

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 94-9294

Exam Date: 1/14/2016

1. Current Owner: IDAHO DEPT OF ENVIRONMENTAL QUALITY
1410 NORTH HILTON
BOISE ID 83706
(208)3730502

2. Accompanied by: In office exam

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER L2 NW1/4NE1/4 Sec. 4, Twp 48N, Rge 02E, B.M. SHOSHONE County

Method of Determination: Aerial photography, Bing Maps and Arc Map Data.

2.

PLACE OF USE: INDUSTRIAL

Twp Rge Sec	NE				NW				SW				SE				Totals
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
48N 02E 4	X L 1	X L 2															
49N 02E 33														X	X		

Method of Determination: Aerial photography, Bing Maps and Arc Map Data.

Diversion

D. FLOW MEASUREMENTS

Flow measurement not required as per IDAPA RULE 37.03.02.035.01.r.iii.

E. FLOW CALCULATIONS

The diversion rate for this industrial right is limited to 0.10 cfs or 44.883 gpm.

F. VOLUME CALCULATIONS

The annual volume for this industrial right is limited to = 4.3 af

60 min x 8 hours x 5 days x 26 weeks = 62,400 operating minutes x 0.5 (per applicant) = 31,200 operating minutes per year

31,200 x 44.883 gpm = 1,400,349.6 gpy / 325,850 gal/af = 4.3 af

G. NARRATIVE/REMARKS/COMMENTS

IN OFFICE EXAM. DEQ PROVIDED PUMP SIZE AND OPERATING HOURS SO IDWR CAN CONDUCT IN OFFICE EXAM. MEASUREMENT OF DIVERSION RATE COVERED UNDER IDAPA RULES 37.03.02.035.01.r. THEORETICAL PUMPING EQUATION ESTIMATES FLOW RATE AT 858.1 GPM OR 1.91 CFS. APPLICANT ONLY APPLIED FOR 0.10 CFS SO WELL AND PUMP ARE CAPABLE OF PRODUCING 0.10 CFS. ANNUAL VOLUME OF 4.3 AF WILL BE GIVEN AFTER ADDING UP THE TOTAL AMOUNT OF OPERATING HOURS EACH YEAR.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
INDUSTRIAL	01/01 to 12/31	0.100 CFS	4.30 AF
<u>Totals:</u>		0.100 CFS	4.30 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Adam Friedman Date 1-14-2016

Reviewer Eric J. Brown Date 1-20-2016

Frederick, Adam

From: Bruce.Schuld@deq.idaho.gov
Sent: Tuesday, March 10, 2015 9:27 AM
To: Frederick, Adam
Cc: Don.Carpenter@deq.idaho.gov
Subject: RE: Water Permit 94-9294

Follow Up Flag: Follow up
Flag Status: Flagged

I don't know that you did or didn't talk to Don Carpenter but please change the Point of Contact to me as the Bunker Hill Superfund Program Manager. I will make sure we fill in all the details for you.

However, Don provided me:

East Mission Flats (EMF) pump details are as follows:

- 6TS25-300 Berkley Pump
- 25 hp Franklin 6 inch motor – 230 V, 3-phase
- Pumping goal was to achieve 300 gpm continuous duty

However "Continuously" is not correct. The decontamination station actually runs intermittently or half (1/2) time during operations, it also uses a recycling cistern whose primary function is to decant sediment from wash water. When you consider the fact that we operate (26 weeks/yr 5 days/week 8 hrs/day) $\times \frac{1}{2} = 90K$ gpd or 11.17M gpy

Although at Page the pump is (I believe) a 40 hp we designed for the volume ($(26 \text{ weeks/yr } 5 \text{ days/week } 8 \text{ hrs/day}) \times \frac{1}{2} = 90K$ gpd or 11.17M gpy) of use utilizing the decant and recirculation cistern.

I am away from my Kellogg office but can confirm this next week if you need additional information.

Thanks for your help.

From: Frederick, Adam [<mailto:Adam.Frederick@idwr.idaho.gov>]
Sent: Thursday, March 05, 2015 8:59 AM
To: Bruce Schuld
Subject: RE: Water Permit 94-9294

Hi Bruce,

I just wanted to throw out there to give yourself extra water in places. We don't want to short you on the annual volume. If you wash the building or equipment other than the trucks. Add any water use that you can possibly think of. One other question, is there another contact other than Terry Harwood for the East Mission Flats Repository? I called Terry and he said he just works for you guys occasionally. It is water right number 94-7527, for that one I would need what size horse power pump is in the well and possibly a new updated annual volume sheet. I have one that someone sent in the past, but it only gives you a annual volume of 3.22 acre feet. Thanks for all your help.

Adam

From: Bruce.Schuld@deq.idaho.gov [<mailto:Bruce.Schuld@deq.idaho.gov>]
Sent: Thursday, March 05, 2015 6:23 AM
To: Frederick, Adam
Subject: RE: Water Permit 94-9294



Page: 1

582 West Hayden Avenue • Hayden Lake, Idaho 83835
(208) 772-4004 Office • (800) 772-4901 Toll Free • (208) 772-4892 Fax • (509) 535-5554

Invoice

Sold To:
NORTH WIND CONSTRUCTION SERV.
ACCOUNTS PAYABLE
1425 HIGHAM STREET
IDAHO FALLS, ID 83402

Invoice Number: 0023767-IN
Invoice Date: 7/31/2014
Customer Number: NOR3355
Salesperson: JJ
Tax Schedule: ID
Phone Number: (208) 791-3355

Pump System

Customer P.O.	F.O.B.	Ship VIA	Terms
			DUE ON RECEIPT
Item Number		Unit	Quantity
RE: Pinehurst, ID. - Pump System			
/212	Boiler 2740 450 Third Floor	EACH	1.00
/211	Boiler 2740 450 Third Floor	EACH	1.00
/108	ABB VFD Drive Unit ACS550	EACH	1.00
/100	4" x 24" S.S. Flex Hose/Conn.	EACH	1.00
/106	4" sch80 PVC Tee	EACH	4.00
/108	4" sch80 PVC 90 Elbow	EACH	3.00
/106	4" sch80 PVC Union	EACH	1.00
/106	4" x 3" sch80 PVC Bushing	EACH	4.00
/106	4" x 1-1/4" sch80 PVC Bushing	EACH	1.00
/106	3" sch80 PVC Union	EACH	3.00
/101	3" Brz Ball Valve	EACH	5.00
32GN312	Galv Nipple 3"x12"	EACH	1.00
31GU4	Galv Union 4"	EACH	1.00
75FL40	Flexile 119gal Fiber Press Ink	EACH	1.00
56TC114EU	1X11/4" Elevated w/union short	EACH	1.00
50BD34	Boiler Drain 3/4" Brz	EACH	1.00
31GP1	Galv plug 1"	EACH	1.00
31GP34	Galv plug 3/4"	EACH	1.00
31GDU114	Galv Dielectric Unin - 1-1/4"	EACH	1.00
37P80E45114	Sch 80 - 45 Elbow 1-1/4"	EACH	1.00

Continued

94-9294

		HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q =	$\frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	40	147.517	0.8	55	40
Q =		1.912 cfs	858.1 gpm			

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D D0067665

Drilling Permit No. 872359

Water right or injection well #

2. OWNER: ID DEQ c/o North Wind Const. Services LLC.

Name

Address 1425 Higham St.

City Idaho Falls State ID Zip 83402

3. WELL LOCATION:

Twp. 48 North ☒ or South ☐ Rge. 2 East ☒ or West ☐

Sec. 4 1/4 NW 1/4 NE 1/4

Gov't Lot County Shoshone

Lat. 47 32.616 (Deg and Decimal minutes)

Long. 116 12.433 (Deg and Decimal minutes)

Address of Well Site Page Repository

City Page

(Use all initials to address & District (if not in USGS))

Lot. Blk. Sub. Name

4. USE:

☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
☒ Other Industrial used to wash vehicles

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method/procedure
Hole Plug	0	38	1600 lbs.	Dry Pour

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge/Schedule	Material	Casing liner	Threaded	Welded
12"	+3	54	.250	Steel	☒	☐	☒

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 54'

9. PERFORATIONS/SCREENS:

Perforations ☐ Y ☒ N Method

Manufactured screen ☒ Y ☐ N Type Stainless

Method of installation Telescope

From (ft)	To (ft)	Slot size	Number/ft	Diameter (nominal)	Material	Gauge or Schedule
55	65	100	10'	10"	Stainless	.250

Length of Headpipe 5' Length of Tailpipe 2'

Packer ☐ Y ☒ N Type

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method
-----------------	-----------	---------	----------------------	------------------

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG)

Describe control device

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 37 Static water level (ft) 33

Water temp. (°F) Cold Bottom hole temp. (°F) Cold

Describe access port Welded Steel Cap

Well test:

Drawdown (feet)	Discharge or yield (gpm)	Test duration (minutes)
65'	400	5 hrs.

Test method:

Pump	Bailer	Air	Flowing artesian
☐	☐	☒	☐

Water quality test or comments:

13. LITHOLOGIC LOG and/or repairs or abandonment:

Bore Dia. (in)	From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water	
				Y	N
18	0	1	Asphalt & Gravel		X
18	1	28	Brown Fill, Clay & Shale		X
18	28	38	Gray Mine Tailings	X	
12	38	45	Gray Mine Tailings	X	
12	45	48	Sand, Gravel & Gray Mine Tailings	X	
12	48	66	Sand & Gravel	X	
12	66	67	Brown Silty Clay		X

Completed Depth (Measurable): 67'

Date Started: Jun 23, 2014

Date Completed: Jun 28, 2014

14. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name H2O Well Service Inc. Co. No. 448

*Principal Driller Date 6/30/14

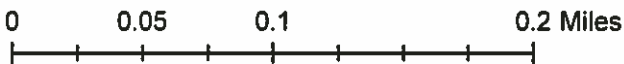
*Driller Date 6-2-14

*Operator II Date

Operator I Date

* Signature of Principal Driller and rig operator are required.

State of Idaho
Department of Water Resources
Water Right License
94-9294



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections



TAXLOT OWNERSHIP FOR WATER RIGHT 94-9294

2014application map - ArcMap

File Edit View Bookmarks Insert Selection Geoprocessing Customize Windows Help

1:2,841 Drawing Anal 10

Process - POJ - POD - Wells - SC - WMIS - Dam Safety - UIC - WRA - WSB - Hydrologic - Enforcement - Calc Acres

Identify

Identify from: Taxlots

Taxlots

- SOUTH FORK COEUR D'ALENE RIVER SEWER DISTRICT
- SOUTH FORK COEUR D'ALENE RIVER SEWER DISTRICT
- U.S.

Location: 2,333,679.464 1,818,267.735 Meters

Field	Value
ID	3352000
UPDATED	5/5/2014
PIN	RP49M02E336700
OWNER	U.S.
ADDRESS1	C/O US ARMY CORPS OF ENGINEERS
ADDRESS2	PO BOX 3755
CITY	SEATTLE
STATE	WA
ZIPCODE	98124
P_ADDRESS	
P_ZIPCODE	
SUB_NAME	
LEGAL1	8700.FTH S1/2
LEGAL2	
LEGAL3	
LEGAL4	
LEGAL5	
LEGAL6	<null>
ACRES	10.6
COUNTY	Shoshone
SOURCE	
YEAR_BUILT	0

Identified 3 features

Table Of Contents Identify

116°12'41.623"W 47°32'40.98"N