

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 84-12245

Exam Date: 5/9/2012

1. Current Owner: CITY OF PIERCE
PO BOX 356
PIERCE ID 83546
2. Accompanied by: Martin Miller
Phone No: Same
Address: Same
Relationship to Permit Holder:

3. SOURCE

OROFINO CREEK

TRIBUTARY

CLEARWATER RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 84-2022
2. Other water rights with the same point of diversion: None

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

OROFINO CREEK

SW1/4SE1/4NW1/4

Sec. 2, Twp 36N, Rge 05E, B.M.

CLEARWATER County

Method of Determination: GPS W 115 481.97 N 46 29.29.38 AND MAP

2.

PLACE OF USE: MUNICIPAL

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
36N	05E	2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
			L 1	L 2			L 3	L 4											
36N	05E	11			X				X	X			X			X	X		
37N	05E	34													X			X	
37N	05E	35									X	X	X				X		

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
*	*	7.5	*	*	

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
_____	_____	_____	_____	_____	_____	_____

2. Measurements: AMERICAN TURBINE PUMP PERFORMANCE CHARTS:
EACH PUMP= 3 STAGE 8-H-40 1760RPM 350GPM @ 62 T.D.H
350GPM X 2 = 750GPM = 1.67CFS

E. FLOW CALCULATIONS

Measured Method:

_____Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTSHave 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>
MUNICIPAL	01/01 to 12/31	0.780 CFS	
<u>Totals:</u>		0.780 CFS	

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 Eric [Signature] Date 5-25-2012Reviewer [Signature] Date 7/23/12



FAX COVER SHEET

City of Pierce
P.O. Box 356
404 South Main St.
Pierce, Idaho 83546

SEND TO: Dept of Water
Resources
ATTENTION: Eric Davis

FROM: Martin Miller

DATE: 5/10/12

FAX NUMBER: 208-762-2819

☐ URGENT ☐ REPLY ASAP ☐ PLEASE COMMENT ☐ PLEASE REVIEW ☐ INFORMATION

TOTAL PAGES, including cover page: _____

COMMENT:

PHONE (208)464.2222 FAX (208)464.2207
E-Mail: city@pierceidaho.gov



Performance Curves

8-H-40

1760 RPM

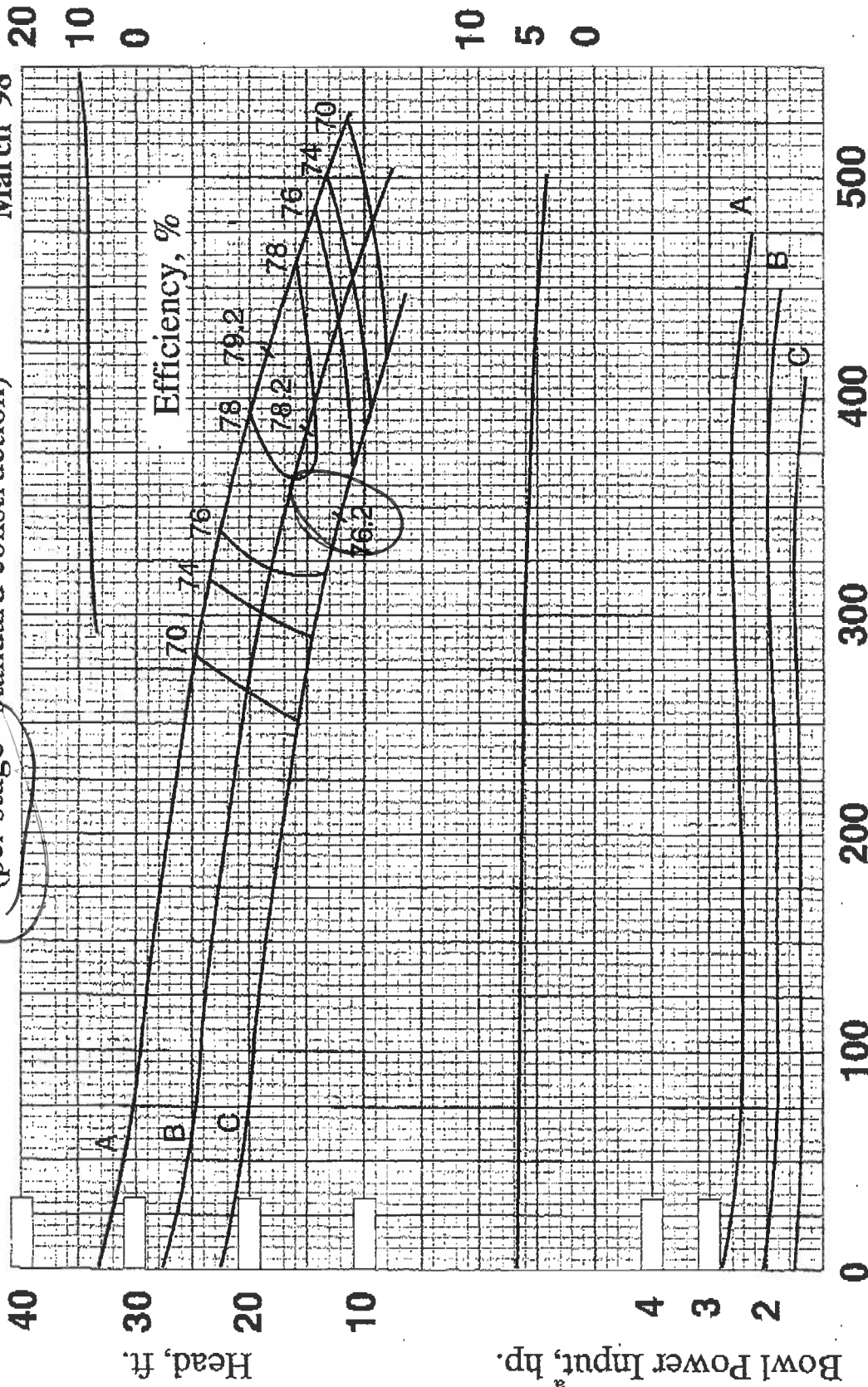
Number of Stages Required:

(per stage - standard construction)

March '98

N.P.S.H. Required, ft.

Hydraulic Thrust Factor,^b
lbs./ft. of head



Capacity, U.S. g.p.m.

Head, ft.

Bowl Power Input, hp.

Efficiency, %

Project Title: Water Intake Pumps #1 & #2

End User: City of Pierce Pierce, UT

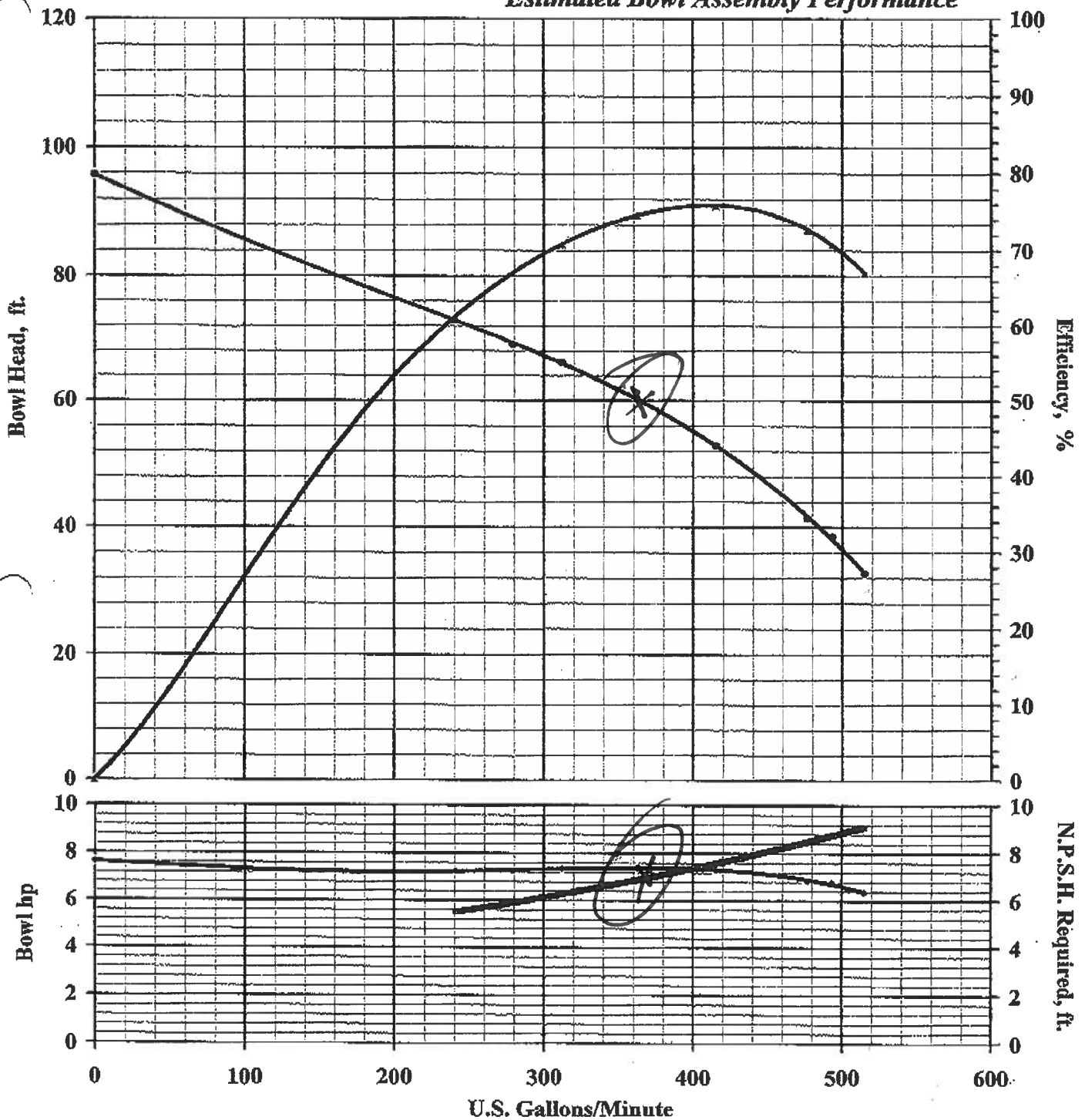
Pump Manufacturer: American Turbine Pumps

Pump Model Number: 8-H-40

Pump Serial Number: F-5737-F & F-5738-F



Estimated Bowl Assembly Performance



3 Stage 8-H-40 Bowl Assembly
1760 R.P.M.

13-Nov-09

sg = 1.00

Bowl Material
48-cl 30 cast iron/porcelain

350 G.P.M. @ 62 T.D.H.
Trim 1 Impellers 5.858 Diameter

Impeller Material
C83800 bronze



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1118 F Street • Lewiston, Idaho 83501 • (208) 799-4370

C.L. "Butch" Otter, Governor
Toni Hardesty, Director

WATER QUALITY CERTIFICATION
NWW -2007-1308-W04
January 14, 2008

ISSUED TO: City of Pierce
P.O. Box 356
404 South Main Street
Pierce, ID 83546

Attention: Mayor Wallace Williams

Description of Certified Project:

The purpose of the project is to construct approximately 2,000 linear feet of 6-inch raw water main, including 45 linear feet of directional drilled pipe, a concrete intake box located at the edge of Orofino Creek, a pump station/wet well equipped with 2-10 HP line shaft turbine pumps, electrical feed and controls for pumps and other appurtenances. Excavations for the new intake structure and new pipe will be performed using standard backhoes and directional drilling equipment. The length of the project along the stream is 400 feet along Orofino Creek and Canal Creek, located at the City of Pierce in Clearwater County. In the Idaho water quality standards, Orofino Creek is included in water body ID 17060306CL039 and is protected for cold water and salmonid spawning aquatic life, and primary contact recreation designated beneficial uses. This section of Orofino Creek is currently listed in Section 3 of the Idaho 2002 Integrated Report as not assessed.

This water quality certification is issued under the authority of Section 401 of the Federal Water Pollution Control Act and its Amendments (Clean Water Act), Idaho Code sections 39-101 through 39-130, 39-3601 through 39-3623 and the Idaho Water Quality Standards and Wastewater Treatment Requirements (Idaho Water Quality Standards) IDAPA 58.01.02. A copy of this required certification has been sent to the Army Corps of Engineers. DEQ hereby certifies pursuant to section 401 of the Clean Water Act that, provided the conditions listed below and the terms of the permit are met, there is a reasonable assurance the proposed project will comply with applicable requirements of sections 301, 302, 303, 306, and 307 of the Clean Water Act and the Idaho Water Quality Standards. The certification holder shall comply with the conditions listed below:

GENERAL CONDITIONS

1. The proposed activity shall be conducted in a manner that will not violate Idaho's Water Quality Standards as set forth in IDAPA 58.01.02.
2. The proposed project shall be constructed in accordance with the approved plan.
3. The certification holder shall notify the DEQ, in writing, upon transferring this responsibility for compliance with these conditions to another person.
4. The new operator shall request, in writing, transfer of this water quality certification to his/her name.

SPECIAL CONDITIONS

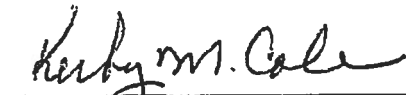
1. Best Management Practices (BMPs) for construction and erosion control shall be implemented to prevent and control the discharge of sediment to Orofino Creek and Canal Creek during construction. The BMPs shall be maintained and monitored for effectiveness. BMPs shall be replaced or augmented if they are not effective. At no time will construction result in an increase of turbidity greater than 50 NTU over background turbidity.
2. Work will be conducted during periods of low stream flow.
3. No uncured concrete shall enter the waterway.
4. The pre-cast concrete intake box shall not constrict the stream channel. No upstream or downstream bank erosion shall occur due to the placement of the inlet box in the stream channel.
5. Equipment should not be fueled nor fluids changed within 100 feet of the creeks. Any equipment operated adjacent to the creeks shall be maintained in a good state of repair and shall have no damaged hoses, fittings, lines, tanks, etc...that release or may release pollutants into the creeks. Waste oil and waste fluids shall not be stored at the site. If any such material is released to the creeks, the responsible person must make an effort to contain the spill and notify our office within 24 hours. If the spill cannot be contained call the Emergency Response System at 1-800-632-8000.

This certification does not relieve the applicant of responsibility for obtaining any other approvals, licenses or permits in accordance with federal, state, or local requirements and does not authorize commencement of the proposed project.

This certification shall be invalid and no longer effective if the proposed activity is not begun within three years of the date of this certification.

This § 401 certification decision may be appealed pursuant to the Idaho Environmental Protection and Health Act, Idaho Code § 39-107(5), the Idaho Administrative Procedure Act and the Rules of Administrative Procedure Before the Board of Environmental Quality, IDAPA 58.01.23. Such an appeal is a prerequisite to any district court action and must be initiated by filing a petition for a contested case in accordance with the Rules of Administrative Procedure before the Board of Environmental Quality (IDAPA 58.01.23) within thirty-five days of the date of this 401 certification.

CERTIFICATION APPROVED

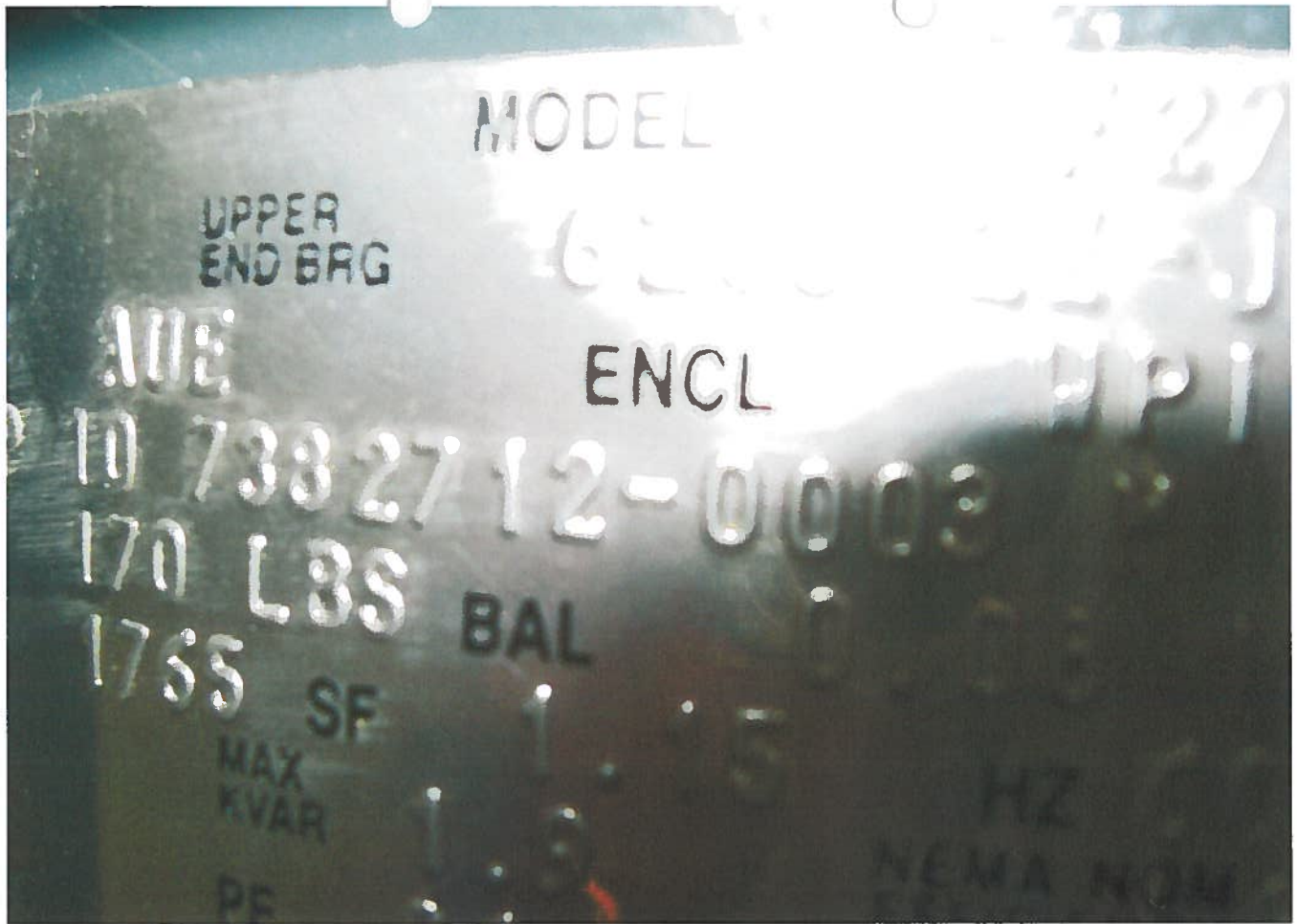


Kerby M. Cole, P.E.
Regional Administrator

Expiration Date: January 14, 2011

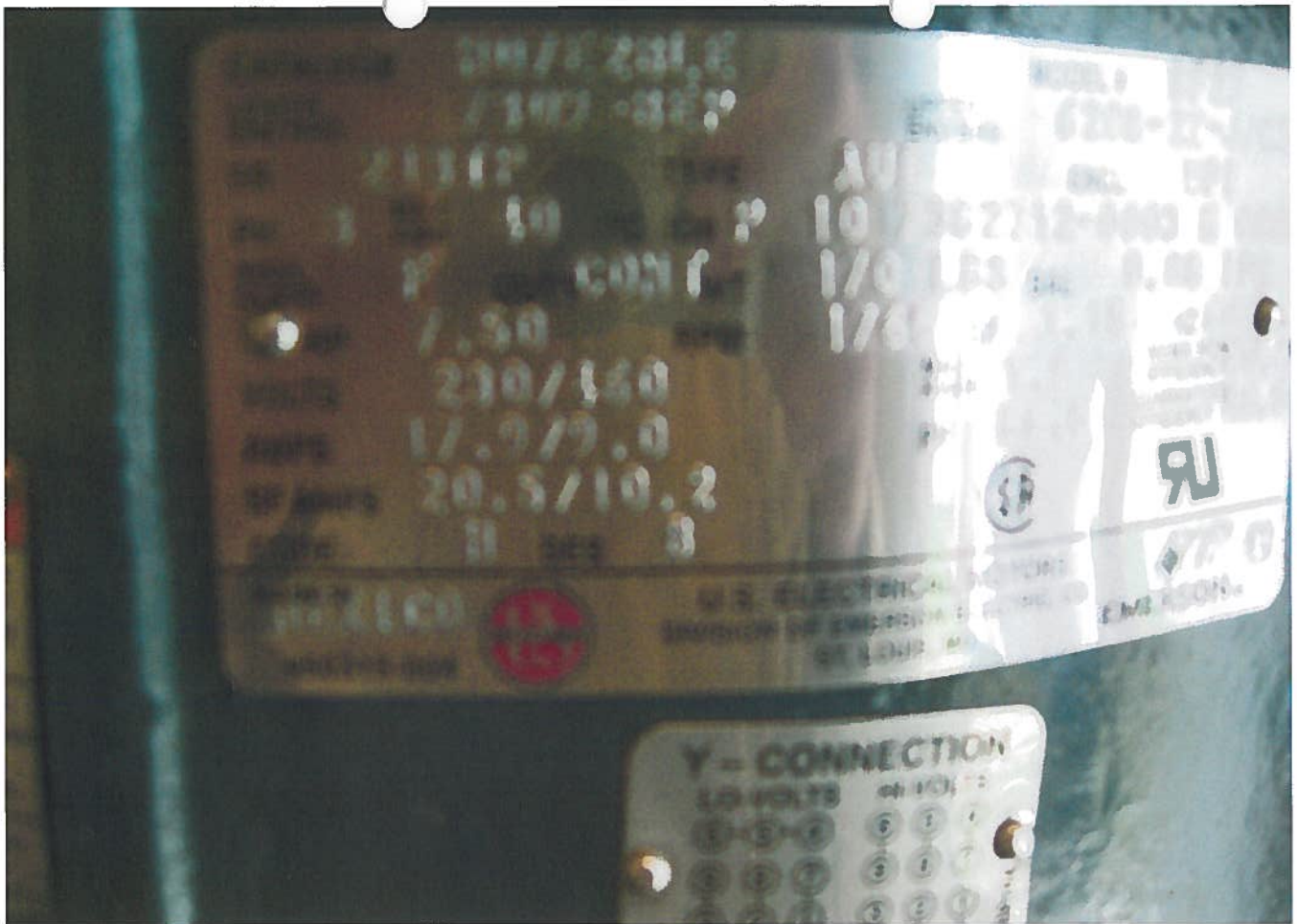
KMC/cb

cc: Duane Mitchell, U.S. Army Corps of Engineers, Walla Walla
Terry Nab, P.E., Progressive Engineering

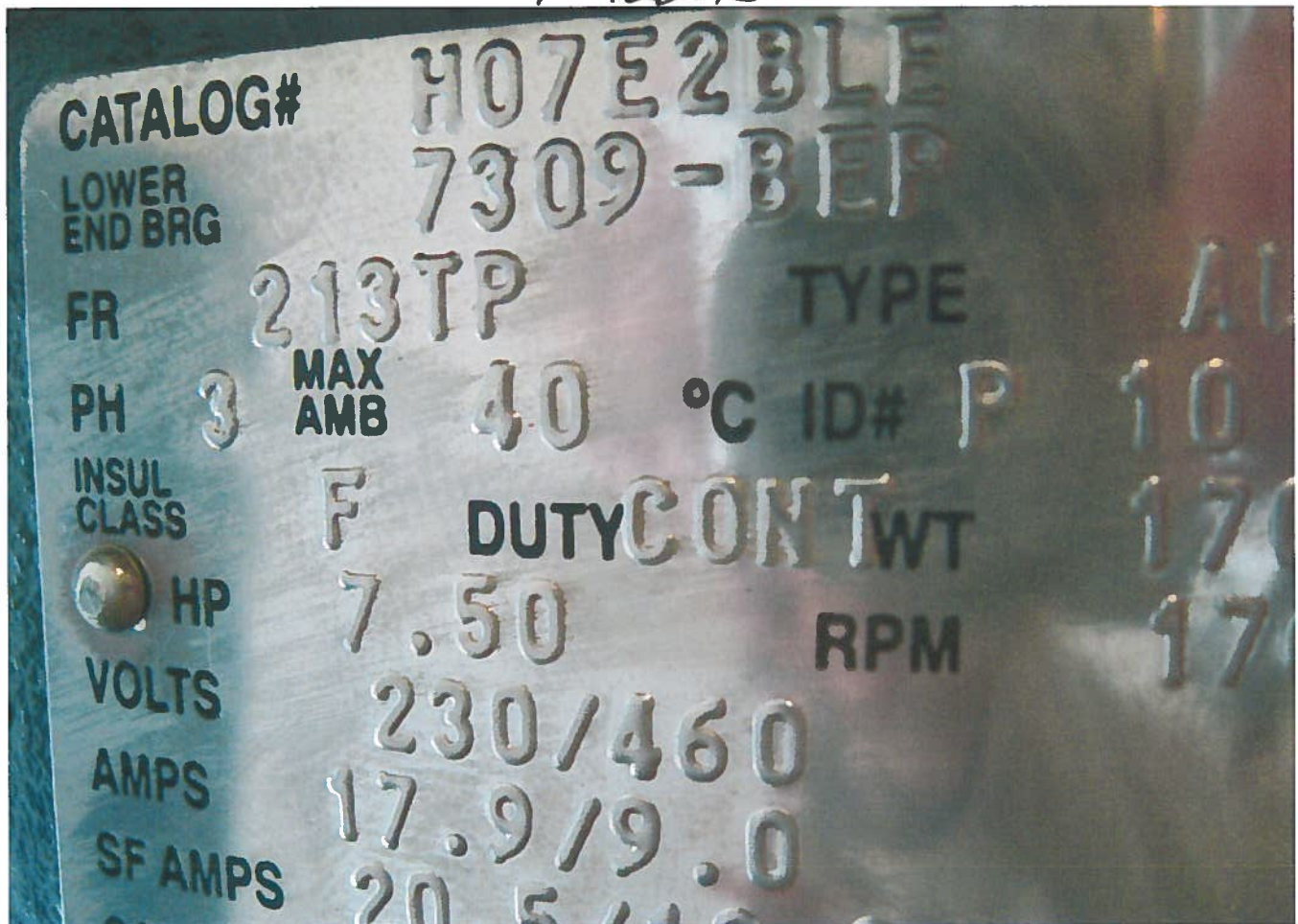


84-12245





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POD





OROFINO creek 84-12245 Pump's LOCATION

