GROUNDWATER SAMPLING EVENT REPORT MAY 5, 2016

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

Prepared By

Paul W. Stemen

Stemen Environmental, Inc.

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STEMEN ENVIRONMENTAL, INC.

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

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

May 5, 2016

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 March 2, 2016, 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 6.10 ft., MW2 - 3.45 ft., MW3 - 3.82 ft., and MW4 - 5.22 ft.

The inferred direction of groundwater flow was determined to be to north/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 midelevation well with the line between the low and high points at the elevation of the midelevation 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 March 2, 2016, 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.

<u>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.</u>

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 March 2, 2016, 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 3.45 ft. - 6.10 ft.

Based on the March 2, 2016 groundwater elevation measurements, the inferred direction of groundwater flow is to the north/northeast. Groundwater gradients were determined by John Kane, Licensed Geologist/Hydrogeologist #1193, of Kane Environmental, Inc.

2. On March 2, 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.

<u>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.</u>

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

Sincerely,

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 4

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BTEX IN WATER B	Y METHOL	NWIPH	DX/DX EX I	ENDED AN	ID METHOL	NVV I PH-G	X/8260		
							040011115	DIFOFI	LUDE OIL
							GASOLINE	DIESEL	LUBE OIL
SAMPLE	SAMPLE				ETHYL-	TOTAL	RANGE	RANGE	RANGE
NUMBER	DATE		BENZENE	TOLUENE	BENZENE	XYLENES	ORGANICS	ORGANICS	ORGANIC
			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
MW1	8/16/15		ND	ND	ND	ND	ND	ND	ND
MW1	12/17/15		ND	ND	ND	ND	ND	ND	ND
MW1	3/2/16		ND	ND	ND	ND	ND	ND	ND
MW2	5/21/15		ND	ND	ND	ND	ND	ND	ND
MW2	8/16/15		ND	ND	ND	ND	ND	ND	ND
MW2	12/17/15		ND	ND	ND	ND	ND	ND	ND
MW2	3/2/16		ND	ND	ND	ND	ND	ND	ND
MW3	5/21/15		ND	ND	ND	ND	ND	ND	ND
MW3	8/16/15		ND	ND	ND	ND	ND	ND	ND
MW3	12/17/15		ND	ND	ND	ND	ND	ND	ND
MW3	3/2/16		ND	ND	ND	ND	ND	ND	ND
MW4	5/21/15		ND	ND	ND	ND	ND	ND	ND
MW4	8/16/15		ND	ND	ND	ND	ND	ND	ND
MW4	12/17/15		ND	ND	ND	ND	ND	ND	ND
MW4	3/2/16		ND	ND	ND	ND	ND	ND	ND
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METHOD "A" CLEA BENZENE NOT P MARCH 2, 2016 GF WELL NUMBER MW1 MW1	ROUNDWA TOC 132.76 132.76	GW DEPTH 6.93 7.75	5 NITORING E GW ELEV. 125.83 125.01	1000 EVENT					
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METHOD "A" CLEAR BENZENE NOT POWER N	TOC 132.76 132.76 132.76 132.76 132.76 132.76	GW DEPTH 6.93 7.75 5.3 6.1 4.64 10.47	5 NITORING E GW ELEV. 125.83 125.01 127.46 126.66 125.23 119.4	1000 EVENT					
METHOD "A" CLEAR BENZENE NOT POSSIBLE NOT PO	TOC 132.76 132.76 132.76 132.76 132.76 132.76	GW DEPTH 6.93 7.75 5.3 6.1 4.64 10.47 3.05	5 NITORING E GW ELEV. 125.83 125.01 127.46 126.66 125.23 119.4 126.82	1000 EVENT					
METHOD "A" CLEAR BENZENE NOT POSSIBLE NOT PO	TOC 132.76 132.76 132.76 132.76 132.76 132.76	GW DEPTH 6.93 7.75 5.3 6.1 4.64 10.47	5 NITORING E GW ELEV. 125.83 125.01 127.46 126.66 125.23 119.4	1000 EVENT					
METHOD "A" CLEAR BENZENE NOT POSSIBLE NOT PO	TOC 132.76 132.76 132.76 132.76 132.76 132.76 132.76 132.77 129.87 129.87 129.87	GW DEPTH 6.93 7.75 5.3 6.1 4.64 10.47 3.05 3.45	5 NITORING E GW ELEV. 125.83 125.01 127.46 126.66 125.23 119.4 126.82 126.42	1000 EVENT					
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LEGEND

Approximate Property Boundary

Approximate Locations of Groundwater Monitoring Wells (Groundwater Elevations above Mean Sea Level)

Approximate Calculated Direction of Groundwater Flow (12/14/15) Based on Elevations in MW-1, MW-2, and MW-4

0 50 100

Approximate Scale in Feet



Flintstone Fuel 2840-C Black Lake Blvd Tumwater, Washington

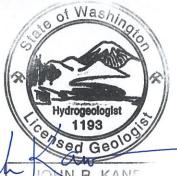
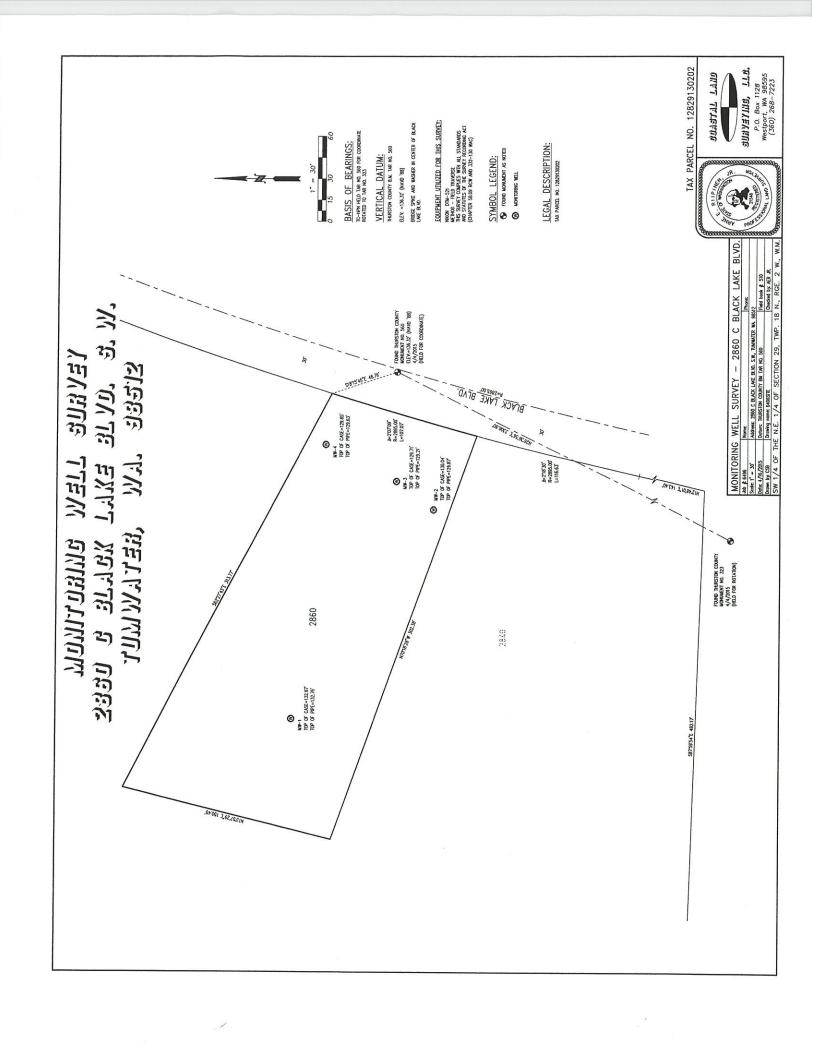


Figure 3d
Site Plan with
Groundwater Elevations
(3/2/2016)



March 14, 2016

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 Tumwater, Washington. Water samples were analyzed for Diesel and Oil by NWTPH-Dx/Dx Extended, Gasoline by NWTPH-Gx and BTEX by Method 8260 on March 3, 2016.

The results of these analyses are summarized in the attached tables. All soil values are reported on a dry weight basis. 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,

Lab Manager

1210 Eastside Street SE, Suite 200 ■ Olympia, Washington 98501 ■ 360.459.4670 ■ FAX 360.459.3432 Web Site: www.esnnw.com E-Mail: info@esnnw.com

ESN NORTHWEST CHEMISTRY LABORATORY

Stemen Environmental, Inc PROJECT FLINTSTONE SITE Tumwater, Washington ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

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

Sample	Date	Date	Surrogate	Diesel Range Organics	Lube Oil Range Organics
Number	Prepared	Analyzed	Recovery (%)	(ug/L)	(ug/L)
Method Blank	3/3/2016	3/3/2016	112	nd	nd
LCS	3/3/2016	3/3/2016	114	114%	
MW1	3/3/2016	3/3/2016	121	nd	nd
MW2	3/3/2016	3/3/2016	114	nd	nd
MW3	3/3/2016	3/3/2016	122	nd	nd
MW4	3/3/2016	3/3/2016	103	nd	nd
Reporting Limits				250	500

[&]quot;nd" Indicates not detected at the listed detection limits.

ACCEPTABLE RECOVERY LIMITS FOR SURROGATE: 50% TO 150%

[&]quot;int" Indicates that interference prevents determination.

ESN NORTHWEST CHEMISTRY LABORATORY

Stemen Environmental, Inc PROJECT FLINTSTONE SITE Tumwater, Washington ESN Northwest 1210 Eastside Street SE Suite 200 Olympia, WA 98501 (360) 459-4670 (360) 459-3432 Fax lab@esnnw.com

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

Sample	Date	Benzene	Toluene	Ethylbenzene	Xylenes	Gasoline Range Organics	Surrogate
Number	Analyzed	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	Recovery (%)
Method Blank	3/10/2016	nd	nd	nd	nd	nd	100
LCS	3/10/2016	110%	91%	86%	91%	81%	103
MW1	3/10/2016	nd	nd	nd	nd	nd	102
MW2	3/10/2016	nd	nd	nd	nd	nd	101
MW3	3/10/2016	nd	nd	nd	nd	nd	107
MW4	3/10/2016	nd	nd	nd	nd	nd	101
Reporting Limits		1.0	1.0	1.0	3.0	100	

[&]quot;nd" Indicates not detected at the listed detection limits.

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

[&]quot;int" Indicates that interference prevents determination.

ESN Environmental NORTHWEST Services Network

CHAIN-OF-CUSTODY RECORD

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Please print, sign and return to the Department of Ecology

ESOURCE PROTECTION		CURRENT Notice of Intent No. RE10973					
UBMIT ONE WELL REPORT PER vonstruction/Decommission ("x" in box) Construction Decommission			Type of Well ("x in box) ☐ Resource Protection ☐ Geotech Soil Boring				
RIGINAL INSTALLATION Notice of Inte	nt Number:	Property Owner 1	•				
	*	Site Address 286	0 Black Lake Blvd				
onsulting Firm		City Tumwater	County Thurston				
nique Ecology Well IDTag No. BIM-14	1		1/4 <u>NE</u> 1/4 Sec <u>29</u> Twn <u>18</u> R <u>02</u>				
ELL CONSTRUCTION CERTIFICATION SERVICE TO SE	lits compliance with all	EWM or WW	′M ⊠				
ashington well construction standards. Materials us sorted above are true to my best knowledge and believed above are true to my best knowledge and believed above.		Lat/Long (s, t, r still REQUIRED)					
Driller Engineer Trainee		Tax Parcel No.12	829130202				
me (Print Last, First Name) Harnden, Don iller/Engineer / Trainee Signature)		Diameter Static Level7				
iller or Trainee License No. 2914							
20.		•					
trainee, licensed driller's Signature and	d License Number:	Work/Decommiss	sion Completed Date 2/19/15				
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	FVCBLANK	2					
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	SCREEN: 5-29	7					
	SCREEN: 5-29 SLOT SIZE: 0/6 TYPE: 1"pregach	>	,				
	TYPE: 1" prepache	screen	,				
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			RECEIVED				
	SAND PACK:	1-25					
. <u> </u>	MATERIAL: 10/20	silica sand	MAR 1 9 2015.				
			WA State Department				
			of Ecology (SWRO)				
	DRILLING METHO	D: DPT					
	WELL DEPTH:	25	,				
	BORING DIAMETI	ER:					
12000000	SCALE: 1"= P/						

Please print, sign and return to the Department of Ecology

نب	RESOURCE PROTECTION SUBMIT ONE WELL REPORT PER W	WELL REPORT	CURRENT		tent No. <u>RE10973</u>				
epor	Construction/Decommission ("x" in box)	ELL INSTALLED)		Type of Wel	e Protection				
	Decommission **RIGINAL INSTALLATION Notice of Intent	t Number	Property Owner M		Soil Boring				
		Tramou .	Site Address 2860		1				
7	onsulting Firm								
占	nique Ecology Well IDTag No. BIM· 140		City <u>Tumwater</u> County <u>Thurston</u> Location <u>SW</u> 1/4-1/4 <u>NE</u> 1/4 Sec <u>29</u> Twn <u>18</u> R <u>02</u>						
8	/ELL CONSTRUCTION CERTIFICATION CERTIFICATION CEPT responsibility for construction of this well, and it	EWM ☐ or WWM ⊠							
5	icept responsibility for construction of this well, and it ashington well construction standards. Materials used ported above are true to my best knowledge and belief Driller Engineer Trainee ame (Print Last, First Name) Harnden, Don riller/Engineer /Trainee Signature priller or Trainee License No. 2914	d and the information	Lat/Long (s, t, r still REQUIRED)		MinSec				
吊	Driller □ Engineer □ Trainee		1072 - OEL	Long Deg 29130202	MinSec				
E	ame (Print Last, First Name) Harnden, Don		Cased or Uncased	Diameter /"	Static Level 7				
9	riller or Trainee License No. 2914				9/15				
	f traines lisensed driller's Signature and	I Jaanaa Nuushaa							
2	trainee, neensed driner's Signature and	License Number:	work/Decommissio	on Completed Da	ate <u>2/19/15</u>				
Data and/orth	Construction Design	Well D	ata	For	mation Description				
Ì		MONUMENT TYPE		1011	mation Description				
70		flush mount	1.5. ()						
13		CONCRETE SURFA							
		0-/			3				
<u>u</u>			New York, See	0-10 50	indandpeat				
		ANNULAR SPACE:			proprieta				
		BACKFILL: 1-1 TYPE: bentonite	4						
		TYPE: <u>benton ite</u>			,				
Z			_	10-25 Sa	nd				
5		PVC BLANK: 0-	5	# <u>*</u>					
<u> </u>		II							
8		SCREEN: 5-25	8						
		SLOT SIZE: .0/0	-	***************************************					
Şi		SLOT SIZE: .010 TYPE: 1" prepack	screen						
5		· •							
امر المحسمين موقع				Ĭ	RECEIVED				
5		SAND PACK: 4-2 MATERIAL: 10/20 Si	5		MAR 19 2015				
		MATERIAL: 10/20 Si	lica sand	101	A State Department				
				VV.	of Ecology (SWRO)				
Ę		DRILLING METHOR	DPT_		2				
5		WELL DEPTH:	25						
ב		BORING DIAMETER	₹:						
		SCALE: 1"= PAG	SE 1 OF 4	A. C.					

Please print, sign and return to the Department of Ecology

	RESOURCE PROTECTION		CURREN.	T Notice of	of Intent No. RE10973
Eport	onstruction/Decommission ("x" in box) Construction Decommission	ELL INSTALLED)		Type of	Well ("x in box) source Protection otech Soil Boring
	RIGINAL INSTALLATION Notice of Intent	Number:	Property Owner M		•
聖	-		Site Address 2860		
2	onsulting Firm		No. of the contract of the con		County Thurston
計	nique Ecology Well IDTag No. BIM -/43				ec 29 Twn 18 R 02
	ELL CONSTRUCTION CERTIFICATION		EWM or WW		
	cept responsibility for construction of this well, and it ashington well construction standards. Materials used corted above are true to my best knowledge and belief	and the information		Lat Deg	Min Sec
Ĭ	Driller ☐ Engineer ☐ Trainee			rong De	egMinSec
	the Colored and Pierry Harris Handan Dan		Tax Parcel No. 128	29130202	, 17
E	iller/Engineer /Trainee Signature		Cased or Uncased	Diameter	" Static Level
Ħ	filler or Trainee License No. 2914		Work/Decommissi	on Start Dat	e <u>2/19/15</u>
a	trainee, licensed driller's Signature and	License Number:	Work/Decommissi	on Complete	ed Date 2/19/15
£					
5	Construction Design	Well Da	ata	200	Formation Description
ō		MONUMENT TYPE		T	2 contaction Description
/ does NOI Warranty the Data and/or the Information		ANNULAR SPACE: BACKFILL: 1-4 TYPE: bentonite PVC BLANK: 6- SCREEN: 5-25 SLOT SIZE: .010	CE SEAL:	0-10	Sand and peat
comparament of ecology		SAND PACK: 4- MATERIAL: 10/20 Si DRILLING METHOD WELL DEPTH:	25 Lica sand DPT		RECEIVED MAR 19 2015 WA State Department of Ecology (SWRO)
		BORING DIAMETER			
		SCALE: 1"= PAG	E_4_OF4_		

Please print, sign and return to the Department of Ecology **ESOURCE PROTECTION WELL REPORT**CURRENT Notice of Intent No.

السناد	UBMIT ONE WELL REPORT PER	WELL INSTALLED	OOMMEN	Notice of Intent No. RE10973					
5	onstruction/Decommission ("x" in box	(WELL INSTALLED)		Type of Well ("x in box)					
Ō.	- 1 Construction	<i>l</i>		Resource Protection					
2	Decommission			Geotech Soil Boring					
	RIGINAL INSTALLATION Notice of Inte	ent Number:	Property Owner N						
				D Black Lake Blvd					
35	onsulting Firm								
this	nique Ecology Well IDTag No. BIM - 1	12	City Tumwater County Thurston						
Ŧ				1/4 NE 1/4 Sec 29 Twn 18 R 02					
E	ELL CONSTRUCTION CERTIFICATI cept responsibility for construction of this well, and	UN: I constructed and/or	EWM or WWI	M 🖂					
Ē	ashington well construction standards. Materials u	sed and the information	Lat/Long (s, t, r	Lat Deg Min Sec					
formation	orted above are true to my best knowledge and bel	ief.	still REQUIRED)	Long DegMinSec					
H	Driller		Tax Parcel No.128	329130202					
E	me (Print Last, First Name) <u>Hamden, Don</u> iller/Engineer /Trainee Signature),	Cased or Uncased	Diameter Static Level					
5	iller or Trainee License No. 2914			(COMPACA) MAIL (COMPACA)					
E	The of Transce Bicense No. 2514		Work/Decommissi	ion Start Date 2/19/15					
elli	trainee, licensed driller's Signature an	d License Number:	Work/Decommissi	ion Completed Date 2/19/15					
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Jata and forth	Construction Design		D .						
₹.	Construction Design	Well		Formation Description					
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ro _		flush mount	<u>+</u>						
2		CONCRETE SURF	ACE SEAL:	1					
3		0-1		3 *					
a				D-10 Sanda of 1					
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			Anne aproprie trees transcere filian automate						
		BACKFILL: 1-4 TYPE: bentonit	4						
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ro		1.	3	10-25 sand					
			Name .	10-23 3010					
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3		TYPE: 1" Prepa							
5	₩ = ₩								
5				×					
5		SAND PACK: 4	-25	RECEIVED					
		MATERIAL: 10/20	silica sand	MEGLIVED					
Ū				MAR 1 9 2015					
				The process and announcement					
		DRILLING METHO	D: DPT	WA State Department					
1				of Ecology (SWRO)					
4		WELL DEPTH:	25						
٥		BORING DIAMETE	φ.						
		4 may 20 mm and 10 mm	CE 3 OF 1/						