



Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

North Mall Office Building
725 Summer Street NE, Suite A
Salem, OR 97301-1266
503-986-0900
FAX 503-986-0904

March 21, 2003

James W. Hamilton
P.O. Box 1283
Rogue River, OR 97537

RE: Application Reauthorization HE 463

Dear Mr. Hamilton,

The state Hydroelectric Application Review Team (HART) has reviewed the project application and has determined that project HE 500 is eligible for use of the modified short form reauthorization process.

Oregon law (ORS 543A.405) requires the payment of a reauthorization application fee to process your application. This fee covers the expenses incurred by the HART in reviewing your project and processing and issuing the new water right. The fee for your project is \$375.00 with \$187.50 due within 30 days of the receipt of this notice, and \$187.50 due prior to the Water Resources Department (the Department) issuing your final water right certificate.

The next step is to perform a site visit of your project. A member of the HART will contact you to schedule a site visit at your convenience. After completion of the site visit, the HART will reconvene and review project information. The primary purpose of the site visit is to document that your project is operating according to the terms of your present state license and to discuss with you any changes you propose for the reauthorization of your hydroelectric project. We will look at potential or existing impacts to fish and wildlife, water quality, and other natural resource values. We will also consider what, if any, mitigation measures might be appropriate for your project. A list of HART members is attached for your information.

After completion of the site visit, the HART will reconvene and review project information. To meet current state standards, the HART may recommend new operation procedures for your project. These procedures would be placed in the water right certificate as a condition to continue generating power at your site. After this review, the HART will prepare a draft water right (draft proposed final order) containing all the proposed terms and conditions. The draft proposed final order will be sent to you for review and issued for public notice and comment. The HART will consider any comments received and then finalize the draft into a proposed final order.

Hamilton
March 21, 2003
Page 2

The Department will issue the proposed final order for public notice and comment, provide an opportunity to file protests, and issue a final order. The final order and new water right certificate should be issued prior to the expiration of your current license. However, you can continue to generate power at your project until WRD takes final action on your application.

I have enclosed a flow chart that describes where you are in the process. If you have questions, or wish further explanation of the process, please feel free to call me at (503) 378-8455, ext 233.

Sincerely,

Janet Weathers
Hydroelectric Program Assistant

Enclosures

cc: Dennis Belsky, DEQ
Greg McMurray, DEQ
Ken Homolka, ODFW
Stephanie Burchfield, ODFW
Bruce Sund, Watermaster District 14

OREGON WATER RESOURCES DEPARTMENT



Commerce Building
158 12th Street NE
Salem OR 97301-4172

PUBLIC NOTICE OF WATER USE REQUESTS March 18, 2003

*This notice is also available on our web page at the following address:
http://www.wrd.state.or.us/cgi-bin/notices.pl?water_rights*

This publication lists agency activities requiring public notice. It also describes public comment processes and deadlines. Types of water use requests in this week's Public Notice include:

- * **Permit Application Initial Reviews, Proposed Final Orders, and Final Orders**
Applications for permits to use, store, divert or pump surface water or groundwater. Includes applications by the state Departments of Fish & Wildlife, Environmental Quality or Parks and Recreation for water to be used and kept in-channel.
- * **Applications for Extensions of Time to Perfect Water Right Permits**
New applications received and proposed final orders regarding requests to extend time limits to fully develop water use projects and beneficially apply water.
- * **Hydroelectric Notices of Intent, First-Stage Consultation Documents, Applications, and Proposed Final Orders**
Documents relating to reauthorization of hydroelectric projects under HB 2119 (1997).
- * **Applications for Limited Licenses**
Requests to use water for 5 years or less. Licenses are subordinate to other rights and may be revoked if a use is found to injure other water right holders.
- * **Proposed Short-Term Lease Agreements to Convert Existing Rights to Instream Use**
Short-term leases by water right holders of their water rights for instream uses.
- * **Transfer Applications**
Requests to change points of diversion or appropriation or places or types of use.

- * **Transfer Applications: Temporary Change in Place of Use**
Requests to temporarily change places of use.
- * **Transfer Applications: Permit Amendments**
Requests to amend permits.
- * **Temporary Transfers within District Boundaries (ORS 540.570)**
Petitions requesting a temporary transfer for one irrigation season in the place of use within a district's boundaries.
- * **Instream Transfers**
Requests to convert an existing water right to an instream water right.

The Public Notice is published each week on the Department's web site at <http://www.wrd.state.or.us/>. If you would like to receive a *free* weekly notification when it is published, please send your request to "Jonnine.L.FUSS@wrđ.state.or.us".

Hydroelectric Notices of Intent, First-Stage Consultation Documents, Applications, and Proposed Final Orders

The 1997 Oregon Legislature enacted a new program to reauthorize hydroelectric facilities whose licenses are due to expire (House Bill 2119). This program creates separate review procedures for projects entirely under Oregon jurisdiction and for projects licensed by the Federal Energy Regulatory Commission (FERC). The department will be providing notice in this bulletin of key documents submitted by applicants throughout both processes. These documents include the owner's initial Notice Of Intent to reauthorize facilities, hydroelectric water right applications to reauthorize projects, first-stage consultation documents and proposed final water right orders. The Department will also publish notice of documents submitted by applicants who have non-expiring state water rights but are under review by FERC and notices of applications received for new projects.

This bulletin will **NOT** provide notice of public meetings on projects, development of study plans, provisional state positions and other interim documents which provide opportunities for the public to comment on the projects. If you wish to participate in the public review of a specific project, you must request to have your name placed on the mailing list for that project within the time specified in this bulletin. (Notice for these meetings and documents will be distributed only to a project-specific mailing list.) Comments and mailing list requests must be submitted in the time frames described below.

Hydroelectric Applications: The department receives four types of hydroelectric applications: Initial applications for non-FERC projects, final water right applications for FERC projects and preliminary applications for new projects, and final applications for new projects. **Comments and requests to be placed on a mailing list are due on or before May 2, 2003 for non-FERC projects, and on or before May 17, 2003 for FERC projects.**

1. Application to Reauthorize Hydroelectric Facility:

Name:	James W. Hamilton
Address:	PO Box 1283 Rogue River OR 97537
County:	Jackson
Basin:	Rogue
Stream:	Grave Creek, tributary to Rogue River
Application Number:	HE 463
State Expiration Date:	December 31, 2004
Project Description:	Water diverted by gravity concrete dam three feet in height, and conveyed by pipeline to the plant site. Generation facilities will consist of a 12 inch diameter cross flow turbine driving a 32 volt 80 amp DC alternator. After passing through the generating facility, the water utilized will be returned to Grave Creek.

Proposed Final Orders Regarding Applications for Extensions of Time for Water Right Permits

ORS 537.320, 537.248 and 537.630 authorize the Water Resources Department to extend time limits contained in water rights permits for completing construction of water development projects and applying water to full beneficial use. Procedures for permit holders to apply for extensions and for the Department to evaluate and determine whether or not to approve extensions of time are contained in OAR 690-320-0010 for extensions filed before July 1, 2001, and in OAR 690-315-0010 for extensions filed on or after July 1, 2001.

Proposed Final Orders (PFOs) are the Department's preliminary decision on extension requests. They document the agency's decision through specific findings. Persons interested in receiving a mailed copy of a PFO must pay a statutorily-required fee of \$2 for the first page and 50 cents for each additional page. These proposed orders are generally seven pages in length. (Any person paying \$10 to receive a PFO by mail will also receive a copy of the Final Order when it is issued.) PFO's may be viewed for free at the Department's Salem Office or at the appropriate district watermaster office.

Extension of Time Public Notice and Comment Procedures

Written comments on or written protests against a PFO must be submitted on or before May 2, 2003. There is no fee for submission of comments. However, protests shall include the \$25 fee as required by ORS 536.050 (1)(j) and raise all reasonably ascertainable issues and available arguments supporting the person's position by the close of the comment period.

1.) OAR-690-315

County of Use:	CLACKAMAS
Application File Number:	G-12683
Permit Number:	G-11728
Applicant:	ROBERT W HARTFORD, 26940 GRAHAMS FERRY RD, SHERWOOD, OR 97140
River Basin:	WILLAMETTE BASIN
Water Source:	ONE WELL IN THE COFFEE LAKE CREEK BASIN
Authorized Use of Water:	IRRIGATION OF 57.85 ACRES
Maximum Diversion/ Appropriation Rate:	0.723 CFS
Recommendation:	The Department proposes to issue an order to approve the extension for complete application of water from October 1, 2001 to October 1, 2003.

1. Notice of Intent to Reauthorize Hydroelectric:

Name: James W. Hamilton
Address: PO Box 1283
Rogue River OR 97537

County: Jackson

Basin: Rogue

Stream: Grave Creek, tributary to Rogue River

Application Number: HE 463

State Expiration Date: December 31, 2004

Project Description: Water diverted by gravity concrete dam three feet in height, and conveyed by pipeline to the plant site. Generation facilities will consist of a 12 inch diameter cross flow turbine driving a 32 volt 80 amp Dc alternator. After passing through the generating facility, the water utilized will be returned to Grave Creek.

MEMORANDUM

DATE: February 24, 2003

TO: Greg McMurray, DEQ
Dennis Belsky, DEQ
Stephanie Burchfield, ODFW
Ken Homolka, ODFW

FROM: Janet Weathers, OWRD

SUBJECT: HE 469 - HAMILTON

Enclosed is a copy of the application for reauthorization of hydroelectric project HE 463. Also enclosed are copies of the map and other documents submitted with the application. Please review these documents and add them to your Year 2002 HART Non-FERC Project binder.

Please contact me with any questions you have at (503)378-8455 Ext. 233 or email Janet.K.Weathers@owrd.state.or.us.

Thanks.



Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
503-378-3739
FAX 503-378-8130

February 21, 2003

James Hamilton
PO Box 1283
Rogue River, OR 97537

RE: Receipt of Application for Reauthorization of Hydroelectric Project HE 463

Dear Mr. Hamilton:

I am in receipt of your application for reauthorization of hydroelectric project HE 463. I will be reviewing the application and supporting documents and will contact you if additional information or clarification is needed.

Included with the application documentation was a request for a copy of the project map. Enclosed is a copy of this map for your records. Please contact me with any questions at (503) 378-8455 Ext. 233.

Sincerely,

Janet Weathers
Hydroelectric Program Assistant

Enclosure

Oregon Water Resources Department

158 12th NE
Salem, OR 97301-4172
Phone: 503-378-8455

APPLICATION TO REAUTHORIZE A HYDROELECTRIC FACILITY

Please type or print in dark ink. Please answer all questions. If your application is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply to your application, insert "n/a." Include additional information on a separate sheet of paper. Thank you.

Applicant Information

Name HAMILTON, JAMES W.
Last First MI

Name of organization, if
applicable: N/A

Mailing address: P. O. BOX 1283

ROGUE RIVER, OR 97537
City State Zip

Project Address if different than mailing address: N/A

City County State Zip

Phone: 541-770-9988 541-664-5148 / 541-779-6503 Wife's Work# Fax:
Home Work

Project Information

Location of project works.

Please attach four copies of an accurate map indicating the township, range and section where the project is located. If you know the latitude and longitude, please also include that information. Refer to the accompanying material for map criteria.

1. Source of water: GRAVE CREEK
2. County where use occurs: JACKSON
3. Amount of water diverted from the source into the powerhouse in cubic feet per second (cfs)
1.75 cfs

Water and power use

Please include color photos of the major structures associated with the project: powerhouse, turbines, diversion point, penstock, tailrace. Also include a photo of the waterway just above the project, any bypass reaches (the stream area between your diversion and the point water is returned to the stream), reservoirs and the point where water comes out of the turbines. To determine the theoretical horsepower to be generated, multiple the vertical head in feet by the quantity of water in cubic feet per second and divide the product by 8.8.

1. Theoretical horsepower (thp) generated by the project 3.75
Does this represent an increase over historic use? ☐ Yes ☐ No

If Yes, Please check the appropriate box below.

- ☐ I am diverting more water to generate the additional power.
- ☐ I installed a more efficient power unit, but diverting the same amount of water.
- ☐ No.

2. How do you monitor your diversion and water use (describe)? AN AMP METER ON
ALTERNATOR - I KNOW THE SPEED OF WATER TRAVEL IN PIPE -
THIS X VOLUME = CFS.

3. Turbine and generator information:

- a. TURBINE: Type: CROSS FLOW
Size/Diameter: 12 INCH DIAMETER
- b. GENERATOR: KW Rating: 2500 KW
Manufacturer: BEST POWER INVERTER
Model: ENERGY CENTER 2200

4. Please indicate how the power is used:

☒ For household use

☐ Sold to a utility. Please list the name and address of power purchaser. _____

☐ To pump water for irrigation

☐ Other. Please describe. _____

5. Has the nature of your use changed since the project was first licensed? Describe any changes in water-use patterns, equipment or facilities since your project was first licensed.

I INSTALLED A RESTRICTOR IN TURBINE TO CUT FLOW AND ELECTRICITY IN HALF. BOUGHT SOLAR PANELS TO USE IN SUMMER MTS. TURBINE OFF DURING SUMMER MTS. PUT RESTRICTOR IN CAUSE WE FOUND WE DID NOT NEED THAT MUCH POWER- DID 12 YRS- AGO.

Property Ownership

Please attach a separate sheet of paper listing the names and addresses of all property owners abutting the property where the project is located.

BOISE ON ALL SIDES
SEE MAP

1. Do you own all the land where you divert and transport water and generate power?

☒ Yes.

☐ No.

2. If no, do you have a recorded easement or written authorization permitting access?

☐ Yes

☐ No

3. If yes, please provide a copy. If no, when do you expect to obtain the easement? _____
(Written authorization may be required before a water right can be issued.)

Resource Information

A. Fish and Wildlife:

1. Please provide information below on fish and wildlife species that you have observed in the project vicinity. Please provide details on the types, quantities, frequency, time of year, and age category (adults and/or young) you have seen.

a) Have you seen fish in the vicinity of the project? ☒ Yes ☐ No

If so, please indicate what kind and provide details: MINNOWS, STEELHEAD LARGE
STEEL HEAD 3RD WK. IN MARCH. SMALL FRY
ALL SUMMER

b) Have you caught fish in the vicinity of the project? ☐ Yes ☒ No

If so, please indicate what kind and provide details: _____

c) Have you seen dead fish or wildlife in the vicinity of the project? ☐ Yes ☒ No

If so, please indicate what kind and provide details: _____

d) Have you seen fish in your diversion or forebay in the vicinity of the project?

☐ Yes ☒ No I HAVE 1/8" PUNCH PLATE COVERING

If so, please indicate what kind and provide details: ALL OF DIVERSION

e) Have you seen birds such as gulls, kingfishers or mergansers in the vicinity of the project?

☒ Yes ☐ No

If so, please indicate what kind and provide details: MERGAUSERS NEST
BEHIND DAM EACH SPRING

f) Have you seen squawfish (recently renamed "pike minnow") in the vicinity of the project?

☐ Yes ☒ No

If so, please provide details: _____

g) Have you seen otters in the fish bypass or ladder? ☐ Yes ☒ No

If so, please indicate what kind and provide details: _____

h) Do you know of, or suspect, other species of fish and other wildlife to be present in the vicinity of your project? ☒ Yes ☐ No

If so, please indicate what kind and provide details: BEAVERS WE HAVE LOTS OF BEAVERS - ELK & DEER - THE ELK JUMP MY FENCE AND GO INTO THE BARN AND EAT HAY - 100 FT. FROM HOUSE - NOT AFRAID

2. Do you know of any studies or surveys that have been conducted in the project vicinity? If yes, please describe below who conducted the studies and what you know of the results.

1) Fish surveys? ☐ Yes ☒ No
If yes, please provide details _____

2) Flow studies? ☒ Yes ☐ No
If yes, please provide details SEE SENT FORM

3) Habitat survey? ☐ Yes ☒ No
If yes, please provide details _____

4) Fish screen or ladder evaluation? ☐ Yes ☒ No
If yes, please provide details _____

5) Any other studies or fish and wildlife data collected? ☐ Yes ☒ No
If yes, please list and describe _____

3. Has a change in fish and wildlife been noticed over the years since you starting operating the project? ☒ Yes ☐ No

If yes, please provide a general description of your observations and the associated time periods.

1994- NO STEELHEAD MADE IT UP THIS YEAR DUE TO MANY 3 & 4 FT. HIGH BEAVER DAMS ON GRAVE CREEK. USUALLY SEE 200 OR MORE FISH.

MANY MORE STEEL HEAD IN LAST 3 YRS - LOTS OF FRY ALL SUMMER - TO MANY ELK & BEAVERS

4. Describe any fish and wildlife protection or mitigation measures required for your project by any permitting agency (such as WRD, ODFW, DEQ, DSL, the County, U.S. Army Corps of Engineers, or Federal Energy Regulatory Commission). Mitigation might include required minimum flows below the project diversion, erosion control measures, a fish ladder, or fish screens.

Type of permit: 10/28/83 AGREEMENT WITH DEPT. OF FISH AND WILDLIFE.
Conditions: SCREEN, FISH LADDER AND CEASING PROJECT OPERATION
WHEN STREAM FLOWS ARE BELOW 2 CFS FOR LIFE OF THE PROJECT.

Type of permit: _____
Conditions: _____

Type of permit: _____
Conditions: _____

Other: _____

5. Were all mitigation requirements implemented? ☒ Yes ☐ No
If not, explain _____

6. Describe any other fish and wildlife facilities or protection actions not required by your existing license that are in place at your project.

Please provide drawings or photos on separate sheets of paper of any fish or wildlife protection structures in place and indicate the type and size of material, bypass location, velocity at screens, frequency of maintenance or other relevant information.

B. Water Quality and Stream Ecology

1. During what month of the year do you divert the greatest portion of the available streamflow through your project? (month) _____

CONSTANT - NOV. THRU APRIL

NO GOOD ANSWER - WE PROBABLY TAKE
2% IN JAN. AND 3% IN MARCH
MAYBE 7% IN APRIL.

1. a. Approximately what portion of the stream do you divert during this month?

☐ 25% ☐ 50% ☐ 100% ☐ other _____

b. What is the flow in cubic feet per second (cfs) in the stream just above your diversion point during this month. _____ cfs *TO BIG TO MEASURE*

c. Is the number above in 1b an estimate or a measured value?

☐ estimate ☐ measured value

2. During what month of the year do you divert the greatest quantity (cfs) from the stream? (month) *CONSTANT -*

a. Approximately what portion of the stream do you divert during this month?

☐ 25% ☐ 50% ☐ 100% ☐ other _____

b. What is the flow in cubic feet per second (cfs) in the stream just above your diversion point during this month. _____ cfs

c. Is the number above in 2b an estimate or a measured value?

☐ estimate ☐ measured value

3. Please provide water and air temperature data for any two hot days during late July or early August. Collecting data at several of the following locations is preferred and may be required later if not available now: at the diversion point, stream just above the powerhouse tailrace, outlet of any diversion storage ponds, and tailrace. (See attached material for measuring water temperature.) *DOES NOT APPLY - SHUT OFF*

a. Location of data collection: *IN SUMMER*

Date, Day 1: _____ noon water temperature _____ 3 pm water temperature

Date, Day 2: _____ noon water temperature _____ 3 pm water temperature

b. Location of data collection _____

Date, Day 1: _____ noon water temperature _____ 3 pm water temperature

Date, Day 2: _____ noon water temperature _____ 3 pm water temperature

c. Location of data collection _____

Date, Day 1: _____ noon water temperature _____ 3 pm water temperature

Date, Day 2: _____ noon water temperature _____ 3 pm water temperature

d. Location of data collection _____

Date, Day 1: _____ noon water temperature _____ 3 pm water temperature

Date, Day 2: _____ noon water temperature _____ 3 pm water temperature

Who took the above measurements? _____

4. Do you know of any other water quality **studies or surveys** that have been conducted in the project vicinity? If yes, please describe below who conducted the studies and what you know of the results.

5. If the project diverts water through a conduit (pipe, canal or penstock), what is the distance in feet from the point of diversion to the point water reenters the stream channel? 1360 feet.

Approximately what percentage of water remains in the stream between these two points during the following months?

May SHUT OFF August _____ October _____

6. Does the project divert water into a storage pond? ☐ Yes ☒ No
If yes, please indicate the average depth, width and length of the storage pond in feet:

Depth: _____ Width: _____ Length: _____

7. Have you ever noticed that the water is cloudy around your project?

☐ Yes ☐ No ONLY WHEN IT FLOODS
a. If yes, what color was the water?

☐ Brown ☐ Greenish ☐ Other _____
(Select one)

b. Describe the time of year and the weather when the water is cloudy.

Month _____ Weather _____

8. Have you ever noticed long strands of algae growing from the bottom up in the stream below your diversion point or below the tailrace?

☐ Yes ☒ No

a. If yes, what month did you notice the algae? _____

b. Do the algae plants appear every year at the same time?

☐ Yes ☐ No

9. What observations have you made about water quality or stream flows around and downstream of your project? _____

C. Land Use

1. A. Is your project consistent with the county and/or city comprehensive land use plan?

☒ Yes ☐ No

- B. If no, have you been granted an exception to the plan?

☐ Yes ☐ No Other _____

If yes to b above, please provide a copy of the exception approval. If no, exception approval may be required before approval of reauthorization certificate.

2. Does your project impact any resources or sites protected under local land use plans or regulations? ☐ Yes ☒ No

If yes, please describe _____

3. If you are planning a project expansion, do you have local land use planning approval? If yes, please enclose a completed land use form (see instructions).

D. Other resources

1. Is there risk to your project from landslides or earthquakes?

☐ Yes ☒ No

If yes, please describe _____

On what do you base your answer to the above question? _____

2. Do you have an emergency shut-down plan in case your project is damaged by landslides, earthquakes or flooding? If so, please describe _____

3. Does water pool on any land around your project sit for more than seven days during the year?

☐ Yes ☒ No

4. Are there sedges, bulrushes or other marsh plants near the project site?

☐ Yes ☒ No

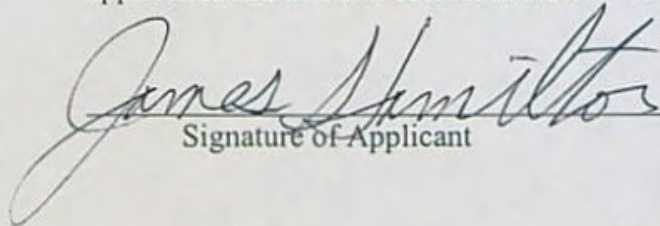
Describe: _____

Remarks

If you would like to clarify any information you have provided in the application, please do so here and reference the specific application question you are addressing.

Signature

By my signature below I confirm that all statements made and information provided in this application are true and correct to the best of my knowledge.


Signature of Applicant

2-15-03
Date

Signature of Co-applicant

Date

Before submitting this application, have you:

- ▶ Answered every question?
- ▶ Attached legible maps that meet all the necessary criteria?
- ▶ Attached photographs of the project site?

- ▶ Attached a listing of the names and addresses of all property owners abutting the property where the project is located?
- ▶ Attached drawings of fish and wildlife protection structures, if appropriate?

BOISE CASCADE



Oregon

Theodore R. Kulongoski, Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
503-378-3739
FAX 503-378-8130

February 10, 2003

James W. Hamilton
P. O. Box 1283
Rogue River, OR 97537

RE: HYDROELECTRIC PROJECT HE 463

Dear Mr. Hamilton:

I am writing on behalf of the Oregon Water Resources Department concerning your hydroelectric project license, HE 463. As you know, in December 2001 we sent you a letter notifying you that your hydroelectric license will expire on December 31, 2004. State law requires us to notify you three years before your license expires so that you have sufficient time to renew your license. Enclosed is a copy of the hydroelectric license for your reference.

To renew your license, you must first fill out an application. A review of the project file reflects that you returned a blank application to us along with a letter dated February 3, 2002. Your letter said you felt the application form is impossible to correctly fill out and that you were told your permit would automatically be re-instated if no violations were imposed.

In response to your concern about the application being impossible to fill out, I would be happy to meet with you at your earliest convenience to assist you in filling out your application. Please call me at (503) 378-8455 ext. 233 to set up a meeting with me. For your convenience, I have enclosed another application form.

As for your second concern, indicating your belief that your permit would automatically be re-instated, your permit clearly indicates that it will expire on December 31, 2004. There is no such provision in your permit that would allow it to be automatically re-instated. See attached permit. Moreover, it appears that in the past, you have corresponded with Donald Buell, a Water Resources Department Hydroelectric Licensing Engineer on March 9, 1984. In your letter, you discussed renewal of your project with him, this statement made by you clearly indicates that knew and understood that your project would need to go through a relicensing process. I have enclosed copies of both letters for your reference.

I look forward to hearing from you and providing any assistance that I can to help make this process as easy as possible.

Sincerely,

Janet Weathers
Hydroelectric Program Assistant

Enclosures



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

May 7, 2002
Certified Letter

James Hamilton
PO Box 1283
Rogue River, OR 97537

Project: HE 463

Dear Mr. Hamilton:

On December 26, 2001, the Oregon Water Resources Department (OWRD) received your Notice of Intent to File a Hydroelectric Water Right Application to reauthorize your hydroelectric project. On February 08, 2002 OWRD received your blank project reauthorization application and your letter. I apologize for not having responded sooner. However, the application is being returned to you because the information required in the application was not provided.

Pursuant to Oregon Revised Statutes (ORS) 543.260(1), a license may be issued by the Water Resources Commission to any qualified person for a period not exceeding 50 years. ORS Chapter 543A sets forth the process for reauthorization of existing hydroelectric facilities. The OWRD License for Hydroelectric Project HE 463 which was accepted and signed by you on February 29, 1984, and signed by the OWRD Director on March 5, 1984, states the following:

"Article 2. This license is issued for the period which is effective as of the date of issuance and will terminate December 31, 2004."

You have indicated that you wish to apply to reauthorize the project. In order to reauthorize your project, you must apply to OWRD using the application form we have provided to you. Once you submit your completed application to OWRD, the Hydroelectric Application Review Team (HART), which includes the OWRD, Oregon Department of Environmental Quality (ODEQ) and the Oregon Department of Fish and Wildlife (ODFW), will evaluate your project for reauthorization.

In reviewing your file, I noticed an agreement between you and the ODFW, dated October 14, 1983. In your letter to OWRD dated Feb. 3, 2002, you indicated that you were told that your permit would automatically be reinstated if no violations were imposed. Are you referring to the

James Hamilton
May 7, 2002 - page two
Project: HE 463

October 14, 1983 agreement with ODFW?

Hydroelectric licenses are not automatically reauthorized. Rather, licensees who wish to continue to operate their hydroelectric project must go through the reauthorization process. The information noted below is needed by the HART before we can review your project and make a determination about its reauthorization.

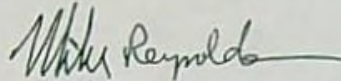
Please submit the following documentation to my attention at the Oregon Water Resources Department no later than June 17, 2002:

- a. The completed application to reauthorize your hydroelectric facility. I am returning the date stamped photocopy received by OWRD with your letter on February 8, 2002. You may fill out this copy or the original sent to you on January 8, 2002.
- b. Four copies of an accurate map indicating the township, range, and section where the project is located. See this requirement under Location of project works on page 1 of the application as well as in the Map Criteria which was sent to you earlier and is again enclosed.
- c. Color photos and a photo log of the major structures associated with the project: powerhouse, turbines, diversion point, penstock, tailrace. Also, photos of the waterway just above the project, any bypass reaches (the stream area between your diversion and the point water is returned to the stream), any reservoirs and the point where water comes out of the turbines. See this requirement under Water and Power Use on page 2 and question 8 on page 8 and 9 of the application.
- d. A recorded easement or written authorization permitting access to land where you divert and transport water and generate power. See page 3, Property Ownership Section.
- e. The Department of Environmental Quality will require the Water Quality and Stream Ecology portion of the application, which is on pages 6 and 7 item B.

If you have further questions, concerns or require assistance completing the application form, please call me at (503) 378-8455, extension 255.

James Hamilton
May 7, 2002 - page three
Project: HE 463

Sincerely,

A handwritten signature in dark ink, appearing to read "Mike Reynolds", with a long horizontal flourish extending to the right.

Mike Reynolds
Hydroelectric Licensing Specialist

enclosures

S:\grougps\wr\hydro\non-ferc\hart group 5\he463 application return ltr.wpd

MEMORANDUM

To: File for HE 463 – Hamilton

From: Mike Reynolds, OWRD

Re: Phone contact -- HE 463 – James W. Hamilton

Date: 4-8-02

I received a message that a Mr. Hamilton called and wanted to ask some questions about a minor hydro project. The message I received indicated that it was the Mr. Hamilton who operates HE 463. I called the number on the message, 541-471-3767, and there was never an answer.

I looked in the file and found a phone number for Mr. Hamilton's brother, at 541-664-1568. I called the brother, who took a message from me and passed it on to James W. Hamilton.

I spoke with James W. Hamilton this afternoon. Mr. Hamilton does not have a phone, so he is very hard to reach. Mr. Hamilton told me that I could call his wife's work number to leave a message at 541-779-6503. Mr. Hamilton said that he had not called OWRD at all, and he did not know why I was calling.

Then we talked about his hydroelectric project. Mr. Hamilton seemed to be upset at the prospect of having to fill out an application for reauthorization of his project. He said it would be impossible to fill out correctly, and he "did not want to incriminate himself" by filling it out.

Mr. Hamilton said that he was told by a man named "Rich" at OWRD, about 17 years ago, who had seen the project, that the project would continue in an ongoing fashion if there were no violations reported. I mentioned to Mr. Hamilton that I saw an agreement between him and ODFW, which I thought may have been related to what Mr. Hamilton was referring to in his earlier letter to OWRD, wherein Mr. Hamilton also said he was told he did not have to do anything to get reauthorized. However, the ODFW agreement only involves Mr. Hamilton and ODFW, and does not affect the reauthorization process in general.

Mr. Hamilton said that he was not talking about the ODFW agreement. Rather, Mr. Hamilton said he was talking about what "Rich" told him from OWRD, 17 years ago. I told Mr. Hamilton that hydroelectric projects are not automatically reauthorized, but need to go through the reauthorization process because the licenses terminate.

Mr. Hamilton said that we (OWRD) were trying to take away his electricity, and he added that he knew that we could not do that. Mr. Hamilton said he has spoken with his attorney who said that the state of Oregon cannot take away his electricity because it is a "necessity of life".

I told Mr. Hamilton that I was not calling him to "take away his electricity", but rather was calling to help him in the reauthorization process by answering questions about the application form and process.

I told Mr. Hamilton that we had sent out a certified letter to him which included another application form for him to fill out and send in. I explained that he did not have to have every question answered perfectly right away, and that I would work with him on the application.

I got the impression that Mr. Hamilton is quite upset about this – mostly because he still does not understand the process and is relying on what "Rich" supposedly told him 17 years ago.

Mr. Hamilton also said that he has been following the development of the hydroelectric laws, and that the reauthorization laws didn't become effective until only a few years ago, and so Mr. Hamilton thinks that they do not apply to him. I explained that Mr. Hamilton's HE license was set to expire on December 31, 2004, as stated in Article 2 of the HE license he signed. Given that the license is set to expire, he can either let it expire or get it reauthorized.

Mr. Hamilton also said he wanted OWRD staff to "just come look at it" now, and that would resolve all of this. I told Mr. Hamilton that we first need an application from him, and that we are following a process that is set forth in the statutes, etc., which may include an eventual site visit.

Mr. Hamilton was on a public phone at what sounded like a company or restaurant, and he said he needed to hang up.

James Hamilton
P.O. Box 1283
Rogue River, OR 97537
HE 463

February 3, 2002

Water Resources Department
Commerce Building
158 12th Street NE
Salem, OR 97301-4172

To Whom It May Concern:

It is of my opinion that these papers are not necessary and are impossible to
Correctly fill out.

As stated in my last letter to you, we were told our permit would
automatically be re-instated if no violations were imposed. This is the case.
My system is as good as it gets.

I am requesting that you come and look for yourself. Bring your map maker
and all the cameras you want, just make sure I am with you. I will answer
any questions you have if I know the answer.

I can and will meet you at the covered bridge store at the Sunny Valley Exit
on I-5, 13 miles north of Grants Pass and lead you to my place. I can do this
anytime of the week. I have no phone, but you can let me know when you
are coming by calling my brother, Jack Hamilton at 1-541-664-1568 or his
cell 941-1049.

Sincerely,

James Hamilton
Jim Hamilton

= 2-5-02

RECEIVED

FEB 08 2002

WATER RESOURCES DEPT.
SALEM, OREGON

LEGAL NOTICE

ALL PRIVATE CITIZENS AND ALL PUBLIC SERVANTS
YOU ARE HEREBY PUT ON NOTICE THAT THIS IS
PRIVATE PROPERTY AS SUCH.

WARNING: To all people you may be charged
with the following:

OREGON REVISED STATUTES

164.245 Criminal trespass in the second degree. (1) A person commits the crime of criminal trespass in the second degree if he enters or remains unlawfully in or upon premises.

(2) Criminal trespass in the second degree is a Class C misdemeanor. [1971 c.743 §139]

164.255 Criminal trespass in the first degree. (1) A person commits the crime of criminal trespass in the first degree if he enters or remains unlawfully in a dwelling.

(2) Criminal trespass in the first degree is a Class A misdemeanor. [1971 c.743 §140]

164.265 Criminal trespass while in possession of firearm. (1) A person commits the crime of criminal trespass while in possession of a firearm who, while in possession of a firearm, enters or remains unlawfully in or upon premises.

(2) Criminal trespass while in possession of a firearm is a Class A misdemeanor. [1979 c.603 §2]

WARNING: To all public servants.

YOU are hereby put on Notice that this "Is Private Property" as such, all Rights Guaranteed by the, "Constitution," (which you've taken an Oath to uphold and defend) are hereby claimed!

PLEASE NOTE! No Claims or Demands of any kind will be recognized without full, "Due Process of Law!"

If you feel you must contact me Officially, you can do so by mail. Address all correspondence to:

NOTE! Be sure you personally sign all documents, demands or requests!

Ch. 21 CIVIL RIGHTS

42 § 1983

§ 1983. Civil action for deprivation of rights

Every person who, under color of any statute, ordinance, regulation, custom, or usage, of any State or Territory or the District of Columbia, subjects, or causes to be subjected, any citizen of the United States or other person within the jurisdiction thereof to the deprivation of any rights, privileges, or immunities secured by the Constitution and laws, shall be liable to the party injured in an action at law, suit in equity, or other proper proceeding for redress. For the purposes of this section, any Act of Congress applicable exclusively to the District of Columbia shall be considered to be a statute of the District of Columbia.

R.S. § 1979; Pub.L. 96-170, § 1, Dec. 29, 1979, 93 Stat. 1284.

"If two or more persons conspire to injure, oppress, threaten, or intimidate any citizen in the free exercise or enjoyment of any right or privilege secured to him by the Constitution or the laws of the United States, or because of his having so exercised the same: or

If two or more persons go in disguise on the highway, or on the premises of another, with the intent to prevent or hinder his free exercise or enjoyment of any right or privilege so secured —

They shall be fined not more than \$10,000 or imprisoned not more than ten years, or both; and if death they shall be subject to imprisonment for any term of years or for life."

U.S.C., TITLE 18, Sec. 241

RECEIVED

FEB 08 2002

WATER RESOURCES DEPT.
SALEM, OREGON



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

January 8, 2002

James W. Hamilton
PO Box 1283
Rogue River OR 97537

License: HE 463

Dear Mr. Hamilton:

The Water Resources Department recently received the Notice of Intent form you submitted to begin the process to reauthorize your hydroelectric project.

The next step in the reauthorization process requires that you complete the enclosed application form. This completed form must be returned to the Water Resources Department within 60 days from the date on this letter. (In other words, your application must be postmarked no later than March 9, 2002) For your convenience, enclosed along with the application form is information about the reauthorization process, water temperature monitoring and map requirements.

Once the Water Resources Department receives your completed form, a notice will be published in our weekly bulletin, Public Notice of Water Use Requests, announcing that you have submitted an application to reauthorize your hydroelectric project. You will also be able to view the bulletin notice online at www.wrd.state.or.us/cgi-bin/notices.pl?water_rights. The notice will request comments on your application and will allow anyone to comment on your application for forty-five (45) days. When the public comment period ends, a Hydroelectric Application Reauthorization Team (HART) will be convened to determine which process the state will use to review your application. The HART is composed of state agencies (which include, among others, the Oregon Water Resources Department, the Department of Environmental Quality and the Oregon Department of Fish and Wildlife) and is tasked with processing your application.

If you have questions or concerns, please phone me at 503-378-8455, ext 233.

Sincerely,

Janet Weathers
Hydropower Program Assistant

enclosures

S:\groups\wr\hydro\hart reauth\he 463 reauth app.wpd

COPY BY JA.

RECEIVED

FEB 08 2002

WATER RESOURCES DEPT.
SALEM, OREGON

1. Source of water: _____
2. County where use occurs: _____
3. Amount of water diverted from the source into the powerhouse in cubic feet per second (cfs) _____

Water and power use

Please include color photos of the major structures associated with the project: powerhouse, turbines, diversion point, penstock, tailrace. Also include a photo of the waterway just above the project, any bypass reaches (the stream area between your diversion and the point water is returned to the stream), reservoirs and the point where water comes out of the turbines. To determine the theoretical horsepower to be generated, multiple the vertical head in feet by the quantity of water in cubic feet per second and divide the product by 8.8.

1. Theoretical horsepower (thp) generated by the project _____
Does this represent an increase over historic use? ☐ Yes ☐ No

If Yes, Please check the appropriate box below.

- ☐ I am diverting more water to generate the additional power.
☐ I installed a more efficient power unit, but diverting the same amount of water.
☐ No.

2. How do you monitor your diversion and water use (describe)?

3. Turbine and generator information:

COPY BY JH

- a. TURBINE: Type: _____
Size/Diameter: _____
- b. GENERATOR: KW Rating: _____
Manufacturer: _____
Model: _____

4. Please indicate how the power is used:

- ☐ For household use
☐ Sold to a utility. Please list the name and address of power purchaser. _____

Oregon Water Resources Department

158 12th NE
Salem, OR 97301-4172
Phone: 503-378-8455

APPLICATION TO REAUTHORIZE A HYDROELECTRIC FACILITY

Please type or print in dark ink. Please answer all questions. If your application is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply to your application, insert "n/a." Include additional information on a separate sheet of paper. Thank you.

Applicant Information

Name			
Last	First	MI	
Name of organization, if applicable: _____			
Mailing address: _____			
City	State	Zip	
Project Address if different than mailing address: _____			
City	County	State	Zip
Phone: _____ Fax: _____			
Home		Work	

COPY BY JH

Project Information**Location of project works.**

Please attach four copies of an accurate map indicating the township, range and section where the project is located. If you know the latitude and longitude, please also include that information. Refer to the accompanying material for map criteria.

RECEIVED**FEB 08 2002****WATER RESOURCES DEPT.
SALEM, OREGON**

b) Have you caught fish in the vicinity of the project? ☐ Yes ☐ No

If so, please indicate what kind and provide details: _____

c) Have you seen dead fish or wildlife in the vicinity of the project? ☐ Yes ☐ No

If so, please indicate what kind and provide details: _____

d) Have you seen fish in your diversion or forebay in the vicinity of the project?

☐ Yes ☐ No

If so, please indicate what kind and provide details: _____

e) Have you seen birds such as gulls, kingfishers or mergansers in the vicinity of the project?

☐ Yes ☐ No

If so, please indicate what kind and provide details: _____

f) Have you seen squawfish (recently renamed "pike minnow") in the vicinity of the project?

☐ Yes ☐ No

If so, please provide details: _____

COPY BY JH

RECEIVED
FEB 11 1975
4
FISH DIVISION
U.S. DEPARTMENT OF AGRICULTURE

☐ To pump water for irrigation

☐ Other. Please describe. _____

5. Has the nature of your use changed since the project was first licensed? Describe any changes in water-use patterns, equipment or facilities since your project was first licensed.

Property Ownership

Please attach a separate sheet of paper listing the names and addresses of all property owners abutting the property where the project is located.

1. Do you own all the land where you divert and transport water and generate power?

☐ Yes.

☐ No.

2. If no, do you have a recorded easement or written authorization permitting access?

☐ Yes

☐ No

3. If yes, please provide a copy. If no, when do you expect to obtain the easement? _____

(Written authorization may be required before a water right can be issued.)

Resource Information

A. Fish and Wildlife:

1. Please provide information below on **fish and wildlife** species that you have **observed in the project vicinity**. Please provide details on the types, quantities, frequency, time of year, and age category (adults and/or young) you have seen.

a) Have you seen fish in the vicinity of the project? ☐ Yes ☐ No

If so, please indicate what kind and provide details: _____

RECEIVED

FEB 08 2002

WATER RESOURCES DEPT.
SALEM, OREGON

COPY BY JH

g) Have you seen otters in the fish bypass or ladder? ☐ Yes ☐ No

If so, please indicate what kind and provide details: _____

h) Do you know of, or suspect, other species of fish and other wildlife to be present in the vicinity of your project? ☐ Yes ☐ No

If so, please indicate what kind and provide details: _____

2. Do you know of any **studies or surveys** that have been conducted in the project vicinity?
If yes, please describe below who conducted the studies and what you know of the results.

1) Fish surveys? ☐ Yes ☐ No

If yes, please provide details _____

2) Flow studies? ☐ Yes ☐ No

If yes, please provide details _____

3) Habitat survey? ☐ Yes ☐ No

If yes, please provide details _____

4) Fish screen or ladder evaluation? ☐ Yes ☐ No

If yes, please provide details _____

5) Any other studies or fish and wildlife data collected? ☐ Yes ☐ No

If yes, please list and describe _____

COPY BY *[Signature]*

RECEIVED

FEB 08 2002

WATER RESOURCES DEPT.
SALEM, OREGON

3. Has a **change in fish and wildlife** been noticed over the years since you starting operating the project? ☐ Yes ☐ No

If yes, please provide a general description of your observations and the associated time periods.

4. Describe any fish and wildlife protection or mitigation measures required for your project by any permitting agency (such as WRD, ODFW, DEQ, DSL, the County, U.S. Army Corps of Engineers, or Federal Energy Regulatory Commission). Mitigation might include required minimum flows below the project diversion, erosion control measures, a fish ladder, or fish screens.

Type of permit: _____
Conditions: _____

Type of permit: _____
Conditions: _____

Type of permit: _____
Conditions: _____

Other: _____

5. Were all mitigation requirements implemented? ☐ Yes ☐ No

If not, explain _____

6. Describe any other fish and wildlife facilities or protection actions not required by your existing license that are in place at your project.

RECEIVED

FEB 11 2003

WATER DIVISION

COPY BY JH

Please provide drawings or photos on separate sheets of paper of any fish or wildlife protection structures in place and indicate the type and size of material, bypass location, velocity at screens, frequency of maintenance or other relevant information.

B. Water Quality and Stream Ecology

1. During what month of the year do you divert the greatest portion of the available streamflow through your project? (month) _____
 - a. Approximately what portion of the stream do you divert during this month?
☐ 25% ☐ 50% ☐ 100% ☐ other _____
 - b. What is the flow in cubic feet per second (cfs) in the stream just above your diversion point during this month. _____ cfs
 - c. Is the number above in 1b an estimate or a measured value?
☐ estimate ☐ measured value
2. During what month of the year do you divert the greatest quantity (cfs) from the stream? (month) _____
 - a. Approximately what portion of the stream do you divert during this month?
☐ 25% ☐ 50% ☐ 100% ☐ other _____
 2. What is the flow in cubic feet per second (cfs) in the stream just above your diversion point during this month. _____ cfs
 3. Is the number above in 2b an estimate or a measured value?
☐ estimate ☐ measured value
3. Please provide water and air temperature data for any two hot days during late July or early August. Collecting data at several of the following locations is preferred and may be required later if not available now: at the diversion point, stream just above the powerhouse tailrace, outlet of any diversion storage ponds, and tailrace. (See attached material for measuring water temperature.)

1. Location of data collection: _____
Date, Day 1: _____ noon water temperature _____ 3 pm water temperature
Date, Day 2: _____ noon water temperature _____ 3 pm water temperature

COPY BY JH
7

RECEIVED
FEB 08 2002
WATER RESOURCES DEPT.
SALEM, OREGON

- b. Location of data collection _____
 Date, Day 1: _____ noon water temperature _____ 3 pm water temperature
 Date, Day 2: _____ noon water temperature _____ 3 pm water temperature
- c. Location of data collection _____
 Date, Day 1: _____ noon water temperature _____ 3 pm water temperature
 Date, Day 2: _____ noon water temperature _____ 3 pm water temperature
- d. Location of data collection _____
 Date, Day 1: _____ noon water temperature _____ 3 pm water temperature
 Date, Day 2: _____ noon water temperature _____ 3 pm water temperature

Who took the above measurements? _____

4. Do you know of any other water quality **studies or surveys** that have been conducted in the project vicinity? If yes, please describe below who conducted the studies and what you know of the results.
- _____
- _____
- _____

5. If the project diverts water through a conduit (pipe, canal or penstock), what is the distance in feet from the point of diversion to the point water reenters the stream channel? _____ feet.

Approximately what percentage of water remains in the stream between these two points during the following months?

May _____ August _____ October _____

6. Does the project divert water into a storage pond? ☐ Yes ☐ No
 If yes, please indicate the average depth, width and length of the storage pond in feet:

Depth: _____ Width: _____ Length: _____

7. Have you ever noticed that the water is cloudy around your project?

☐ Yes ☐ No

a. If yes, what color was the water?

☐ Brown ☐ Greenish ☐ Other _____
 (Select one)

b. Describe the time of year and the weather when the water is cloudy.

Month _____ Weather _____

8. Have you ever noticed long strands of algae growing from the bottom up in the stream below your diversion point or below the tailrace?

☐ Yes ☐ No

a. If yes, what month did you notice the algae? _____

b. Do the algae plants appear every year at the same time?

☐ Yes ☐ No

9. What observations have you made about water quality or streamflows around and downstream of your project? _____

C. Land Use

1. A. Is your project consistent with the county and/or city comprehensive land use plan?

☐ Yes ☐ No

2. If no, have you been granted an exception to the plan?

☐ Yes ☐ No Other _____

If yes to b above, please provide a copy of the exception approval. If no, exception approval may be required before approval of reauthorization certificate.

2. Does your project impact any resources or sites protected under local land use plans or regulations? ☐ Yes ☐ No

If yes, please describe _____

3. If you are planning a project expansion, do you have local land use planning approval? If yes, please enclose a completed land use form (see instructions).

D. Other resources

1. Is there risk to your project from landslides or earthquakes?

☐ Yes ☐ No

If yes, please describe _____

On what do you base your answer to the above question? _____

2. Do you have an emergency shut-down plan in case your project is damaged by landslides,

COPY BY *[Signature]*

RECEIVED

FEB 08 2002

WATER RESOURCES DEPT.
SALEM, OREGON

earthquakes or flooding? If so, please describe _____

3. Does water pool on any land around your project site for more than seven days during the year? ☐ Yes ☐ No

4. Are there sedges, bulrushes or other marsh plants near the project site?

☐ Yes ☐ No

Describe: _____

Remarks

If you would like to clarify any information you have provided in the application, please do so here and reference the specific application question you are addressing.

Signature

By my signature below I confirm that all statements made and information provided in this application are true and correct to the best of my knowledge.

Signature of Applicant

Date

RECEIVED
FEB 11 2009
WATER RESOURCES
DIVISION
COPY BY JH

Signature of Co-applicant

Date

Before submitting this application, have you:

- ▶ Answered every question?
- ▶ Attached legible maps that meet all the necessary criteria?
- ▶ Attached photographs of the project site?
- ▶ Attached a listing of the names and addresses of all property owners abutting the property where the project is located?
- ▶ Attached drawings of fish and wildlife protection structures, if appropriate?

COPY BY *JH*

690-310-050 Map to Accompany Application for Water Use Permit

(1) Each application shall be accompanied by a map or drawing which shall be considered a part of the application.

(2) Maps submitted with water use applications shall meet the following criteria:

(a) The application map, which is made part of the record, shall be of permanent quality and drawn in ink or otherwise printed in an indelible form with sufficient clarity so as to be easily reproduced;

(b) Maps shall be drawn on good-quality paper. If the map is larger than 11 inches by 17 inches, four copies must be submitted or the map must be drawn on tracing linen, tracing vellum or mylar;

(c) All maps shall be drawn to a standard, even scale of not less than 4 inches = 1 mile. All maps must include the scale to which the map is drawn and a north directional symbol.

(3) A platted and recorded subdivision map, deed description survey map or county assessor map may be submitted as the application map if all of the required information is clearly shown.

(4) Each copy of the map shall show clearly each of the following requirements that apply to the proposed appropriation:

(a) The location of each diversion point, well, or dam by reference to a recognized public land survey corner. The locations may be shown by distance and bearing or by coordinates (distance north or south and distance east or west from the corner);

(b) The location of main canals, ditches, pipelines, or flumes;

(c) The location of the place where water is to be used identified by tax lot, township, range, section and nearest quarter-quarter section along with a notation of the acreage of the proposed place of use, if appropriate. The Department also shall accept any locational coordinate information that the applicant may wish to provide, including latitude and longitude as established by a global positioning system. If for irrigation, the area to be irrigated in each quarter-quarter of a section shall be indicated by shading or hatchuring and the number of acres in each quarter-quarter section, donation land claim, government lot or other recognized public land survey lines indicated.

COPY BY JH

RECEIVED

FEB 08 2002

WATER RESOURCES DEPT.
SALEM, OREGON

EXHIBIT A

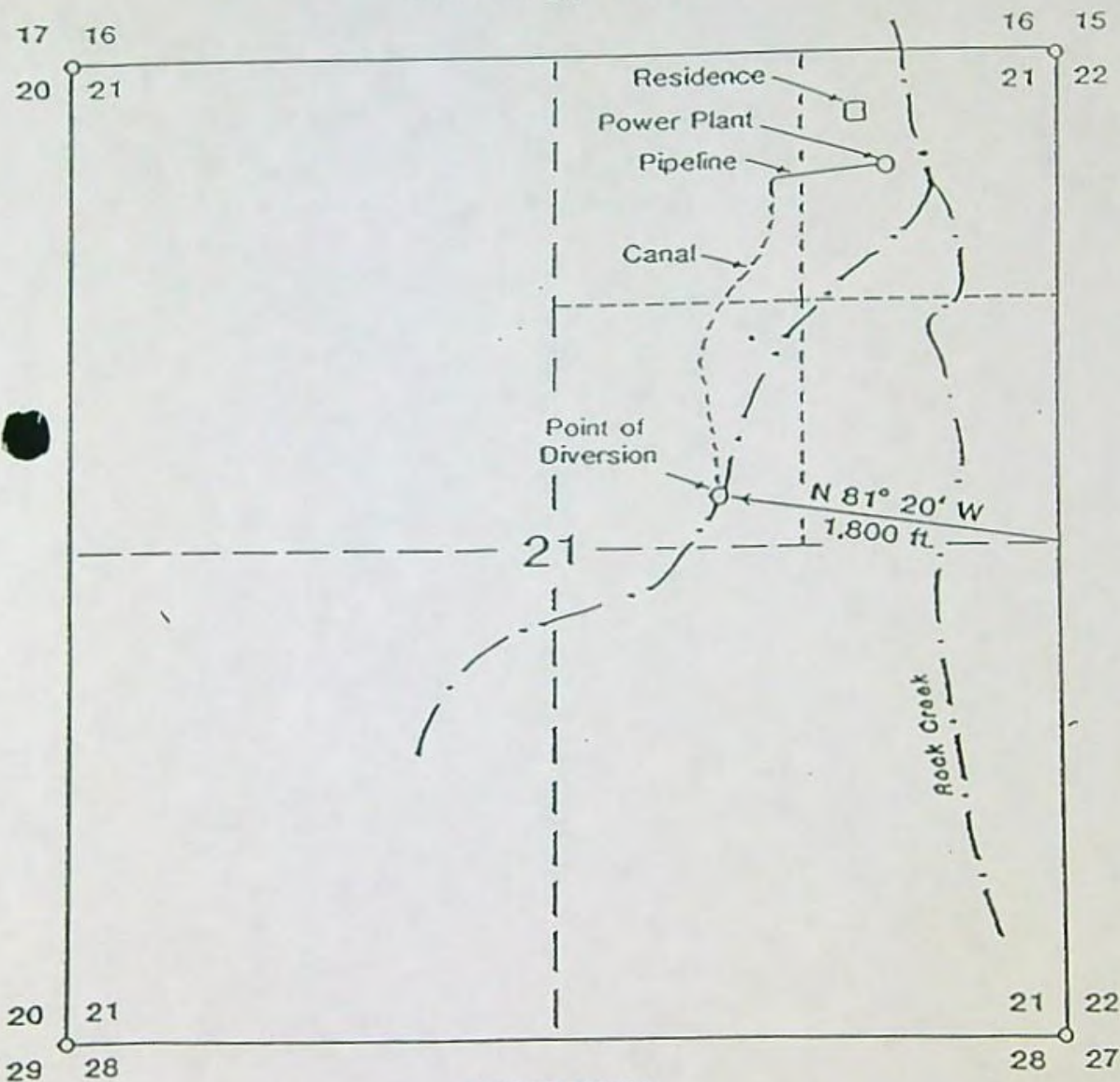
RECEIVED

FEB 08 2002

WATER RESOURCES DEPT.
SALEM, OREGON

MAP TO ACCOMPANY APPLICATION FOR HYDROELECTRIC LICENSE

A.C. Smith
January, 1988



SECTION 21
TOWNSHIP 2 SOUTH, RANGE 2 WEST, W.M.

Scale: 1" = 1,000'



copy. BTH

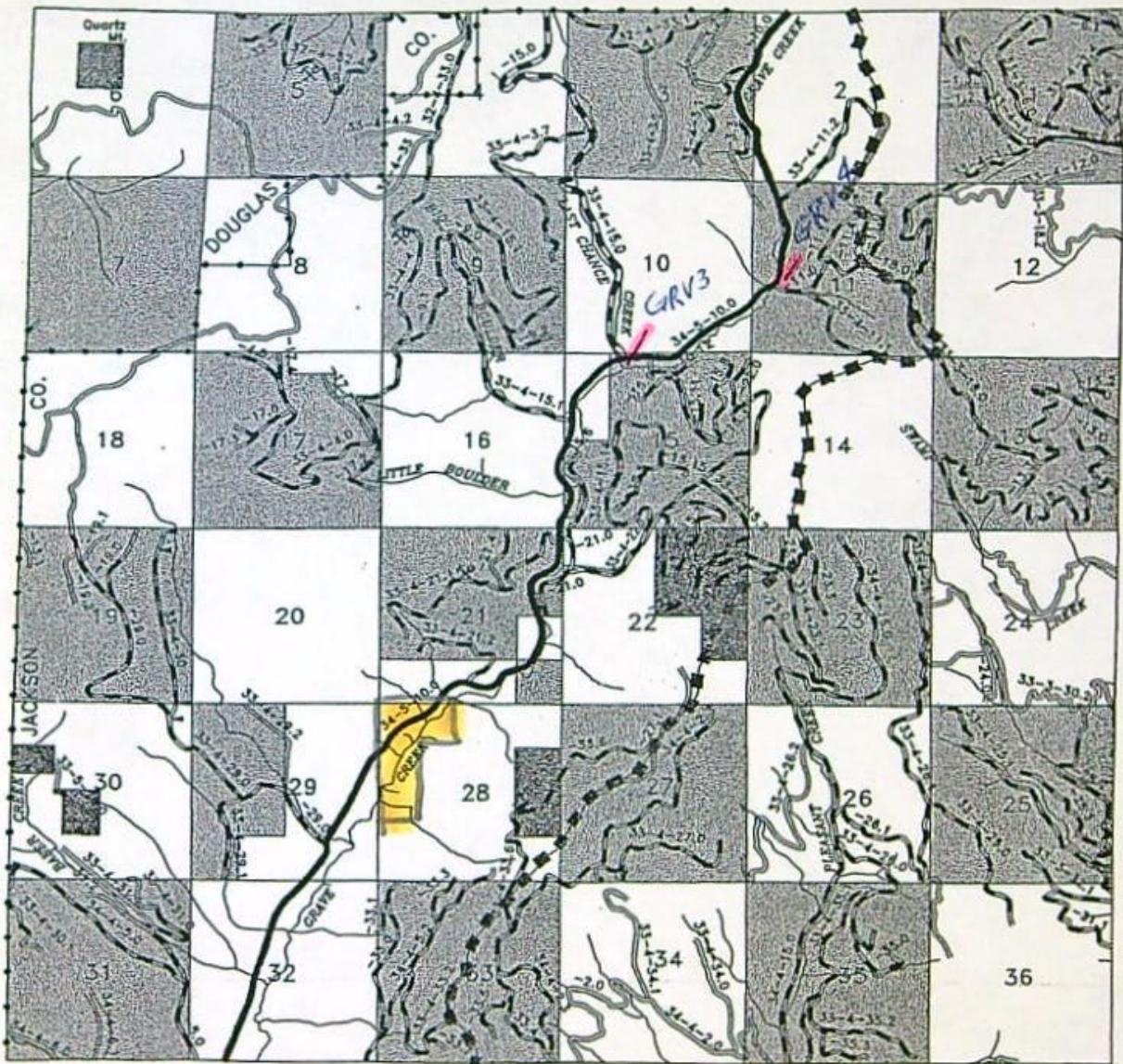
CANADIAN

T.33S., R.4W., WILL. MER.

SCALE: 1" = 1 MILE

QUARTZ MILL

REV. 3-15-00



STREAM IS 95% SHADED
WITH ALDERS + FIR FROM
POINT OF REPORT TO MY
DAM- BLM SAID THERE WILL
ONLY BE A 2 OR 3 DEGREE
RISE IN TEMP. TO MY PLACE

Grave Creek #3, above Last Chance Creek

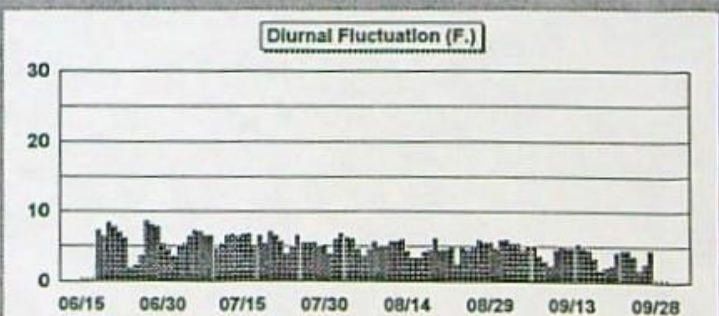
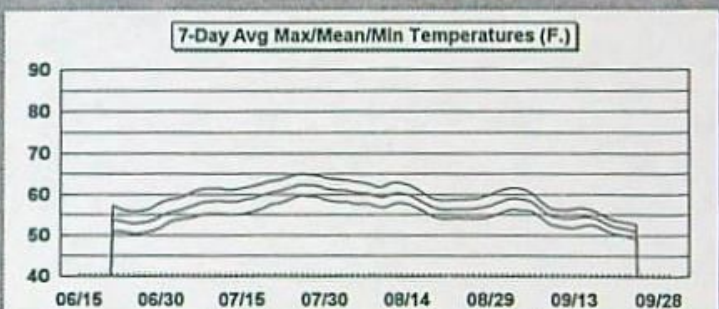
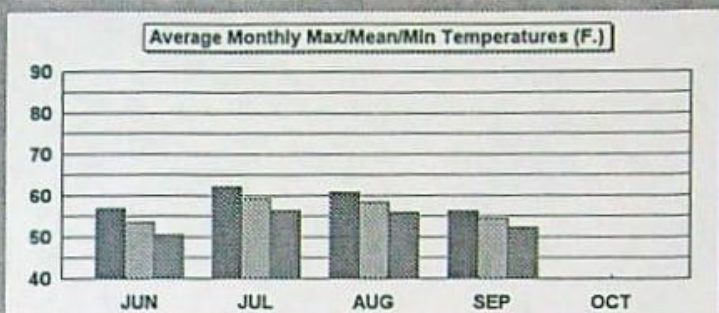
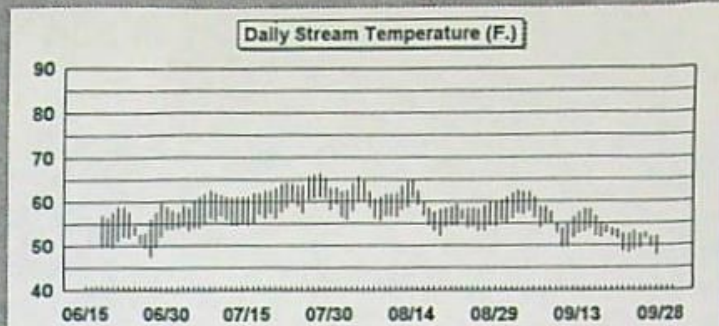
1998

BLM Medford District

Stream Temperature Data for Site Code: GRV3
Hydrologic Unit Code (HUC): 17 10 03 10 03 01 03

PROVISIONAL DATA SUBJECT TO REVISION

Monthly Statistics	JUN	JUL	AUG	SEP	OCT
Days of complete data:	13	31	31	27	-
Daily Maximums (F.)					
highest maximum:	59.7	66.3	65.7	62.6	-
lowest maximum:	52.7	57.5	57.7	51.9	-
average maximum:	56.8	62.2	61.0	56.4	-
days with maximums <60:	13	4	14	22	-
days with maximums 60-65:	-	23	16	5	-
days with maximums 65-70:	-	4	1	-	-
days with maximums >70:	-	-	-	-	-
7-day avg. maximums > 64.0: (ODEQ water quality standard)	-	8	-	-	-
Daily minimums (F.)					
highest minimum:	53.6	60.9	60.6	57.7	-
lowest minimum:	47.4	53.3	52.2	47.7	-
average minimum:	50.7	56.5	56.0	52.4	-
Daily Means (F.)					
highest mean:	55.8	63.6	62.7	60.0	-
lowest mean:	50.8	55.2	55.3	50.0	-
average mean:	53.5	59.3	58.5	54.4	-
Daily diurnal fluctuation (F.)					
highest diurnal fluctuation:	8.6	7.3	6.8	5.9	-
lowest diurnal fluctuation:	1.9	3.6	2.5	1.7	-
average diurnal fluctuation:	6.2	5.7	5.0	4.0	-
7-day avg. maximums (F.)					
highest 7-day avg. maximum:	58.1	65.0	63.7	61.7	-
lowest 7-day avg. maximum:	55.8	58.5	58.5	52.7	-
mean 7-day avg. maximum:	56.6	62.2	61.0	56.8	-
7-day avg. minimums (F.)					
highest 7-day avg. minimum:	52.0	59.8	58.2	56.4	-
lowest 7-day avg. minimum:	50.4	52.9	54.0	49.0	-
mean 7-day avg. minimum:	50.9	56.4	56.1	52.7	-
7-day average means (F.)					
highest 7-day avg. mean:	54.7	62.4	61.0	59.0	-
lowest 7-day avg. mean:	52.9	55.3	56.3	51.0	-
mean 7-day avg. mean:	53.5	59.3	58.5	54.8	-
7-day average diurnal fluctuation (F.)					
highest 7-day avg. fluctuation:	6.4	6.4	5.6	5.3	-
lowest 7-day avg. fluctuation:	5.3	5.2	4.3	3.2	-
mean 7-day avg. fluctuation:	5.7	5.8	5.0	4.1	-



Statistics for the period of the 7-day Maximum

The warmest 7-day period of stream temperature daily maximums centered on: 07/26

7-day average daily maximum (F.): 65.0

Daily Statistics for this period:

	07/23	07/24	07/25	07/26	07/27	07/28	07/29
maximum (F.):	64.0	63.7	63.7	65.7	66.0	66.3	65.4
minimum (F.):	60.0	58.9	57.2	60.3	60.6	60.9	60.6
mean (F.):	61.9	61.3	60.7	63.0	63.3	63.6	63.0
diurnal fluctuation (F.)	4.0	4.8	6.5	5.5	5.5	5.5	4.9

Grave Creek #3, above Last Chance Creek

1999

BLM Medford District

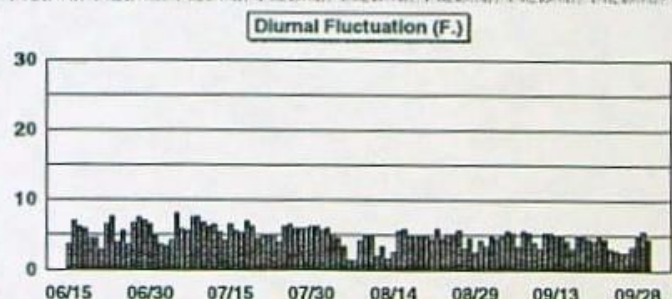
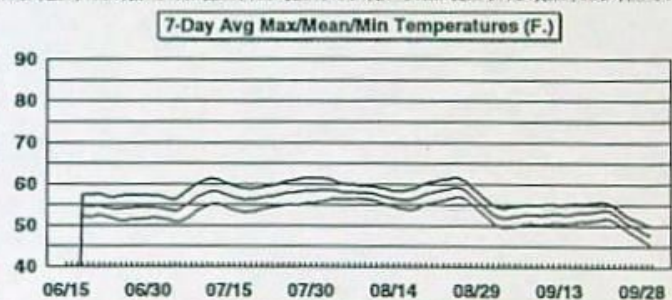
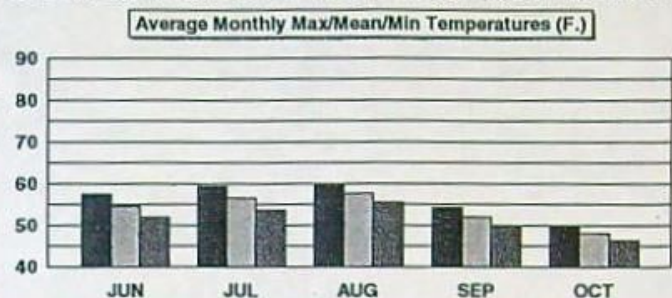
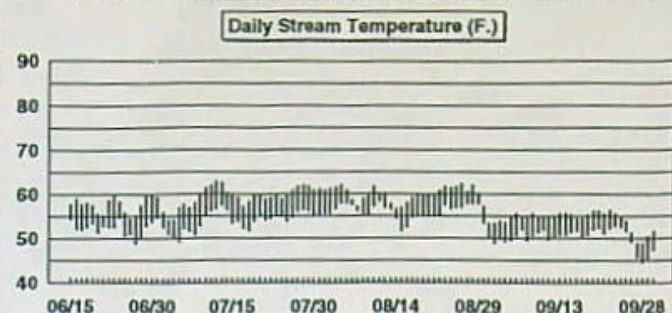
Stream Temperature Data for Site Code:

GRV3

Hydrologic Unit Code (HUC): 17 10 03 10 03 01 03

PROVISIONAL DATA SUBJECT TO REVISION

Monthly Statistics	JUN	JUL	AUG	SEP	OCT
<i>Days of complete data:</i>	16	31	31	30	6
Daily Maximums (F.)					
highest maximum:	59.8	63.0	62.4	56.4	50.6
lowest maximum:	54.5	54.2	53.3	48.9	49.2
average maximum:	57.5	59.4	59.8	54.2	49.8
days with maximums <60:	16	19	13	30	6
days with maximums 60-65:	-	12	18	-	-
days with maximums 65-70:	-	-	-	-	-
days with maximums >70:	-	-	-	-	-
7-day avg. maximums > 64.0: (ODEQ water quality standard)	-	-	-	-	-
Daily minimums (F.)					
highest minimum:	54.5	57.3	58.1	52.5	48.6
lowest minimum:	48.6	48.9	50.0	44.1	44.7
average minimum:	51.9	53.7	55.6	49.9	46.5
Daily Means (F.)					
highest mean:	56.6	59.9	59.6	54.3	49.2
lowest mean:	52.0	51.9	51.8	46.5	47.0
average mean:	54.7	56.6	57.7	52.0	48.2
Daily diurnal fluctuation (F.)					
highest diurnal fluctuation:	7.6	8.1	5.9	5.6	4.5
lowest diurnal fluctuation:	2.8	3.3	1.4	2.5	1.4
average diurnal fluctuation:	5.6	5.7	4.2	4.4	3.3
7-day avg. maximums (F.)					
highest 7-day avg. maximum:	57.6	61.4	61.6	55.8	50.2
lowest 7-day avg. maximum:	56.8	56.3	56.2	49.9	50.0
mean 7-day avg. maximum:	57.3	59.5	59.7	54.3	50.1
7-day avg. minimums (F.)					
highest 7-day avg. minimum:	52.5	55.5	57.1	51.8	46.6
lowest 7-day avg. minimum:	51.2	50.8	52.1	45.5	45.5
mean 7-day avg. minimum:	51.8	53.7	55.5	50.0	46.1
7-day average means (F.)					
highest 7-day avg. mean:	54.9	58.4	59.2	53.7	48.4
lowest 7-day avg. mean:	54.1	53.5	54.2	47.7	47.8
mean 7-day avg. mean:	54.5	56.6	57.6	52.1	48.1
7-day average diurnal fluctuation (F.)					
highest 7-day avg. fluctuation:	6.0	6.8	5.6	4.9	4.5
lowest 7-day avg. fluctuation:	4.9	5.1	3.2	3.4	3.5
mean 7-day avg. fluctuation:	5.5	5.8	4.3	4.3	4.0



Statistics for the period of the 7-day Maximum

The warmest 7-day period of stream temperature daily maximums centered on: 08/25

7-day average daily maximum (F.): 61.6

Daily Statistics for this period:

	08/22	08/23	08/24	08/25	08/26	08/27	08/28
maximum (F.):	60.9	61.8	61.5	61.8	62.4	60.7	62.1
minimum (F.):	55.0	57.3	56.4	56.7	56.7	57.5	57.5
mean (F.):	57.9	59.3	59.0	59.2	59.4	59.4	59.6
diurnal fluctuation (F.)	5.9	4.6	5.1	5.1	5.7	3.1	4.6

Grave Creek #3, above Last Chance Creek

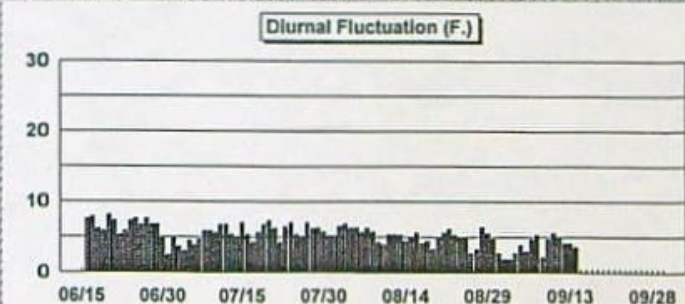
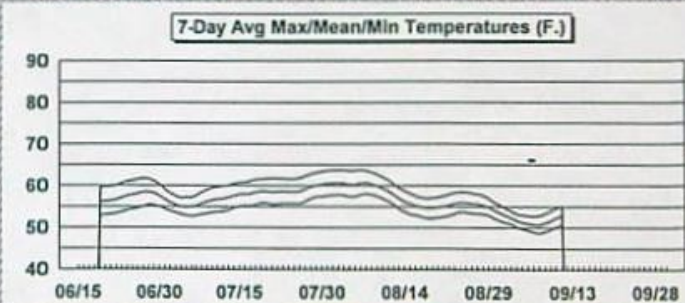
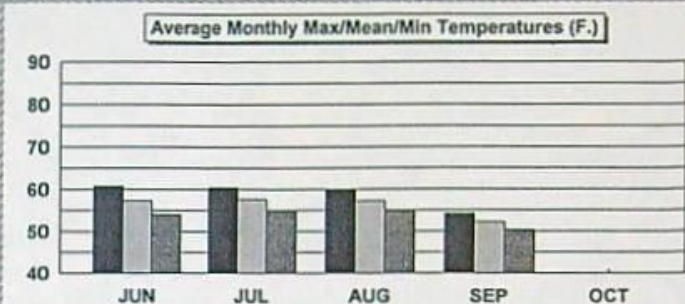
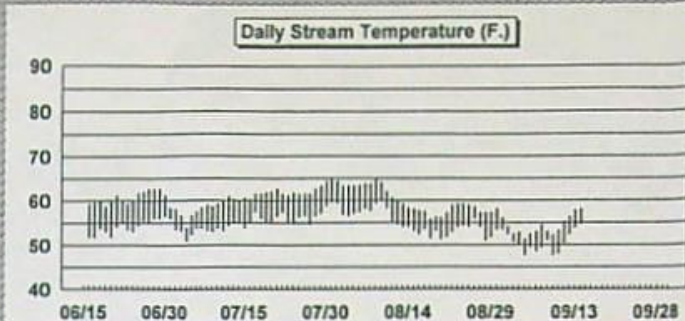
2000

BLM Medford District

Stream Temperature Data for Site Code: GRV3
Hydrologic Unit Code (HUC): 17 10 03 10 03 01 03

PROVISIONAL DATA SUBJECT TO REVISION

Monthly Statistics	JUN	JUL	AUG	SEP	OCT
Days of complete data:	15	31	31	14	-
Daily Maximums (F.)					
highest maximum:	62.7	64.7	65.0	58.2	-
lowest maximum:	58.7	54.0	55.9	51.5	-
average maximum:	60.8	60.4	59.9	54.2	-
days with maximums <60:	6	12	20	14	-
days with maximums 60-65:	9	19	10	-	-
days with maximums 65-70:	-	-	1	-	-
days with maximums >70:	-	-	-	-	-
7-day avg. maximums > 64.0: (ODEQ water quality standard)	-	-	-	-	-
Daily minimums (F.)					
highest minimum:	56.5	59.6	59.9	54.5	-
lowest minimum:	51.7	50.9	50.9	47.6	-
average minimum:	54.0	55.0	54.8	50.4	-
Daily Means (F.)					
highest mean:	59.4	62.0	61.7	56.3	-
lowest mean:	55.5	52.6	53.8	49.7	-
average mean:	57.3	57.6	57.3	52.2	-
Daily diurnal fluctuation (F.)					
highest diurnal fluctuation:	8.1	7.3	6.8	5.6	-
lowest diurnal fluctuation:	4.8	2.5	2.8	1.9	-
average diurnal fluctuation:	6.8	5.5	5.1	3.8	-
7-day avg. maximums (F.)					
highest 7-day avg. maximum:	61.9	63.7	63.9	55.2	-
lowest 7-day avg. maximum:	59.8	57.2	55.5	52.9	-
mean 7-day avg. maximum:	60.8	60.5	59.8	53.8	-
7-day avg. minimums (F.)					
highest 7-day avg. minimum:	55.6	57.8	58.2	51.3	-
lowest 7-day avg. minimum:	52.9	52.8	51.8	48.7	-
mean 7-day avg. minimum:	54.3	55.0	54.8	50.0	-
7-day average means (F.)					
highest 7-day avg. mean:	58.6	60.6	60.8	53.1	-
lowest 7-day avg. mean:	56.2	55.0	53.6	50.8	-
mean 7-day avg. mean:	57.5	57.7	57.2	51.8	-
7-day average diurnal fluctuation (F.)					
highest 7-day avg. fluctuation:	7.0	6.2	6.2	4.5	-
lowest 7-day avg. fluctuation:	5.3	3.9	3.7	3.0	-
mean 7-day avg. fluctuation:	6.5	5.5	5.0	3.8	-



Statistics for the period of the 7-day Maximum

The warmest 7-day period of stream temperature daily maximums centered on: 08/02

7-day average daily maximum (F.): 63.9

Daily Statistics for this period:

	07/30	07/31	08/01	08/02	08/03	08/04	08/05
maximum (F.):	64.4	64.7	64.4	63.3	63.3	63.3	63.6
minimum (F.):	58.7	59.6	59.3	56.8	56.5	57.0	57.3
mean (F.):	61.4	62.0	61.6	59.9	59.7	60.0	60.4
diurnal fluctuation (F.):	5.7	5.1	5.1	6.5	6.8	6.2	6.2

Grave Creek #4, @ Road 33-4-11

1998

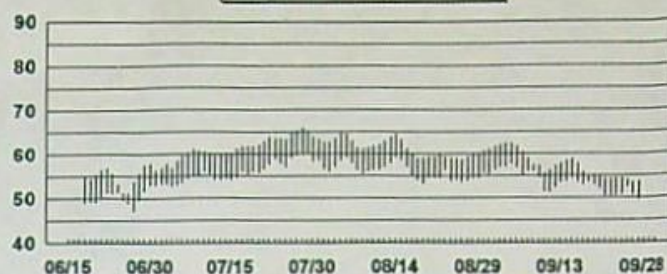
BLM Medford District

Stream Temperature Data for Site Code: GRV4
Hydrologic Unit Code (HUC): 17 10 03 10 03 01 03

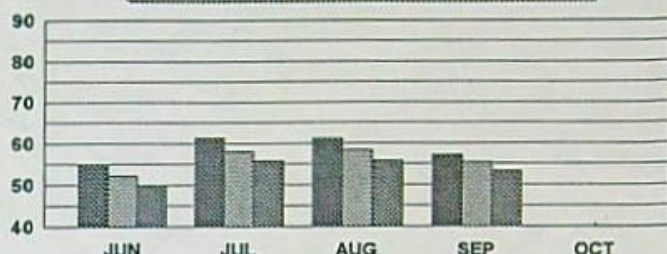
PROVISIONAL DATA SUBJECT TO REVISION

Monthly Statistics	JUN	JUL	AUG	SEP	OCT
Days of complete data:	13	31	31	27	-
Daily Maximums (F.)					
highest maximum:	57.9	65.9	64.7	62.4	-
lowest maximum:	51.2	56.2	58.7	53.4	-
average maximum:	54.9	61.4	61.3	57.3	-
days with maximums <60:	13	8	9	21	-
days with maximums 60-65:	-	19	22	6	-
days with maximums 65-70:	-	4	-	-	-
days with maximums >70:	-	-	-	-	-
7-day avg. maximums > 64.0: (ODEQ water quality standard)	-	6	-	-	-
Daily minimums (F.)					
highest minimum:	52.8	59.8	59.0	57.6	-
lowest minimum:	47.0	52.6	53.1	49.5	-
average minimum:	50.0	55.8	55.8	53.3	-
Daily Means (F.)					
highest mean:	54.8	62.5	61.5	59.9	-
lowest mean:	49.7	54.2	56.2	51.6	-
average mean:	52.3	58.2	58.4	55.3	-
Daily diurnal fluctuation (F.)					
highest diurnal fluctuation:	6.7	6.8	6.8	5.7	-
lowest diurnal fluctuation:	1.7	3.3	3.1	1.7	-
average diurnal fluctuation:	4.9	5.6	5.4	3.9	-
7-day avg. maximums (F.)					
highest 7-day avg. maximum:	56.5	64.6	63.7	61.8	-
lowest 7-day avg. maximum:	53.9	56.9	59.2	54.1	-
mean 7-day avg. maximum:	54.7	61.4	61.3	57.7	-
7-day avg. minimums (F.)					
highest 7-day avg. minimum:	51.4	58.8	57.7	56.5	-
lowest 7-day avg. minimum:	49.7	52.2	54.2	50.6	-
mean 7-day avg. minimum:	50.2	55.7	55.9	53.6	-
7-day average means (F.)					
highest 7-day avg. mean:	53.6	61.3	60.4	59.0	-
lowest 7-day avg. mean:	51.7	54.2	56.7	52.4	-
mean 7-day avg. mean:	52.3	58.1	58.5	55.7	-
7-day average diurnal fluctuation (F.)					
highest 7-day avg. fluctuation:	5.1	6.3	6.0	5.3	-
lowest 7-day avg. fluctuation:	4.1	4.7	4.8	3.2	-
mean 7-day avg. fluctuation:	4.5	5.7	5.4	4.0	-

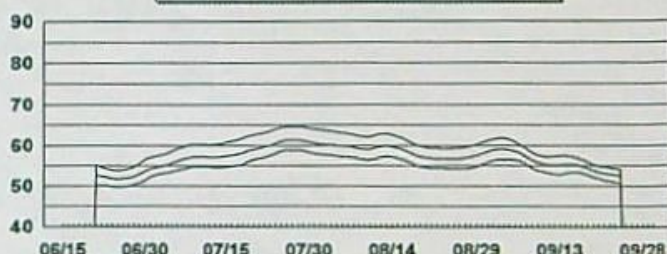
Daily Stream Temperature (F.)



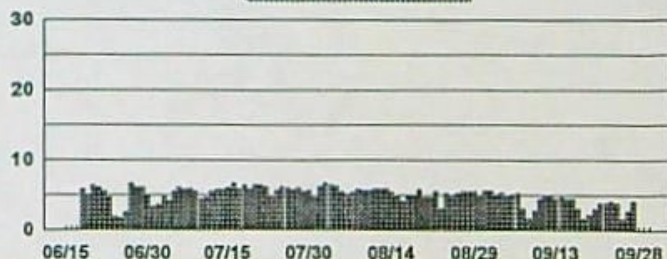
Average Monthly Max/Mean/Min Temperatures (F.)



7-Day Avg Max/Mean/Min Temperatures (F.)



Diurnal Fluctuation (F.)



Statistics for the period of the 7-day Maximum

The warmest 7-day period of stream temperature daily maximums centered on: 07/27

7-day average daily maximum (F.): 64.6

Daily Statistics for this period:

	07/24	07/25	07/26	07/27	07/28	07/29	07/30
maximum (F.):	63.6	63.3	65.0	65.3	65.9	65.3	63.9
minimum (F.):	57.9	57.0	59.0	59.6	59.8	59.8	58.1
mean (F.):	60.2	59.7	61.6	62.1	62.5	62.2	60.6
diurnal fluctuation (F.)	5.7	6.3	6.0	5.8	6.0	5.5	5.7

Grave Creek #4, Road 33-4-11

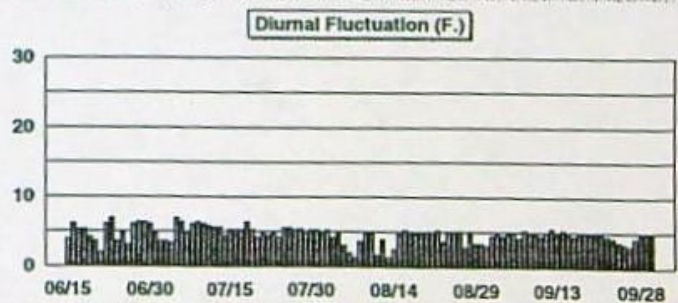
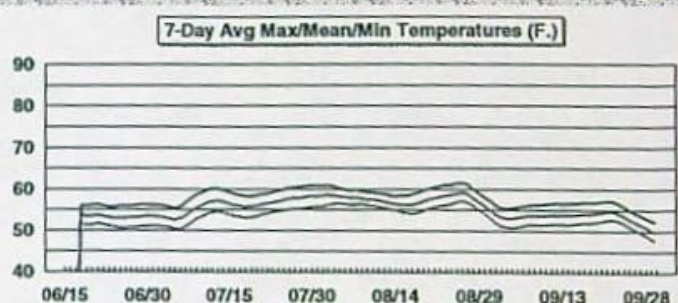
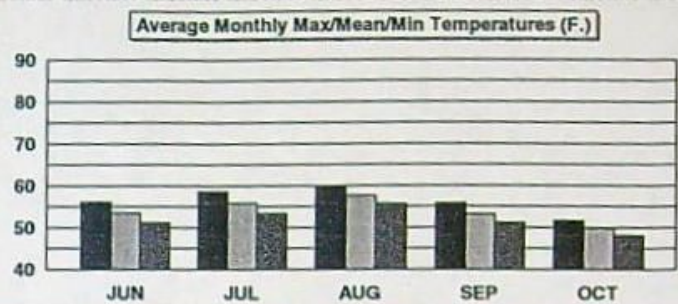
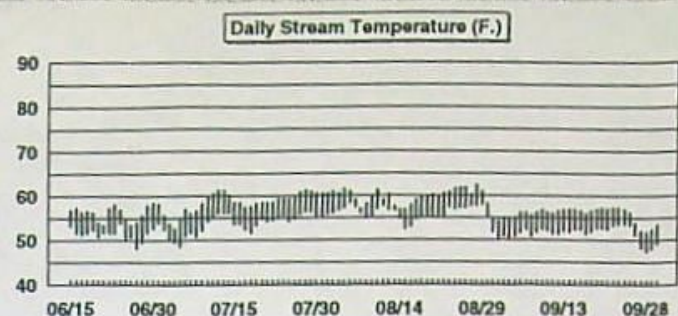
1999

BLM Medford District

Stream Temperature Data for Site Code: GRV4
Hydrologic Unit Code (HUC): 17 10 03 10 03 01 03

PROVISIONAL DATA SUBJECT TO REVISION

Monthly Statistics	JUN	JUL	AUG	SEP	OCT
<i>Days of complete data:</i>	16	31	31	30	6
Daily Maximums (F.)					
highest maximum:	58.6	61.4	62.6	57.4	52.4
lowest maximum:	53.5	52.7	54.7	51.9	50.8
average maximum:	56.2	58.6	59.8	55.8	51.7
days with maximums <60:	16	22	15	30	6
days with maximums 60-65:	-	9	16	-	-
days with maximums 65-70:	-	-	-	-	-
days with maximums >70:	-	-	-	-	-
7-day avg. maximums > 64.0: (ODEQ water quality standard)	-	-	-	-	-
Daily minimums (F.)					
highest minimum:	53.5	56.0	58.0	53.3	49.6
lowest minimum:	48.0	48.2	51.6	47.1	46.9
average minimum:	51.2	53.4	55.7	51.2	48.1
Daily Means (F.)					
highest mean:	55.4	58.6	59.6	55.1	50.4
lowest mean:	50.9	50.9	53.2	49.3	49.2
average mean:	53.5	55.9	57.6	53.3	49.9
Daily diurnal fluctuation (F.)					
highest diurnal fluctuation:	7.0	7.0	5.3	5.6	4.7
lowest diurnal fluctuation:	2.0	3.3	1.4	3.1	1.7
average diurnal fluctuation:	5.0	5.2	4.0	4.6	3.6
7-day avg. maximums (F.)					
highest 7-day avg. maximum:	56.3	60.9	61.5	57.2	52.3
lowest 7-day avg. maximum:	55.6	55.3	57.3	52.3	52.0
mean 7-day avg. maximum:	56.0	58.6	59.7	55.8	52.2
7-day avg. minimums (F.)					
highest 7-day avg. minimum:	51.7	55.7	57.2	52.8	48.2
lowest 7-day avg. minimum:	50.6	50.3	53.2	47.7	47.7
mean 7-day avg. minimum:	51.1	53.4	55.6	51.2	48.0
7-day average means (F.)					
highest 7-day avg. mean:	53.7	58.3	59.1	54.7	50.0
lowest 7-day avg. mean:	53.0	52.6	55.1	49.9	49.8
mean 7-day avg. mean:	53.3	55.9	57.5	53.3	49.9
7-day average diurnal fluctuation (F.)					
highest 7-day avg. fluctuation:	5.4	6.1	5.0	5.0	4.6
lowest 7-day avg. fluctuation:	4.3	4.7	3.1	3.9	3.7
mean 7-day avg. fluctuation:	4.9	5.3	4.1	4.6	4.2



Statistics for the period of the 7-day Maximum

The warmest 7-day period of stream temperature daily maximums centered on: 08/26

7-day average daily maximum (F.): 61.5

Daily Statistics for this period:

	08/23	08/24	08/25	08/26	08/27	08/28	08/29
maximum (F.):	60.8	61.7	62.0	62.0	60.3	62.6	61.1
minimum (F.):	57.2	56.6	56.9	56.9	57.4	57.4	57.7
mean (F.):	58.7	58.9	59.1	59.3	59.1	59.6	59.0
diurnal fluctuation (F.):	3.7	5.1	5.1	5.1	2.8	5.1	3.4

Grave Creek #4, @ Road 33-4-11

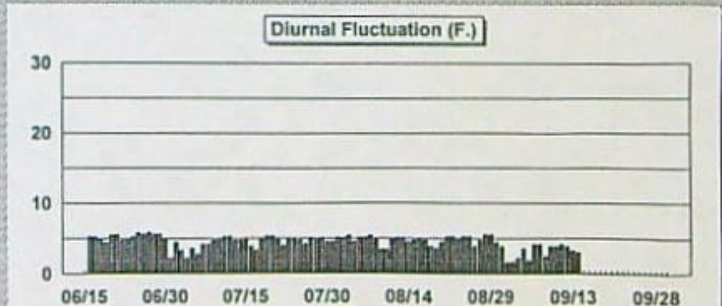
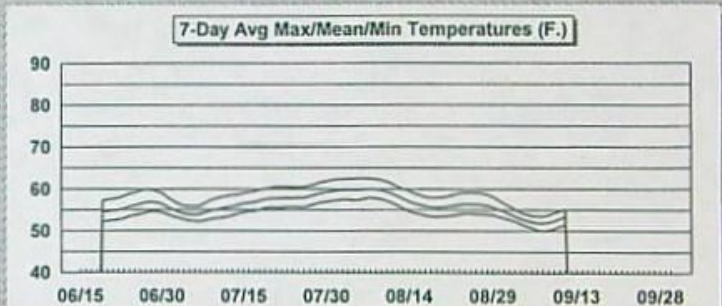
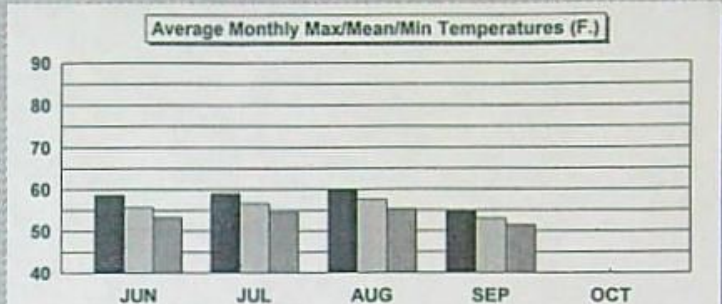
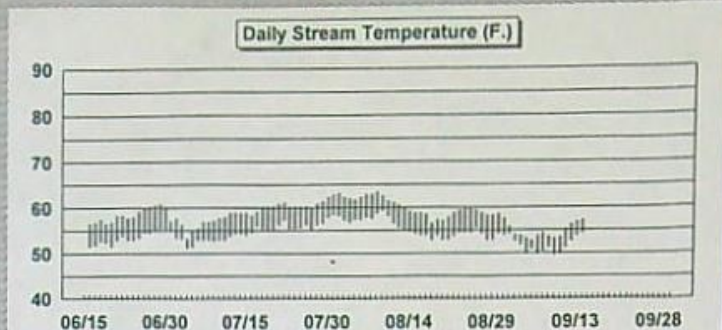
2000

BLM Medford District

Stream Temperature Data for Site Code: GRV4
Hydrologic Unit Code (HUC): 17 10 03 10 03 01 03
N Latitude: 042.42.54 N TRS: 33S-04W-11 NW SW
W Longitude 123.08.54 W Elev: 3007' feet MSL

PROVISIONAL DATA SUBJECT TO REVISION

Monthly Statistics	JUN	JUL	AUG	SEP	OCT
Days of complete data:	15	31	31	14	-
Daily Maximums (F.)					
highest maximum:	60.9	62.9	63.5	57.3	-
lowest maximum:	56.7	53.3	56.7	52.8	-
average maximum:	58.6	59.0	60.1	54.6	-
days with maximums <60:	10	17	18	14	-
days with maximums 60-65:	5	14	13	-	-
days with maximums 65-70:	-	-	-	-	-
days with maximums >70:	-	-	-	-	-
7-day avg. maximums > 64.0: (ODEQ water quality standard)	-	-	-	-	-
Daily minimums (F.)					
highest minimum:	55.3	58.4	59.2	54.2	-
lowest minimum:	51.4	51.1	52.8	49.4	-
average minimum:	53.3	54.6	55.3	51.5	-
Daily Means (F.)					
highest mean:	57.8	60.5	60.8	55.8	-
lowest mean:	53.9	52.2	55.1	51.5	-
average mean:	55.7	56.6	57.5	53.0	-
Daily diurnal fluctuation (F.)					
highest diurnal fluctuation:	5.9	5.3	5.6	4.2	-
lowest diurnal fluctuation:	4.5	2.2	3.4	1.7	-
average diurnal fluctuation:	5.3	4.4	4.8	3.2	-
7-day avg. maximums (F.)					
highest 7-day avg. maximum:	60.0	62.2	62.6	56.0	-
lowest 7-day avg. maximum:	57.4	55.9	56.7	53.6	-
mean 7-day avg. maximum:	58.8	59.1	60.0	54.5	-
7-day avg. minimums (F.)					
highest 7-day avg. minimum:	54.7	57.3	58.0	52.7	-
lowest 7-day avg. minimum:	52.2	52.3	53.2	50.1	-
mean 7-day avg. minimum:	53.5	54.6	55.3	51.2	-
7-day average means (F.)					
highest 7-day avg. mean:	57.0	59.6	60.1	54.2	-
lowest 7-day avg. mean:	54.6	53.9	54.8	51.9	-
mean 7-day avg. mean:	55.9	56.6	57.5	52.8	-
7-day average diurnal fluctuation (F.)					
highest 7-day avg. fluctuation:	5.6	5.0	5.1	3.8	-
lowest 7-day avg. fluctuation:	4.6	3.3	3.6	2.8	-
mean 7-day avg. fluctuation:	5.2	4.5	4.7	3.3	-



Statistics for the period of the 7-day Maximum

The warmest 7-day period of stream temperature daily maximums centered on: 08/06

7-day average daily maximum (F.): 62.6

Daily Statistics for this period:

	08/03	08/04	08/05	08/06	08/07	08/08	08/09
maximum (F.):	62.1	61.8	62.4	62.9	62.9	63.5	62.7
minimum (F.):	56.7	57.3	57.3	57.8	57.5	58.7	59.2
mean (F.):	59.3	59.4	59.7	60.2	60.0	60.8	60.7
diurnal fluctuation (F.):	5.4	4.6	5.1	5.1	5.4	4.9	3.4



Oregon

John A. Kitzhaber, M.D., Governor

Water Resources Department

Commerce Building
158 12th Street NE
Salem, OR 97301-4172
(503) 378-3739
FAX (503) 378-8130
www.wrd.state.or.us

December 17, 2001

LICENSE: HE 463

INVOICE

For Notice of Intent Fee for License is due by **March 18, 2002** for projects generating less than 100 theoretical horsepower.

Notice of Intent Fee:

\$25.00

Your canceled check will be your receipt. If you require a receipt, please indicate so when sending in your annual fee payment.

PLEASE REMIT TO:		CONTACT FOR QUESTIONS:
STATE OF OREGON WATER RESOURCES DEPARTMENT ATTN: FISCAL SECTION 158 12TH STREET NE SALEM OR 97301-4172		KRISTIN RICHERT (503) 378-8455 EXT. 306 or CRAIG KOHANEK (503) 378-8455 EXT. 240 or JANET WEATHERS (503) 378-8455 EXT. 233 PREPARED BY: J.W.

PLEASE RETURN ONE COPY OF INVOICE WITH PAYMENT

NOI 2002
ENCL/INVOICE2

cc: WRD Fiscal Section
WRD Reception

RECEIVED
DEC 26 2001
WATER RESOURCES DEPT.
SALEM, OREGON

**STATE OF OREGON
WATER RESOURCES DEPARTMENT**

RECEIPT # **50180**

158 12TH ST. N.E.
SALEM, OR 97310-0210
378-8455 / 378-8130 (FAX)

INVOICE # _____

RECEIVED FROM: James Hamilton

B _____

APPLICATION	
PERMIT	
TRANSFER	

CASH: ☐ CHECK: # 96-242 OTHER: (IDENTIFY) _____

TOTAL REC'D \$ 25.00

0417 WRD MISC CASH ACCT

ADJUDICATIONS

\$

PUBLICATIONS / MAPS

\$

OTHER: (IDENTIFY) _____

\$

OTHER: (IDENTIFY) _____

\$

REDUCTION OF EXPENSE

CASH ACCT.

\$

PCA AND OBJECT CLASS

VOUCHER #

0427 WRD OPERATING ACCT

MISCELLANEOUS

\$

0407 COPY & TAPE FEES

\$

0410 RESEARCH FEES

\$

0408 MISC REVENUE: (IDENTIFY) _____

\$

(New) TC162 DEPOSIT LIAB. (IDENTIFY) _____

\$

WATER RIGHTS:

EXAM FEE

RECORD FEE

0201 SURFACE WATER

\$

0202

\$

0203 GROUND WATER

\$

0204

\$

0205 TRANSFER

\$

0206

\$

WELL CONSTRUCTION

EXAM FEE

LICENSE FEE

0218 WELL DRILL CONSTRUCTOR

\$

0219

\$

LANDOWNER'S PERMIT

0220

\$

OTHER (IDENTIFY) _____

0437 WELL CONST. START FEE

0211 WELL CONST START FEE

\$

CARD #

0210 MONITORING WELLS

\$

CARD #

OTHER (IDENTIFY) _____

0539 LOTTERY PROCEEDS

1302 LOTTERY PROCEEDS

\$

0467 HYDRO ACTIVITY

LIC NUMBER

0233 POWER LICENSE FEE (FW/WRD)

\$

0231 HYDRO LICENSE FEE (FW/WRD)

\$

238 HYDRO APPLICATION

Notice of Intent \$ 25.00

RECEIPT # **50180**

DATED: 12/26/01 BY: C. Vance

Distribution-White Copy-Customer, Yellow Copy-Fiscal, Blue Copy-File, Buff Copy-Fiscal

A NOTE IN MY BEHALF

MY PROJECT WAS DESIGNED BY FISH + WILDLIFE 17 YRS AGO. THEY LIKED THE IDEA CAUSE IT WOULD CREATE A GOOD GRAVEL BED FOR SPAWNING STEAL HEAD.

THEY WERE RIGHT CAUSE IN LATE APRIL AND EARLY MAY THERE ARE 6 TO 8 BEDS BEHIND DAM EVERY YEAR.

WE LIVE 9 MILES PAST THE POWER LINE. THIS IS OUR ONLY SOURCE OF POWER.

WE WERE TOLD THAT OUR LICENSE WOULD AUTOMATICALLY BE RE-NEWED IF NO ~~IS~~ VIOLATIONS WERE ISSUED IN NEXT 20 YRS. *Jim Hamilton*

RETURN TO: Oregon Water Resources Department158 12TH STREET NE
SALEM, OREGON 97301-4172**NOTICE OF INTENT TO FILE A HYDROELECTRIC WATER RIGHT APPLICATION***Please type or print in dark ink. Please provide all of the information requested. Thank you.*JAMES W HAMILTON

- A. Individuals (If more than one person is applying, please attach a sheet providing the information below for each person applying):

Name: HAMILTON JAMES W
Last First MIMailing Address: P.O. Box 1283
ROGUE RIVER OR. 97537
City State Zip WORK
WIFE-JANPhone: 664-5148 779-6503
Home Work Other

FAX: _____ E-Mail Address: _____

- B. Organizations (Corporations, associations, firms, partnerships, joint stock companies, cooperatives):

Name of Organization: _____

Name and title of person applying: _____

Mailing address of organization: _____

City State Zip

Phone: _____ FAX: _____ E-Mail Address: _____

RECEIVED
DEC 26 2001
WATER RESOURCES DEPT.
SALEM, OREGON

Statement of Intent

A. Please indicate below whether you intend to seek state reauthorization of this project:

Yes ☒

No ☐

B. If yes, describe any modifications you intend to make to the project if your project is reauthorized:

C. If no, please submit a decommissioning plan that describes in detail how you intend to dispose of the project (Oregon law requires that you submit a decommissioning plan to the department within 90 days from the date you received notice of license expiration).

Project Description

A. Location of project works:

Township 33 S Range 4 W Quarter-Quarter Section 28 NW
Nearest City _____

B. Sources of Water: Provide the commonly used name of the water body from which water is now diverted or used, and the name of the stream or lake into which it flows.

Source: GRAVE CK. Tributary to: ROGUE RIVER

C. Project specifications:

1. Describe the diversion structure. Provide the measurements, including the length, type, and height: CONCRETE DAM 62 FT. LONG
0 TO 3 FT. IN HEIGHT. 2 FT.
HIGH IN CENTER DURING FISH RUN.
3 FT. HIGH IN SUMMER MTS.

2. Describe the length, type and size of the water conduit to the powerhouse: 1100 FT OF 8" PVC

3. Describe the type of turbine(s) and generating unit(s). Give the size and generation capacity:
a. Size 12" WHEEL 9 1/4" WIDE Capacity 3.25 HP.
b. Size _____ Capacity _____
c. Size _____ Capacity _____

4. Describe the water use: (#) SEE NOTE BELOW -
 Maximum quantity of water diverted or used in cubic feet per second (cfs) 10 Gross head in feet 260
 Distance from the powerhouse to the water discharge point on the stream 260

D. Other:

1. Is your project licensed by the Federal Energy Regulatory Commission (FERC)?
☐ Yes License Number _____ Expiration Date _____
☒ No

2. Do you intend to apply for a FERC license?
☐ Yes ☒ No

Resource Information

A. Please identify any Indian tribes that are affected by the location and operation of your project:
NONE

B. Please list local government entities that are affected by your project or have regulatory jurisdiction over the operation and/or siting of your project. Include the names and addresses of all land use planning organizations having jurisdiction.
I KNOW OF NONE

By my signature below I confirm that I intend:

- ☒ To seek reauthorization of project HE # 463
☐ Not to seek reauthorization

James Hamilton
 Signature of Project Owner/Agent

12-24-01
 Date

Signature of Co-owner/Agent

Date

S:\groups\wr\hydro\forms\non-ferc reauth\form 1b notice of intent frm.wpd

RECEIVED

DEC 26 2001

WATER RESOURCES DEPT.
 SALEM, OREGON

(#) I HAVE NO WAY OF KNOWING FOR SURE - I PUT A RESTRICTOR IN TURBINE CAUSE WE DID NOT NEED ALL THE POWER. IT PUTS OUT 6 AMPS AT 24 VOLTS.

A NOTE IN MY BEHALF

MY PROJECT WAS DESIGNED BY FISH + WILDLIFE 17 YRS AGO. THEY LIKED THE IDEA CAUSE IT WOULD CREATE A GOOD GRAVEL BED FOR SPAWING STEALHEAD.

THEY WERE RIGHT CAUSE IN LATE APRIL AND EARLY MAY THERE ARE 6 TO 8 BEDS BEHIND DAM EVERY YEAR.

WE LIVE 9 MILES PAST THE POWER LINE. THIS IS OUR ONLY SOURCE OF POWER.

WE WERE TOLD THAT OUR LICENSE WOULD AUTOMATICALLY BE RE-NEWED IF NO ~~NO~~ VIOLATIONS WERE ISSUED IN NEXT 20 YRS. Jim Hamilton

ORIGINAL LICENSE

HE463

WATER RESOURCES DEPARTMENT

LICENSE FOR HYDROELECTRIC
PROJECT HE 463



RECEIVED

MAR 1 1984

WATER RESOURCES DEPT.
SALEM, OREGON

William H. Young
DIRECTOR
SALEM, OREGON

STATE OF OREGON
WATER RESOURCES DEPARTMENT
LICENSE FOR HYDROELECTRIC PROJECT 463

WHEREAS, by act of the Legislature of the State of Oregon, ORS 543.010 to 543.620 and 543.990, as amended, hereinafter called the Hydroelectric Act, the Water Resources Director is authorized to issue licenses to acquire and hold the right to the use of the waters within the state, and for the construction, operation and maintenance of facilities for the generation and utilization of hydroelectric energy; and

WHEREAS, James W. Hamilton, a citizen of the United States, hereinafter called the licensee, whose address is PO Box 276, Wolf Creek, OR 97497, made application to the Director for a license for a minor hydroelectric project designated as Project HE 463 in the records of the Director; and

WHEREAS, the Director finds that the proposed project is well adapted to the development and utilization of the water power involved, that no application for this project or in conflict with this project has been filed by any municipality or utility district, and that the licensee has paid to the Water Resources Department all fees required prior to the issuance of this license; and

WHEREAS, the licensee on the 29 day of FEBRUARY, 1984, accepted in writing the terms and conditions of the Hydroelectric Act and of this license;

NOW, THEREFORE, the Director hereby issues this license to the licensee to acquire and hold the right to the use of the waters of Grave Creek Tributary to the Rogue River, and to construct, operate and maintain the project facilities hereinafter described for the generation and utilization of hydroelectric energy, subject to the following express conditions:

Article 1.

Water will be diverted by a gravity concrete dam three feet in height, and conveyed by pipeline to the plant site. Generation facilities will consist of a 12 inch diameter cross flow turbine driving a 32 volt 80 amp DC alternator. After passing through the generating facility, the water utilized will be returned to Grave Creek. The project facilities are more particularly described and shown on the map filed to accompany the application and designated as Exhibit A. Said exhibit is hereby approved by the Director and made a part of this license. The project facilities will be constructed in substantial conformance with this license. No substantial change shall be made unless approved by the Director and incorporated into this license by appropriate amendment.

Article 2.

This license is issued for the period which is effective as of the date of issuance and will terminate December 31, 2004. This license grants the right to appropriate not to exceed 1.75 cubic feet per second, measured at the point of diversion from said stream, to develop 3.6 theoretical horsepower utilizing a gross head of 18 feet, provided that the right to the use of water will be further limited to the amount which the generation facilities will utilize efficiently. The priority of the right hereby granted is April 13, 1983. On termination of this license, such right to the use of water shall revert to the public. The right granted herein is expressly made inferior in right and subsequent in time to any appropriation of water from this source which may hereafter be made for domestic, municipal, irrigation, or any other beneficial consumptive use.

Article 3.

The licensee shall begin construction of the project facilities within one year of the date of issuance of this license; shall complete construction of the project facilities within three years of the date of issuance of this license; and thereafter shall maintain the project facilities in good working order. If the licensee fails to begin or complete construction of the project facilities within the time limits fixed in this license or any lawful extension thereof; or if, after completing construction, fails to use or operate the project facilities for any period of five consecutive years, the Director shall, after due notice, terminate this license by written order. If at any time after two years nonuse of water for this project, there shall be any conflicting application for or claim to the use of this water, then the licensee may be required by the Director to show cause why the conflicting application should not be granted and this license terminated.

Article 4.

The licensee shall pay to the Water Resources Department in accordance with the provisions of ORS 543.300(5), on or before the first day of January of each year after issuance of this license, and during the period of this license, an annual fee of \$3.75.

Article 5.

The licensee shall maintain an account of the actual cost of the construction of the project facilities and any additions thereto, and shall, under oath, provide such accounting to the Director upon his request.

Article 6.

The licensee shall allow the Director and his authorized agents and employees free and unrestricted access in, through, and across the project in the performance of their official duties, and shall allow free access to all reports, accounts, records and other data relating to said project.

Article 7.

The licensee shall be liable for all damages occasioned to the persons or property of others by the construction, operation or maintenance of the project facilities, and in no event will the State of Oregon be liable therefore.

Article 8.

This project being a complete project of less than 100 theoretical horsepower capacity, the following provisions of the Hydroelectric Act, and none other, in accordance with the provisions of ORS 543.300(7), are specifically waived:

ORS-543.510
ORS 543.520

ORS 543.530

ORS 543.550
ORS 543.560

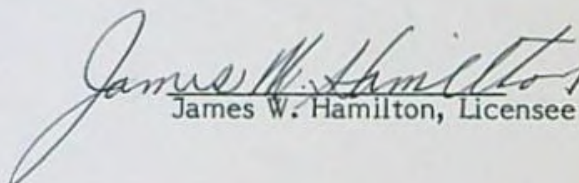
Article 9.

With the written consent of the licensee, the Director may alter, enlarge or omit any of the conditions of this license.

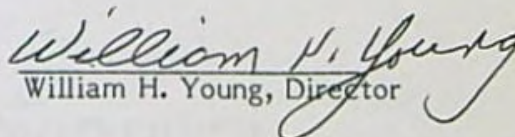
Article 10.

On October 12, 1983, the licensee and the Oregon Department of Fish and Wildlife entered into an agreement pertaining to fish screening facilities and fish passage water in the section of the stream between the point of diversion and the point of return. The agreement has been made of record in the Water Resources Department with other documents pertaining to the license. A copy of the agreement is attached for reference.

IN TESTIMONY OF ACCEPTANCE of all the terms and conditions of this license, ORS 543.010 to 543.620 and 543.990, and the rules and regulations of the Director pursuant thereto, the licensee has affixed his signature this 29 day of FEB, 1984


James W. Hamilton, Licensee

IN WITNESS WHEREOF, the Director of the Water Resources Department of Oregon has signed his name at Salem, Oregon this 5th day of March, 1984.


William H. Young, Director

0056/q
0853C

16-38-60

RECEIVED
APR 13 1983
WATER RESOURCES DEPT.
SALEM, OREGON

A = DIVERSION
B = GENERATOR
C = WATER RE-ENTRY

T. 33	R. 4 W.	SEC. 26
SCALE	FLY	1:4000
1" = 400'	50'	60'

RECEIVED

FEB 21 1984

WATER RESOURCES DEPT.
SALEM, OREGON

AGREEMENT

HE 463 Hydroelectric Project
James W. Hamilton, Developer

This agreement is entered into this 12th day Oct. 1983, between the State of Oregon, by and through its Department Of FISH AND WILDLIFE, hereinafter called the "DEPARTMENT" and

James W. Hamilton
P.O. Box 276, Wolf Creek, Or. 97497

herein called the "DEVELOPER"

RECITALS

WHEREAS the Department has the statutory responsibility and authority to protect and enhance anadromous and game fish in the waters of the State of Oregon; and

WHEREAS the Developer has proposed to divert the waters of Grave Creek, a tributary to Rogue River, Jackson County, Oregon, for purposes of hydroelectric generation, said project more particularly described in the Developer's Application for a Hydroelectric License which is attached hereto as Exhibit A and by this reference incorporated herein; and

WHEREAS the Department and Developer recognize the need to protect the fish life of Grave Creek including populations of winter steelhead, summer steelhead, and cutthroat trout against possible adverse effects of the project; and

WHEREAS, in accordance with ORS 183.415(5), the parties agree that it is in their mutual best interest to informally dispose of the issues which are the subject of this agreement rather than to suffer the time and expense involved in contesting the matter in an administrative proceeding;

NOW, THEREFORE, in light of the above and in consideration of the covenants contained herein, the parties hereto mutually agree as follows:

A. Obligations of the Developer

1. Prior to any operation of the project, the Developer shall furnish, install and maintain a screen over the diversion intake to prevent fish migration downstream through the project diversion. The screen shall be constructed,

installed and maintained according to Department specifications.

Prior to any operation of the project, the Developer shall furnish, install and maintain a fish ladder to allow fish migration over project facilities constructed in the natural channel of Grave Creek. The ladder shall be constructed, installed and maintained to Department specifications.

The Developer agrees to cease project operation when streamflows are below 2 cubic feet per second in the natural channel of Grave Creek from point of diversion to point of project discharge, in order to maintain upstream and downstream fish passage, reproduction, growth and maintenance of fish populations using the section of Grave Creek affected by the project. The specified flows shall be measured 100 feet below the project diversion in Grave Creek.

B. Obligation of the Department

1. The Department agrees to accept the Developer's performance of this agreement as providing adequate protection of the public's interest in the use of the waters of the affected section of Grave Creek for fish and wildlife purposes against possible adverse effects of the project; and therefore further agrees not to protest the issuance of a hydroelectric license for the project by the Oregon Water Resources Department.

C. This agreement shall remain in effect as long as the said project exists within the diversion from Grave Creek and it shall be binding upon and inure to the benefit of the parties and their respective heirs, administrators, executors, successors and assigns.

D. 1. Time is of the essence of this agreement. A default shall occur if the Developer fails to perform any obligation imposed by this agreement and does not correct or commence correction of such failure within 15 days of the date of written notice from the Department specifying the manner in which the Developer is in default.

2. In the event of default, the Department may take either or both of the following steps:

- (a) Specifically enforce the terms of this agreement by civil action.
- (b) Obtain an injunction against operation of the project until the Developer has corrected or commenced correction of the default.

IN WITNESS WHEREOF, the parties hereto have executed this instrument in duplicate through their duly authorized officials as of the first date written above.

DEVELOPER

James Smith

STATE OF OREGON

COUNTY of Jackson

The foregoing instrument was acknowledged before me this 14th day of October, 1983 by James Smith.

Lin L. Murrie

NOTARY PUBLIC for Oregon

My commission expires 10-24-86

STATE OF OREGON

DEPARTMENT OF FISH & WILDLIFE

By John R. Donnell

M. L. Montgomery

~~Assistant~~ Director, Administration

STATE OF OREGON

County of Multnomah

The foregoing instrument was acknowledged before me this 28th day of October, 1983 by John R. Hernaldson, the Assistant of the Oregon Department of Fish & Wildlife.

Judith A. Nelson

Notary Public for Oregon

My commission expires: 3-14-87

STATE OF OREGON
WATER RESOURCES DEPARTMENT
LICENSE FOR HYDROELECTRIC PROJECT 463

WHEREAS, by act of the Legislature of the State of Oregon, ORS 543.010 to 543.620 and 543.990, as amended, hereinafter called the Hydroelectric Act, the Water Resources Director is authorized to issue licenses to acquire and hold the right to the use of the waters within the state, and for the construction, operation and maintenance of facilities for the generation and utilization of hydroelectric energy; and

WHEREAS, James W. Hamilton, a citizen of the United States, hereinafter called the licensee, whose address is PO Box 276, Wolf Creek, OR 97497, made application to the Director for a license for a minor hydroelectric project designated as Project HE 463 in the records of the Director; and

WHEREAS, the Director finds that the proposed project is well adapted to the development and utilization of the water power involved, that no application for this project or in conflict with this project has been filed by any municipality or utility district, and that the licensee has paid to the Water Resources Department all fees required prior to the issuance of this license; and

WHEREAS, the licensee on the 29 day of FEBRUARY, 1984, accepted in writing the terms and conditions of the Hydroelectric Act and of this license;

NOW, THEREFORE, the Director hereby issues this license to the licensee to acquire and hold the right to the use of the waters of Grave Creek Tributary to the Rogue River, and to construct, operate and maintain the project facilities hereinafter described for the generation and utilization of hydroelectric energy, subject to the following express conditions:

Article 1.

Water will be diverted by a gravity concrete dam three feet in height, and conveyed by pipeline to the plant site. Generation facilities will consist of a 12 inch diameter cross flow turbine driving a 32 volt 80 amp DC alternator. After passing through the generating facility, the water utilized will be returned to Grave Creek. The project facilities are more particularly described and shown on the map filed to accompany the application and designated as Exhibit A. Said exhibit is hereby approved by the Director and made a part of this license. The project facilities will be constructed in substantial conformance with this license. No substantial change shall be made unless approved by the Director and incorporated into this license by appropriate amendment.

Article 2.

This license is issued for the period which is effective as of the date of issuance and will terminate December 31, 2004. This license grants the right to appropriate not to exceed 1.75 cubic feet per second, measured at the point of diversion from said stream, to develop 3.6 theoretical horsepower utilizing a gross head of 18 feet, provided that the right to the use of water will be further limited to the amount which the generation facilities will utilize efficiently. The priority of the right hereby granted is April 13, 1983. On termination of this license, such right to the use of water shall revert to the public. The right granted herein is expressly made inferior in right and subsequent in time to any appropriation of water from this source which may hereafter be made for domestic, municipal, irrigation, or any other beneficial consumptive use.

Article 3.

The licensee shall begin construction of the project facilities within one year of the date of issuance of this license; shall complete construction of the project facilities within three years of the date of issuance of this license; and thereafter shall maintain the project facilities in good working order. If the licensee fails to begin or complete construction of the project facilities within the time limits fixed in this license or any lawful extension thereof; or if, after completing construction, fails to use or operate the project facilities for any period of five consecutive years, the Director shall, after due notice, terminate this license by written order. If at any time after two years nonuse of water for this project, there shall be any conflicting application for or claim to the use of this water, then the licensee may be required by the Director to show cause why the conflicting application should not be granted and this license terminated.

Article 4.

The licensee shall pay to the Water Resources Department in accordance with the provisions of ORS 543.300(5), on or before the first day of January of each year after issuance of this license, and during the period of this license, an annual fee of \$3.75.

Article 5.

The licensee shall maintain an account of the actual cost of the construction of the project facilities and any additions thereto, and shall, under oath, provide such accounting to the Director upon his request.

Article 6.

The licensee shall allow the Director and his authorized agents and employees free and unrestricted access in, through, and across the project in the performance of their official duties, and shall allow free access to all reports, accounts, records and other data relating to said project.

Article 7.

The licensee shall be liable for all damages occasioned to the persons or property of others by the construction, operation or maintenance of the project facilities, and in no event will the State of Oregon be liable therefore.





Oregon

John A. Kitzhaber, M.D., Governor

RECEIVED

DEC - 3 1997

WATER RESOURCES DEPT.
SALEM, OREGON

Water Resources Department

Commerce Building

158 12th Street NE

Salem, OR 97310-0210

(503) 378-3739

FAX (503) 378-8130

Dear Project Owner:

To better provide you with service, we request your completion of the below questionnaire.
Please return with your annual fee payment.

If you are no longer the owner or operator of the project(s), please provide the new owner(s)
name and address.

HYDROELECTRIC OR POWER CLAIM NUMBER: HE463

OWNER: SAME

CONTACT PERSON: _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP CODE: _____

TELEPHONE NUMBER: 1-541-471-3747
(INCLUDE AREA CODE)

FAX NUMBER: _____

E-MAIL ADDRESS: _____

PLEASE CHANGE YOUR
RECORDS TO SHOW THAT
I LIVE IN ROGUE RIVER,
NOT GOLD HILL - THANKS -

ATTN: JERRY

DEC 30 1994

Oregon

WATER RESOURCES DEPT.
SALEM, OREGON

A YEAR AGO YOU SAID YOU
WERE GOING TO VISIT

December 8, 1994

MY SITE - HAVEN'T

SEEN YOU YET. IS THIS

VISIT STILL IN YOUR

PLANS - I WOULD LIKE TO

BE HERE - WORK 5

DAYS A WEEK - GIVE

INVOICE ME NOTICE IF YOU

PLAN TO COME -

JAMES W. HAMILTON

PO BOX 1283

ROGUE RIVER OR 97537

Annual fee for License HE 463 is due by January 1, 1995.

I LIVE 13.2 MILES UP

GRAVE CK. FROM COVERED BRIDGE AT

SUNNY VALLEY

TOTAL DUE: \$3.75

To help reduce state spending, we have instituted the following policy. Your cancelled check will be your receipt. If you require a receipt, please indicate so when sending in your annual fee payment.

PLEASE REMIT TO:	CONTACT FOR QUESTIONS:
STATE OF OREGON WATER RESOURCES DEPARTMENT ATTN: FISCAL SECTION 158 12TH STREET NE SALEM OR 97310	JERRY GAINEY PHONE (503) 378-8455 EXT. 330 PREPARED BY: J.G.

PLEASE RETURN ONE COPY OF INVOICE WITH PAYMENT

NO STEEL HEAD MADE IT UP
TO MY PLACE THIS YEAR
DUE TO MANY 3 + 4 FT.
HIGH BEAVER DAMS ON
GRAVE CK. WE USUALLY SEE 200 OR MORE



Commerce Building
158 12th Street NE
Salem, OR 97310-0210
(503) 378-3739
FAX (503) 378-8130

FISH

RECEIVED

NOV 23 1993

WATER RESOURCES DEPT.
SALEM, OREGON

1993

PLEASE PROVIDE THE FOLLOWING INFORMATION AND RETURN THIS WITH YOUR ANNUAL PAYMENT.

Hydroelectric Project No. HE 463

How many months were you able to operate your project this year 12?

If there were months that you did not operate, what was the reason (was it due to lack of water, equipment problems, no use for the power, etc.) _____

_____?

Please feel free to add any additional comments about the operation of your project. If you have questions about Oregon's Hydroelectric program, please contact:

Rick Craiger
Oregon Water Resources Department
3850 Portland Rd. NE
Salem, Oregon 97310
(503) 378-8455, ext. 266

Thank you.

HE 403

RECEIVED

DEC - 9 1992

HYDROELECTRIC OPERATOR SURVEY

WATER RESOURCES DEPT.
SALEM, OREGON

- 1) How many months did you operate your hydroelectric project the past year? 10
- 2) Has the past 6 year drought cycle affected the amount of power you were able to generate? YES
- 3) Have you made any physical alterations in the design or operation of the project since it was originally licensed? If so, are they the type of improvements that other projects could benefit from? NO
- 4) Are you currently using any device to measure the amount of water you divert or the amount of power you generate? If so, please describe the type of measuring device. I HAVE AN AMP METER ON ALTERNATOR.
I KNOW THE SPEED OF WATER TRAVEL IN PIPE - THIS X VOLUME = C.F.S.
- 5) What is the power used for?
- a) ☒ Domestic/Residential
b) ☐ Operation of Machinery
c) ☐ Commercial
d) ☐ Power for Sale
e) ☐ Other
- 6) Has the operation of your facility paid for the installation costs? I CAN'T TELL - WE LIVE PAST END OF POWER LINE - DID IT FOR NECESSITY - NOT MONEY

James Hamilton
Grave Creek / Rogue basin

- 7) Are there any unique features of your project that you would like to share? Attach additional sheets if necessary. I HAVE A VERY EFFICIENT MICHEL BANK 1 TURBIN MADE BY JEDLO SWEED MACHINE CO. OF GOLD HILL, OR. IT HAS BEEN PERFECT FOR 10 YRS. I WOULD SHOW IT TO ANYONE
- 8) How long has your project been in operation? 10 YRS
- 9) If your project is not in operation, when was the last time it was operated? _____
- 10) Are you experiencing any operational problems that you would like assistance with (sorry, we can't make it rain)? Please describe _____

BEAVERS

OUR HOME PH. # IS 770-9988
BUT IT IS NOT ALWAYS ON -
CALL ME AT WORK - 664-5544
OR MY WIFE JANET - 779-6503
MON - FRI.

WE LIVE 13.2 MILES
UP GRAVE CK. FROM COVERED
BRIDGE AT SUNNY VALLEY
ON I-5.

WATER RESOURCES DEPARTMENT

INTEROFFICE MEMO

To: File HE 463

Date: August 21, 1985

From: Don Buell *Don*

Subject: Field Inspection Report

I found Mrs. Hamilton at home this date. She gave me a tour of the project and supplied me with required information.

Water is diverted from Graves Creek by a concrete dam approximately 4 feet in height, 70 feet long and two feet thick. As a requirement of ODFW, the dam is equipped with a 2 feet wide, 8 inch deep notch for fish flow and a hole in the stream bed blasted out to give fish sufficient depth to jump at the right end of the dam.

A 10 inch PVC Penstock has a 2 inch by 1 inch trash screen and a 1/4 inch mesh fish screen. There is a 2 inch by-pass pipe for minnows.

Approximately 1000 feet of Penstock carries water thru 18 feet of fall to a 9 inch wide, 12 inch diameter Banki turbine special built by Sweed. A valve at the powerhouse controls water flow.

A 15 inch pulley on the turbine is connected by belt drive to a 4 inch pulley on a 32 volt, 80 amp DC alternator from a 'cat'.

Power is used to charge 8 Energy Center Model 2200 batteries connected in series-parallel to produce 24 volts.

A Best Power Inverter requires 21.5 to 29.5 volts input to supply 110 volts to the house. Maximum output is 2500 KW.

Tail water from powerhouse flows through approximately 150 feet of pipe to Grave Creek.

Assuming a 1 inch high nozzle opening to the turbine:

$$Q = 0.85 \times 0.0625 \sqrt{\frac{64.4 \times 18}{1 - 0.85^2 \left(\frac{0.0625}{.55} \right)^2}} = 1.82 \text{ cfs.}$$

Head loss at 1.82 cfs is 3.2 feet.

At 15.8 feet of head, $Q = 1.70$ cfs
License is for 1.75 cfs thru 18 feet
of head. Balance point for formula
should be very near to that. Should
be OK

RECEIVED

MAR 19 1984

WATER RESOURCES DEPT.
SALEM, OREGON

NOTICE OF COMPLETION OF CONSTRUCTION
UNDER HYDROELECTRIC LICENSE HE 463

I, JAMES W. HAMILTON hereby certify that completion of works
and use of water within the provisions of the License was accomplished
by 10-15, 1983.

3-17-84
Date

James W. Hamilton
Signature

(Mail to the Water Resources Department, Salem, Oregon 97310)



Water Resources Department

MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8507

March 9, 1984

Irv Jones
Department of Fish and Wildlife
506 Southwest Mill Street
Portland, OR 97201

Dear Irv:

Enclosed for your files is a copy of Hydroelectric License HE 462, issued to James W. Hamilton.

The license was signed by the Director on March 5, 1984.

Sincerely,

DONALD R. BUELL
Hydroelectric Licensing Engineer

DRB:wpc

enclosure
1866B/3
1148C



Water Resources Department
MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8507

March 9, 1984

James W. Hamilton
PO Box 276
Wolf Creek, OR 97497

Dear Mr. Hamilton:

REFERENCE: File HE 463

Enclosed is a signed copy of the license for your Hydroelectric Project HE 463.

Your project is now ready for field inspection. I presently have a backlog of field work, but will contact you for an appointment when I expect to be in your area.

At the end of the 20 years for which your license is issued, it can be renewed by issuance of another license upon receipt of an application accompanied by the required fees.

The Energy Extension Agent's name in your area is Rich Topielec in Medford. His address is 1301 Maple Grove Drive, Medford, OR 97501, phone 776-7371.

Sincerely,

DONALD R. BUELL
Hydroelectric Licensing Engineer

DRB:wpc
1866B/1
1148C

378-8507

March 8, 1984

Bob Steimer, Watermaster
District 14

Dear Bob:

Enclosed for your files is a copy of Hydroelectric License HE 463, issued to James W. Hamilton.

The license was signed by the Director on March 5, 1984.

Sincerely,

DONALD R. BUELL
Hydroelectric Licensing Engineer

DRB:wpc

enclosure
1866B/3
1148C



Water Resources Department
MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8507 or
1-800-452-7813

February 27, 1984

James W. Hamilton
PO Box 276
Wolf Creek, OR 97497

RECEIVED
MAR 1 1984
WATER RESOURCES DEPT.
SALEM, OREGON

Dear Mr. Hamilton:

REFERENCE file HE 463

Enclosed is an original and one copy of the license for your proposed power project. Please review the license and enter the date and your signature as licensee on the last page of both the original and the copy, and return both to me. I have enclosed an addressed envelope for your convenience in returning the signed documents. The original and copy will then be signed by the Director, and the signed copy returned to you.

*NOT WITH
THIS PACKET*

Sincerely,

Donald R. Buell
DONALD R. BUELL
Hydroelectric Licensing Engineer

DRB:wpc
0856C

*DEAR MR. BUELL;
THANK YOU FOR THE LICENSE.
I ONLY HAVE ONE THING THAT
BOTHERS ME - ARTICLE 2. I HAVE
SPENT \$10,000.00 ON THIS PROJECT
AND I DON'T THINK P.P. & L. WILL
EVER PUT A POWER LINE THIS FAR
UP. WHAT WILL HAPPEN IN THE
YEAR 2004 WHEN MY BOY'S ARE
LIVING HERE AND THE LICENSE (OVER)*

EXPIRES.??

IF IN THE FUTURE YOU HAVE
MEANS FOR EXTENSION, PLEASE
LET ME KNOW.

I WENT TO AN OREGON
STATE UNIVERSITY EXTENSION
SEMINAR LAST YEAR TO TRY AND FIND
OUT HOW TO BUILD A SMALL DAM AND
A FLUME. HE HAD NOTHING TO OFFER,
SO I DID IT THE HARD WAY. I BUILT
A 400 FT. FLUME AND THE DAM. TOOK
MANY PICTURES ON HOW TO DO.

WHAT I AM GETTING AT IS- I
FORGOT HIS NAME BUT WOULD
LIKE TO MAKE THESE PICTURES
AVAILABLE TO HIM - LOTS OF PEOPLE
WANT TO DO WHAT I DID, BUT CAN'T
FIND OUT HOW.

WE LIVE 13.2 MILES UP
PLACER RD. FROM COVERED BRIDGE
AT SUNNY VALLEY AND ARE ALWAYS
HOME ON SUNDAY. ONLY CHECK MAIL
ONCE A WEEK - SO IF HE DROPS ME A LINE
~~FIRST~~ - GIVE IT A WEEK - Jim Hamilton
FIRST -

378-8507 or
1-800-452-7813

February 27, 1984

James W. Hamilton
PO Box 276
Wolf Creek, OR 97497

Dear Mr. Hamilton:

REFERENCE file HE 463

Enclosed is an original and one copy of the license for your proposed power project. Please review the license and enter the date and your signature as licensee on the last page of both the original and the copy, and return both to me. I have enclosed an addressed envelope for your convenience in returning the signed documents. The original and copy will then be signed by the Director, and the signed copy returned to you.

Sincerely,

DONALD R. BUELL
Hydroelectric Licensing Engineer

DRB:wpc
0856C

378-8507
or
1-800-452-7813
(message line)

May 23, 1983

James W. Hamilton
PO Box 276
Wolf Creek, OR 97497

Dear Mr. Hamilton:

Your application for a hydroelectric license for a minor project proposing the use of 1.75 cubic feet per second from Graves Creek utilizing a head of 18 feet to develop 3.64 theoretical horsepower has been filed as HE 463. Also received was the fee of \$15 for which our Receipt 35883 is enclosed.

Before a license can be issued under your application, we must have the approval of the Oregon Department of Fish and Wildlife. You may wish to contact your local fish biologist to expedite this matter. His name is Mick Jennings and you can call him at 479-2276.

The degal description of the land on which the project will be located is required to accompany the application. The legal description may be copied from your deed, title insurance policy, or sales contract. If you do not own all of the project lands you must provide evidence that you have or can obtain access of those lands.

Upon receipt of the additional information, your application will be considered for issuance of a license.

Sincerely,

DONALD R. BUELL
Hydroelectric Licensing Engineer

DRB:wpc
6601B



Water Resources Department
MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8507

February 10, 1984

James W. Hamilton
PO Box 276
Wolf Creek, OR 97497

RECEIVED

FEB 16 1984

WATER RESOURCES DEPT
SALEM, OREGON

Dear Mr. Hamilton:

REFERENCE: File HE 463

I have been advised that you are working out the terms of the agreement with the Department of Fish and Wildlife required before a license can be issued for your Hydroelectric Project HE 463.

Please advise this office as to your progress.

Sincerely,

Donald R Buell
DONALD R. BUELL
Hydroelectric Licensing Engineer

DRB:wpc

0580C/4

DEAR SIR;

I RECEIVED A ~~NOT~~ NOTORIZED PERMIT FROM THE FISH & WILDLIFE DEPT. ON 10-14-83 STATING THAT EVERYTHING WAS IN COMPLIANCE AND I WAS UNDER THE OPINION THAT THEY WOULD SEND YOU A COPY AND I HAD NOTHING ELSE TO DO.

MY SYSTEM HAS BEEN ON LINE SINCE THEN AND EVERYTHING WORKS GREAT -

Jim Hamilton



Water Resources Department
MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8507

February 10, 1984

James W. Hamilton
PO Box 276
Wolf Creek, OR 97497

Dear Mr. Hamilton:

REFERENCE: File HE 463

I have been advised that you are working out the terms of the agreement with the Department of Fish and Wildlife required before a license can be issued for your Hydroelectric Project HE 463.

Please advise this office as to your progress.

Sincerely,

DONALD R. BUELL
Hydroelectric Licensing Engineer

DRB:wpc

0580C/4

REF. # HE 463

DEAR MR. BUELL

HERE IS THE LEGAL
DESCRIPTION OF MY PROPERTY
WHICH I OWN ALL OF.

ALL OF THE S.W. $\frac{1}{4}$ OF
THE N.W. $\frac{1}{4}$ AND ALL OF
THE N.W. $\frac{1}{4}$ OF THE S.W. $\frac{1}{4}$
OF SEC. 28 - T5 33
RANGE 4 W

MR. JENNINGS HAS ALREADY
BEEN TO MY PLACE TWICE,
BUT THANK YOU ANYWAY
FOR TELLING ME ABOUT HIM

RECEIVED

JUN 2 1983

WATER RESOURCES DEPT.
SALEM, OREGON

James Hamilton

File 65025 Bertee and/or Wesley and John Hill, 14850 Highway 238, Grants Pass, Oregon 97526, .299 cfs, spring, tributary Applegate River, supplemental irrigation, NW 1/4 NW 1/4, Section 7, T38S, R4W, WM, Jackson.

File R-65026 Bruce G. and Donnine R. Meyers, 375 McDonough Road, Gold Beach, Oregon 97525, 0.56 af, unnamed stream, tributary N/A/, irrigation, NE 1/4 SE 1/4, Section 30, T35S, R2W, WM, Jackson.

File 65027 Bruce G. and Donnine R. Meyers, 375 McDonough Road, Gold Beach, Oregon 97525, 1 gpm, unnamed stream, seasonal run-off, tributary N/A, irrigation, NE 1/4 SE 1/4, Section 30, T35S, R2W, WM, Jackson.

File G-10924 Raymond W. and George A. Hoiland, Hoiland Brothers, 89899 North Game Farm Road, Eugene, Oregon 97401, 550 gpm, one well, irrigation purposes, NE 1/4 SW 1/4, Section 7, T15S, R4W, WM, Lane.

File G-10925 Dave Pick, 4235 West Antler, Redmond, Oregon 97756, 1100 gpm, one well, irrigation, NE 1/4 NE 1/4, Section 27, T25S, R14E, WM, Lake.

File G-10926 City of Aumsville, PO Box 227, Aumsville, Oregon 97325, 1.40 cfs, two wells, municipal water supply, NE 1/4 NE 1/4, SE 1/4 SW 1/4, Section 25, T8S, R2W, WM, Marion.

File G-10927 Robert R. Tuttle, PO Box 100, Fort Rock, Oregon 97735, 1.99 primary, 0.08 supplemental, one well, primary and supplemental irrigation, SW 1/4 SW 1/4, Section 32, T26S, R15E, WM, Lake.

File HE 463 James W. Hamilton, PO Box 276, Wolf Creek, Oregon 97497, 1.75 cfs, Grave Creek, tributary Rogue River, minor license for power, SW 1/4 NW 1/4, Section 28, T33S, R4W, WM, Jackson.

File T-5233 Fred L. and Nancy K. Straube, POD, Applegate River, Certificate 50339, Jackson.

File T-5234 Fred L. and Nancy K. Straube, POD, Applegate River, Certificate 5298, Jackson.

File T-5235 City of Hermiston, POA, ground water, Certificate 15554, Umatilla.

File T-5236 Ebert N. Amundson and James Layton, Central Oregon Irrigation District, POU, Certificate 29052, Deschutes River, Deschutes.

File T-5237 Dolores Cutter, Central Oregon Irrigation District, POU, Certificate 29052, Deschutes River, Deschutes.

File T-5238 Robert R. Tuttle, POA, ground water, Certificate 44007, Lake.

6044B

From Press Release dated 4-15-83



Victor Atiyeh
Governor

Water Resources Department
MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378 2907

March 30, 1979

11E-463

Jim Hamilton
12572 Highway 234
Gold Hill, OR 97525

Dear Sir:

The Rogue River Basin policy statement limits power developments on Grave Creek to a maximum of $7\frac{1}{2}$ theoretical horsepower. If this would be adequate to satisfy your needs, please advise and I will forward appropriate application forms for hydroelectric license.

If you require a development in excess of $7\frac{1}{2}$ theoretical horsepower, you should request an exception from the limitation in the policy statement. If you wish to request such an exception, please advise and I will forward appropriate information.

Sincerely

Gary Oberholtzer
Engineer

GO:vp

RECEIVED

MAR 29 1979

WATER RESOURCES DEPT.
SALEM, OREGON

JOHN HAMILTON

12572 HWY. 234

GOLD HILL, ORE.

97525

DEAR SIR;

PLEASE SEND ME YOUR INFO.
PERTAINING TO OREGON'S RULES
& REGULATIONS PERTAINING TO
SELF OWNED SMALL HYDROELECTRIC
POWER PLANTS. WE WANT TO
BUILD A HOUSE ON UPPER GRAVE
CR. AND IT IS 11 MILES TO THE
NEAREST POWER. WE OWN 80 ACRES
AND THE CREEK RUNS THROUGH THE
MIDDLE OF IT.

THANK YOU.

John Hamilton

JIM HAMILTON
12572 HWY. 234
GOLD HILL, ORE.
97525



WATER RESOURCES DEPT.
MILL CREEK OFFICE PARK
555 13TH ST. N.E.
SALEM, ORE.
97310



Water Resources Department

MILL CREEK OFFICE PARK

555 13th STREET N.E., SALEM, OREGON 97310

PHONE 378-8507

March 22, 1984

James W. Hamilton
PO Box 276
Wolf Creek, OR 97497

Dear Mr. Hamilton:

REFERENCE: HE 463

Thank you for advising us that your project under Hydroelectric License HE 463 is completed.

Your project is now ready for field inspection. I presently have a backlog of field work, but will contact you for an appointment when I expect to be in your area.

Sincerely,

DONALD R. BUELL
Hydroelectric Licensing Engineer

DRB:wpc

0056/L
1434C

APPLICATION FOR LICENSE

For a Minor Project for Development of Not to Exceed 100
Theoretical Horsepower

HE 463

RECEIVED

APR 13 1983

WATER RESOURCES DEPT.
SALEM, OREGON

Water Resources Director
TO THE ~~STATE ENGINEER~~ OF OREGON:

1. JAMES W. HAMILTON
P.O. BOX 276 WOLF CREEK, ORE. 97497
of MILE MARKER #9, GRAVES CK. ROAD
Business Address City County State JACKSON ORE.

do hereby make application to the ~~State Engineer~~ of Oregon for a license for the minor project described herein and shown on the maps and plans filed herewith and made a part hereof, said license to authorize the construction, operation and maintenance of certain project works as shown on said maps and plans and the appropriation of water for such project.

2. (a) If applicant is a corporation, give date and place of incorporation

(b) If applicant is an association of citizens, give date and place of organization

- (c) If applicant is an individual, state whether or not a citizen of the United States YES
(Yes or no)

Note: An applicant corporation must file herewith a certified copy of its articles of incorporation, the full names, post office addresses and official designations of each of its principal officers and directors, and in case of a foreign corporation, the name and address of the resident attorney in fact in this state.
An association must submit a certified copy of its articles of association if any there are. If there be none, the fact must be stated over the signature of each member.
An individual must furnish an affidavit that he is a citizen of the United States.
(The data above outlined should be furnished as separate documents marked as lettered exhibits. If previously furnished with application for preliminary permit, reference thereto will suffice.)

3. The name of the stream from which water is proposed to be used is GRAVE CREEK

tributary of ROGUE RIVER

4. Quantity of water to be appropriated 1.75 cubic feet per second

(If water is to be used from two or more streams, state quantity from each)

5. Head to be utilized 18 feet.

6. Number of theoretical horsepower to be developed 3.64

Note: Quantity of water in cubic feet per second, times head in feet, divided by 8.8 equals theoretical horsepower.

7. Location of point or points of diversion 1430 FEET SOUTH AND
(Give bearing and distance to section corner)

820 FEET WEST OF CORNER COMMON TO SEC. 28 AND 29
(If there are to be two or more points of diversion, each must be described and the quantity of water to be diverted at each point must be stated.)

being within the SW 1/4 OF THE NW 1/4 of Section 28, Township 33 S,
(40-acre Legal Subdivision)

Range 4 W, W. M., in JACKSON County.

8. The power plant is to be located in the SW 1/4 OF NW 1/4 of Section 28,
(40-acre Legal Subdivision)

Township 33 S, Range 4 W, W. M.

9. Give name of stream to which water will be returned after passing through plant

GRAVE CREEK

Location of point of return SW 1/4 OF NW 1/4, Section 28, Township 33 S,
(40-acre Legal Subdivision)

Range 4 W, W. M.

10. The 8" P.V.C. is to be 1100 in length.
(Canal, Pipeline, Flume, Etc.) (Miles or Feet)

11. Description of diversion dam: Height 3 feet; length on top 48 feet;

thickness at top 8 INCHES; thickness at bottom 16" feet; slope of upstream
WITH 1 FT. THICK BY 3 FT. WIDE FOOTING IN
BEDROCK

face 0 feet horizontal to 1 foot vertical; slope of downstream face

feet horizontal to 1 foot vertical. Type of dam and material
(Concrete arch, masonry arch, gravity section concrete, earth fill, etc.)

Other diversion dam or dams described as follows:

NOT SURE WHAT YOU WANT HERE-

FRONT OR UP STREAM IS VERTICAL - DOWNSTREAM
WILL HAVE WHAT EVER ANGLE I GET WITH
8" ON TOP BY 16" ON BOTTOM X 36" HIGH

12. Description of conduit:

(a) Canal. NO VE Dimensions at diversion point: Width at water line feet, width on bottom feet; depth of water feet; freeboard feet; slope feet fall per one thousand feet of length; character of material through which to be constructed
(Rock, earth, earth and rock, gravel, sandy soil, etc.)

If canal will vary in dimensions at different points, give concise data as outlined above for each point where such change occurs THERE WILL BE

140 FT. OF OPEN TRENCH CUT IN SOLID
BEDROCK TO RETURN WATER TO
CREEK AFTER TURBINE SITE.

(b) Pipe Line. Kind of pipe P.V.C.; Length 1180; diameter at intake 8"
(Wood, steel, etc.) (Miles or Feet) inches; diameter at discharge 8 inches; difference in elevation between intake and discharge 18 feet.

Give any further data necessary for computation of capacity, such as locations and elevations of high points in line, bends, changes in size, etc. IT IS A STRAIGHT
LINE, BUT MY CHARTS INDICATE A HEAD
LOSS OF 11 FT. WITH 800 G.P.M. DISCHARGE
AND WATER VELOCITY OF 4.32 F.P.S.



RESERVOIR

If a reservoir is to be used in connection with the proposed project give descriptions as follows:

13. (a) Name of reservoir

(b) Location of reservoir (Section or Sections), Township, Range, W. M. County or counties

(c) If located in channel of stream, give name tributary of

(d) Location of dam (40-acre Legal Subdivision), Section, Township, Range, W. M.

(e) Quantity of water to be stored acre feet.

(f) Height of dam feet; length on top feet; thickness at top feet; thickness at bottom feet; slope of upstream face feet horizontal to 1 foot vertical; slope of downstream face feet horizontal to 1 foot vertical,

Type of dam and material CONCRETE REINFORCED WITH STEEL
(Concrete arch, masonry arch, gravity section concrete, earth fill, etc.)

⊗ THE ONLY PURPOSE FOR DAM IS TO GET PIPE LINE
OUT OF FLOOD STAGE A.S.A.P. NO APPRECIABLE AMOUNT
OF WATER WILL BE STORED FOR I WILL BACK FILL DAM

(g) Area of water surface at lowest elevation to which water will be drawn down
acres. Area of water surface when reservoir full acres. Difference in elevation
between high water and low water levels feet.

(h) If more than one reservoir is to be used give description in accordance with above outline.

14. The estimated cost of the proposed project is \$ 7500.00

15. The proposed scheme of development for the project is as follows (Here give a concise general description of the project, including an estimate of the power capacity and the proposed installed capacity.): WATER WILL DRIVE A 12" DIAMETER MICHELL BANKI CROSS FLOW TURBINE COUPLED TO A 32 VOLT 80 AMP. D.C. ALTERNATOR CHARGING DEEP CYCLE BATTERIES HOOKED TO A 3500 WATT INVERTER

16. The proposed use or market for the power to be developed is as follows: THE SOLE PURPOSE OF THIS POWER IS TO PROVIDE ELECTRICITY FOR MY PRIVATE USE IN MY HOUSE LOCATED ON MY PROPERTY

17. The location and capacity of all power projects owned or operated by the applicant, the markets supplied thereby, and the relation thereof to the project applied for are described briefly as follows: I HAVE NO OTHERS

(Attach Separate Sheet If Necessary)

18. The following exhibits are filed herewith and made a part of this application.

Exhibit: A- Project Map

Exhibit: B- Affidavit of Citizenship

Exhibit:

19. If this application is made by a corporation or association, give the date of the authorization thereof by the board of directors

IN WITNESS WHEREOF this application is signed this 11 day of APRIL, 1983

James M. Hamilton
(Name of Applicant)
By

WITNESSES:

Michael W. Johnson
(Name)

25001 Grave Creek rd.
(Address)

Michael W. Johnson
(Name)

25001 Grave Creek Rd.
(Address)

WATER RESOURCES DEPT.
MILL CREEK OFFICE PARK
555 13th ST. N.E.
SALEM, OREGON 97310
~~STATE ENGINEER OF OREGON~~

**Application for License for
Minor Project**

Project No. 463

This instrument was first received in the
office of the ~~State Engineer~~ ^{Water Resources Director} of Oregon on the
13th day of April, 1983,
at 8:00 o'clock A.M.

LETTERED EXHIBITS

RECEIVED

APR 13 1983

WATER RESOURCES DEPT.
SALEM, OREGON

Project No. _____

I, James W. Hamilton
of P.O. BOX 274 WOLF CREEK ORE. 97497
MILE MARKER #9 GRAVES CR. ROAD
hereby certify that I am a citizen of the United States of America.

James W. Hamilton

Subscribed and sworn to before me by James W. Hamilton

_____ this 21st day of March, 1983.

Deane M. Gial
Notary Public for Oregon

My commission expires March 6, 1984

PLEASE MAKE
COPIES FOR ME

COUNTY SURVEY CORNER
IRON PIPE CORNER

336000



Boise Cascade
Corporation

UPPER COW ↑
GRAVE CRK ↓

DOUGLAS CO.

JACKSON CO.

KING MTN ROAD

876 BOULDER CRK

GRAVE CRK
BLOCK - BCTO

DOUGLAS CO.

JOSEPHINE CO.

335000

KOST TV TOWER

KING MTN 5265

334000

JOSEPHINE CO.

332000

330000

JACKSON CO.

T335

T345

R4W



SCALE 1:31680
1 inch = 2640 feet

SOUTHERN OREGON

WEST EVANS, GRAVE CREEK, UPPER COW
31S4W 31S3W 32S4W 32S3W 33S4W 33S3W
Rogue River (portion)
Date: 27 May-1987

1268124

1270000

1272000

1280000

1284000

1288000

1290000