic purposes and are not health based. Secondary

parameters are iron, manganese, silver, chloride, sulfate, zinc, conductivity, color and TDS.

NA (Not Analyzed):

In the results column, indicates this compound was not included in the current analysis.

ND (Not Detected):

In the results column, indicates this compound was analyzed and not detected at a level greater than or equal to the SRL.

<(0.00x):

The compound was not detected in the sample at or above the concentration indicated (usually the lab method reporting limit).

mg/L:

milligrams per liter or parts per million

NTU:

nephelometric turbidity units (a measure of water clarity).

umhos/cm:

Micro ohms per centimeter (a measure of the ability of the water to conduct electricity). One micro ohm per centimeter is equivalent to one micro siemen per

centimeter (uS/cm).

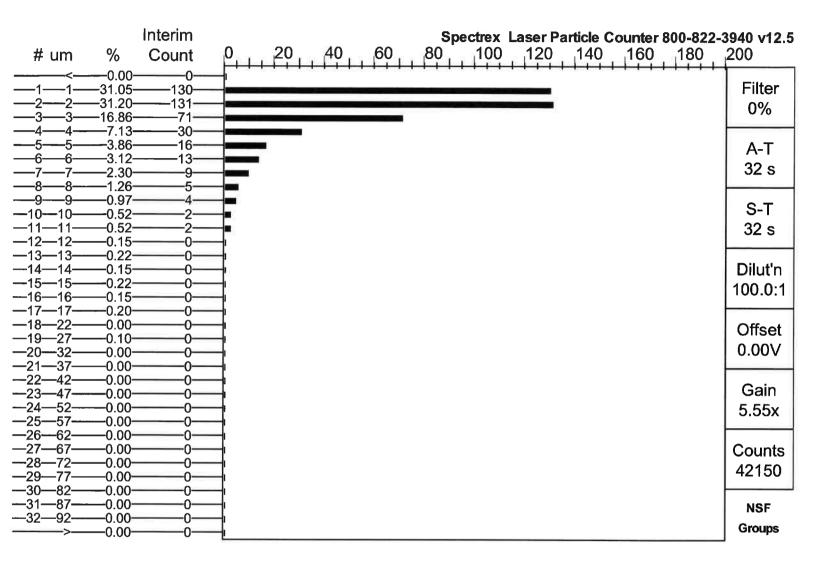
-: No existing trigger or MCL value.

www.twisslabs.com SPECTRA Laboratories – Kitsap, LLC 26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370 (360) 779-5141 FAX (360) 779-5150 www.twisslabs.

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Company/Client: Spectra							uz L		_	C				
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City: Tagoma					70700		_			oudo				
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Project Manager/Report To:	Marie Hoft					cq c		ac		N-1	orork	S	10	cıol
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Telephone No:253-272-4850	ĺ		Fax No	253-572-9838	2-9838	:slate natulk		3080		nA		N'	irono)i	ns Ho
Email address:marieh@spectra-lab.com	ctra-lab.com					umber o	Sb As 33 Rege		T :abild	irate-N	N+edle+N N	36	1831 Col	l goil: I
Sample ID	Date	Three	Matrix	Hezene	Clabi	R P	- 3	e l	S	N N	3	Tabard Marbard	94 S	DA I
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のther (specify) 4・(フ・い	Received by.	Tr	10kg	MAZ	No All	Company		1000	Fra	۵	Date 4/7/1)	<u></u>	// amil (V
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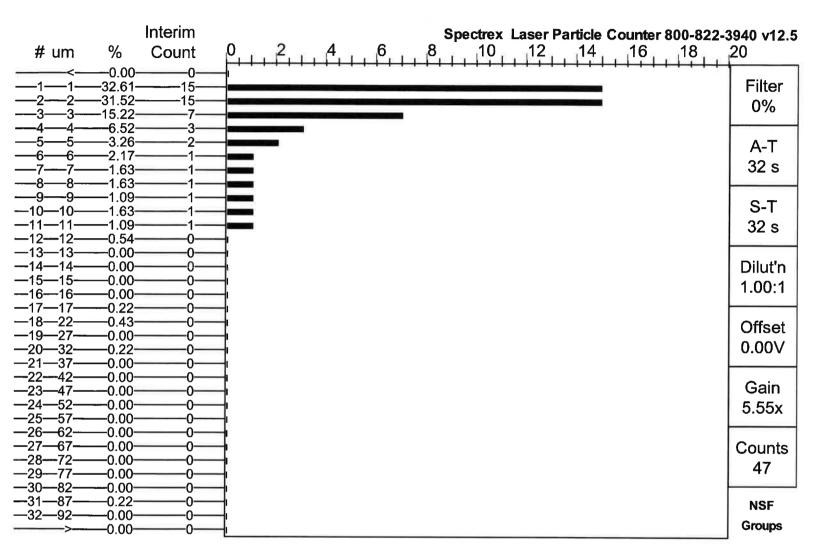
Rev. 1.1 11/04/14



Bin	Size	Total counts /cc	Counts percent	Surface area percent	Volume percent
	< 1	0.00	0.00%	0.00%	0.00%
1	1-5	36,356.72	86.26%	31.87%	14.58%
2	5-15	5,511.44	13.08%	51.68%	53.03%
3	15-30	281.84	0.67%	16.45%	32.39%
4	30-50	0.00	0.00%	0.00%	0.00%
	50-100	0.00	0.00%	0.00%	0.00%

Total counts: 42,150.00/cc Dilution factor: 100.00:1 Mean size: 2.75um Standard dev: 2.38um

		Total counts	Counts	Surface area	Volume
Bin	Size	/cc	percent	percent	percent
	<	0.00	0.00%	0.00%	0.00%
1	1um	13,089.67	31.05%	2.35%	0.50%
2	2um	13,152.30	31.20%	9.43%	3.36%
3	3um	7,108.51	16.86%	11.47%	5.54%
4	4um	3,006.24	7.13%	8.62%	5.17%
5	5um	1,628.38	3.86%	7.30%	5.18%
6	6um	1,315.23	3.12%	8.49%	6.90%
7	7um	970.77	2.30%	8.53%	7.78%
8	8um	532.36	1.26%	6.11%	6.16%
9	9um	407.10	0.97%	5.91%	6.51%
10	10um	219.21	0.52%	3.93%	4.69%
11	11um	219.21	0.52%	4.76%	6.09%
12	12um	62.63	0.15%	1.62%	2.21%
13	13um	93.95	0.22%	2.85%	4.13%
14	14um	62.63	0.15%	2.20%	3.38%
15	15um	93.95	0.22%	3.79%	6.13%
16	16um	62.63	0.15%	2.87%	4.88%
17	17um	83.51	0.20%	4.33%	7.68%
18	22um	0.00	0.00%	0.00%	0.00%
19	27um	41.75	0.10%	5.46%	13.71%
20	32um	0.00	0.00%	0.00%	0.00%
21	37um	0.00	0.00%	0.00%	0.00%
22	42 um	0.00	0.00%	0.00%	0.00%
23	47um	0.00	0.00%	0.00%	0.00%
24	52um	0.00	0.00%	0.00%	0.00%
25	57um	0.00	0.00%	0.00%	0.00%
26	62um	0.00	0.00%	0.00%	0.00%
27	67um	0.00	0.00%	0.00%	0.00%
28	72um	0.00	0.00%	0.00%	0.00%
29	77um	0.00	0.00%	0.00%	0.00%
30	82um	0.00	0.00%	0.00%	0.00%
31	87um	0.00	0.00%	0.00%	0.00%
32	92um	0.00	0.00%	0.00%	0.00%
	>	0.00	0.00%	0.00%	0.00%
	TOTALS	42,150.00	100.00%	100.00%	100.00%



Bin	Size	Total counts /cc	Counts percent	Surface area percent	Volume percent
	< 1	0.00	0.00%	0.00%	0.00%
1	1-5	40.36	85.87%	11.95%	1.48%
2	5-15	6.13	13.04%	24.05%	7.11%
3	15-30	0.31	0.65%	8.17%	4.63%
4	30-50	0.10	0.22%	6.65%	5.21%
	50-100	0.10	0.22%	49.17%	81.56%

Total counts: 47.00/cc Mean size: 3.05um Standard dev: 4.92um

Bin	Size	Total counts /cc	Counts percent	Surface area percent	Volume percent
	<	0.00	0.00%	0.00%	0.00%
1	1um	15.33	32.61%	0.97%	0.06%
	2um	14.82	31.52%	3.77%	0.37%
2 3	3um	7.15	15.22%	4.09%	0.54%
4	4um	3.07	6.52%	3.12%	0.51%
5	5um	1.53	3.26%	2.44%	0.47%
6	6um	1.02	2.17%	2.34%	0.52%
7	7um	0.77	1.63%	2.39%	0.60%
8	8um	0.77	1.63%	3.12%	0.86%
9	9um	0.51	1.09%	2.63%	0.80%
10	10um	0.77	1.63%	4.87%	1.60%
11	11um	0.51	1.09%	3.93%	1.38%
12	12um	0.26	0.54%	2.34%	0.88%
13	13um	0.00	0.00%	0.00%	0.00%
14	14um	0.00	0.00%	0.00%	0.00%
15	15um	0.00	0.00%	0.00%	0.00%
16	16um	0.00	0.00%	0.00%	0.00%
17	17um	0.10	0.22%	1.88%	0.92%
18	22um	0.20	0.43%	6.29%	3.72%
19	27um	0.00	0.00%	0.00%	0.00%
20	32um	0.10	0.22%	6.65%	5.21%
21	37um	0.00	0.00%	0.00%	0.00%
22	42um	0.00	0.00%	0.00%	0.00%
23	47um	0.00	0.00%	0.00%	0.00%
24	52um	0.00	0.00%	0.00%	0.00%
25	57um	0.00	0.00%	0.00%	0.00%
26	62um	0.00	0.00%	0.00%	0.00%
27	67um	0.00	0.00%	0.00%	0.00%
28	72um	0.00	0.00%	0.00%	0.00%
29	77um	0.00	0.00%	0.00%	0.00%
30	82um	0.00	0.00%	0.00%	0.00%
31	87um	0.10	0.22%	49.17%	81.56%
32	92um	0.00	0.00%	0.00%	0.00%
	>	0.00	0.00%	0.00%	0.00%
	TOTALS	47.00	100.00%	100.00%	100.00%

2221 Ross Way, Tacoma Washington 98421 (253) 272-4850 INORGANIC CHEMICALS (IOCS) REPORT

	Rush Turn Around
4 DID 0	(Additional 50% Charge)

PRIMARY ONLY PRI	MARY AN	D SECONDAR	Y 🔲 SI	PECIFY BELO)W
Client Name: ES		Project Name:	1	7434P	
Client Address: 700 5 Industrial Way		Date Sampled:	1/1/12	Time Sample	d: 8130
Seattle, WA 981081	Sample Location	address)	This sample	- 013U	
Phone: 206-957-2154 Email:s evans Quenasy	S. COM	Description(ie. well		Drain	
		EMS ONLY			
Water System ID Number:		System Name:			
System Group Type: (circle one) A B Other:		County:			
Sample Purpose: (check appropriate box) RC - Routine/Compliance (satisfies monitoring requirement) C - Confirmation (confirmation of chemical result) I - Investigative (does not satisfy monitoring requirements) O - Other (specify - does not satisfy monitoring requirements) Sample Collected by: (name) Phone Number:	Sample Composition: (check appropriate box) S - Single Source B - Blended C - Composite D - Distribution sample Sample Type: (check one) Untreated (raw) Treated Unknown				
Date/Time Received: 4-1-1-	LAB USE			. 7.741	0
Date/Time Received: 4-6-17 0945 Temp.			Lab #: 1	18-3134	ク
ANALYTE	RESULTS		SRL	TRIGGER	MCL
Barium		mg/L	0.0014	0.010	0.010
Cadmium		mg/L	0.1	2	2
Chromium		mg/L	0.001	0.005	0.005
Mercury		mg/L	0.007	0.1	0.1
Selenium		mg/L	0.0002	0.002	0.002
Beryllium		mg/L	0.002	0.05	0.05
Antimony	ļ	mg/L	0.0003	0.004	0.004
Thallium		mg/L	0.003	0.006	0.006
Cyanide	-	mg/L	0.001	0.002	0.002
Fluoride	-	mg/L	0.01	0.2	0.2
Nitrite-N		mg/L	0.5	2	4
Nitrate-N		mg/L	0.1	0.5	1
Total Nitrate/Nitrite		mg/L	0.5	5	10
Iron		mg/L	0.5	5	10
Manganese		mg/L	0.1		0.3
Silver		mg/L	0.01		0.05
Chloride		mg/L	0.1		0.1
Sulfate		mg/L	20		250
Zinc		mg/L	50		250
Sodium		mg/L	0.2		5
Hardness		mg/L	5		
Conductivity		mg/L	10		
Turbidity		umhos/cm	70		700
Color		NTU	0.1		B-14
TDS-Total Dissolved Solids		color units	15		15
Nickel		mg/L	100		500
Lead		mg/L	0.005		
Copper		mg/L	0.001		
1 Cobhor		mg/L	0.02		

SRL (State Reporting Level): The minimum reporting level established by the Washington State Department of Health (DOH).

Trigger Level: DOH drinking water response level. Systems with compounds detected at concentrations in excess of this level may be required to take additional samples or monitor more frequently.

SPECTRA Laboratories 2017040192

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

LABORATORY ANALYSIS REQUEST

Client Name: ES Attn: Susan Evans	5
Address: 700 S. Industrial Way	
City: Seattle State: WA Zip: 98108	
City: Seattle State: WA Zip: 98108 Phone # 206-957-2154 Fax or Email: slevans@engsys.co	m
Payment Method	
Check Money Order Visa/MC (Please write in credit card information below)	
Card # Exp. Date CVC#	
Project Name: Hand - 57434 P Sample ID: WH Down Date Sampled: 4/4/7	
Turn Around	
Standard (7-10 business days) Rush(24-48hr)	
FILTRATION SYSTEM WATER CHECK INCLUDES	
Particle Count T.S.S.	
(quantifies number and size distribution of particles) (Total Suspended Solids)	
Fee \$59.00(standard) \$88.50(rush)	
Sampling Directions: 1. Rinse and shake bottle thoroughly (with the lid on) three times using the water to be tested. (1 - Liter Bottle) 2. Fill Bottle Completely. 3. Record Information on bottle label. 4. Wrap bottle in bubble wrap provided. 5. Place bottle in baggy and seal. 6. Complete this form and enclose in box with payment. 7. Seal box securely.	

Please feel free to call us if you have questions or additional testing needs. 1-877-452-5132

SPECTRA Laboratories

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04/18/2017

ESI

Silver

Zinc

Thallium

Selenium

Mercury

Nitrate/Nitrite

Nitrate

700 South Industrial Way Seattle, WA 98108-5231

Attn: Susan Evans

Project: Hand-57434P

Client ID: HW-MTub Faucet

Sample Matrix: Drinking Water Date Sampled: 04/06/2017

Date Received: 04/06/2017

Spectra Project: 2017040193

Spectra Number: 1

Analyte	Result	Units	Method	Analyte	Result	I Inita	Mathad
						<u>Units</u>	Method
Conductivity	160	umhos/c	EPA 120.1	Particle Count by LASER	37,850**	* #/cc	NSF
Turbidity	2.6	NTU	EPA 180.1	Color	> 60	Color	SM 2120 B
Beryllium	ND *	mg/L	EPA 200.7	Total Hardness	36	mg/L	SM 2340 B
Iron	0.07	mg/L	EPA 200.7	Total Dissolved Solids	120	mg/L	SM 2540 C
Sodium	11.7 *	mg/L	EPA 200.7	Total Suspended Solids	2.0	mg/L	SM 2540 D
Antimony	ND	mg/L	EPA 200.8	Chloride	ND	mg/L	$SM 4500-CL^-B$
Arsenic	ND	mg/L	EPA 200.8	Total Cyanide	ND *	mg/L	SM 4500-CN F
Barium	ND	mg/L	EPA 200.8	Fluoride	ND	mg/L	SM 4500-F ⁻ C
Cadmium	ND	mg/L	EPA 200.8	Nitrite	ND	mg/L-N	SM 4500-NO2 ⁻ B
Chromium	ND	mg/L	EPA 200.8	Sulfate	ND	mg/L	SM 4500-SO4 ⁻ E
Copper	0.05	mg/L	EPA 200.8				
Lead	0.005	mg/L	EPA 200.8				
Manganese	0.08	mg/L	EPA 200.8				
Nickel	ND	mg/L	EPA 200.8				

SPECTRA LABORATORIES

Topic Cooper, Laboratory Manager

ND

ND

ND

ND *

ND

0.95

0.95

mg/L

mg/L

mg/L

mg/L

mg/L

EPA 200.8

EPA 200.8

EPA 200.8

EPA 200.9

EPA 245.1

mg/L-N Easy (1-Reagent)

mg/L-N Easy (1-Reagent)

Page 1 of 1

^{*}Analyzed at Spectra Laboratories-Kitsap. See enclosed report. **For further detail on the particle count analysis please see the enclosed scan.

2221 Ross Way, Tacoma Washington 98421 (253) 272-4850 INORGANIC CHEMICALS (IOCS) REPORT

System ID No.:	System Name: Hand-57434P					
Lab/Sample No: 11831344	Date Collected: 04/06/2017	DOH Source No:				
Mulitple Source Nos:	Sample Type:	Sample Purpose:				
Date Received: 04/06/2017	Date Reported: 04/18/2017	Supervisor: TAC				
Date Digested:	Date Analyzed:	Analyst:				
County:		Group:				
Sample Location:		Sample Description: HW-MTub Faucet				
Send Report To: ESI 700 South Industrial Way Seattle, WA 98108-5231	Bill To: ESI ,	<u>Spectra Order #</u> 2017040193				

DOH#	ANALYTES	RESULTS	UNITS	SRL	TRIGGER	MCL	EXCEEDS	Method/An	alvst
M			REGULATED		THE STATE OF THE S	I III O E	Trigger ? MCL		
4	Arsenic	ND	mg/l	0.002	0.01	0.01	1	EPA 200.8	SC.
5	Barium	ND	mg/l	0.1	2	2		EPA 200.8	SC.
6	Cadmium	ND	mg/l	0.002	0.005	0.005		EPA 200.8	SC.
7	Chromium	ND	mg/l	0.01	0.1	0.1		EPA 200.8	SC.
11	Mercury	ND	mg/l	0.0005	0.002	0.002		EPA 245.1	BJN
12	Selenium	ND *	mg/l	0.005	0.05	0.05		EPA 200.9	010
110	Beryllium	ND*	mg/l	0.003	0.004	0.004		EPA 200.7	010
111	Nickel	ND	mg/l	0.04	0.1	0.1		EPA 200.8	SC
112	Antimony	ND	mg/l	0.005	0.006	0.006		EPA 200.8	SC.
113	Thallium	ND	mg/l	0.002	0.002	0.002		EPA 200.8	SC.
116	Cyanide	ND*	mg/l	0.05	0.2	0.2		SM 4500-CN	010
19	Fluoride	ND	mg/l	0.2	2	4		SM 4500-F	SN
114	Nitrite-N	ND	mg/l	0.5	0.5	1		SM 4500-NO	KRI
20	Nitrate-N	0.95	mg/l	0.5	5	10		Easy (1-Re	KRI
161	Total Nitrate/Nitrite	0.95	mg/l	0.5	5	10		Easy (1-Re	KRI
20 12		EPA REGU	LATED (Second	lary)			Trigger ? MCL	?	2101
8	Iron	0.07	mg/l	0.1	0.3	0.3		EPA 200.7	SC.
10	Manganese	0.08	mg/l	0.01	0.05	0.05		EPA 200.8	SC
13	Silver	ND	mg/l	0.01	0.1	0.1		EPA 200.8	SC.
21	Chloride	ND	mg/l	20	250	250		SM 4500-CL	МК
· 22	Sulfate	ND	mg/l	10	250	250		SM 4500-SO	BJN
24	Zinc	ND	mg/t	0.2	5	5		EPA 200.8	sc.
-11	THE LEGISLAND		REGULATED				Trigger ? MCL		
14	Sodium	11.7 *	mg/l	5				EPA 200.7	010
15	Hardness	36	mg/l	10				SM 2340 B	SC.
16	Conductivity	160	umhos/cm	10	700	700		EPA 120.1	MK
17	Turbidity	2.6	NTU	0.1	1	1		EPA 180.1	MK
18	Color	> 60	color units	5	15	15		SM 2120 B	мк
26	Total Dissoved Solids	120	mg/l	150	500	500		SM 2540 C	KRI
			UNREGULATE				Trigger ? MCL		
9	Lead	0.005	mg/l	0.002				EPA 200.8	SC.
23	Copper	0.05	mg/l	0.2				EPA 200.8	SC.
									_

^{*} Analyzed by Spectra Laboratories-Kitsap, complete report enclosed.

SRL (State Reporting Level):

Indicates the minimum reporting level by the Washington Department of Health (DOH).

Trigger Level:

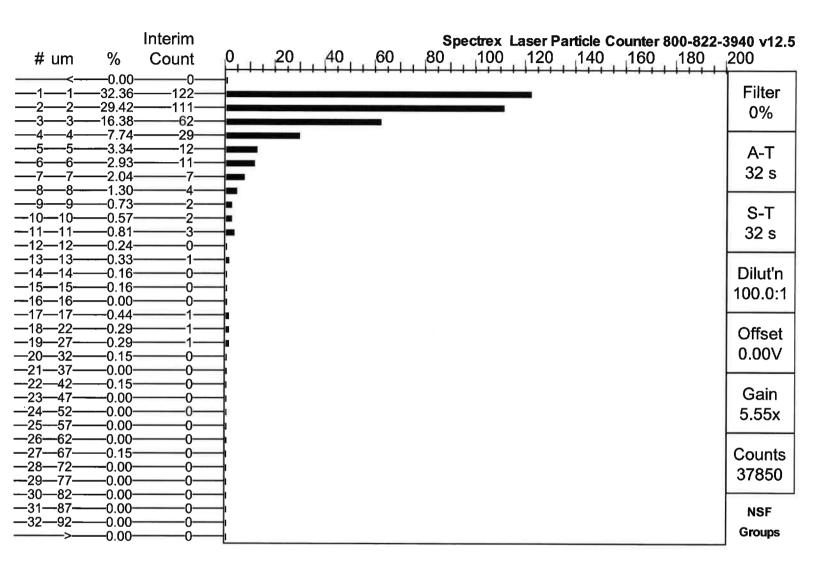
DOH Drinking Water response level. Systems with compounds detected at concentrations in excess

of this level are required to take additional samples. Contact your regional DOH office for further information.

MCL (maximum contaminant level): If the contaminant amount exceeds the MCL, immediately contact your regional DOH office.

ND (Not Detected):

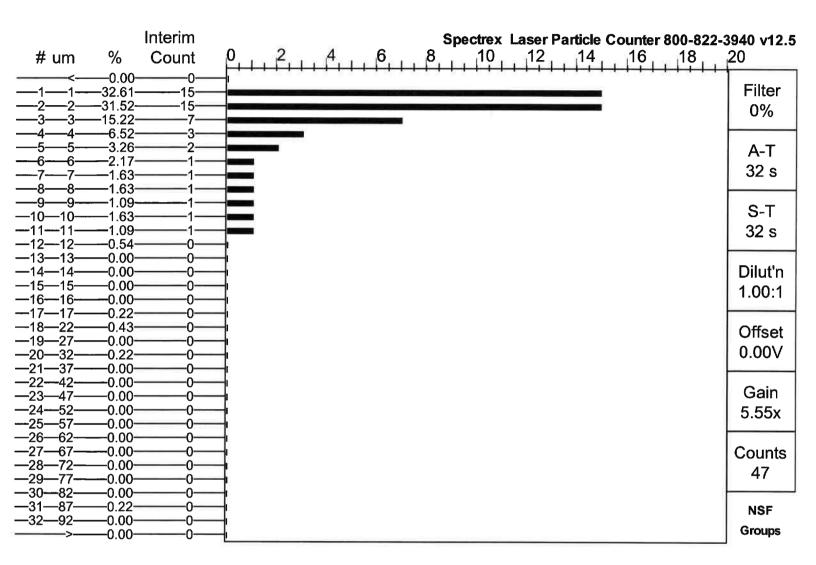
in the results column indicates this compound was analyzed and not detected at a level greater than or equal to the SRL.



Bin	Size	Total counts /cc	Counts percent	Surface area percent	Volume percent
	< 1	0.00	0.00%	0.00%	0.00%
1	1-5	32,513.37	85.90%	15.50%	2.91%
2	5-15	4,719.68	12.47%	26.11%	11.33%
3	15-30	450.37	1.19%	19.12%	16.88%
4	30-50	111.05	0.29%	15.05%	19.96%
	50-100	55.53	0.15%	24.22%	48.93%

Total counts: 37,850.00/cc
Dilution factor: 100.00:1
Mean size: 3.06um
Standard dev: 4.22um

Bin 	Size	Total counts /cc	Counts percent	Surface area percent	Volume percent
	<	0.00	0.00%	0.00%	0.00%
1	1um	12,246.50	32.36%	1.19%	0.10%
	2um	11,135.98	29.42%	4.33%	0.63%
2 3	3um	6,200.37	16.38%	5.42%	1.07%
4	4um	2,930.52	7.74%	4.56%	1.11%
5	5um	1,264.75	3.34%	3.07%	0.89%
6	6um	1,110.51	2.93%	3.89%	1.28%
7	7um	771.19	2.04%	3.67%	1.36%
8	8um	493.56	1.30%	3.07%	1.26%
9	9um	277.63	0.73%	2.19%	0.98%
10	10um	215.93	0.57%	2.10%	1.02%
11	11um	308.48	0.81%	3.63%	1.89%
12	12um	92.54	0.24%	1.30%	0.72%
13	13um	123.39	0.33%	2.03%	1.20%
14	14um	61.70	0.16%	1.18%	0.73%
15	15um	61.70	0.16%	1.35%	0.89%
16	16um	0.00	0.00%	0.00%	0.00%
17	17um	166.58	0.44%	4.68%	3.38%
18	22um	111.05	0.29%	5.22%	4.58%
19	27um	111.05	0.29%	7.87%	8.04%
20	32um	55.53	0.15%	5.53%	6.41%
21	37um	0.00	0.00%	0.00%	0.00%
22	42um	55.53	0.15%	9.52%	13.54%
23	47um	0.00	0.00%	0.00%	0.00%
24	52um	0.00	0.00%	0.00%	0.00%
25	57um	0.00	0.00%	0.00%	0.00%
26	62um	0.00	0.00%	0.00%	0.00%
27	67um	55.53	0.15%	24.22%	48.93%
28	72um	0.00	0.00%	0.00%	0.00%
29	77um	0.00	0.00%	0.00%	0.00%
30	82um	0.00	0.00%	0.00%	0.00%
31	87um	0.00	0.00%	0.00%	0.00%
32	92um	0.00	0.00%	0.00%	0.00%
	>	0.00	0.00%	0.00%	0.00%
	TOTALS	37,850.00	100.00%	100.00%	100.00%



		Total		Surface	
Bin	Size	counts	Counts	area	Volume
DIII	Size	/cc	percent	percent	percent
	< 1	0.00	0.00%	0.00%	0.00%
1	1-5	40.36	85.87%	11.95%	1.48%
2	5-15	6.13	13.04%	24.05%	7.11%
3	15-30	0.31	0.65%	8.17%	4.63%
4	30-50	0.10	0.22%	6.65%	5.21%
	50-100	0.10	0.22%	49.17%	81.56%

Total counts: 47.00/cc Mean size: 3.05um Standard dev: 4.92um

Bin	Size	Total counts /cc	Counts percent	Surface area percent	Volume percent
	<	0.00	0.00%	0.00%	0.00%
1	1um	15.33	32.61%	0.97%	0.06%
	2um	14.82	31.52%	3.77%	0.37%
2 3	3um	7.15	15.22%	4.09%	0.54%
4	4um	3.07	6.52%	3.12%	0.51%
5	5um	1.53	3.26%	2.44%	0.47%
6	6um	1.02	2.17%	2.34%	0.52%
7	7um	0.77	1.63%	2.39%	0.60%
8	8um	0.77	1.63%	3.12%	0.86%
9	9um	0.51	1.09%	2.63%	0.80%
10	10um	0.77	1.63%	4.87%	1.60%
11	11um	0.51	1.09%	3.93%	1.38%
12	12um	0.26	0.54%	2.34%	0.88%
13	13um	0.00	0.00%	0.00%	0.00%
14	14um	0.00	0.00%	0.00%	0.00%
15	15um	0.00	0.00%	0.00%	0.00%
16	16um	0.00	0.00%	0.00%	0.00%
17	17um	0.10	0.22%	1.88%	0.92%
18	22um	0.20	0.43%	6.29%	3.72%
19	27um	0.00	0.00%	0.00%	0.00%
20	32um	0.10	0.22%	6.65%	5.21%
21	37um	0.00	0.00%	0.00%	0.00%
22	42um	0.00	0.00%	0.00%	0.00%
23	47um	0.00	0.00%	0.00%	0.00%
24	52um	0.00	0.00%	0.00%	0.00%
25	57um	0.00	0.00%	0.00%	0.00%
26	62um	0.00	0.00%	0.00%	0.00%
27	67um	0.00	0.00%	0.00%	0.00%
28	72um	0.00	0.00%	0.00%	0.00%
29	77um	0.00	0.00%	0.00%	0.00%
30	82um	0.00	0.00%	0.00%	0.00%
31	87um	0.10	0.22%	49.17%	81.56%
32	92um	0.00	0.00%	0.00%	0.00%
	>	0.00	0.00%	0.00%	0.00%
	TOTALS	47.00	100.00%	100.00%	100.00%

SPECTRA Laboratories - Kitsap LLC

26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370 Telephone (360) 779-5141 FAX (360) 779-5150

IOC - SHORT

IOC - SHORT by Various EPA Approved Methods

Source / Point of Entry - Report of Analysis

Date Collected:

4/6/2017

System ID No:

Private

Lab - Sample #:

01035101

Sample Location:

2017040193-1

Sample Purpose:

Sample Composition:

Send Report To:

Spectra Laboratories LLC

2221 Ross Way Tacoma, WA 98421 Group:

System Name:

2017040193-1

County:

DOH Source No:

Date Received:

4/7/2017

4/13/2017

Date Reported:

Sample Type: Collected By:

Phone Number:

Bill To:

Spectra Laboratories LLC

2221 Ross Way Tacoma, WA 98421

DOH#	Analyte	Results	Units	SRL	Trigger	MCL	MCL Exceeded	Method (Analyst Init.)	Date Analyzed
110	Beryllium	<0.0003	mg/L	0.0003	0.004	0.004		EDA 200 P GOVE	1
116	Cyanide, Free	<0.05	mg/L	0.05	0.2	0.2		EPA 200.7 (KW)	04/11/17
14	Sodium	11.7	mg/L	5.05	0.2	V.2		SM 4500-CN F (EC)	04/10/17
12	Selenium	<0.002		0000				EPA 200.7 (KW)	04/11/17
	Dotomin	\0.00Z	mg/L	0.002	0.05	0.05		EPA 200.9 (KW)	04/12/17

*Confirmation:

Include the original lab number, sample number, and collection date of the original sample in the special instruction section.

SRL (State Reporting Level):

The minimum reporting level required by the Washington State Department of Health (DOH).

Trigger Level:

DOH drinking water response level. Regulated systems with compounds detected at concentrations in excess of this level may be required to take additional samples or monitor more frequently. Please contact your DOH drinking water regional office for further information.

MCL (Maximum Contaminant Level):

If the contaminant amount exceeds the MCL, please contact your regional DOH office to determine follow-up actions if you are a regulated system. Secondary MCL limits are established for aesthetic purposes and are not health based. Secondary parameters are iron, manganese, silver, chloride, sulfate, zinc, conductivity, color and TDS.

NA (Not Analyzed):

In the results column, indicates this compound was not included in the current analysis.

ND (Not Detected):

In the results column, indicates this compound was analyzed and not detected at a level greater than or equal to the SRL. The compound was not detected in the sample at or above the concentration indicated (usually the lab method reporting limit).

< (0.00x): mg/L:

milligrams per liter or parts per million

NTU:

nephelometric turbidity units (a measure of water clarity).

umbos/cm:

Micro ohms per centimeter (a measure of the ability of the water to conduct electricity). One micro ohm per centimeter is equivalent to one micro siemen per centimeter (uS/cm).

No existing trigger or MCL value.

www.twisslabs.com SPECTRA Laboratories – Kitsap, LLC 26276 Twelve Trees Lane, Suite C Poulsbo, WA 98370 (360) 779-5141 FAX (360) 779-5150 www.twisslabs.

Address: 2221 R City: Tacoma Project Manager/Rep Project Name: 10 Telephone No: 253 Email address: masemal # of containers COC seals present? Temp at receipt? Samples Intact? Received Via: Turn-eround Time Regul	Company/Client Spectra							uZ						E	1
COV_Tabona. Cov_Tabona. Cov_Tabona. Cov_Tabona. Cov_Tabona. Cov_Tov_Cov_Tabona. Cov_Tov_Tov_Cov_Tabona. Cov_Tov_Tov_Cov_Tabona. Cov_Tov_Cov_Tabona. Cov_Tov_Cov_Tabona.	Address: 2221 Ross Way						gAs			(Hat/	9-etsrto				
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	‡ additional charges may apply		-	print))	(Signature)			1	7	Date		Ime	?	

Samples received after 12 noon will be considered as received the following business day

R:\COC's\Blank Sub Spectra-K COC

Rev. 1.1 11/04/14

2221 Ross Way, Tacoma Washington 98421 (253) 272-4850 INORGANIC CHEMICALS (IOCS) REPORT

		Rush	Turn	Arou	nd
		(Additi	onal 50	% Charg	e)
w	17	040	192	7	

Client Name: Client Address 700 5 Aut of Cl Day Seattle WA 98108 Project Name: Stampled: S 74 34 C Date Sampled: Sampled: S 74 34 C Sample Control Conditional Stampled: S 74 34 C Sample Control Conditional Stampled: S 74 34 C Water System ID Number: System Stampled: South Face Sample Purpose: (select agreement loss) Selection monitoring requirements) S Sample Composition: (select agreement loss) S Sample Source B - Blended D - Distribution sample Sample Collected by: (sease) S Sample Type: (shock me) D - Distribution sample Sample Composition: (select agreement loss) D - Distribution sample Sample Composition: (select agreement loss) S Sample Type: (shock me) Do - Other (spexity - does not satisfy monitoring requirements) D - Distribution sample Sample Composition: (select agreement loss) D - Distribution sample Sample Composition: (select agreement loss) D - Distribution sample Sample Composition: (select agreement loss) S Sample Composition: (select agreement loss) B - C - Composition: (select agreement loss) D - Distribution sample Sample Type: (shock me) D - Distribution sample Sample Composition: (select agreement loss) B - Distribution sample S - Single Source B - Blended D - Distribution sample Sample Composition: (select agreement loss) B - Distribution sample S - Single Source B - Single Source D - Distribution sample Sample Composition: (select agreement loss) B - Distribution sample D - Distribution sample Sample Composition: (select agreement loss) B - Distribution sample D - Distribution	PRIMARY ONLY PRIMARY	AND SECONDAI	DV G	0011040	
Date Sample County:	Client Name:		. 1		
Phone: ZPL 95 7-2154 Email: selecte Devia 515.com Public System Composition Description Descr	Client Address: 700 5 1 1 + + + + 1		ltpyd -	57434P	
Phone: 20	100 3 IMPSTRIA Way	Date Sampled:	4/6/17	Time Sample	ed: 8 40
Plant Start Star	Scattle, WA 981081	Sample Location	L(address)		15
Water System ID Number: System Sont	Phone: 206 987-2154 Email:s evans De na sis, com	Description(ie. w		NT 1 -	
System Group Type: (circle cace) A B Other: Sample Purpose: (check agreeprists box) RC - Routine/Compliance (satisfies menitring requirements) C - Confirmation (continuation of chemical result) I - Investigative (close not satisfy monitoring requirements) O - Other (reposit) - does not satisfy monitoring requirements) Sample Collected by: (same) Sample Type: (check one) Untreated (raw) Treated Unknown LAB USE ONIX Arsenic ANALYIE RESULTS INF Arsenic ANALYIE RESULTS INF Arsenic Barium Mg/L O.0014 O.010 O.010 O.010 Barium Mg/L O.0014 O.0015 O.002 O.002 O.002 O.002 O.002 O.002 O.003 Mercury Mg/L O.0002 O.002 O.003 Mercury Mg/L O.0003 O.004 Antimony Mg/L O.003 O.004 Antimony Mg/L O.001 Thallium Mg/L O.001 O.003 O.004 O.004 Thallium Mg/L O.001 O.005 O.005 Nitrite-N Manganese Mg/L O.01 Total Nitrate/Nitrite Mg/L O.01 Manganese Mg/L O.01 Mg/L O.01 O.05 Manganese Mg/L O.01 Mg/L O.01 Manganese Mg/L O.01 Mg/L O.00	PURIACSY	CHEMIC AND	MW.	11106 1	ducer
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Sample Purpose: (check apreopriate box)	System Group Type: (circle one) A B Other:				
D - Distribution sample Sample Collected by: (name) Collected from Coll	RC – Routine/Compliance (satisfies monitoring requirements) C – Confirmation (confirmation of chemical result)	Sample Composi	ource	-	•
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Phone Number:	Sample Collected by: (name)	L D - Distribu	ition sample		
ANALYTE RESULTS UNIX SH UNIX UNI	T (D tro	Untreated (ra	aw)		
Arsenic RESULTS UNIS SRL TRIGGER MCL	Date/Time Received: 4-6-17: 0945: Temp. 32.9. I	aid	1 ab # 1 i	18-21211	u .
Remin	ANALYTE			2,41	
Darlum	Alsenic				
Chromium					
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Meteury Mete		mg/L			
Beryllium		mg/L	0.0002		
Antimony mg/L 0.0003 0.004 0.004		mg/L	0.002		
Thallium		mg/L	0.0003		
Cyanide mg/L 0.001 0.002 0.002 Fluoride mg/L 0.01 0.2 0.2 Nitride-N mg/L 0.5 2 4 Nitrate-N mg/L 0.1 0.5 1 Total Nitrate/Nitrite mg/L 0.5 5 10 Iron mg/L 0.1 0.3 Manganese mg/L 0.01 0.05 Silver mg/L 0.01 0.05 Chloride mg/L 0.01 0.05 Sulfate mg/L 20 250 Sodium mg/L 50 250 Sodium mg/L 0.2 5 Hardness mg/L 10 Conductivity mm/L 0.1 Turbidity color units 15 15 Total Dissolved Solids		mg/L	0.003		
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Sulfate mg/L 20	Silver				0.05
Zinc mg/L 50 250 Sodium mg/L 0.2 5 Hardness mg/L 10 Conductivity mg/L 10 700 Turbidity NTU 0.1 TDS-Total Dissolved Solids mg/L 100 500 Nickel mg/L 0.005 Lead mg/L 0.001 Copper mg/L 0.001	Chloride				0.1
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Hardness mg/L 5 Conductivity mg/L 10 Turbidity umhos/cm 70 700 Color Color units 15 15 TDS-Total Dissolved Solids mg/L 100 500 Nickel mg/L 0.005 Lead mg/L 0.001 Copper mg/L 0.002					
Conductivity					5
Turbidity umhos/cm 70 700 Color NTU 0.1 TDS-Total Dissolved Solids mg/L 100 500 Lead mg/L 0.005 Copper mg/L 0.001				Ark san	
Color					
Color Color units 15 15 TDS-Total Dissolved Solids mg/L 100 500 Nickel mg/L 0.005 Copper mg/L 0.001 Copper mg/L 0.02					700
Nickel mg/L 100 500 Lead mg/L 0.005 Copper mg/L 0.02					
Nickel 100 500	TDS-Total Dissolved Solids				
Copper mg/L 0.001	Nickel				
mg/L 0.02					

tate Reporting Level): The minimum reporting level established by the Washington State Department of Health (DOH).

Trigger Level: DOH drinking water response level. Systems with compounds detected at concentrations in excess of this level may be required to take additional samples or

MCL (maximum contaminant level): If the contaminant amount exceeds the MCL, please contact your regional DOH office to determine follow-up actions

SPECTRA Laboratories

W17040193

2221 Ross Way • Tacoma, WA 98421 • (253) 272-4850 • Fax (253) 572-9838 • www.spectra-lab.com

LABORATORY ANALYSIS REQUEST

Client Name: ES Attn: Susan Evans
Address: 700 S. Industrial Way
City: Seattle State: WA Zip: 98108
City: Seattle State: WA Zip: 98108 Phone # 206-957-2154 Fax or Email: 5/evans@engsys.com
Payment Method Check Money Order Visa/MC (Please write in credit card information below)
Card # Exp. Date CVC#
Project Name: Hand - 57434 P Sample ID Weard - M Jub Date Sampled: 4/4/17
Turn Around
Standard (7-10 business days) LX Rush(24-48hr)
FILTRATION SYSTEM WATER CHECK INCLUDES
Particle Count T.S.S.
(quantifies number and size distribution of particles) (Total Suspended Solids)
Fee \$59.00(standard) \$88.50(rush)
Sampling Directions: 1. Rinse and shake bottle thoroughly (with the lid on) three times using the water to be tested. (1 - Liter Bottle) 2. Fill Bottle Completely. 3. Record Information on bottle label. 4. Wrap bottle in bubble wrap provided. 5. Place bottle in baggy and seal. 6. Complete this form and enclose in box with payment. 7. Seal box securely.

Please feel free to call us if you have questions or additional testing needs. 1-877-452-5132