

Application for a Permit to Use Ground Water



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant Information

NAME <u>NRI Inc</u>			PHONE (HM)		
PHONE (WK) <u>503-665-6144</u>		CELL <u>503 849-1888</u>		FAX <u>503-668-1149</u>	
ADDRESS <u>19004 NE San Rafael</u>					
CITY <u>Portland</u>		STATE <u>OR</u>	ZIP <u>97230</u>	E-MAIL <u>Willie@NWR4Eires.com</u>	

Organization Information

NAME <u>Pyxis Labs</u>			PHONE		FAX
ADDRESS <u>12423 NE Whitaker Way</u>					CELL
CITY <u>Portland</u>		STATE <u>OR</u>	ZIP <u>97230</u>	E-MAIL	

Agent Information – The agent is authorized to represent the applicant in all matters relating to this application.

AGENT / BUSINESS NAME <u>Geonomic Developments</u>			PHONE <u>503.734.0123</u>		FAX
ADDRESS <u>1940 Sylvan Way</u>					CELL " "
CITY <u>West Linn</u>		STATE <u>OR</u>	ZIP <u>97068</u>	E-MAIL <u>info@geonomicdevelopments.com</u>	

Note: Attach multiple copies as needed

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application. MAR 16 2011
- I cannot use water legally until the Water Resources Department issues a permit.
- Oregon law requires that a permit be issued before beginning construction of any proposed well, unless the use is exempt. Acceptance of this application does not guarantee a permit will be issued.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be cancelled.
- The water use must be compatible with local comprehensive land-use plans.
- Even if the Department issues a permit, I may have to stop using water to allow senior water-right holders to get water to which they are entitled.

I (we) affirm that the information contained in this application is true and accurate.

Willie Gull
Applicant Signature

Willie Gull pres
Print Name and title if applicable

2/28/11
Date

Applicant Signature

Print Name and title if applicable

Date

For Department Use		
App. No. <u>G-17454</u>	Permit No. _____	Date _____

SECTION 2: PROPERTY OWNERSHIP

Please indicate if you own all the lands associated with the project from which the water is to be diverted, conveyed, and used.

INFORMATION

MAR 16 2011

Yes

- There are no encumbrances.
- This land is encumbered by easements, rights of way, roads or other encumbrances.

No

- I have a recorded easement or written authorization permitting access.
- I do not currently have written authorization or easement permitting access.
- Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigation and/or domestic use only (ORS 274.040).
- Water is to be diverted, conveyed, and/or used only on federal lands.

List the names and mailing addresses of all affected landowners (*attach additional sheets if necessary*).

SECTION 3: WELL DEVELOPMENT

WELL NO.	NAME OF NEAREST SURFACE WATER	IF LESS THAN 1 MILE:	
		DISTANCE TO NEAREST SURFACE WATER	ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD
1	Columbia Slough	≈ 300 ft.	≈ 10 ft.
2	Columbia Slough	≈ 300 ft.	≈ 10 ft.

Please provide any information for your existing or proposed well(s) that you believe may be helpful in evaluating your application. For existing wells, describe any previous alteration(s) or repair(s) not documented in the attached well log or other materials (*attach additional sheets if necessary*).

Water treatment system and re-injection well will be used to conserve aquifer level and to avoid activation of any minerals in ground water.

SECTION 3: WELL DEVELOPMENT, CONTINUED

Source (aquifer), if known: Troutdale formation; sand and gravel, Vanport drainage area

Total maximum rate requested: 55 gpm (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table below).

Complete the table below. If this is an existing well, the following information may be found on the applicable well log. (If a well log is available, please submit it in addition to completing the table.) If this is a proposed well, or well-modification, consider consulting with a licensed well driller, geologist, or certified water right examiner.

hshztd

re-injection only

OWNER'S WELL NAME OR NO.	PROPOSED	EXISTING	WELL ID (WELL TAG) NO.* OR WELL LOG ID**	FLOWING ARTESIAN	CASING DIAMETER	CASING INTERVALS (IN FEET)	PERFORATED OR SCREENED INTERVALS (IN FEET)	SEAL INTERVALS (IN FEET)	MOST RECENT STATIC WATER LEVEL & DATE (IN FEET)	PROPOSED USE			
										SOURCE AQUIFER***	TOTAL WELL DEPTH	WELL-SPECIFIC RATE (GPM)	ANNUAL VOLUME (ACRE-FEET)
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L105347	<input type="checkbox"/>	6"	120'	5' 5'	TBD	TBP	Troutdale Form.	120'	55	≈ 12
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L105348	<input type="checkbox"/>	6"	120'	5'	TBD	TBD	Troutdale Form.	120'	n/a	n/a
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									

* Licensed drillers are required to attach a Department-supplied Well Tag, with a unique Well ID or Well Tag Number to all new or newly altered wells. Landowners can request a Well ID for existing wells that do not have one. The Well ID is intended to serve as a unique identification number for each well.
 ** A well log ID (e.g. MARI 1234) is assigned by the Department to each log in the agency's well log database. A separate well log is required for each subsequent alteration of the well.
 *** Source aquifer examples: Troutdale Formation, gravel and sand, alluvium, basalt, bedrock, etc.

SECTION 4: WATER USE

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
Ground-source heat pump	indefinitely	≈ 12

Exempt Uses: Please note that 15,000 gallons per day for single or group **domestic** purposes and 5,000 gallons per day for a single **industrial or commercial** purpose are exempt from permitting requirements.

For irrigation use only:

Please indicate the number of primary and supplemental acres to be irrigated (*must match map*).

Primary: _____ Acres Supplemental: _____ Acres

List the Permit or Certificate number of the underlying primary water right(s): _____

Indicate the maximum total number of acre-feet you expect to use in an irrigation season: _____

- If the use is **municipal or quasi-municipal**, attach **Form M**
- If the use is **domestic**, indicate the number of households: _____
- If the use is **mining**, describe what is being mined and the method(s) of extraction: _____

MAR 16 2011

MAR 16 2011

SECTION 5: WATER MANAGEMENT

A. Diversion and Conveyance

What equipment will you use to pump water from your well(s)?

Pump (give horsepower and type): 3 HP submersible w/ variable speed control

Other means (describe): _____

Provide a description of the proposed means of diversion, construction, and operation of the diversion works and conveyance of water. 1 1/2" galvanized pipe to extract water from well via 3 HP submersible pump. 6" diameter well - pipe leads into building. → 20 gallon water treatment tank.

B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler)

Motorized ball valves for flow control based on heating system's compressor demands.

C. Conservation

Please describe why the amount of water requested is needed and measures you propose to: prevent waste; measure the amount of water diverted; prevent damage to aquatic life and riparian habitat; prevent the discharge of contaminated water to a surface stream; prevent adverse impact to public uses of affected surface waters.

50 gpm needed for max. heat source requirement. Variable speed controller used in pump system to control flow on as-needed basis.

SECTION 6: STORAGE OF GROUND WATER IN A RESERVOIR

If you would like to store ground water in a reservoir, complete this section (*if more than one reservoir, reproduce this section for each reservoir*).

Reservoir name: _____ Acreage inundated by reservoir: _____

Use(s): _____

Volume of Reservoir (acre-feet): _____ Dam height (feet, if excavated, write "zero"): _____

Note: If the dam height is greater than or equal to 10.0' above land surface AND the reservoir will store 9.2 acre feet or more, engineered plans and specifications must be approved prior to storage of water.

SECTION 7: USE OF STORED GROUND WATER FROM THE RESERVOIR

If you would like to use stored ground water from the reservoir, complete this section (*if more than one reservoir, reproduce this section for each reservoir*).

Annual volume (acre-feet): _____

USE OF STORED GROUND WATER	PERIOD OF USE

SECTION 8: PROJECT SCHEDULE

Date construction will begin: 03/30/2011 _____

Date construction will be completed: 04/07/2011 _____

Date beneficial water use will begin: 04/07/2011 _____

NEOL 1111

MAR 16 2011

SECTION 9: REMARKS

Use this space to clarify any information you have provided in the application (*attach additional sheets if necessary*).

Water will be pre-treated before re-injection.

G-17454

Receipt for Request for Land Use Information

Applicant name: Jean Hester

City or County: City of Portland

Staff contact: Jean M. Hester

Signature: J. M. Hester

Phone: 503-823-7783

Date: 3-2-11

RECEIVED
MAR 16 2011

WATER RESOURCES DEPT
SALEM, OREGON

* Land Use App. for Water Rights and Limited License Permit. Thanks.