

**GROUNDWATER SAMPLING
EVENT REPORT
JUNE 30, 2015**

**FORMER FLINTSTONE FUEL SITE
2840 C BLACKLAKE BOULEVARD SW
TUMWATER, WASHINGTON**

Prepared By

Paul W. Stemen

Stemen Environmental, Inc.

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LOCATION MAP, SURVEYORS MAP, LABORATORY ANALYSES DATA,
AND WELL LOGS

STEMEN ENVIRONMENTAL, INC.

PO BOX 3644
LACEY, WA. 98509-3644
CONTR. LIC. #STEMEEI081J9

Telephone 360-438-9521 Fax 360-412-1225

June 30, 2015

Mr. John Meek
Meek Logging
Olympia, Washington

Dear Mr. Meek:

RE: QUARTERLY GROUNDWATER MONITORING EVENT FOR FORMER
FLINSTONE FUEL SITE LOCATED AT 2840 - C BLACKLAKE BOULEVARD SW,
TUMWATER, WASHINGTON.

1.0 MONITORING WELL INSTALLATION

On February 19, 2015, four (4) groundwater monitoring wells were installed at selected locations on the subject site. The one (1) inch diameter PVC monitoring wells were installed using a Direct Push Probe operated by licensed well drillers from ESN Northwest, Inc, Olympia, Washington. The monitoring wells were advanced to approximate depths of 25 b.g.s. (below ground surface) and screened, with a pre-packed screen, at depths of approximately 5 to 25 feet b.g.s.

The monitoring wells were properly developed by the removal of ten (10) volumes of water from each of the wells using a low flow pump.

Measurable quantities of water were found to be present in all of the monitoring wells on the dates of their installation.

2.0 GROUNDWATER ELEVATIONS AND DIRECTION OF GROUNDWATER FLOW

Groundwater elevations were measured, during the groundwater sampling event using an electronic water level indicator. Groundwater depths were measured from the northern side of the top of the well casing/pipe.

On May 21, 2015, depth to groundwater measurements were obtained from the four (4) on-site groundwater monitoring wells. Groundwater was present in monitoring well MW1 at a depth of 6.93 ft., MW2 - 4.64 ft., MW3 - 3.44 ft., and MW4 - 4.86 ft.

The inferred direction of groundwater flow was determined to be to northeast on this date.

Approximate direction of groundwater flow was determined using the relative groundwater elevations in three wells installed in a triangular configuration. The groundwater elevation in each well was calculated by surveying the top of each well casing, and subtracting the measured depth to groundwater from the same surveyed points.

The groundwater gradient was then calculated using the three point problem, in which the calculated gradient is perpendicular to the contour line connecting the mid-elevation well with the line between the low and high points at the elevation of the mid-elevation well.

Groundwater gradients were determined by John Kane, Licensed Geologist/Hydrogeologist #1193, of Kane Environmental, Inc.

Monitoring well, top of casing/pipe elevations were surveyed by Coastal Land Surveying. (See attached survey map)

3.0 GROUNDWATER SAMPLING

Prior to sampling, the monitoring wells were properly purged by removing a minimum of three (3) casing volumes (4.8 gallons) of water from the wells using a peristaltic pump set a low flow rate.

On May 21, 2015, representative samples of the groundwater present in each of the on-site groundwater monitoring wells were obtained. The representative groundwater samples were obtained from the waters present in the upper portion of the screened interval of the well and approximately 12 inches below the measured water level using a variable speed peristaltic pump operating set at the lowest flow rating and disposable PVC tubing that was replaced prior to each individual sampling event.

The sampled waters were transferred directly into laboratory supplied containers for temporary storage and transport.

All waters generated during purging activities were placed in appropriate containers for transportation to an appropriate off-site treatment/disposal facility.

All disposable PVC tubing was properly disposed as solid waste.

Water samples MW1, MW2, MW3, and MW4 were submitted for appropriate laboratory analyses.

Ground water sampling was performed by Paul Stemen of Stemen Environmental, Inc.

Laboratory analyses results for groundwater water samples MW1, MW2, MW3, and MW4 reported no detectable presence of gasoline range T.P.H. and/or B.T.E.X.s in these sampled waters.

4.0 LABORATORY ANALYSES

All samples were tightly packed in recommended containers with no head space, properly refrigerated and transported with proper chain of custody forms to ESN Northwest, Inc., of Olympia, Washington for appropriate laboratory analyses. Groundwater samples were screened for Gasoline Range TPH (Total Petroleum Hydrocarbons) using methods NWTPH-Gx , and B.T.E.X.s (Benzene, Toluene, Ethylbenzene, and Xylenes) using E.P.A. method 8260. These analytical methods meet all current Department of Ecology recommendations for groundwater sample analyses and quality controls.

5.0 HEALTH AND SAFETY

1. All on-site work was performed under the Health and Safety guidelines set forth in sections 29 CRF 1910.120 of the Federal Register and Chapter 296-62 WAC which provide regulations for individuals who are engaged in activities involving hazardous substances, including petroleum, and who perform confined space entry during field activities, also Chapter 296-155 WAC which provides State safety standards for construction work.

2. All on-site workers were 40 hour Hazmat certified.

6.0 SUMMARY AND CONCLUSIONS

The following summary and conclusions are based on information gathered during on-site investigations described in this report.

1. On May 21, 2015, groundwater elevations were measured in the four (4) on-site groundwater monitoring wells.

Groundwater was present in the on-site monitoring wells at depths of 3.44 ft. - 6.93 ft.

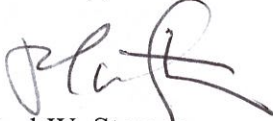
Based on the May 21, 2015 groundwater elevation measurements, the inferred direction of groundwater flow is to the northeast. Groundwater gradients were determined by John Kane, Licensed Geologist/Hydrogeologist #1193, of Kane Environmental, Inc.

2. On August 15, 2016, representative samples of the groundwater present in on-site monitoring wells MW1, MW2, MW3 and MW4 were obtained and submitted for appropriate laboratory analyses.

Laboratory analyses results for groundwater water samples MW1, MW2, MW3, and MW4 reported no detectable presence of gasoline range T.P.H. and/or B.T.E.X.s in these sampled waters.

If you have any questions or require further information please feel free to contact us at the above phone number.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Paul W. Stemen', with a stylized flourish at the end.

Paul W. Stemen
Ecology-Registered Site Assessment Supervisor
IFCI #0874201-26
ASTM Certificate

APPENDIX A

**LABORATORY ANALYSES
CHARTS, MONITORING WELL
LOCATION MAP, SURVEYORS
MAP, LABORATORY ANALYSES
DATA, AND WELL LOGS**

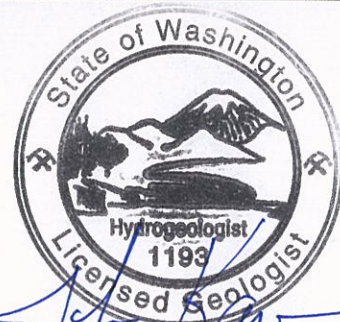
MONITORING WELL EVENT 1

ANALYSIS OF DIESEL RANGE ORGANICS, LUBE OIL RANGE ORGANICS, GASOLINE RANGE ORGANICS & BTEX IN WATER BY METHOD NWTPH Dx/Dx EXTENDED AND METHOD NWTPH-Gx/8260								
SAMPLE NUMBER	SAMPLE DATE	BENZENE	TOLUENE	ETHYL-BENZENE	TOTAL XYLENES	GASOLINE RANGE ORGANICS	DIESEL RANGE ORGANICS	LUBE OIL RANGE ORGANICS
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW1	5/21/15	ND	ND	ND	ND	ND	ND	ND
MW2	5/21/15	ND	ND	ND	ND	ND	ND	ND
MW3	5/21/15	ND	ND	ND	ND	ND	ND	ND
MW4	5/21/15	ND	ND	ND	ND	ND	ND	ND
REPORTING LIMITS		1	1	1	3	100	250	500
METHOD "A" CLEAN UP LEVEL		5	1000	700	1000	*1000	2000	2000
* BENZENE NOT PRESENT								
TOTAL LEAD IN WATER BY METHOD EPA-6020								
SAMPLE NUMBER	SAMPLE DATE	LEAD (Pb)						
		ug/L						
MW1	5/21/15	ND						
MW2	5/21/15	ND						
MW3	5/21/15	ND						
MW4	5/21/15	ND						
MAY 21, 2015 GROUNDWATER MONITORING EVENT								
WELL NUMBER	TOC	GW DEPTH	GW ELEV.					
MW1	132.76	6.93	125.83					
MW2	129.76	4.64	125.23					
MW3	129.21	3.44	125.77					
MW4	129.63	4.86	124.77					



LEGEND

- Approximate Property Boundary
 - ⊕ Approximate Locations of Groundwater Monitoring Wells
(Groundwater Elevations above Mean Sea Level)
 - ➔ Approximate Calculated Direction of Groundwater Flow (5/21/15)
Based on Elevations in MW-1, MW-2, and MW-4
- 0 50 100
- Approximate Scale in Feet



JOHN R. KANE



Flintstone Fuel
2840-C Black Lake Blvd
Tumwater, Washington

Figure 3a
Site Plan with
Groundwater Elevations
(5/21/2015)

SW 1/4 OF THE N.E. 1/4 OF SECTION 29, TWP. 18 N., RGE. 2 W., W.M.

June 5, 2015

Paul Stemen
Stemen Environmental
P.O. Box 3644
Lacey, WA 98509

Dear Mr. Stemen:

Please find enclosed the analytical data report for the Flintstone Fuel Project in Olympia, Washington. Water samples were analyzed for Diesel and Oil by NWTPH-Dx/Dx Extended, Gasoline by NWTPH-Gx, BTEX by Method 8260, and Pb by Method 6020 on May 27 - June 2, 2015.

The results of these analyses are summarized in the attached tables. Applicable detection limits and QA/QC data are included. An invoice for this work is also enclosed.

ESN Northwest appreciates the opportunity to have provided analytical services to Stemen Environmental for this project. If you have any further questions about the data report, please give me a call. It was a pleasure working with you on this project, and we look forward to the next opportunity to work together.

Sincerely,



Michael A. Korosec
President

ESN NORTHWEST CHEMISTRY LABORATORY

Stemen Environmental, Inc
PROJECT FLINTSTONE FUEL
Tumwater, Washington

ESN Northwest
1210 Eastside Street SE Suite 200
Olympia, WA 98501
(360) 459-4670 (360) 459-3432 Fax
lab@esnsw.com

Analysis of Diesel Range Organics & Lube Oil Range Organics in Water by Method NWTPH-Dx Extended

Sample Number	Date Prepared	Date Analyzed	Surrogate Recovery (%)	Diesel Range Organics (ug/L)	Lube Oil Range Organics (ug/L)
Method Blank	5/27/2015	5/27/2015	127	nd	nd
LCS	5/27/2015	5/27/2015	124	98%	---
MW1	5/27/2015	5/27/2015	121	nd	nd
MW2	5/27/2015	5/27/2015	132	nd	nd
MW3	5/27/2015	5/27/2015	124	nd	nd
MW4	5/27/2015	5/27/2015	142	nd	nd
Reporting Limits				250	500

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE : 50% TO 150%

ESN NORTHWEST CHEMISTRY LABORATORY

Stemen Environmental, Inc
PROJECT FLINTSTONE FUEL
Tumwater, Washington

ESN Northwest
1210 Eastside Street SE Suite 200
Olympia, WA 98501
(360) 459-4670 (360) 459-3432 Fax
lab@esnww.com

Analysis of Gasoline Range Organics & BTEX in Water by Method NWTPH-Gx/8260

Sample Number	Date Analyzed	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes (ug/L)	Gasoline Range Organics (ug/L)	Surrogate Recovery (%)
Method Blank	6/1/2015	nd	nd	nd	nd	nd	102
LCS	6/1/2015	109%	118%	126%	118%	82%	77
LCSD	6/1/2015	93%	102%	112%	99%	---	78
MW1	6/2/2015	nd	nd	nd	nd	nd	101
MW2	6/1/2015	nd	nd	nd	nd	nd	76
MW3	6/1/2015	nd	nd	nd	nd	nd	81
MW4	6/2/2015	nd	nd	nd	nd	nd	92
Reporting Limits		1.0	1.0	1.0	3.0	100	

"nd" Indicates not detected at the listed detection limits.

"int" Indicates that interference prevents determination.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE (Bromofluorobenzene) & LCS: 65% TO 135%

ESN NORTHWEST CHEMISTRY LABORATORY

Stemen Environmental, Inc
PROJECT FLINTSTONE FUEL
Tumwater, Washington

ESN Northwest
1210 Eastside Street SE Suite 200
Olympia, WA 98501
(360) 459-4670 (360) 459-3432 Fax
lab@esnnw.com

Total Lead in Water by EPA-6020 Method

Sample Number	Date Analyzed	Lead (Pb) (ug/L)
Method Blank	5/28/2015	nd
MW1	5/28/2015	nd
MW2	5/28/2015	nd
MW3	5/28/2015	nd
MW4	5/28/2015	nd

Reporting Limits 2.0

"nd" Indicates not detected at listed detection limits.

QA/QC Data - Total Metals EPA-6020

	Laboratory Control Sample			Laboratory Control Sample Duplicate			RPD
	Spiked Conc. (ug/L)	Measured Conc. (ug/L)	Spike Recovery (%)	Spiked Conc. (ug/L)	Measured Conc. (ug/L)	Spike Recovery (%)	
Lead	20.0	22.9	115	20.0	23.3	117	1.73

ACCEPTABLE RECOVERY LIMITS FOR MATRIX SPIKES: 80%-120%
ACCEPTABLE RPD IS 35%

CHAIN-OF-CUSTODY RECORD

CLIENT: Stemmed Environmental Inc DATE: 5/21/2015 PAGE 1 OF 1

ADDRESS: Robertson Hwy, 1400 PROJECT NAME: Fluorocarbon for size

PHONE: 360-459-4524 FAX: LOCATION: Tumwater, wa

CLIENT PROJECT #: Fluorocarbon COLLECTOR: Paul Strand DATE OF COLLECTION: 5/21

Sample Number	Depth	Time	Sample Type	Container Type	ANALYSES										NOTES	Total Number of Containers	Laboratory Note Number
					TPH - HCL	TPH - Diesel & Oil	TPH - Gasoline	VOC 8260CL	Semivol 8270	PCB's 8270	CL pesticides 8082	RCRA 8 Metals	Pb	Asbestos - PLM			
1. <u>mw1</u>			<u>1120</u>														
2. <u>mw2</u>			<u>1</u>														
3. <u>mw3</u>																	
4. <u>mw4</u>																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	
11.																	
12.																	
13.																	
14.																	
15.																	
16.																	
17.																	
18.																	

RELINQUISHED BY (Signature)	DATE/TIME	RECEIVED BY (Signature)	DATE/TIME	LABORATORY NOTES:
<u>[Signature]</u>	<u>5/21/2015</u>	<u>[Signature]</u>	<u>5-21-15</u>	TOTAL NUMBER OF CONTAINERS CHAIN OF CUSTODY SEALS Y/N/NA SEALS INTACT? Y/N/NA RECEIVED GOOD COND./COLD NOTES:
<u>[Signature]</u>	<u>5/21/2015</u>	<u>[Signature]</u>	<u>1600</u>	
<u>[Signature]</u>	<u>5/21/2015</u>	<u>[Signature]</u>	<u>1600</u>	

Turn Around Time: 24 HR 48 HR 5 DAY

Phone: 360-459-4670

Fax: 360-459-3432

1210 Eastside Street SE, Suite 200
Olympia, Washington 98501

Website: www.esnwa.com

E-Mail: info@esnwa.com

Please print, sign and return to the Department of Ecology

RESOURCE PROTECTION WELL REPORT

CURRENT Notice of Intent No. RE10973

SUBMIT ONE WELL REPORT PER WELL INSTALLED)

Construction/Decommission ("x" in box)

- ☒ Construction
☐ Decommission

ORIGINAL INSTALLATION Notice of Intent Number:

Consulting Firm

Unique Ecology Well ID Tag No. BIM-141

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accepted responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Driller ☐ Engineer ☐ Trainee

Name (Print Last, First Name) Harnden, Don

Driller/Engineer/Trainee Signature [Signature]

Driller or Trainee License No. 2914

Drill trainee, licensed driller's Signature and License Number:

Type of Well ("x" in box)

- ☒ Resource Protection
☐ Geotech Soil Boring

Property Owner Michael Wood

Site Address 2860 Black Lake Blvd

City Tumwater County Thurston

Location SW1/4-1/4 NE1/4 Sec 29 Twn 18 R 02

EWM ☐ or WWM ☒

Lat/Long (s, t, r) Lat Deg _____ Min _____ Sec _____

still REQUIRED) Long Deg _____ Min _____ Sec _____

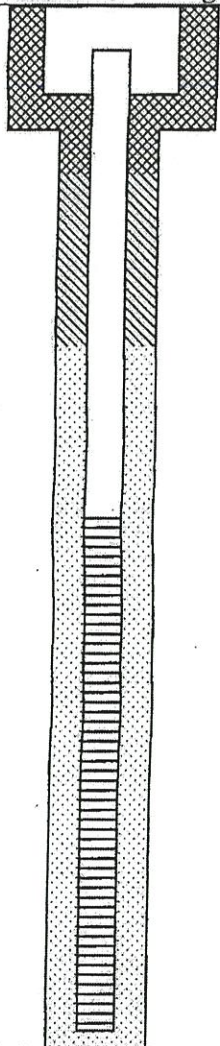
Tax Parcel No. 12829130202

Cased or Uncased Diameter 1" Static Level 7

Work/Decommission Start Date 2/19/15

Work/Decommission Completed Date 2/19/15

Construction Design



Well Data

MONUMENT TYPE:

Flush mount

CONCRETE SURFACE SEAL:

04

ANNULAR SPACE:

BACKFILL: 1-4

TYPE: bentonite

PVC BLANK: 0-5

SCREEN: 5-25

SLOT SIZE: .010

TYPE: 1" prepack screen

SAND PACK: 4-25

MATERIAL: 10/20 silica sand

DRILLING METHOD: DPT

WELL DEPTH: 25

BORING DIAMETER:

Formation Description

0-10 sand and gravel

10-25 sand

RECEIVED

MAR 19 2015

WA State Department
of Ecology (SWRO)

SCALE: 1"= _____ PAGE 2 OF 4

The Department of Ecology does NOT warrant the Data and/or the Information on this Well Report

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Construction/Decommission ("x" in box)

- ☐ Construction
☐ Decommission

ORIGINAL INSTALLATION Notice of Intent Number:

Consulting Firm

Unique Ecology Well IDTag No. BIM-140

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accept responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

I Driller ☐ Engineer ☐ Trainee
Name (Print Last, First Name) Harnden, Don
Driller/Engineer/Trainee Signature [Signature]
Driller or Trainee License No. 2914

If trainee, licensed driller's Signature and License Number:

Type of Well ("x" in box)

- ☒ Resource Protection
☐ Geotech Soil Boring

Property Owner Michael Wood

Site Address 2860 Black Lake Blvd

City Tumwater County Thurston

Location SW 1/4-1/4 NE 1/4 Sec 29 Twn 18 R 02

EWM ☐ or WWM ☒

Lat/Long (s, t, r) Lat Deg _____ Min _____ Sec _____

still REQUIRED)

Long Deg _____ Min _____ Sec _____

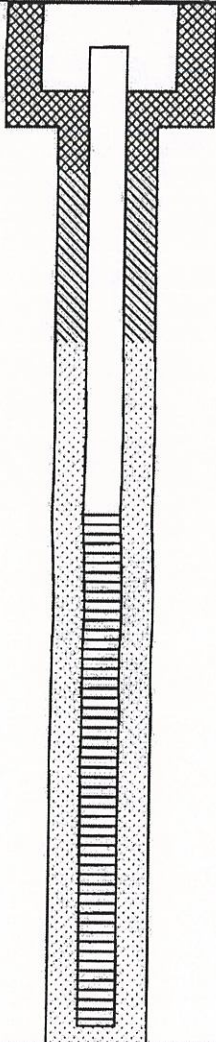
Tax Parcel No. 12829130202

Cased or Uncased Diameter 1" Static Level 7

Work/Decommission Start Date 2/19/15

Work/Decommission Completed Date 2/19/15

Construction Design



Well Data

MONUMENT TYPE:

Flush mount

CONCRETE SURFACE SEAL:

0-1

ANNULAR SPACE:

BACKFILL: 1-4

TYPE: bentonite

PVC BLANK: 0-5

SCREEN: 5-25'

SLOT SIZE: .010

TYPE: 1" prepack screen

SAND PACK: 4-25'

MATERIAL: 10/20 silica sand

DRILLING METHOD: DPT

WELL DEPTH: 25

BORING DIAMETER:

Formation Description

0-10 sand and peat

10-25 sand

RECEIVED

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Construction/Decommission ("x" in box)

- ☐ Construction
☐ Decommission

ORIGINAL INSTALLATION Notice of Intent Number:

Consulting Firm

Unique Ecology Well ID Tag No. BIM - 143

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accepted responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Driller ☐ Engineer ☐ Trainee

Name (Print Last, First Name) Harnden, Don

Driller/Engineer /Trainee Signature [Signature]

Driller or Trainee License No. 2914

Trainee, licensed driller's Signature and License Number:

Type of Well ("x" in box)

- ☒ Resource Protection
☐ Geotech Soil Boring

Property Owner Michael Wood

Site Address 2860 Black Lake Blvd

City Tumwater County Thurston

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EWM ☐ or WWM ☒

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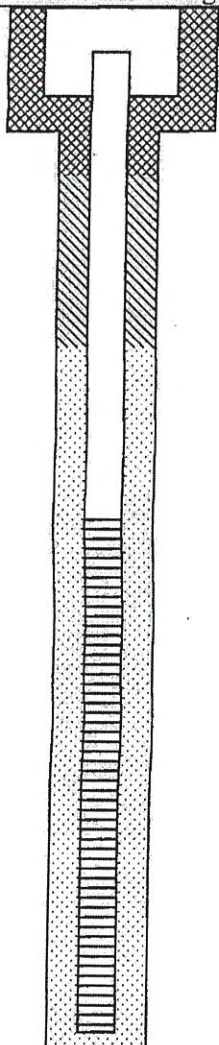
Tax Parcel No. 12829130202

Cased or Uncased Diameter 1" Static Level 7

Work/Decommission Start Date 2/19/15

Work/Decommission Completed Date 2/19/15

Construction Design



Well Data

MONUMENT TYPE:

Flush mount

CONCRETE SURFACE SEAL:

01

ANNULAR SPACE:

BACKFILL: 1-4

TYPE: bentonite

PVC BLANK: 0-5

SCREEN: 5-25

SLOT SIZE: .010

TYPE: 1" prepack

SAND PACK: 4-25

MATERIAL: 10/20 silica sand

DRILLING METHOD: DPT

WELL DEPTH: 25

BORING DIAMETER:

Formation Description

0-10 sand and gravel

10-25 sand

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Construction/Decommission ("x" in box)

- ☐ Construction
☐ Decommission

ORIGINAL INSTALLATION Notice of Intent Number: _____

Consulting Firm _____

Unique Ecology Well ID Tag No. BIM - 142

WELL CONSTRUCTION CERTIFICATION: I constructed and/or accepted responsibility for construction of this well, and its compliance with all Washington well construction standards. Materials used and the information reported above are true to my best knowledge and belief.

Driller ☐ Engineer ☐ Trainee

Name (Print Last, First Name) Hamden, Don

Driller/Engineer/Trainee Signature _____

Driller or Trainee License No. 2914

Trainee, licensed driller's Signature and License Number: _____

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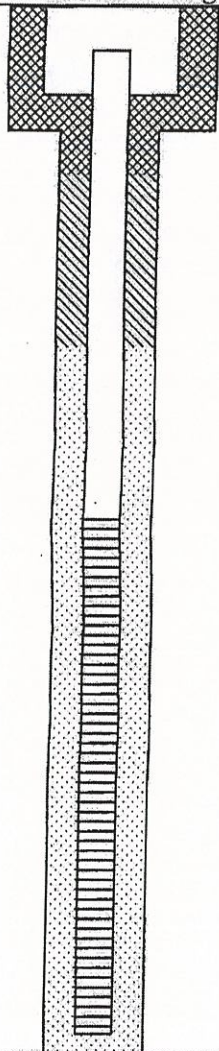
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MONUMENT TYPE:

Flush mount

CONCRETE SURFACE SEAL:

01

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TYPE: bentonite

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WA State Department
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