

November 8, 2012



Bringing Energy To Life™

State of Washington  
Department of Ecology  
Water Resources Program  
Post Office Box 47775  
Olympia, WA 98504-7775

Attn: Section Manager

RE: GROUND WATER PERMIT NO. 7439  
BLUFFS WELL / TAG #AHM614  
PORT ANGELES COMPOSITE

Dear Sir:

One of the provisions listed in your letter dated February 5, 2009, regarding the extension of the District's Ground Water Permit No. 7439, included the analysis of chloride and conductivity. We have completed semi-annual monitoring since 1999; test results for 2012 are enclosed.

We monitored the static water level in the new observation well simultaneous with collecting the water sample. The static water level on April 10, 2012 was 180'14", and on September 19, 2012 it was 181'31".

Water use data is recorded each work day and reported on the DOE website each month.

If you have any questions regarding this information, please contact me at 360.565.3449 or [tomm@clallampud.net](mailto:tomm@clallampud.net).

Sincerely,

A handwritten signature in blue ink that reads "Tom Martin".

Tom Martin  
Water/Wastewater Systems  
Assistant Superintendent

TM/va  
Enclosures

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NOV 15 2012

WA State Department  
of Ecology (SWRO)

Commissioners: Will Purser, District No. 1 • Hugh Haffner, District No. 2 • Ted Simpson, District No. 3 General Manager: Doug Nass

PUD No. 1 of Clallam County • 2431 East Highway 101 • P. O. Box 1090 • Port Angeles, WA 98362-0207 • [www.clallampud.net](http://www.clallampud.net)

Office 360-452-9771 • Fax 360-452-9338

Bluffs Well ?



Burlington WA Corporate Office 1620 S Walnut St - 98233 800.755.9295 • 360.757.1400

Bellingham WA Microbiology 805 Orchard Dr Ste 4 - 98225 360.671.0688

Portland OR Microbiology/Chemistry 9150 SW Pioneer Ct Ste W- 97070 503.682.7802



### INORGANIC COMPOUNDS (IOC) REPORT

Client Name: PUD NO.1 of Clallam County  
 PO BOX 1090  
 2431 Highway 101 East  
 Port Angeles, WA 98362

Reference Number: 12-05479  
 Project: PUD NO. 1 of Clallam County

System Name: PORT ANGELES COMPOSITE  
 System ID Number: 432960  
 DOH Source Number: 01  
 Multiple Sources:  
 Sample Type: A - After treatment  
 Sample Purpose: C - Compliance  
 Sample Location: Finished Tap at Well  
 County: Clallam

Sample Number: Bluffs Well  
 Lab Number: 046-12807  
 Collect Date: 4/10/12 10:30  
 Date Received: 4/11/12  
 Report Date: 4/20/12  
 Sampled By: George Crabb  
 Sampler Phone: 360-565-3254  
 Released by:

sol ?

DOH#	ANALYTES	RESULTS	UNITS	SRL	Trigger	MCL	Analyst	METHOD	Analyzed	COMMENT
16	<b>Other</b> ELECTRICAL CONDUCTIVITY	131	uS/cm	10		700	srf	SM2510 B	04/13/12	
21	<b>EPA Regulated (Secondary)</b> CHLORIDE	2.4	mg/L	0.1		250	bj	300.0	04/11/12	
15	HARDNESS as Calcium Carbonate	56.4	mg/L	3.30			bj	200.7	04/18/12	
Static wtr level is 180.14										

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**NOTES:**  
 SRL (State Reporting Level): indicates the minimum reporting level required by the Washington Department of Health (DOH).  
 MCL (Maximum Contaminant Level) maximum permissible level of a contaminant in water established by EPA, Federal Action Levels are 0.015 mg/L for Lead and 1.3 mg/L for Copper. Sodium has a recommended limit of 20 mg/L. A blank MCL value indicates a level is not currently established.  
 Trigger Level: DOH Drinking Water Response level. Systems with compounds detected in excess of this level are required to take additional samples. Contact your regional DOH office.  
 ND (Not Detected): indicates that the parameter was not detected above the Specified Reporting Limit (SRL).  
 An \* in front of the parameter name indicates it is not NELAP accredited but it is accredited through WSDOH or USEPA Region 10.  
 These test results meet all the requirements of NELAC, unless otherwise stated in writing, and relate only to these samples.  
 If you have any questions concerning this report contact us at the above phone number.

Bluffs Well 502



Burlington WA  
Corporate Office

Bellingham WA  
Microbiology

Portland OR  
Microbiology/Chemistry

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360.671.0888

9150 SW Pioneer Ct Ste W- 97070  
503.682.7802



### INORGANIC COMPOUNDS (IOC) REPORT

Client Name: PUD NO.1 of Clallam County  
PO BOX 1090  
2431 Highway 101 East  
Port Angeles, WA 98362

Reference Number: 12-16255  
Project: Bluffs Well

System Name: PORT ANGELES COMPOSITE  
System ID Number: 43296  
DOH Source Number: 02  
Multiple Sources:  
Sample Type: A - After treatment  
Sample Purpose: C - Compliance  
Sample Location: Finished tap at well  
County: Clallam

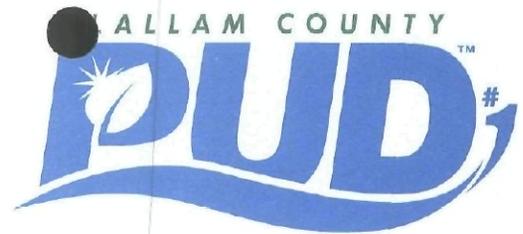
Sample Number: Bluffs Well  
Lab Number: 046-37278  
Collected Date: 9/19/12 14:30  
Date Received: 9/20/12  
Report Date: 10/17/12  
Sampled By: Derek Thompson  
Sampler Phone: 360-565-3254  
Released by:

DOH#	ANALYTES	RESULTS	UNITS	SRL	Trigger	MCL	Analyst	METHOD	Analyzed	COMMENT
16	<b>Other</b> ELECTRICAL CONDUCTIVITY	363	uS/cm	10		700	srf	SM2510 B	09/20/12	
20	<b>EPA Regulated</b> NITRATE-N	1.34	mg/L	0.100	5	10	bj	300.0	09/20/12 10:49	
21	<b>EPA Regulated (Secondary)</b> CHLORIDE	12	mg/L	0.1		250	bj	300.0	09/20/12	
15	HARDNESS as Calcium Carbonate	127.6	mg/L	3.30			bj	200.7	09/25/12	
Static wtr level is 181.31										

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**NOTES:**  
SRL (State Reporting Level): indicates the minimum reporting level required by the Washington Department of Health (DOH).  
MCL (Maximum Contaminant Level): maximum permissible level of a contaminant in water established by EPA. Federal Action Levels are 0.015 mg/L for Lead and 1.3 mg/L for Copper. Sodium has a recommended limit of 20 mg/L. A blank MCL value indicates a level is not currently established.  
Trigger Level: DOH Drinking Water Response level. Systems with compounds detected in excess of this level are required to take additional samples. Contact your regional DOH office.  
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November 1, 2011



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Department of Ecology  
Water Resources Program  
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of Ecology (SWRO)

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RE: GROUND WATER PERMIT NO. 7439  
BLUFFS WELL / TAG #AHM614  
PORT ANGELES COMPOSITE

Dear Sir:

One of the provisions listed in your letter dated February 5, 2009, regarding the extension of the District's Ground Water Permit No. 7439, included the analysis of chloride and conductivity. We have completed semi-annual monitoring since 1999; test results for 2011 are enclosed.

We monitored the static water level in the new observation well simultaneous with collecting the water sample. The static water level on April 14, 2011 was 180'7", and on September 7, 2011 it was 180'6".

Water use data is recorded each work day and reported on the DOE website each month.

If you have any questions regarding this information, please contact me at 360.565.3449 or [tomm@clallampud.net](mailto:tomm@clallampud.net).

Sincerely,

A handwritten signature in blue ink that reads "Tom Martin".

Tom Martin  
Water/Wastewater Systems  
Assistant Superintendent

TM/va  
Enclosures

CG 2-GWP 7439

18

Commissioners: Will Purser, District No. 1 • Hugh Haffner, District No. 2 • Ted Simpson, District No. 3 General Manager: Doug Nass

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**FILE COPY**

**INORGANIC COMPOUNDS (IOC) REPORT**

Client Name: PUD NO.1 of Clallam County  
 PO BOX 1090  
 2431 Highway 101 East  
 Port Angeles, WA 98362

Reference Number: 11-05280  
 Project: Bluffs

System Name: PORT ANGELES COMPOSITE  
 System ID Number: 432960  
 DOH Source Number: 01  
 Multiple Sources:  
 Sample Type: A - After treatment  
 Sample Purpose: C - Compliance  
 Sample Location: Finished tap at well  
 County: Clallam

Sample Number: Bluffs  
 Lab Number: 046-11686  
 Collect Date: 4/12/11 09:55  
 Date Received: 4/13/11  
 Report Date: 4/22/11  
 Sampled By: George Crabb  
 Sampler Phone: 360-565-3254  
 Released by:

DOH#	ANALYTES	RESULTS	UNITS	SRL	Trigger	MCL	Analyst	METHOD	Analyzed	COMMENT
16	<b>Other</b> ELECTRICAL CONDUCTIVITY	<b>365</b>	uS/cm	10		700	srf	SM2510 B	04/14/11	
21	<b>EPA Regulated (Secondary)</b> CHLORIDE	<b>13</b>	mg/L	0.1		250	mvp	300.0	04/14/11	
15	HARDNESS as Calcium Carbonate	<b>168</b>	mg/L	3.30			bj	200.7	04/15/11	
	STATIC WATER LEVEL	180.7								

**NOTES:**  
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 MCL (Maximum Contaminant Level): maximum permissible level of a contaminant in water established by EPA; Federal Action Levels are 0.015 mg/L for Lead and 1.3 mg/L for Copper. Sodium has a recommended limit of 20 mg/L. A blank MCL value indicates a level is not currently established.  
 Trigger Level: DOH Drinking Water Response level. Systems with compounds detected in excess of this level are required to take additional samples. Contact your regional DOH office.  
 ND (Not Detected): indicates that the parameter was not detected above the Specified Reporting Limit (SRL).  
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Corporate Office

Bellingham WA  
Microbiology

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805 Orchard Dr Ste 4 98225  
360 671 0688

3400 SW Pioneer St Ste W 97070  
503 682 7802



## INORGANIC COMPOUNDS (IOC) REPORT

Client Name: PUD NO.1 of Clallam County  
PO BOX 1090  
2431 Highway 101 East  
Port Angeles, WA 98362

Reference Number: 11-14235  
Project: Bluffs Well

System Name: FAIRVIEW (LUD #1/LUD #11 BLUFFS)  
System ID Number: 432960  
DOH Source Number: 02  
Multiple Sources:  
Sample Type: A - After treatment  
Sample Purpose: C - Compliance  
Sample Location: Finished Tap at Well  
County: Clallam

Sample Number: Bluffs Well  
Lab Number: 046-31453  
Collect Date: 9/7/11 09:05  
Date Received: 9/8/11  
Report Date: 9/15/11  
Sampled By: D. Thompson  
Sampler Phone: 360-565-3254  
Released by:

DOH#	ANALYTES	RESULTS	UNITS	SRL	Trigger	MCL	Analyst	METHOD	Analyzed	COMMENT
16	<b>Other</b> ELECTRICAL CONDUCTIVITY	<b>368</b>	uS/cm	10		700	srf	SM2510 B	09/13/11	
21	<b>EPA Regulated (Secondary)</b> CHLORIDE	<b>13</b>	mg/L	0.1		250	bj	300.0	09/09/11	
0	IRON	<b>ND</b>	mg/L	0.050		0.3	bj	200.7	09/13/11	
0	HARDNESS as Calcium Carbonate	<b>153.3</b>	mg/L	3.30			bj	200.7	09/13/11	
0	MANGANESE	<b>ND</b>	mg/L	0.005		0.05	bj	200.7	09/13/11	
0	HYDROGEN ION (pH)	<b>6.98</b>	pH Units				srf	SM4500-H+ B	09/08/11 15 03	
	STATIC WATER LEVEL	180.6								

**NOTES**

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Trigger Level: DOH Drinking Water Response level. Systems with compounds detected in excess of this level are required to take additional samples. Contact your regional DOH office.  
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