

Completion Checklist for Claims of Beneficial Use

Application # G-11354
 Date Received 5-2-2012
 CWRE Name Thom Warrick
 File Marked _____
 Oversized Map # 6081-6082
 Reviewer RCK

Transfer # _____

Claim Logged _____

Partial perfection

Map Review:

- ☒ Map on polyester film (OAR 690-014-0170(1) & 310-0050(1)(b))
- ☒ Application & permit #; or transfer # (OAR 690-014-0100(1))
- ☒ Disclaimer (OAR 690-014-0170(5))
- ☒ North arrow (OAR 690-310-0050(2)(c))
- ☒ CWRE stamp and signature (OAR 690-014 & 310-0050)
- ☒ Appropriate scale (1" = 1320', 1" = 400', or the original full-size scale of the county assessor map) (014 & 310)
- ☒ Township, range, section, and tax lot numbers (OAR 690-310-0050(4))
- ☒ Source illustrated if surface water (OAR 690-014-0170(3))
- ☒ Point(s) of diversion or appropriation (illustrated) (OAR 690-014(4) & 690-310-0050)
- ☒ Point(s) of diversion or appropriation (coordinates) (OAR 690-014(4) & 690-310-0050)
- ☒ Conveyance structures illustrated (pump, pipelines, ditches, etc.) (OAR 690-310-0050)
- ☒ Description of the location, in relation to the point of diversion or appropriation, of any fish screens, by-pass devices, and measuring devices required (OAR 690-014-0170(4))
- ☒ Place of use (1/4 1/4, or projected 1/4 1/4 lines within DLCs, or Gov Lots; if irrigation, # of acres in each subdivision; if for domestic or human consumption, location of dwelling or spigot) (OAR 690-310-0050, 690-014, 690-380-6010)

Report Review:

- ☒ On form or format provided by the Department (OAR 690-014-0100(1))
- ☒ Application & permit #; or transfer # (OAR 690-014)
- ☒ Ownership information (OAR 690-014)
- ☒ Date of survey (OAR 690-014)
- ☒ Person interviewed (OAR 690-014)
- ☒ County (OAR 690-014)
- ☒ Description of conveyances system (from POD to POU) (OAR 690-014-0100)
- ☒ Source(s) of water (OAR 690-014-0100)
- ☒ Place of use location (OAR 690-014-0100)
- ☒ Type of use (OAR 690-014-0100)
- ☒ Extent of use (OAR 690-014-0100)
- ☒ Rate and Duty (OAR 690-014-0100) 7.3 cfs
- ☒ Diversion rate for each use (OAR 690-014-0100)
- ☒ Diversion works description (pump make, serial model, capacity, and description) (OAR 690-014-0100)
- ☒ System capacity (OAR 690-014-0100)
- ☒ Calculated capacity of system (required)
- ☒ Measured amount of use (optional)
- ☒ Permit/Transfer Final Order Conditions (OAR 690-014-0100)
 - ☐ Time limits
 - ☐ Initial water level measurements
 - ☐ Annual static water level measurements
 - ☐ Measurement, recording, and reporting
 - ☐ Meter/measuring device
 - ☐ Water use reporting
 - ☐ Fish screening and/or by-pass
 - ☒ NA Pump test (ground water)
 - ☐ Other conditions WMCP
- ☒ CWRE stamp and signature (OAR 690-014-0100)
- ☒ Signature(s) of permittee of transfer holder (OAR 690-014-0100)

well on Port of Portland land

DEF = deficient

N/A = Not Applicable

S:\groups\wr\certs\Resource Center\Forms_Checklists_Mailing Instructions\COBU Checklist 1-11-2012.rtf

Certificate Issuance Processing Checklist

☒ Map and COBU reviewed
☐ Conflict check Any Conflicts? _____
☐ Check for ownership

Staff Recommendations:

☒ Proof to the Satisfaction has been established to the full extent as described in the permit or transfer order.

☐ Proof to the Satisfaction has been not been established to the full extent as described in the permit or transfer order and the right should be limited as follows: _____

☐ Proof to the Satisfaction has not been established for the following reasons: _____
Proposed Actions:
Send letter requesting the following items/information: _____
Send letter recommending extension to cure deficiencies: _____

Can certificate be processed further?

☒ Yes

If "Yes":

☒ Proposed
☐ Final

AS A courtesy

Certificate # _____

Mailing list:

Proposed:

Final:

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WATER RESOURCES DEPT
SALEM, OREGON

Partial Perfection Information

Permit G-10479

Water Use Reports for last three years

Incremental perfection plan form Water Management Conservation Plan

Claim of Beneficial Use place of use map identifies the City of Portland's current service boundary.

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**WATER RESOURCES DEPT
SALEM, OREGON**

690-320-0040

Incremental Perfection of a Municipal Water Right

(1) A municipal supplier may incrementally perfect a portion of the quantity of water authorized by any of its municipal water use permits. For the purpose of incrementally perfecting water rights, a municipal supplier means:

- (a) Any incorporated city, village, or town;
- (b) A port formed under ORS 777.005 to 777.725 and ORS 777.915 to 777.953;
- (c) A domestic water supply district formed under ORS Chapter 264; or
- (d) A water supply authority formed under ORS Chapter 450.

(2) The portion of water use that may be incrementally perfected by a municipal supplier shall not be less than 25 percent of the quantity originally authorized by permit. The perfection, or proof of appropriation, of each increment of water shall conform to the proof of appropriation requirements of OAR 690-330-0010.

(3) When a portion of a permit issued for municipal use is perfected by a municipal supplier, the remaining unperfected quantity of water shall remain in permit status without loss of priority. The increment of water perfected and confirmed by certificate shall be subtracted from the quantity of water originally authorized by permit. The remainder shall be the quantity of water subject to future perfection under the terms of the permit.

(4) A municipal supplier shall notify the Department, in writing, of its intent to incrementally perfect a portion of its water right. Written notice shall include the following information:

- (a) The quantity of water diverted from each point of diversion, by month, for the preceding three years;
- (b) A plan of how the municipal supplier intends to develop successive increments of its water right; and
- (c) Maps that show where water will be put to use. Maps accompanying notification of intent to perfect an increment of a water right shall be prepared to the specifications described in OAR 690-310-0050, except that a standard even scale less than 4" = 1 mile may be used if appropriate.

(5) Municipal suppliers that incrementally perfect less than the full quantity of water authorized by permit may request further extension of the time limit to complete construction and apply water to beneficial use for the remaining, unperfected quantity of water. OAR 690-320-0010 governing extension of time limits applies to unperfected municipal water rights.

Water Use Reporting - Mozilla Firefox

File Edit View History Bookmarks Tools Help

The Oregon Map GIS Viewer map.cfm (application/pdf Object) OR Water Resources Department Water U... Water Use Reporting

apps.wrd.state.or.us/apps/wr/wateruse_report/default.aspx

Water Use Report

Choose an agency: CITY OF PORTLAND; PORTLAND WATER BUREAU

CITY OF PORTLAND; PORTLAND WATER BUREAU
THOM WARREN
1120 SW 5TH AVE ROOM 500
PORTLAND, OR 97204-1926

Records per Page: 5

Report ID	Facility	Associated water rights & Description
Select 11012	WELL 1 - ALTO PARK (MULT 2824)	Cert:35676 OR * WELL #1 (1.00S-1.00E-32-NW SE) 1350 FT N & 1400 FT W FM SE COR, S32
Select 11974	WELL 34 - WEST WELL FIELD (MULT 1131)	Permit: G 10479 * WELL 34 (1.00N-2.00E-15-NE NW) 1240 FEET SOUTH & 2350 FEET EAST FROM NW CORNER, SECTION 15
Select 11975	WELL 13 - EAST WELL FIELD (MULT 1286)	Permit: G 10455 * WELL 15 (1.00N-3.00E-21-NE NW) NORTH 60 DEGREES 30 MINUTES 48 SECONDS FROM ME Permit: G 8755 * EAST WELL FIELD WELL 15 (1.00N-3.00E-21-NE NW) 1000 FEET SOUTH AND 2300 FEET EAST FROM NW CORN
Select 11976	WELL 12 - EAST WELL FIELD (MULT 1287)	Permit: G 10455 * WELL 16 (1.00N-3.00E-21-NE NW) NORTH 82 DEGREES 27 MINUTES 12 SECONDS FROM ME Permit: G 8755 * EAST WELL FIELD WELL 16 (1.00N-3.00E-21-SW NE) 1400 FEET SOUTH AND 3300 FEET EAST FROM NW CORN
Select 11977	WELL 17 - BLUE LAKE WELLS (MULT 1283)	Permit: G 10124 * WELL 17 (1.00N-3.00E-21-SW NE) 1020 FEET NORTH & 230 FEET EAST FROM THE SW CORNER, NE1/4, SECTION

1 2 3 4 5 6 7 8 9 10 ...

Wur Report ID: 11974

Water Year	Unit	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
2011	M	0.84	0.0	0.0	61.56	2.6	0.0	0.0	0.0	0.0	0.0	1.12	0.0
2010	M	92.78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.22	0.22
2009	M	0.0	25.99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.15	0.0

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WATER RESOURCES DEPT
SALEM, OREGON

Undeveloped, Expanded, and New Water Rights

Request to Develop Additional Water Under Existing Permits

The City of Portland is requesting additional water in the amount under existing permits for the Columbia South Shore Well Field for the next 20 years, from the present to 2028. This request is to develop an additional 48.54 MGD/53.39 maximum MGD of supply from the CSSWF water rights shown in Table ES-5.

Table ES-5. Requested Groundwater Supplies by Permit, to 2028

Permit #	Monthly Volume ^a (in BG)	Millions of Gallons a Day	Maximum Diversion Rate ^b (in MGD)
G-10124 & G-10455	.54	17.84	19.62
G-8755 & G-10479	.92	30.7	33.77
Totals	1.46	48.54	53.39

^a30-90-day supply based on 30 days of pumping

^bThe maximum diversion rate is a 10 percent increase of the monthly volume to represent the capacity yield for a less-than-30-day pumping event.

The basis for the 48.54 MGD of additional supply comes from the materials presented in the supply and demand analysis (subsection 5.4) of this WMCP. This total is accounted for in Table ES-6.

Table ES-6. Accounting for Requested Groundwater Supplies

	Amounts in MGD	Maximum Diversion Rate
Total Annual ADD (1967 Weather Year) Demand Forecast for 2028	138.7 ^a	
Minus CSSWF 30-90-day Reliable Supply	-82.8 ^b	
Minus PVRWD Wells Supply Assumption	-7.36	
Total Requested over 20 Years (to 2028)	48.54	53.39 ^c

^aFrom the demand forecast for retail and wholesale service for the year 2028.

^bThis figure is based on a 10% reduction in yield capacity due to multiple well drawdown when all wells are in production, as well as a 10% out-of-service-calculation for mechanical or other operational considerations.

^cThe maximum diversion rate is a 10% increase over the total monthly volume requested to represent the capacity yield for a less-than-30-day pumping event.

The maximum diversion rate is 10 percent higher than the total volume requested to represent the less-than-30-day diversion amount. If the diversion amount is needed past 30 days, it will drop after the 30-day period to an average of the monthly production needed to meet 48.54 MGD of annual average supply. This is the same yield analysis that is applied to the reductions in overall CSSWF capacities in the summer supply planning process.

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**CLAIM OF
BENEFICIAL USE
for Permits claiming more
than 0.1 cfs and All Transfers**



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

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WATER RESOURCES DEPT
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No fee is required for submitting this form for a transfer.

A fee of \$150 must accompany this form to be accepted for permits
with a priority date of July 9, 1987, or later. (ORS 536.050(1))

A separate form shall be completed for each permit.

In cases where a permit has been amended through the permit amendment process, a separate claim for the permit amendment is not required. Incorporate the permit amendment into the claim for the permit.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at:
http://www.wrd.state.or.us/OWRD/WR/cwre_info.shtml#.

The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. **Every item must have a response.** If any requested information does not apply to the claim, insert "NA." **Do not delete or alter any section of this form unless directed by the form.** The Department may require the submittal of additional information from any water user or authorized agent.

If you have questions regarding the completion of this form, please call 503-986-0900 and ask for the Certificate Section.

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see
http://www.wrd.state.or.us/OWRD/mgmt_reimbursement_authority.shtml.

**SECTION 1
GENERAL INFORMATION**

1. File Information

APPLICATION # (G, R, S OR T)	PERMIT # (IF APPLICABLE)	PERMIT AMENDMENT # (IF APPLICABLE)
G-11354	G-10479	

2. Property Owner (current owner information)

APPLICANT/BUSINESS NAME		PHONE NO.		ADDITIONAL CONTACT NO.	
Port of Portland					
ADDRESS					
PO Box 3529					
CITY		STATE	ZIP	E-MAIL	
Portland		OREGON	97208		

If the current property owner is not the permit or transfer holder of record, it is recommended that an assignment be filed with the Department. **The COBU must be signed by each permit or transfer holder of record.**

3. Permit or transfer holder of record (this may, or may not, be the current property owner)

PERMIT OR TRANSFER HOLDER OF RECORD		
City of Portland, a municipal Corporation of The State of Oregon		
ADDRESS		
1120 SW 5 th Ave.		
CITY	STATE	ZIP
Portland	OREGON	97204

City has been granted easements from landowner for occupying property with Wells and other infrastructure for Municipal water delivery system.

4. Date of Site Inspection: **January, February, 2012**

5. Person(s) interviewed and description of their association with the project:

NAME	DATE	ASSOCIATION WITH THE PROJECT
Thom Warren	same	CWRE, Portland Water Bureau (PWB)
Randy Albright	same	PWB Hydrogeologist
Pat Easley	same	GW Program Manager for PWB
Rod Allen	same	GW System Maintenance
Jim Garner	same	GW System Operations
Kirk Nibler	same	Instrument technician

6. County: **Multnomah**

7. If any property described in the place of use of the permit or transfer final order is excluded from this report, identify the owner of record for that property (ORS 537.230(4)):

****Mark "NA" if there are no owners of property not included in this claim**

OWNER OF RECORD		
ADDRESS		
CITY	STATE	ZIP

ADDITIONAL OWNER OF RECORD		
ADDRESS		
CITY	STATE	ZIP

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SECTION 2

SYSTEM DESCRIPTION

A. Points of Diversion/Appropriation

1. Point of diversion/appropriation name or number:

POINT OF DIVERSION/APPROPRIATION (POD/POA) NAME OR NUMBER (CORRESPOND TO MAP)	WELL LOG ID # FOR ALL WORK PERFORMED ON THE WELL (IF APPLICABLE)	WELL TAG # (IF APPLICABLE)
PW # 34	MULT 1131	

Attach each well log available for the well (include the log for the original well and any subsequent alterations, reconstructions, or deepenings)

2. Point of diversion/appropriation source and, if from surface water, the tributary:

POD/POA NAME OR NUMBER	SOURCE	TRIBUTARY
PW # 34	Ground Water	Columbia River

3. Developed use(s), period of use, and rate for each use:

POD/POA NAME OR NUMBER	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	RATE OR VOLUME FOR USE (CFS, GPM, OR AF)
PW # 34	Municipal		Year round	CFS
Total Quantity of Water Used				

4. Provide a general narrative description of the distribution works. This description must trace the water system from **each** point of diversion or appropriation to the place of use:

A 24" diameter collector main accepts discharge from PW 34 and conveys the water to the Ground Water Pump Station (GWPS) through a series of other mains connected to numerous other POA's. The collector main network (CMN) includes 94,000 lineal feet of piping varying from 6" up to 90" diameter and includes all connections to Powell Butte. The CMN accepts water from other wells on different permits as it proceeds to the Ground Water Pump Station (GWPS) where all Ground Water (GW) is pumped via the CMN to Powell Butte 50 Million Gallon underground Storage where it enters distribution networks for dispersal to customers. A breakdown of footage per pipe diameter is an included attachment.

SECTION 2

SYSTEM DESCRIPTION (B through H)

Are there multiple PODs or POAs?

NO

If "YES" you will need to copy and complete Sections 2B through 2H for each POD/POA.

POD/POA Name or Number this section describes (only needed if there is more than one):

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B. Place of Use

1. Is the right for municipal use?

YES

If "YES" the table below may be deleted.

C. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport and apply the water from the point of diversion/appropriation to the place of use.

1. Is a pump used?

YES

If "NO" items 2 through item 6 may be deleted.

2. GWPS Pump Information

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Bingham- Willamette		1B730	Centrifugal	16"	14"
Bingham- Willamette		1B731	Centrifugal	16"	14"
Bingham- Willamette		1B732	Centrifugal	16"	14"
Bingham- Willamette		1B733	Centrifugal	16"	14"
Bingham- Willamette		1B734	Centrifugal	16"	14"
Bingham- Willamette		1B735	Centrifugal	16"	14"
<u>Production well</u>	<u>#34 info</u>	<u>for</u>	<u>same</u>		
Goulds	14RHHC		Submersible	20"	12"

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3. GWPS Motor Information

MANUFACTURER	HORSEPOWER
Westinghouse	2350
Westinghouse	2350
Westinghouse	2350
Westinghouse	2350
Westinghouse	2350
Westinghouse	2350
<u>Production Well# 34</u>	
<u>Goulds Submersible</u>	350

4. Theoretical Pump Capacity

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *If a well, the water level DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
2350 (6)		N/A	500'	186
350	65	160'	10'	7.4

5. Provide pump calculations:

GWPS	$\frac{(2350)^{HP} (6.61)^{EFF}}{500 \text{ (TDH)}} = 31 \text{ CFS} \times 6^{\text{\# OF PUMPS}} = 186 \text{ CFS}$
PW #34	$\frac{(350)^{HP} (7.04)^{EFF}}{164 \text{ PSI} + 160 \text{ P.D.} + 10 \text{ LIFT}} = \frac{2464}{334} = 7.4 \text{ CFS}$

6. Measured Pump Capacity (using meter if meter was present and system was operating)

Please see attachment of SCADA output for time window output of wells and GWPS

INITIAL METER READING	ENDING METER READING	DURATION OF TIME OBSERVED	TOTAL PUMP OUTPUT (IN CFS)
PW # 34		4 Hours 1/21/2012 6 PM-10PM	7.3
GWPS		1/21/2012 6PM- 10PM	107.1

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped?

YES

If "NO" items 8 through item 11 may be deleted.

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8. Mainline Information

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
See attachment			

9. Lateral or Handline Information

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
N/A			

10. Sprinkler Information

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
N/A					

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Pivot Information

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
N/A				

12. Additional notes or comments related to the system:

--

D. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)?

YES

If "NO", items 2 through 8 relating to this section may be deleted.

2. Describe the access port (type and location) or other means to measure the water level in the well:

Dedicated in well pressure transducers that report to a SCADA system

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3. If well logs are not available, provide as much of the following information as possible:

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

--

5. Is the appropriation from a dug well (sump)?

NO

If "NO", items 6 through 8 relating to this section may be deleted.

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E. Storage

Granted variance for this Section. See attachment # 6

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir)

YES NO

If "NO", item 2 and 3 relating to this section may be deleted.

If "YES" is it a: Storage Tank

YES NO

Bulge in System / Reservoir

YES NO

Complete appropriate table(s), unused table may be deleted.

2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)

F. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

NO

If "NO", items 2 through 4 relating to this section may be deleted.

G. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?

NO

H. Reservoir

1. Does the claim involve a reservoir modified through a transfer?

NO

Reminder: Complete this section if the reservoir right has been modified through the transfer process. If the claim is for a permitted reservoir use the Claim of Beneficial Use form for reservoirs.

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If "NO", items 2 through 9 relating to this section may be deleted.

SECTION 3
CONDITIONS

All conditions contained in the permit, permit amendment, transfer final order, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Permits, transfer final orders, and any extension final orders contain any or all of the following dates: the date when the actual construction work was to begin, the date when the construction was to be completed, and the date when the complete application of water to the proposed use was to be completed. These dates may be referred to as ABC dates. Describe how the water user has complied with each of the development timelines established in the permit, extension or transfer final order:

	DATE FROM PERMIT OR TRANSFER	DATE ACCOMPLISHED*	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	4/25/1985		
BEGIN CONSTRUCTION (A)	4/25/1986	2/4/1985	Began well drilling
COMPLETE CONSTRUCTION (B)	10/1/1986	5/16/1985	Completed well drilling connection to collector main system
COMPLETE APPLICATION OF WATER (C)	10/1/1987	N/A	This a partial perfection. C date extended to 10/1/2085 for remainder of water

* MUST BE WITHIN PERIOD BETWEEN PERMIT, TRANSFER FINAL ORDER, OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETELY APPLY WATER

2. Is there an extension final order(s)?

YES

If "NO", you may delete item 3 in this section.

3. If for a transfer extension order, provide the following information:

VOLUME	PAGE	DATE EXTENDED TO
FO's for extensions are not issued Volume and Page #'s.		10/01/2085
See attachment # 8		

4. Initial Water Level Measurements:

a. Was the water user required to submit an initial static water level measurement?

NO

If "NO", items 4b through 4d relating to this section may be deleted.

5. Annual Static Water Level Measurements:

a. Was the water user required to submit annual static water level measurements?

NO

If "NO", items 5b through 5e relating to this section may be deleted.

6. Pump Test (Required for most ground water permits prior to issuance of a certificate)

a. Did the permit require the submittal of a pump test?

YES

If "NO", items 6b through 6e relating to this section may be deleted.

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- b. Has the pump test been previously submitted to the Department?
- c. Is the pump test attached to this claim?
- d. Has the pump test been approved by the Department?
- e. Has a pump test exemption been approved by the Department?

NO
NO
NO

YES

7. Measurement Conditions:

- a. Does the permit, permit amendment, transfer final order, or any extension final order require the installation of a meter or approved measuring device?

YES

If "NO", items 7b through 7f relating to this section may be deleted.

Reminder: If a meter or approved measuring device was required, the COBU map must indicate the location of the device in relation to the point of diversion or appropriation.

- b. Has a meter been installed?

YES

c. Meter Information

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
PW # 34	Panametrics	None	Working	N/A	2006

The meter totalizer has been reset numerous times when repairs are made. Cumulative withdrawal amounts are gathered and archived by a SCADA system

If a meter has been installed, items 7d through 7f relating to this section may be deleted.

8. Recording and reporting conditions

- a. Is the water user required to report the water use to the Department?

YES

If "NO", item 8b relating to this section may be deleted.

Only through the Annual Municipal Reporting Program

- b. Have the reports been submitted?

YES

METHOD OF SUBMITTING REPORT (PAPER OR ELECTRONIC)	WATER USER REPORTING ID
Electronic	1205

If the reports have not been submitted, attach a copy of the reports if available.

9. Fish Screening

- a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion?

NO

If "NO", items 9b through 9e relating to this section may be deleted.

10. By-pass Devices

- a. Are any points of diversion required to have a by-pass device to prevent fish from entering the point of diversion?

NO

If "NO", items 10b and 10c relating to this section may be deleted.

11. Other conditions required by permit, permit amendment final order, extension final order, or transfer final order:

- | | |
|-----------------------------------------------------------------------------------|-----|
| a. Were there special well construction standards? | NO |
| b. Was submittal of a ground water monitoring plan required? | NO |
| c. Was the water user required to restore the riparian area if it was disturbed? | NO |
| d. Was a fishway required? | NO |
| e. Was submittal of a letter from an engineer required prior to storage of water? | NO |
| f. Was submittal of a water management and conservation plan required? | YES |
| g. Other conditions? | NO |

If "YES" to any of the above, identify the condition and describe the water user's actions to comply with the condition(s):

Division 86 WMCP was approved May 25, 2010. See attachment #10

SECTION 4 VARIATIONS

Include a description of variations from the permit, permit amendment final order, extension final order, or transfer final order. (i.e. *"The permit allowed three points of diversion. The water user only developed one of the points."* or *"The permit allowed 40.0 acres of irrigation. The water user only developed 10.0 acres."*)

Permit Q allowed is 8.4 cfs. Will only be perfecting approximately 7.3 cfs.

Division 86 WMCP was approved May 25, 2010.

Well is used annually on varying dates depending on exercising regimen and turbidity events in Bull Run Watershed.

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SECTION 5

ATTACHMENTS

Provide a list of any additional documents you are attaching to this report:

ATTACHMENT NAME	DESCRIPTION
#1	Well Logs, PW 17, 18 & 19
#2	COBU POA Map
#3	COBU POU Map
#4	GW Collector Main Network (CMN) Pipeline Summary
#5	GW CMN Location Map
#6	Variance Letter w/attachments
#7	Easement Documents
#8	Extension of Time Final Order
#9	Pump Test Result Letter
#10	WMCP Final Order
#11	SCADA Pumping output record snapshot for 4 hour window PW 34
#12	SCADA Pumping output record snapshot for 4 hour window GWPS

SECTION 6

CLAIM SUMMARY

POD / POA NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
PW # 34	8.4 cfs	7.4 cfs	7.3 cfs <i>(ALLOW)</i>	Municipal	N/A	N/A

SECTION 7

CLAIM OF BENEFICIAL USE MAP

The Claim of Beneficial Use Map must be submitted with this claim. Claims submitted without the Claim of Beneficial Use map will be returned. The map shall be submitted on poly film at a scale of 1" = 1320 feet, 1" = 400 feet, or the original full-size scale of the county assessor map for the location.

Provide a general description of the survey method used to prepare the map. Examples of possible methods include, but are not limited to, a traverse survey, GPS, or the use of aerial photos. If the basis of the survey is an aerial photo, provide the source, date, series and the aerial photo identification number.

The POA map was surveyed by using GPS receivers collecting real time location positions on PW # 34 in local coordinates, tied to Government Land Corners as stated on the COBU POA map. The POU map was generated from GIS system wide service limits from a base map created from Government and Local Survey monuments of record.

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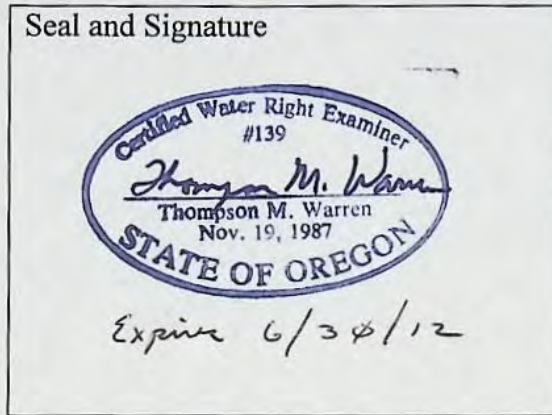
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SECTION 8 SIGNATURES

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.



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CWRE NAME Thompson M. Warren	PHONE NO. (503)823-7524	ADDITIONAL CONTACT NO. (503)314-0699
ADDRESS 596 Idylwood Dr SE		
CITY Salem	STATE OR	ZIP 97302
E-MAIL thethom@comcast.net		

Permit or Transfer Holder's of Record Signature or Acknowledgement

This Claim of Beneficial Use must be signed by each permit or transfer holder of record.

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

SIGNATURE	PRINT OR TYPE NAME	DATE
	David Shaff, Administrator Portland Water Bureau	04.19.2012
	Michael P. Stuhr, P.E., Chief Engineer Portland Water Bureau	4/19/12

STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765)

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JUN 7 1985

WATER RESOURCES DEPT

PLEASE TYPE OR PRINT IN INK

MULT

1131

1N/2E-156a

(for official use only)

(1) OWNER:

Name CITY OF PORTLAND
Address 1220 SW 5TH AVE
City PORTLAND State OREGON

(2) TYPE OF WORK (check):

WELL No. 34

New Well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air ☐ Driven ☐

Rotary Mud ☐ Dug ☐

☒ Bored ☐

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☐ Municipal ☒

Thermal ☐ Withdrawal ☐ ReInjection ☐

Other: ☐ Piezometric ☐ Grounding ☐ Test ☐

(5) CASING INSTALLED:

Steel ☐ Plastic ☐

Threaded ☐ Welded ☒

24" Diam. from +1 ft. to 270 ft. Gauge .375

20" Diam. from -7 ft. to 460 ft. Gauge .375

LINER INSTALLED:

Steel ☐ Plastic ☐

Threaded ☐ Welded ☐

(6) PERFORATIONS:

Perforated? ☐ Yes ☒ No

Size of perforations in. by

perforations from ft. to ft.

perforations from ft. to ft.

perforations from ft. to ft.

(7) SCREENS:

Well screen installed? ☒ Yes ☐ No

Manufacturer's Name U.P. JOHNSON

Type STAINLESS STEEL Model No.

Diam. SEE ATTACHED SHEET Slot Size Set from ft. to ft.

Diam. SEE ATTACHED SHEET Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? ☒ Yes ☐ No If yes, by whom? STRASSER

3200 gal./min. with 160 ft. drawdown after 24 hrs.

air test gal./min. with drill stem at ft. hrs.

Bailer test gal./min. with ft. drawdown after hrs.

Artesian flow 140 g.p.m.

Temperature of water Depth artesian flow encountered 475 ft.

(9) CONSTRUCTION:

Special standards: Yes ☐ No ☒

Well seal—Material used CEMENT GROUT

Well sealed from land surface to 32 (SEE ATTACHED SHEET) ft.

Diameter of well bore to bottom of seal 28 in.

Diameter of well bore below seal 24 in.

Amount of sealing material 51 sacks ☒ pounds ☐

How was cement grout placed? GROUT WAS PUMPED IN

FROM THE BOTTOM UP AS THE

TEMPORARY CASING WAS REMOVED

Was pump installed? Type HP Depth ft.

Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.

Did any strata contain unusable water? ☐ Yes ☒ No

Type of Water? depth of strata

Method of sealing strata off

Was well gravel packed? ☐ Yes ☒ No Size of gravel:

Gravel placed from ft. to ft.

(10) LOCATION OF WELL by legal description:

County MULTNOMAH NE 1/4 NW 1/4 of Section 15 of

Township 1N Range 2E WM.

(Township is North or South) (Range is East or West)

Tax Lot Lot Block Subdivision

MAILING ADDRESS OF WELL (or nearest address)

(11) WATER LEVEL of COMPLETED WELL:

Depth at which water was first found 128 ft.

Static level ft. below land surface. Date

Artesian pressure 4.5 lbs. per square inch. Date 5/16/85

(12) WELL LOG:

Diameter of well below casing

Depth drilled 675 ft. Depth of completed well 667 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL From To SWL

SEE ATTACHED SHEET

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Date work started FEB 4, 1985 completed MAY 16, 1985

Date well drilling machine moved off of well JUNE 4, 1985

(unbonded) Water Well Constructor Certification (if applicable):

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] Date, 19

(bonded) Water Well Constructor Certification:

Bond 6373796 Issued by FIREMAN'S FUND INS CO

(number) (Surety Company Name)

On behalf of ROBERT L. STRASSER

(type or print name of Water Well Constructor)

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief:

(Signed) Robert L. Strasser

(Water Well Constructor)

(Dated) JUNE 6, 1985

NOTICE TO WATER WELL CONSTRUCTOR

The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT,
SALEM, OREGON 97310
within 30 days from the date of well completion.

SP*46866-690

Phone: 771-2355

MULT 1131

R. J. Strasser Drilling Co.

8110 S.E. Lindy Ave.
Portland, Oregon 97206

May 21, 1985

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Log of well #34

brown sand	0 - 4
grey sandy silt	4 - 16
grey silty clay	16 - 38
grey sandy clay	38 - 128
sand and some gravel	128 - 174
gravel and sand	174 - 194
packed sand and clay	194 - 212
medium soft sandstone	212 - 224
grey and green clay, some gravel	224 - 246
grey clay	246 - 262
green clay	262 - 266
grey siltstone and clay	266 - 281
grey and brown silty clay	281 - 290
brown siltstone	290 - 294
grey silt with sand seams	294 - 301
sticky green clay	301 - 313
grey sandy clay	313 - 318
grey sandy silt	318 - 324
dark grey siltstone	324 - 332
sticky green clay	332 - 334
green and grey clay	334 - 345
grey sandstone	345 - 399
green clay and gravel	399 - 401
sticky green clay	401 - 413
clay and gravel	413 - 427
grey and green clay	427 - 442
grey silty clay	442 - 454
green sandy clay	454 - 464
sand and silt	464 - 496
sand, gravel, and silt	496 - 544
sticky green clay	544 - 550
sandy green clay	550 - 553
silt and sand	553 - 556
green clay	556 - 560
grey silty clay	560 - 571
fine sand	571 - 581
silt, sand, and gravel	581 - 598
clay with gravel seams	598 - 602
clay and silt	602 - 619
grey mudstone	619 - 619
fine silty sand	619 - 638
silty sand, some gravel	638 - 643
sand, gravel, and silt	643 - 653
medium coarse sand	653 - 655
gravel and sand	655 - 663

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SALEM, OREGON

MULT 1131

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JUN 7 1985

WATER RESOURCES DEPT
SALEM, OREGON

WELL NO. 34

(7) SCREENS:

DIAM. <u>12</u>	SLOT SIZE <u>0</u>	SET FROM <u>455</u> TO <u>480</u> FT
DIAM. <u>12</u>	SLOT SIZE <u>10</u>	SET FROM <u>480</u> TO <u>504</u> FT
DIAM. <u>12</u>	SLOT SIZE <u>20</u>	SET FROM <u>504</u> TO <u>522</u> FT
DIAM. <u>12</u>	SLOT SIZE <u>30</u>	SET FROM <u>522</u> TO <u>539</u> FT
DIAM. <u>12</u>	SLOT SIZE <u>0</u>	SET FROM <u>539</u> TO <u>583</u> FT
DIAM. <u>12</u>	SLOT SIZE <u>12</u>	SET FROM <u>583</u> TO <u>591</u> FT
DIAM. <u>12</u>	SLOT SIZE <u>0</u>	SET FROM <u>591</u> TO <u>620</u> FT
DIAM. <u>12</u>	SLOT SIZE <u>10</u>	SET FROM <u>620</u> TO <u>625</u> FT
DIAM. <u>12</u>	SLOT SIZE <u>12</u>	SET FROM <u>625</u> TO <u>657</u> FT
DIAM. <u>12</u>	SLOT SIZE <u>0</u>	SET FROM <u>657</u> TO <u>667</u> FT

(9) CONSTRUCTION:

SUBSURFACE SEAL	250-270 - CEMENT GROUT
SUBSURFACE SEAL	440-460 CEMENT GROUT

CLAIM OF BENEFICIAL USE POA LOCATION MAP

APPLICATION G-11354 PERMIT G-10479
SECTION 15, TOWNSHIP 1 NORTH, RANGE 2 EAST,
WILLAMETTE MERIDIAN, MULTNOMAH COUNTY,
CITY OF PORTLAND, OREGON

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MULTNOMAH COUNTY
PLANNING DEPARTMENT



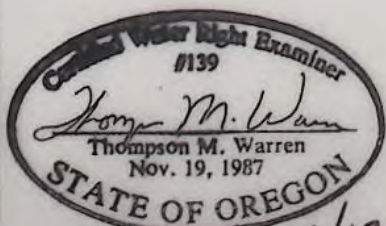
POA LOCATION TABLE

POA	DIST	DIST
PW34	1070' E	80' N

FROM THE WITNESS CORNER
TO THE NE CORNER E.L. QUIMBY
DLC 41, A BRASS MONUMENT AS
SHOWN.

THE PURPOSE OF THIS MAP IS TO IDENTIFY THE LOCATION OF THE WATER RIGHT.
IT IS NOT INTENDED TO PROVIDE INFORMATION RELATIVE TO THE LOCATION OF
PROPERTY OWNERSHIP BOUNDARY LINES.

FEET



EXPIRES 6/30/12



PORTLAND WATER BUREAU

FINAL PROOF SURVEY
PW34

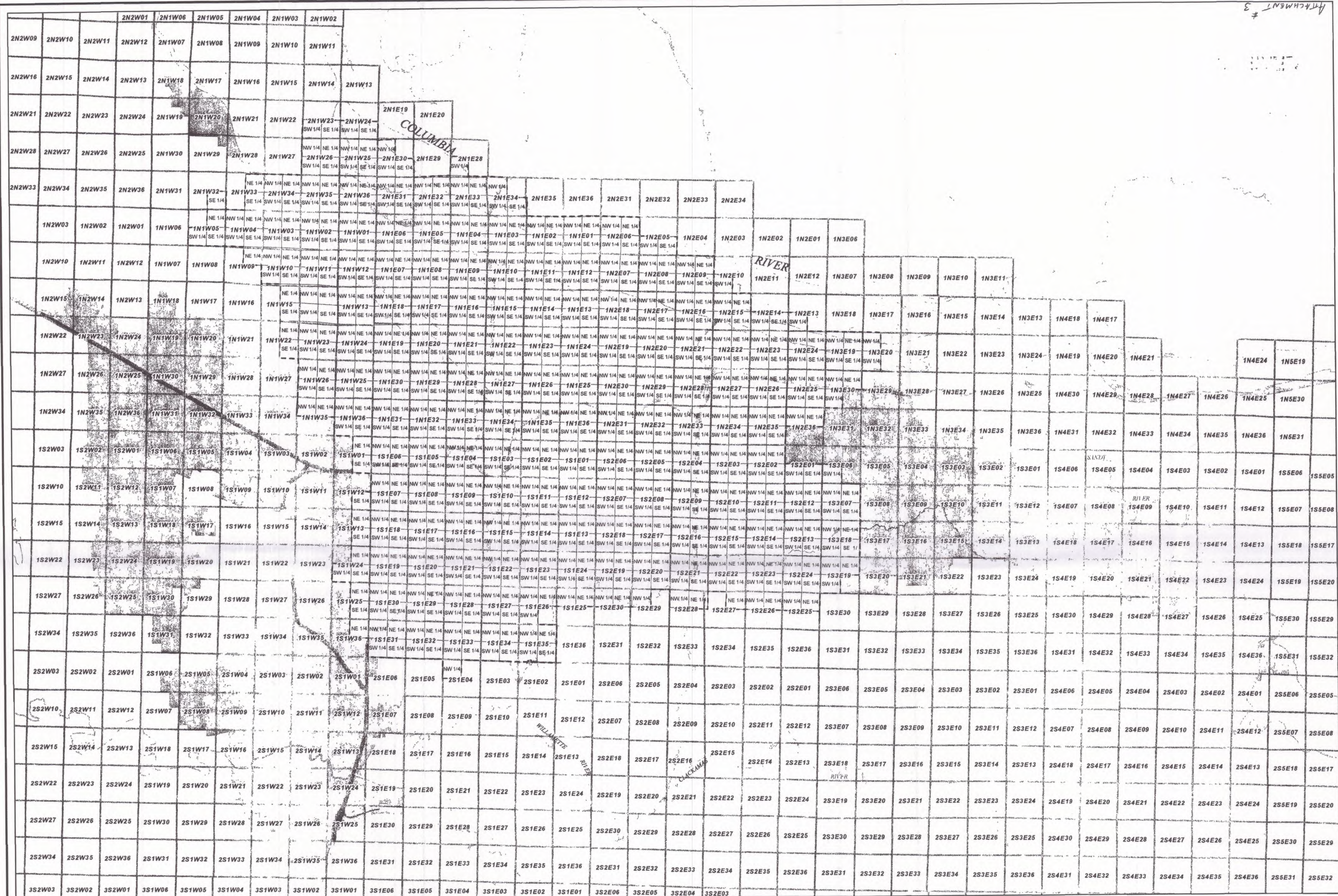
DATE: 2/27/2012

NW1/4 of Sec.15, T1N, R2E

DRAWN BY: THA

SCALE: 1" = 1320 FT.

ATTACHMENT #2



Map Prepared by:
Portland Water Bureau
Records/GIS Branch
1120 SW 5th Ave.
Portland, Oregon 97204-1926
www.PortlandOnline.com/Water

Donna M. Warr
STATE OF OREGON
EXPIRES 6/30/12

Place of Use Map Portland Water Bureau Permit G-10479

April 2012

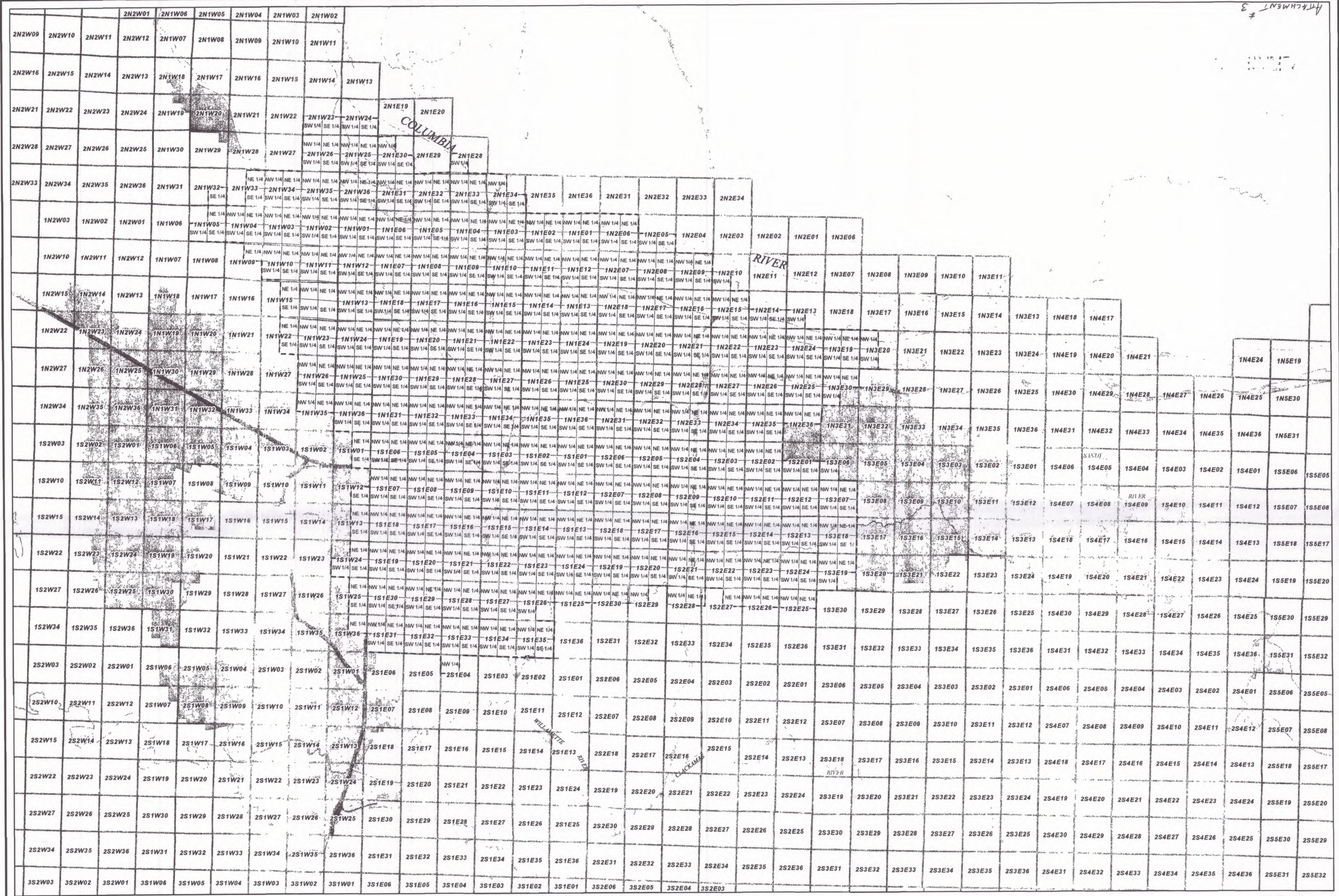
- Service Boundary
- Section Boundary
- Quarter Section Boundary
- Wholesale Service Area

0 0.5 1 2 3 4 Miles



COBU MAP # 681

ATTACHMENT #3



Map Prepared by:
Portland Water Bureau
Records/GIS Branch
1120 SW 5th Ave.
Portland, Oregon 97204-1926
www.PortlandOnline.com/Water

Tom M. Wain
STATE OF OREGON
EXPIRES 6/30/12

Place of Use Map Portland Water Bureau Permit G-10479

April 2012

Service Boundary
Section Boundary
Quarter Section Boundary
Wholesale Service Area

0 0.5 1 2 3 4 Miles



COBU MAP # 681

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PWB Storage System Tank Information

From PublicOpsInfrastructure.mdb

3/5/2012

Name	Facility Type:	Site	Capacity(mg)	Tank Material:
101ST AVENUE TANK	TANK	101st & Powell	0.5	Concrete
104TH & KCLICKITAT TANK	TANK	104th & Klickitat	4	Concrete
105TH & FREMONT TANK	TANK	105th & Fremont	0.5	Steel
109TH AVENUE TANK 1	TANK	109th Avenue	3	Steel
109TH AVENUE TANK 2	TANK	109th Avenue	0.675	Steel
127TH & BURNSIDE TANK	TANK	127th & Burnside	0.2	Elevated Steel
138TH/CENTER TANK	TANK	138th/Center Street	0.031	Steel
140TH & HALSEY TANK	TANK	140th & Halsey	0.01	Steel
144TH/CENTER TANK	TANK	144th/Center (Vivian	0.16	Steel
148TH & HALSEY TANK	TANK	148th & Halsey	2	Concrete
160TH AVENUE TANK 1	TANK	160th Avenue	7	Concrete
160TH AVENUE TANK 2	TANK	160th Avenue	3	Concrete
160TH AVENUE TANK 3	TANK	160th Avenue	0.2	Concrete
ALFRED TANK	TANK	Alfred	0.5	Steel
ALMA TANK	TANK	Alma	1	Elevated Steel
ALTO PARK TANK	TANK	Alto Park	0.2	Concrete
ARLINGTON HEIGHTS TANK 1	TANK	Arlington Heights	0.5	Concrete
ARLINGTON HEIGHTS TANK 2	TANK	Arlington Heights	1	Concrete
ARLINGTON HEIGHTS TANK 3	TANK	Arlington Heights	3	Concrete
ARNOLD TANK 1	TANK	Arnold	0.5	Concrete
ARNOLD TANK 2	TANK	Arnold	0.5	Concrete
ARNOLD TANK 3	TANK	Arnold	0.5	Concrete
ARROWOOD TANK	TANK	Arrowood		
BERTHA TANK 1	TANK	Bertha	0.2	Concrete
BERTHA TANK 2	TANK	Bertha	0.85	Concrete
BROADWAY DR TANK	TANK	Broadway Drive	0.38	Steel
BRUGGER TANK	TANK	Brugger	0.2	Concrete
BUDDINGTON TANK	TANK	Buddington	0.25	Concrete
BURLINGAME TANK 2	TANK	Burlingame	0.38	Steel
BURLINGAME TANK 3	TANK	Burlingame	0.38	Steel
BURLINGAME TANK 4	TANK	Burlingame	0.86	Steel
CALVARY STANDPIPE (SYLVAN) TANK	TANK	Calvary		Steel
CALVARY TANK	TANK	Calvary	1	Steel
CANBY HIGH TANK	TANK	Canby	0.1	Elevated Steel
CANBY LOW TANK	TANK	Canby	0.35	Concrete
CLATSOP TANK	TANK	Clatsop	3	Steel
COLLINS VIEW TANK	TANK	Collins View	0.38	Steel
CONDUIT 2 SURGE TANK (LUSTED)	TANK	Lusted		Steel
CONDUIT 3 SURGE TANK (LUSTED)	TANK	Lusted		Steel
CONDUIT 4 SURGE TANK (LUSTED)	TANK	Lusted		Steel
COUNCIL CREST TANK	TANK	Council Crest	0.5	Steel
DENVER TANK	TANK	Denver	3	Elevated Steel
FOREST PARK HIGH TANK	TANK	Forest Park High	0.5	Elevated Steel
FREEMAN TANK	TANK	Freeman	0.335	Concrete
GREENLEAF TANK 1	TANK	Greenleaf	0.03	Steel
GREENLEAF TANK 2	TANK	Greenleaf	0.3	Steel
GROUNDWATER TANK	TANK	Groundwater	2	Steel

HAYDEN ISLAND TANK 1	TANK	Hayden Island 1	0.5 Steel
HAYDEN ISLAND TANK 4	TANK	Hayden Island 4	
HAYDEN ISLAND TENNIS COURT TANK	TANK	Hayden Island 3	0.55 Concrete
HAZELWOOD TANK	TANK	Hazelwood Office	0.5 Elevated Steel
HEADWORKS BEAR CREEK REDWOOD T. TANK	TANK	Headworks Bear Creek	Wood
HEADWORKS DAM 1 RESERVOIR	RESERVOIR	Headworks Dam 1	10,000 Concrete Dam
HEADWORKS DAM 2 RESERVOIR	RESERVOIR	Headworks Comple	6,500 Earthfill/Rock Dam
KELLY BUTTE TANK	TANK	Kelly Butte	10 Steel
KINGS HEIGHTS TANK	TANK	Kings Heights	0.2 Concrete
LEXINGTON TANK	TANK	Lexington	1 Steel
LOWER WILLBRIDGE TANK	TANK	Lower Willbridge	0.13 Concrete
MARIGOLD TANK	TANK	Marigold	1 Elevated Steel
MARQUAM HILL TANK 1	TANK	Marquam Hill	0.287 Steel
MARQUAM HILL TANK 2	TANK	Marquam Hill	2.2 Prestressed Concrete
MAYFAIR TANK	TANK	Mayfair	5.6 Steel
MT SCOTT TANK	TANK	Mt Scott	0.4 Steel
NEVADA COURT TANK	TANK	Nevada Court	0.617 Concrete
NORTH LINNTON TANK	TANK	North Linnton	1 Steel
PARKROSE WELLS TANK	TANK	Well 38	
PATTON TANK	TANK	Patton	0.4 Elevated Steel
PENRIDGE TANK	TANK	Penridge	0.045 Steel
PITTOCK TANK	TANK	Pittock	1 Concrete
PORTLAND HEIGHTS TANK 1	TANK	Portland Heights	0.6 Concrete
PORTLAND HEIGHTS TANK 2	TANK	Portland Heights	0.5 Concrete
PORTLAND HEIGHTS TANK 3	TANK	Portland Heights	1.8 Prestressed Concrete
POWELL BUTTE RESERVOIR NORTH	RESERVOIR	Powell Butte	24.841 Concrete
POWELL BUTTE RESERVOIR SOUTH	RESERVOIR	Powell Butte	24.91 Concrete
RAYMOND STREET TANK	TANK	Raymond Street	2
RICHLAND TANK	TANK	Richland Tank	0.2 Elevated Steel
RIVERGATE TANK	TANK	Rivergate	1.5 Steel
ROCKY BUTTE TANK	TANK	Rocky Butte Tank	0.5 Steel
ROSE PARKWAY TANK	TANK	Rose Parkway	0.5 Elevated Steel
SALMON STREET TANK	TANK	Salmon Street	Elevated Steel
SALTZMAN HYDRO TANK	TANK	Saltzman	Steel
SALTZMAN TANK	TANK	Saltzman	0.001 Steel
SAM JACKSON TANK 1	TANK	Sam Jackson	Prestressed Concrete
SAM JACKSON TANK 2	TANK	Sam Jackson	2.75 Prestressed Concrete
SELLWOOD TANK	TANK	Sellwood Tank	Elevated Steel
SHERWOOD FIELD TANK	TANK	Sherwood Field	0.38 Steel
ST JOHNS TANK 1	TANK	St Johns	0.36 Steel
ST JOHNS TANK 2	TANK	St Johns	1.5 Elevated Steel
STEPHENSON TANK 1	TANK	Stephenson	1 Concrete
STEPHENSON TANK 2	TANK	Stephenson	0.09 Concrete
STEPHENSON TANK 3	TANK	Stephenson	0.25 Concrete
TABOR RESERVOIR 1	RESERVOIR	Tabor Complex	12 Concrete
TABOR RESERVOIR 5	RESERVOIR	Tabor Complex	49 Concrete
TABOR RESERVOIR 6 NORTH	RESERVOIR	Tabor Complex	31.9 Concrete
TABOR RESERVOIR 6 SOUTH	RESERVOIR	Tabor Complex	31.9 Concrete
TABOR RESERVOIR 7	RESERVOIR	Tabor Reservoir 7	0.2 Concrete
TEXAS TANK	TANK	Texas	0.615 Concrete
UPPER LINNTON TANK	TANK	Upper Linnton	0.13 Concrete
UPPER WHITWOOD TANK	TANK	Upper Whitwood	0.13 Concrete

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UPPER WILLBRIDGE TANK	TANK	Upper Willbridge	0.065 Concrete
VERMONT HILLS TANK 2	TANK	Vermont Hills	0.577 Concrete
VERMONT HILLS TANK 3	TANK	Vermont Hills	0.867 Steel
VERMONT HILLS TANK 4	TANK	Vermont Hills	0.527 Concrete
VERMONT HILLS TANK 5	TANK	Vermont Hills	2.798 Prestressed Concrete
VERNON ELEVATED TANK	TANK	Vernon	1 Elevated Steel
VERNON INTERMEDIATE (LOW COMBO) TANK	TANK	Vernon	3.2 Steel
VERNON STANDPIPE (HIGH COMBO) TANK	TANK	Vernon	2.5 Elevated Steel
WASHINGTON PARK RESERVOIR 3	RESERVOIR	Washington Park Co	16.4 Concrete
WASHINGTON PARK RESERVOIR 4	RESERVOIR	Washington Park Co	17.6 Concrete
WESTWOOD TANK	TANK	Westwood	1 Prestressed Concrete
WHITWOOD TANK	TANK	Whitwood Tank	0.13 Concrete
WILLALATIN TANK	TANK	Willalatin	0.2 Elevated Steel
WILLAMETTE HEIGHTS TANK	TANK	Willamette Heights	0.06 Concrete

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WATER RESOURCES DEPT
SALEM, OREGON

Warren, Thom

From: Gerry Clark [gerald.e.clark@state.or.us]
Sent: Wednesday, March 28, 2012 1:40 PM
To: Warren, Thom
Subject: Waiver Request Approval - Section "E" of Claim form (Reservoirs)

Thom,

I received your request for a waiver from completing Section "E" of the Claim for Permits G-10124 and G-10479. Your request indicated that rather than complete the referenced section of the form, that you supply a list and description of the City's reservoirs/tanks along with an overall schematic drawing of the reservoirs/tanks.

Your request for a waiver concerning the completion of Section "E" of the Claim form and supplying the list and schematic is approved as requested.

Please let me know if you have any additional questions.

Gerry

Gerry Clark
Water Right Services Division
Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301

Phone: 503-986-0811
Fax: 503-986-0901

WRD Home Page: www.wrd.state.or.us

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WATER RESOURCES DEPT
SALEM, OREGON

3/28/2012

4

**Groundwater Collection System and Groundwater Transmission System to Powell Butte
Pipe Lengths From Hydraulic Network Model
2/10/2012**

Pipe Diameter (inches)	Total Length (ft)
6	304
8	210
10	338
12	15,871
16	369
18	3,049
24	5,425
30	6,604
36	6,448
42	13,939
48	6,431
54	245
56	1,546
60	17,027
66	3,494
72	3,160
78	335
84	3,799
90	5,414
Total Length (ft):	94,009








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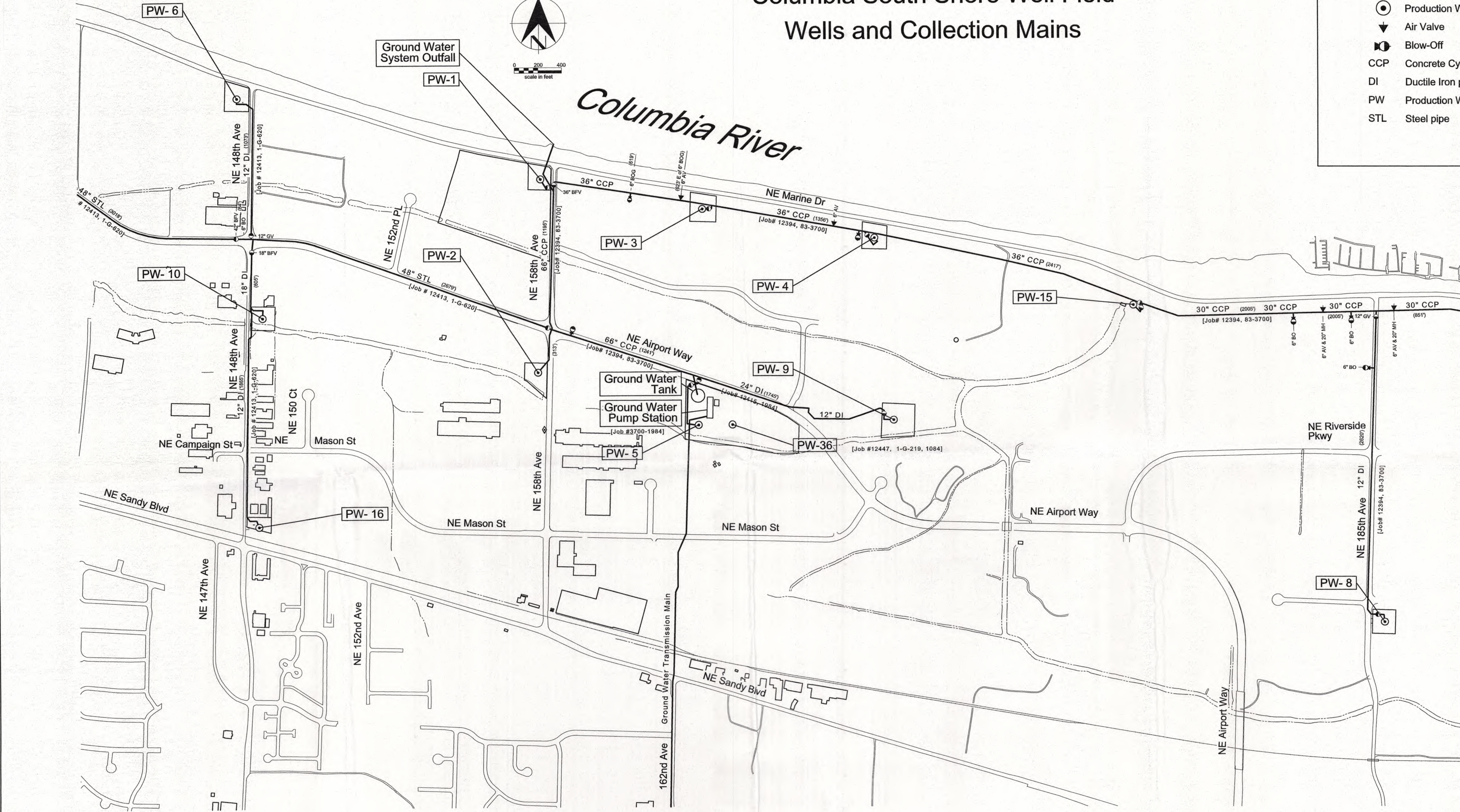
WATER RESOURCES DEPT
SALEM, OREGON

Columbia South Shore Well Field
Wells and Collection Mains

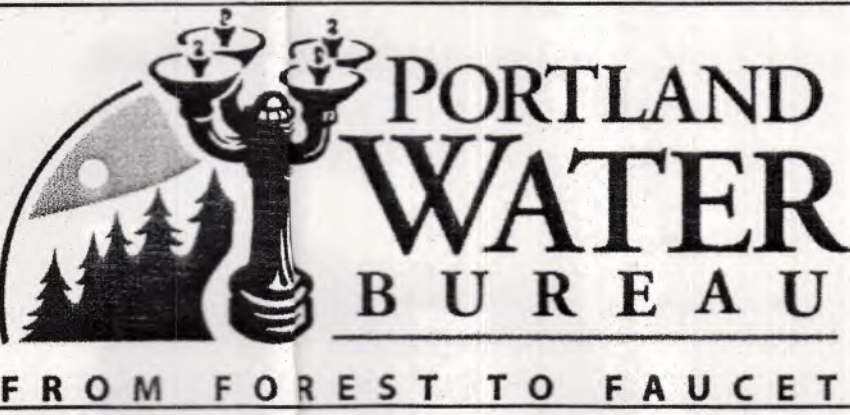
Legend



Production Well
Air Valve
Blow-Off
CCP Concrete Cylinder Pipe
DI Ductile Iron pipe
PW Production Well
STL Steel pipe



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revision					
survey			Other	book	page



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SALEM, OREGON

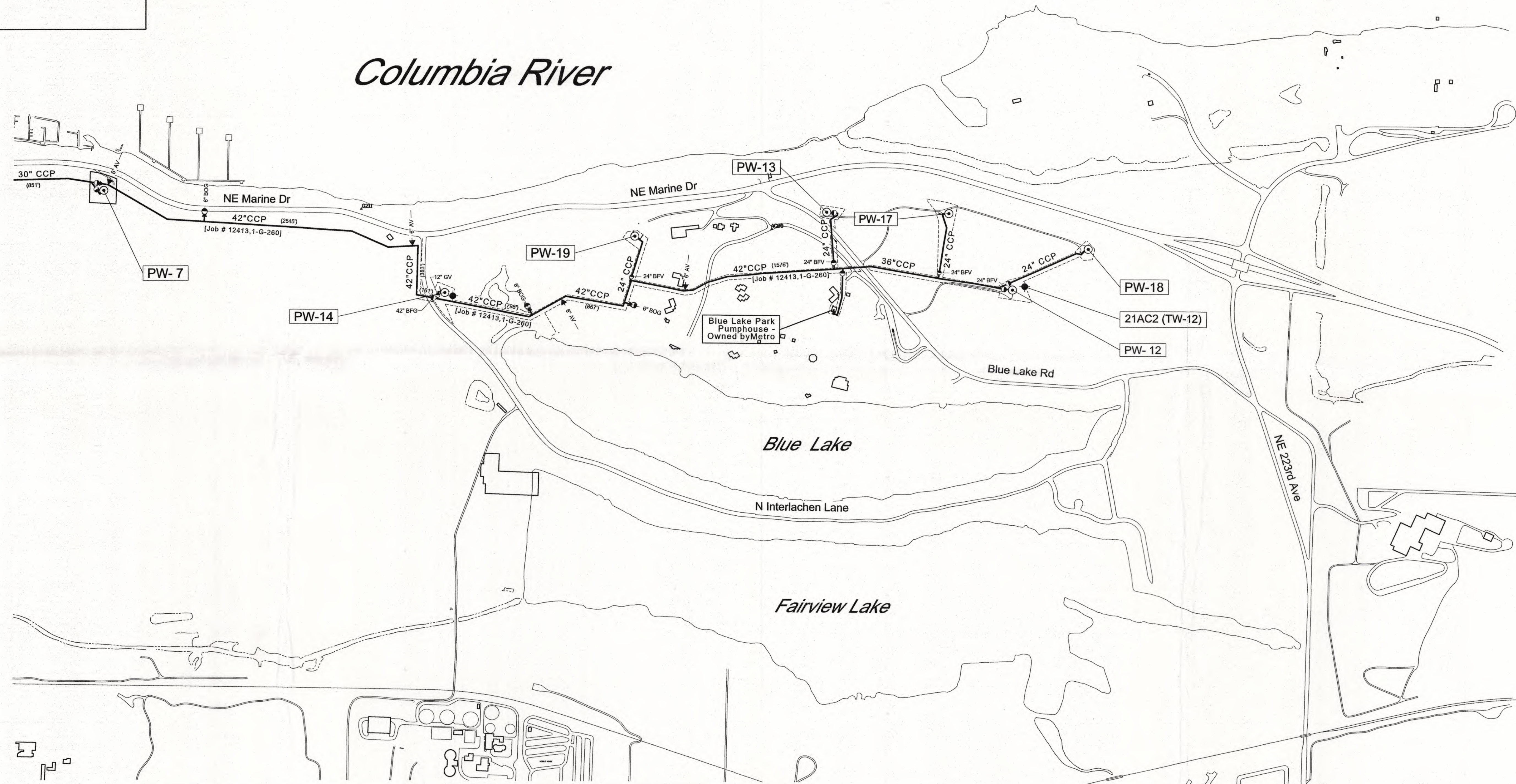


Columbia South Shore Well Field
Wells and Collection Mains

Legend

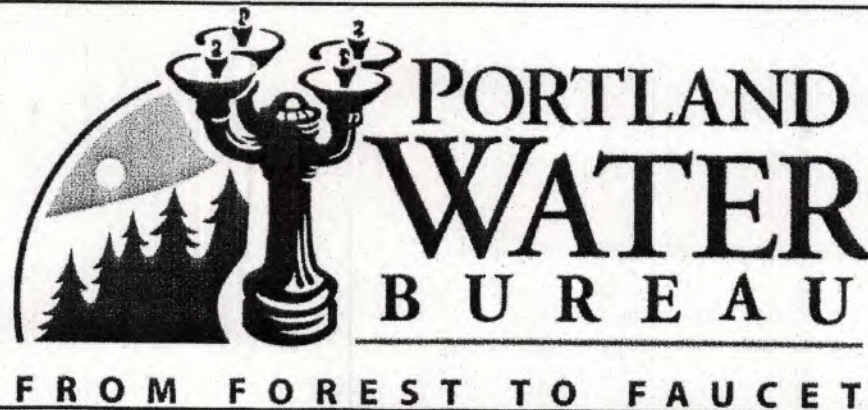
- Production Well
- Air Valve
- Blow-Off
- CCP Concrete Cylinder Pipe
- DI Ductile Iron pipe
- PW Production Well
- STL Steel pipe

Columbia South Shore Well Field
Wells and Collection Mains



\$DATES \$FILES \$TIMES

no		date	description		appd
survey			Other	book	page



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SALEM, OREGON



Columbia South Shore Well Field
Wells and Collection Mains

SAP Project No
1/4 Section
Sheet No
3 of 3



Randy Leonard, Commissioner
David G. Shaff, Administrator

1120 SW 5th Avenue, Room 600
Portland, Oregon 97204-1926
Information: 503-823-7404
www.portlandonline.com/water



An Equal Opportunity Employer

March 22, 2012

Oregon Water Resources Department
725 Summer Street NE, Suite "A"
Salem, Oregon 97301-1266

RE: Requesting Variance of requirement to fill in Section "E" "Storage" of COBU Reports for Permits G-10124 and G-10479.

To whom it may concern:

Portland Water Bureau is submitting partial COBU's under the 25% municipal use rule allowing municipalities to file for a Certificate of Water Right providing a minimum of 25% of total permitted Q can be beneficially proved up upon. Because of the huge number of tanks, reservoirs, and pumping stations involved in the system, I hereby respectfully request that in lieu of the entirety of Section "E" of the COBU form being filled out, the supplied schematics and information on the storage capacities and facilities be accepted instead of Section "E" being filled out. The included documents are attached with this letter and will be part of the COBU attachments as well.

Please contact me if you have further questions or need more explanation.

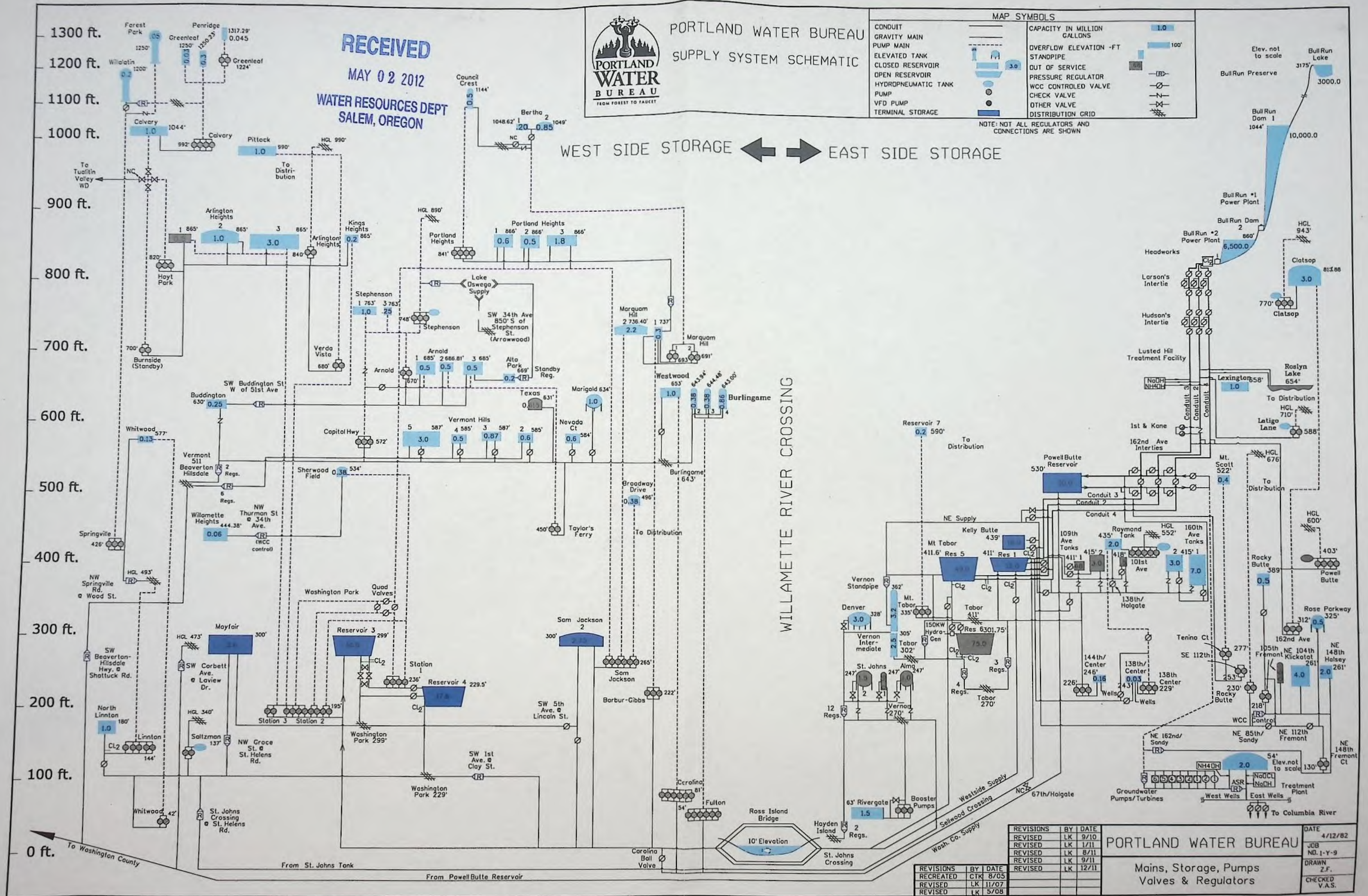
Sincerely,

Thompson M. Warren PLS CWRE
(503)823-7524
thom.warren@portlandoregon.gov

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SALEM, OREGON



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**WATER RESOURCES DEPT
SALEM, OREGON**

EASEMENT

2006-149

GRANTOR: THE PORT OF PORTLAND, a port district of the State of Oregon, whose address is P.O. Box 3529, Portland, Oregon 97208.

GRANTEE: BUREAU OF WATER WORKS of the CITY OF PORTLAND, OREGON, a municipality of the state of Oregon, whose address is 1120 SW Fifth Avenue, Portland, Oregon 97204.

For good and valuable consideration of the receipt of which is hereby acknowledged, and consistent with the intent of the Grantor and Grantee pursuant to an Easement Agreement previously entered into by the Grantor and Grantee (Multnomah County Deed Records Document No. 99118338; June 14, 1999), Grantor hereby grants to Grantee, for the uses and on the conditions set forth below, a perpetual non-exclusive easement upon, over, under and through a portion of Grantor's property more precisely described on Exhibits A through J (collectively the "Easement Areas").

1. GRANTEE'S USE

1.1 General

Grantee shall have the right to use the specific Easement Areas only for the limited uses set forth below in this Section 1.1, and for the ingress and egress necessary thereto, and for no other purpose without Grantor's prior written consent.

1.1.1 Landscaping

Grantee shall have the right to use the Easement Area more precisely described on Exhibit E and F for construction, installation, maintenance, and removal of the landscaping required for water well #COP Well PW 34. Landscaping must meet the requirement set forth in the final plans and specification approved by the Port under Permit #11-345, and must be consistent with the Port's mandatory Wildlife Management Plan to address bird attractants.

1.1.2 Drainage

Grantee shall have the right to use the Easement Area more precisely described on Exhibit C and D for construction, installation, maintenance, and repair of the drainage required for water well # COP Well PW 34.

Recorded in MULTNOMAH COUNTY, OREGON

C. Swick, Deputy Clerk

A49 16

ATVLM

Total : 96.00

2006-157605 08/23/2006 02:42:57pm

Plu 8.2306
Port of OR

AFTER RECORDING, RETURN TO:

City of Portland
1120 SW Fifth Avenue
Portland, Oregon 97204

Tax statement shall be sent to:
No Change

7

16

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WATER RESOURCES DEPT
SALEM, OREGON

1.1.3 Access

Grantee shall have the right to use the Easement Area more precisely described on Exhibit G and H for ingress and egress to water well #COP Well PW 34 and other Easement Areas identified in on Exhibits A, B, C, D, E, F, I and J.

1.1.4 Well Site

Grantee shall have the right to use the Easement Area more precisely described on Exhibit A and B for construction, installation, operation, maintenance, repair, and removal of water well #COP Well PW 34, including the well pump house and all associated facilities necessary for its operations.

1.1.5 Electrical

Grantee shall have the right to use the Easement Area more precisely described on Exhibit I and J for construction, installation, operation, maintenance, repair, and removal of the electrical system that serves water well #COP Well PW 34.

1.2 Utilities and Other Charges

Grantee shall promptly pay any charges for storm sewer, water, gas, electricity, telephone, and all other charges for utilities which may be furnished to the Easement Area at the request of Grantee. Grantee shall promptly pay any charges for other services and charges, including but not limited to impervious surfaces fees, which may be charged to the Easement Area.

1.3 Security

Grantee shall manage and, as appropriate, secure the Easement Area and its occupation or use so as to prevent any unauthorized access or waste disposal by any party on or relating to the Easement Area. The City shall install and maintain seven and one-half foot (7.5') chain link fencing around the production well as outlined in the final plans and specifications approved by the Port.

1.4 Hazardous Substances

Grantee may use, handle or store on the Easement Areas, for their intended purposes in accordance with manufacturers' instructions, only those hazardous substances reasonably and necessarily used in the course of Grantee's permitted uses of the Easement Areas.

2. TERM

This Easement shall commence on February 1, 2006 and shall continue in perpetuity unless terminated by mutual agreement of the parties. In the event of an abandonment of this Easement by Grantee or upon termination, Grantee shall promptly execute and deliver to Grantor recordable documents sufficient to remove this easement as an encumbrance against the property.

2.1 Abandonment

For the purposes of this Section 2, abandonment shall mean closure of the well.

3. COMPLIANCE WITH LAWS

Grantee shall conduct its activities under this Easement in compliance with all applicable state, federal, and local laws, regulations, agency guidance documents, Port rules and regulations, and terms of any permits applicable to the Easement Areas or Grantor's property.

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WATER RESOURCES DEPT
SALEM, OREGON

4. RESTORATION OF EASEMENT AREA

4.1 Disturbance

In the event that the Easement Areas or any landscaping or other improvement located within or adjacent to the Easement Areas is disturbed by the exercise of any rights granted herein or any associated construction, Grantee shall promptly remove any debris and restore the Easement Areas including any disturbed landscaping or other improvement to a condition not less than the condition prior to the exercise of such rights, unless otherwise agreed to in writing by Grantor.

4.2 Condition on Termination

Upon termination, Grantee shall, at its option, restore the Easement Areas to a condition not less than the condition of the Easement Areas prior to the date of this Easement, or to a condition not less than that of Grantor's surrounding property. Restoration shall include the removal of all improvements constructed or used in the Easement Areas by Grantee or, subject to Grantor's prior written consent, abandonment in place.

5. CONSTRUCTION OF IMPROVEMENTS

Prior to the commencement of any new construction or reconstruction activities in the Easement Areas, Grantee shall, except in the case of emergency, obtain from Grantor a Construction Permit and Right of Entry.

6. INDEMNIFICATION

To the extent allowed under Oregon law, Grantee agrees to indemnify, hold harmless and defend Grantor, its commissioners, directors, officers, and employees from and against and to reimburse Grantor for all claims, actions, damages, injuries, costs, loss, or expenses incidental to the investigation and defense thereof, arising out of the acts or omissions of, or use or occupancy of the Easement Areas, by, Grantee, its agents, contractors, or employees. To the extent allowed under Oregon law, Grantor agrees to fully indemnify, hold harmless and defend Grantee, its commissioners, officers, and employees from and against and to reimburse Grantee for all claims, actions, damages, injuries, costs, loss, or expenses incidental to the investigation and defense thereof, arising out of the acts or omissions of, or use or occupancy of the Easement Areas, by, Grantor, its agents, contractors, employees.

7. GRANTOR'S USE

7.1 General

Grantor reserves the right to use the Easement Areas for any lawful purpose not inconsistent with Grantee's permitted use, including the installation, maintenance, repair, removal, replacement or relocation of underground utilities and services, paths, roadways or driveways, parking lots, shallow-rooted landscaping, and continued operation and development of Grantor's property. No grade changes in excess of one (1) foot elevation shall be allowed within the easement without prior written consent of the Chief Engineer of the Grantee, which consent shall not be unreasonably withheld. In the event that Grantor needs all or a portion of the Easement Areas for other purposes, Grantor reserves the right to relocate, after consultation with Grantee and at Grantor's expense, the Easement Areas and any utilities or facilities located in the Easement Areas.

7.2 Grantor's Responsibilities Concerning Hazardous Substances

In the event of any release of substances, pollutants, materials, or products defined or designated as hazardous, toxic, radioactive, dangerous or regulated wastes or materials or any other similar term in or under any environmental law, including fuels, petroleum and petroleum-derived products, on the Easement Areas, on other properties, in the air or in adjacent or nearby waterways (including groundwater), which results from or occurs in connection with Grantee's occupancy or use of the Easement Areas, Grantee shall be responsible for such release, shall promptly notify Grantor, and shall clean up and restore the Easement Areas and other affected properties to the extent required by law and compatible with Grantor's current and intended future uses of the Easement Areas and other affected properties.

8. CONDITION; REPAIRS AND MAINTENANCE

Grantor makes no warranty, guarantee, or representation concerning the physical condition of the Easement Areas nor its suitability for any of Grantee's intended purposes. Grantee will maintain, repair and replace the improvements owed or used by Grantee in the Easement Areas to keep them in good condition and repair at all times.

9. AGREEMENTS WITH UNITED STATES; AIRPORT SECURITY

This Easement shall be subject to the provisions of any existing or future agreement between Grantor and the United States relative to the operation or maintenance of the Airport, the execution of which has been or may be required as a condition precedent to the expenditure of federal funds for the development of the Airport. Grantee agrees to reimburse Grantor for any fines or penalties levied against Grantor by the United States Government for security violations as a result of any actions on the part of Grantee, its employees, agents or contractors.

10. MEDIATION

If any dispute should arise between Grantor and Grantee concerning this Easement or the parties' obligations or activities under this Easement, the dispute shall be submitted to mediation before a mediator agreed to and compensated equally by both parties, prior to commencement of arbitration or litigation. If the parties fail to agree on a mediator, a mediator shall be appointed by the presiding judge of the Multnomah County Circuit Court.

11. BINDING

This Easement shall be and hereby is made a part of each conveyance of all or any part of the Easement Area and shall run with the land as to all property burdened by this Easement. As used in this Easement, the terms "Grantee" and "Grantor" shall include the above named Grantee and Grantor, and such parties' successors and assigns.

12. NOTICES

All notices required under this Easement shall be sent certified mail, return receipt requested, to the addresses set forth below unless changed by the parties by notice in writing:

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WATER RESOURCES DEPT
SALEM, OREGON

Bureau of Water Works
of the City of Portland, Oregon
1120 SW Fifth Ave.
Portland, OR 97204
Attn: Chief Engineer, Engineering Division

The Port of Portland
Property & Development Services
121 NW Everett St.
Portland OR 97209
Attn: Contracts Administrator

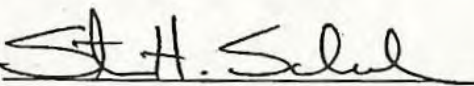
13. AMENDMENT

This Easement may not be amended except by written agreement of all parties. No amendment shall be effective until duly recorded in the records of Multnomah County, Oregon.

This grant is made and accepted effective this 1st day of February, 2006.

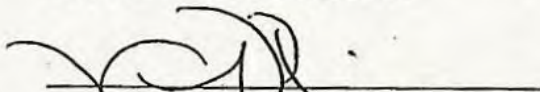
GRANTOR

THE PORT OF PORTLAND

By: 

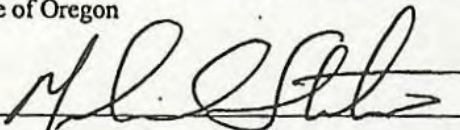
For Bill Wyatt, Executive Director

APPROVED AS TO LEGAL SUFFICIENCY
FOR THE PORT OF PORTLAND


Counsel to the Port of Portland

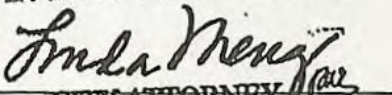
GRANTEE

BUREAU OF WATER WORKS OF THE CITY
OF PORTLAND, a municipal corporation of the
State of Oregon

By: 

Name: Michael Stuhr
Title: Chief Engineer

APPROVED AS TO FORM
APPROVED AS TO FORM.


CITY ATTORNEY
City Attorney

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WATER RESOURCES DEPT
SALEM, OREGON

ACKNOWLEDGMENTS FOR
EASEMENT BETWEEN THE PORT OF PORTLAND AND
THE BUREAU OF WATER WORKS OF THE CITY OF PORTLAND

STATE OF OREGON)
)ss
County of Multnomah)

This Easement was acknowledged before me on August 22 2006, by Steve Schreiber as
CFO and Director of Operations SVCS of The Port of Portland.

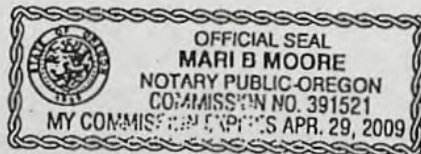


Troy Graham
Notary Public for Oregon

My Commission Expires: December 29, 2008

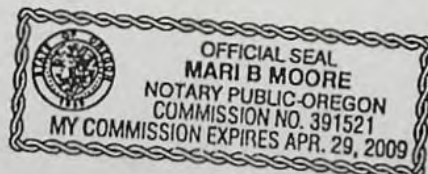
STATE OF OREGON)
)ss
County of Multnomah)

On this 2nd day of August, 2006, before me personally appeared Michael Stuhr, whose identity is personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to this instrument, and acknowledged that he executed the same as Chief Engineer of, and on behalf of the Bureau of Water Works of the City of Portland, a municipal corporation of the State of Oregon, by and pursuant to authority granted to the Chief Engineer of said Bureau by Ordinance Numbers 172920 and 172921, both approved December 9, 1998 by the City Council of the City of Portland, Oregon.



Mari B Moore
Notary Public for Oregon

My Commission Expires: 4/29/09



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WATER RESOURCES DEPT
SALEM, OREGON

EXHIBIT "A"

**CITY OF PORTLAND BUREAU OF WATER WORKS WELL SITE 31 & 34
SITE EASEMENT LEGAL DESCRIPTION**

A CITY OF PORTLAND BUREAU OF WATER WORKS WELL SITE EASEMENT
SITUATED IN THE NORTHWEST QUARTER OF SECTION 15, TOWNSHIP 1 NORTH,
RANGE 2 EAST, WILLAMETTE MERIDIAN, CITY OF PORTLAND, MULTNOMAH
COUNTY, OREGON BEING DESCRIBED AS FOLLOWS:

COMMENCING AT A 5/8-INCH IRON ROD WITH AN ALUMINUM CAP STAMPED
"OSHD" ON THE WESTERLY RIGHT-OF-WAY OF ODOT HIGHWAY I-205, SAID
MONUMENT BEING 300.68 FEET RIGHT OF HIGHWAY STATION 125+74.85;
THENCE, NORTH 45°53'01" WEST, A DISTANCE OF 79.41 FEET TO A 5/8-INCH
IRON ROD WITH YELLOW PLASTIC CAP STAMPED "POP" ON THE SOUTHERLY
RIGHT OF WAY OF NORTH MARINE DRIVE; THENCE SOUTH 34°32'54" WEST, A
DISTANCE OF 10.02 FEET TO THE TRUE POINT OF BEGINNING, THENCE, NORTH
58°04'58" WEST, A DISTANCE OF 70.22 FEET; THENCE, SOUTH 28°50'31" WEST, A
DISTANCE OF 111.10 FEET; THENCE, SOUTH 27°44'20" WEST, A DISTANCE OF
91.50 FEET; THENCE, SOUTH 51°30'14" EAST, A DISTANCE OF 73.04 FEET, TO
THE WESTERLY RIGHT OF WAY LINE OF ODOT HIGHWAY I-205; THENCE, ALONG
SAID WESTERLY RIGHT OF WAY LINE, NORTH 49°07'27" EAST, A DISTANCE OF
212.46 FEET; THENCE, NORTH 52°29'30" WEST, A DISTANCE OF 78.19 FEET; TO
THE TRUE POINT OF BEGINNING, CONTAINING 22,910 SQUARE FEET (0.53
ACRES) MORE OR LESS.

AS SHOWN ON THE ATTACHED EXHIBIT MAP "B".
THE BEARINGS IN THIS DESCRIPTION ARE BASED UPON RECORD OF SURVEY
No. 54,289, MULTNOMAH COUNTY SURVEY RECORDS FILED OCTOBER 31, 1994.



RECEIVED

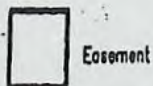
MAY 02 2012

WATER RESOURCES DEPT
SALEM, OREGON

Exhibit "B"
City of Portland Bureau of Water Works
Well Site #31 & #34
Well Site Easement Use Area
Located in the NW 1/4 of Sec. 15,
T. 1 N., R. 2 E., W.M.,
Portland International Airport,
City of Portland,
Multnomah County, Oregon

Legend:

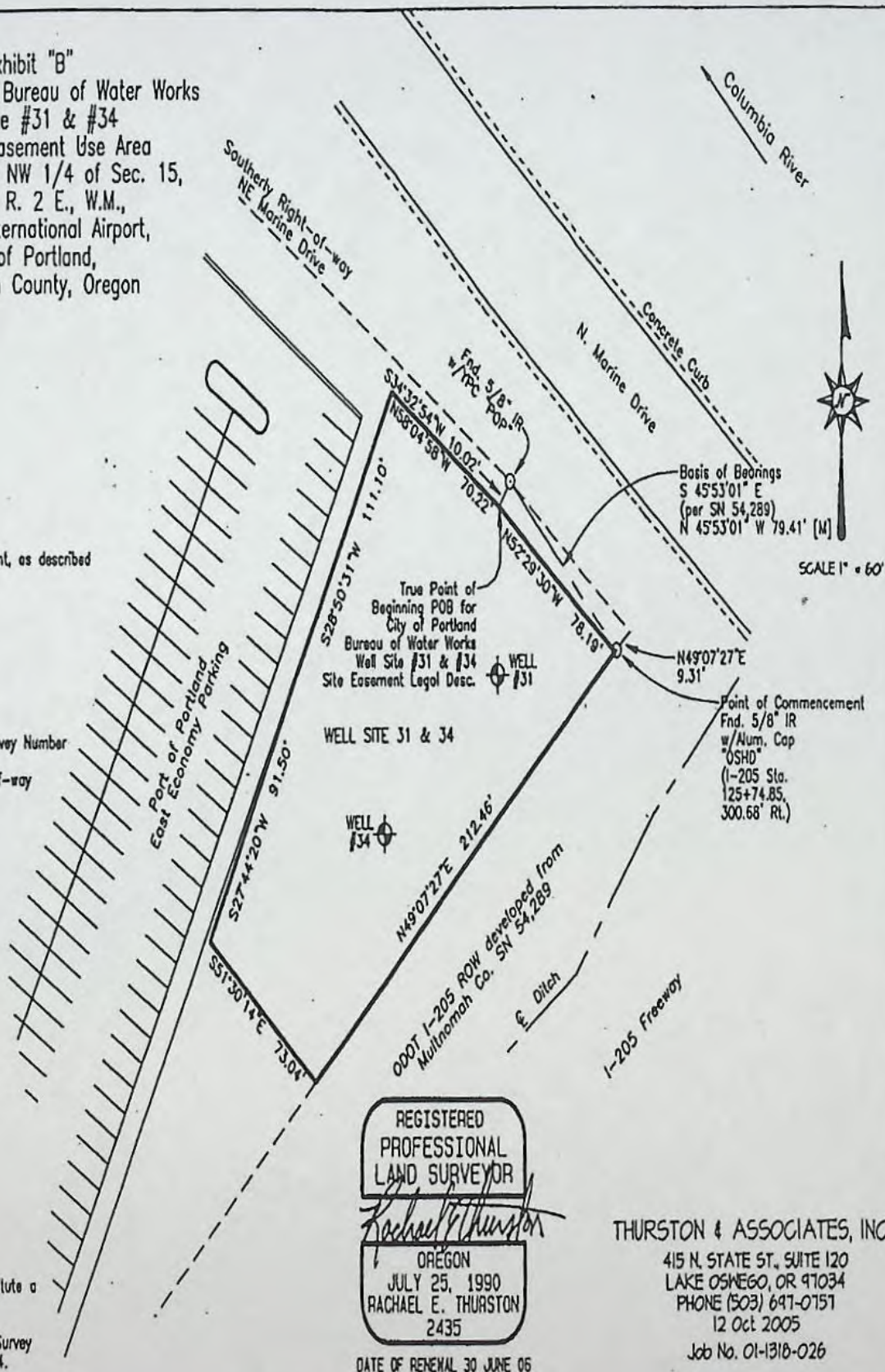
- Found (Fnd.) Monument, as described
- ⊕ Production Well
- IR Iron Rod
- Alum Aluminum
- YPC Yellow Plastic Cap
- SN Multnomah County Survey Number
- Existing ODOT Right-of-way



This easement contains
22,910 square feet, +/-
(0.53 ACRES)

Notes:

1. This Site Plan does not constitute a boundary survey.
2. Reference Multnomah County Survey No. 54,289, filed October 31, 1994.



REGISTERED
PROFESSIONAL
LAND SURVEYOR

Rachael E. Thurston
OREGON
JULY 25, 1990
RACHAEL E. THURSTON
2435

DATE OF RENEWAL 30 JUNE 06

THURSTON & ASSOCIATES, INC.

415 N. STATE ST., SUITE 120
LAKE OSWEGO, OR 97034
PHONE (503) 641-0751
12 Oct 2005
Job No. 01-1318-026

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WATER RESOURCES DEPT
SALEM, OREGON

EXHIBIT "C"

**CITY OF PORTLAND BUREAU OF WATER WORKS WELL SITE 31 & 34
DRAINAGE EASEMENT AREA LEGAL DESCRIPTION**

A DRAINAGE EASEMENT TO BENEFIT THE CITY OF PORTLAND BUREAU OF WATER WORKS WELL SITE 31 & 34 SITUATED IN THE NORTHWEST QUARTER OF SECTION 15, TOWNSHIP 1 NORTH, RANGE 2 EAST, WILLAMETTE MERIDIAN, CITY OF PORTLAND, MULTNOMAH COUNTY, OREGON BEING DESCRIBED AS FOLLOWS:

COMMENCING AT A 5/8-INCH IRON ROD WITH AN ALUMINUM CAP STAMPED "OSHD" ON THE WESTERLY RIGHT-OF-WAY OF ODOT HIGHWAY I-205, SAID MONUMENT BEING 300.68 FEET RIGHT OF HIGHWAY STATION 125+74.85; THENCE, NORTH 45°53'01" WEST, A DISTANCE OF 79.41 FEET TO A 5/8-INCH IRON ROD WITH YELLOW PLASTIC CAP STAMPED "POP" ON THE SOUTHERLY RIGHT OF WAY OF NORTH MARINE DRIVE; THENCE, NORTH 60°40'17" WEST, A DISTANCE OF 61.25 FEET TO THE TRUE POINT OF BEGINNING; THENCE, NORTH 60°40'17" WEST, A DISTANCE OF 10.00 FEET; THENCE, SOUTH 28°28'22" WEST, A DISTANCE OF 195.93 FEET; THENCE, SOUTH 5°56'36" WEST, A DISTANCE OF 11.54 FEET; THENCE, SOUTH 84°03'33" EAST, A DISTANCE OF 10.32 FEET; THENCE, SOUTH 51°30'11" EAST, A DISTANCE OF 50.03 FEET; THENCE, NORTH 38°29'49" EAST, A DISTANCE OF 48.78 FEET; THENCE, NORTH 51°30'01" WEST, A DISTANCE OF 10.00 FEET; THENCE, SOUTH 38°29'49" WEST, A DISTANCE OF 38.78 FEET; THENCE, NORTH 51°30'11" WEST, A DISTANCE OF 45.82 FEET; THENCE, NORTH 28°28'22" EAST, A DISTANCE OF 191.62 FEET TO THE TRUE POINT OF BEGINNING, CONTAINING 2,977 SQUARE FEET (0.07 ACRES) MORE OR LESS.

AS SHOWN ON THE ATTACHED EXHIBIT MAP "EXHIBIT D"
THE BEARINGS IN THIS DESCRIPTION ARE BASED UPON RECORD OF SURVEY
No. 54,289, MULTNOMAH COUNTY SURVEY RECORDS FILED OCTOBER 31, 1994.



DATE OF RENEWAL 30 JUNE 08

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WATER RESOURCES DEPT
SALEM, OREGON

Exhibit "D"
 City of Portland Bureau of Water Works
 Well Site #31 & #34
 Drainage Easement Use Area
 located in the NW 1/4 of Sec. 15,
 T. 1 N., R. 2 E., W.M.,
 Portland International Airport,
 City of Portland,
 Multnomah County, Oregon

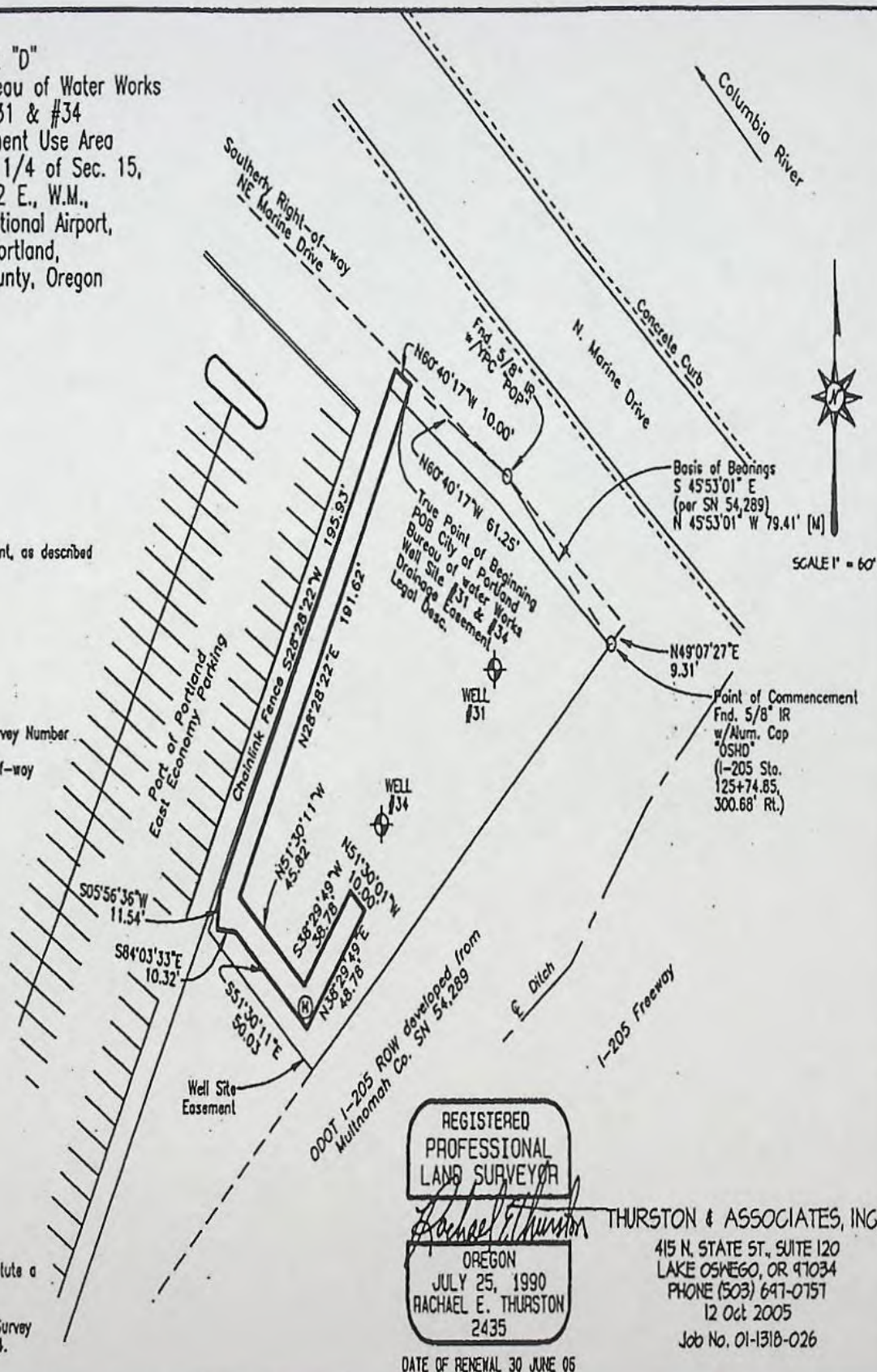
Legend:

- Found (Fnd.) Monument, as described
- ⊕ Production Well
- IR Iron Rod
- Alum Aluminum
- YPC Yellow Plastic Cap
- SN Multnomah County Survey Number
- Existing ODOT Right-of-way
- Fenceline
- Easement

This easement contains
 2,977 square feet, +/-
 (0.07 ACRES)

Notes:

1. This Site Plan does not constitute a boundary survey.
2. Reference Multnomah County Survey No. 54,289, filed October 31, 1994.



REGISTERED
 PROFESSIONAL
 LAND SURVEYOR

Rachael E. Thurston
 OREGON
 JULY 25, 1990
 RACHAEL E. THURSTON
 2435

DATE OF RENEWAL 30 JUNE 06

THURSTON & ASSOCIATES, INC.
 415 N. STATE ST., SUITE 120
 LAKE OSWEGO, OR 97034
 PHONE (503) 647-0751
 12 Oct 2005
 Job No. 01-1318-026

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WATER RESOURCES DEPT
 SALEM, OREGON

EXHIBIT "E"

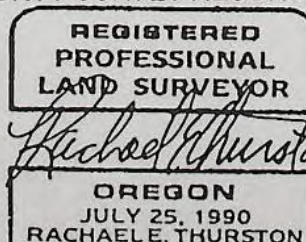
**CITY OF PORTLAND BUREAU OF WATER WORKS WELL SITE 31 & 34
LANDSCAPE EASEMENT AREA LEGAL DESCRIPTION**

A LANDSCAPE EASEMENT TO BENEFIT THE CITY OF PORTLAND BUREAU OF WATER WORKS WELL SITE 31 & 34 SITUATED IN THE NORTHWEST QUARTER OF SECTION 15, TOWNSHIP 1 NORTH, RANGE 2 EAST, WILLAMETTE MERIDIAN, CITY OF PORTLAND, MULTNOMAH COUNTY, OREGON BEING DESCRIBED AS FOLLOWS:

COMMENCING AT A 5/8-INCH IRON ROD WITH AN ALUMINUM CAP STAMPED "OSHD" ON THE WESTERLY RIGHT-OF-WAY OF ODOT HIGHWAY I-205, SAID MONUMENT BEING 300.68 FEET RIGHT OF HIGHWAY STATION 125+74.85; THENCE, NORTH 45°53'01" WEST, A DISTANCE OF 79.41 FEET TO A 5/8-INCH IRON ROD WITH YELLOW PLASTIC CAP STAMPED "POP" ON THE SOUTHERLY RIGHT OF WAY OF NORTH MARINE DRIVE; THENCE SOUTH 34° 32'54" WEST, A DISTANCE OF 10.02 FEET; THENCE NORTH 58° 04'58" WEST A DISTANCE OF 57.56 FEET TO THE TRUE POINT OF BEGINNING; THENCE, SOUTH 35°21'49" WEST, A DISTANCE OF 13.60 FEET; THENCE, SOUTH 28°05'42" WEST A DISTANCE OF 141.08 FEET; THENCE, SOUTH 53°04'45" EAST, A DISTANCE OF 39.43 FEET; THENCE, NORTH 38°52'20" EAST, A DISTANCE OF 8.17 FEET; THENCE, SOUTH 51°15'11" EAST, A DISTANCE OF 28.75 FEET; THENCE, NORTH 38°48'20" EAST, A DISTANCE OF 41.05 FEET; THENCE, NORTH 50°48'45" WEST, A DISTANCE OF 23.54 FEET, TO A POINT OF NON-TANGENCY; THENCE, 30.56 FEET ALONG THE ARC OF A 15.81 FOOT NON-TANGENT RADIUS CURVE TO THE RIGHT (THE RADIUS OF WHICH BEARS SOUTH 79° 49'58" EAST, 15.81 FEET), THROUGH A CENTRAL ANGLE OF 110°46'28" (THE CHORD BEARS NORTH 65°33'16" EAST, 26.02 FEET); THENCE, SOUTH 54°07'45" EAST, A DISTANCE OF 30.73 FEET; THENCE, NORTH 38°51'26" EAST, A DISTANCE OF 32.40 FEET; THENCE, NORTH 51°12'52" WEST, A DISTANCE OF 68.90 FEET, TO A POINT OF NON-TANGENCY; THENCE, 23.05 FEET ALONG THE ARC OF A 15.47 FOOT NON-TANGENT RADIUS CURVE TO THE RIGHT (THE RADIUS OF WHICH BEARS NORTH 38°50'06" EAST, 15.47 FEET), THROUGH A CENTRAL ANGLE OF 85°21'24" (THE CHORD BEARS NORTH 08°29'12" WEST, 20.98 FEET); THENCE, NORTH 32°46'26" EAST, A DISTANCE OF 33.44 FEET; THENCE SOUTH 58° 04'58" EAST, A DISTANCE OF 31.06 FEET, THENCE, SOUTH 52°29'30" EAST, A DISTANCE OF 78.19 FEET TO THE WESTERLY RIGHT OF WAY LINE OF ODOT HIGHWAY I-205 ; THENCE, ALONG SAID WESTERLY RIGHT OF WAY LINE, SOUTH 49°07'26" WEST, A DISTANCE OF 212.46 FEET; THENCE, NORTH 51°30'13" WEST, A DISTANCE OF 73.04 FEET; THENCE, NORTH 27°44'20" EAST, A DISTANCE OF 91.50 FEET; THENCE, NORTH 28°50'31" EAST, A DISTANCE OF 111.10 FEET; THENCE, SOUTH 58°04'58" EAST, A DISTANCE OF 12.66 FEET TO THE TRUE POINT OF BEGINNING, CONTAINING 13,423 SQUARE FEET (0.31 ACRES) MORE OR LESS.

AS SHOWN ON THE ATTACHED EXHIBIT MAP "EXHIBIT F"

THE BEARINGS IN THIS DESCRIPTION ARE BASED UPON RECORD OF SURVEY No. 54,289, MULTNOMAH COUNTY SURVEY RECORDS FILED OCTOBER 31, 1994



DATE OF RENEWAL 30 JUNE 06

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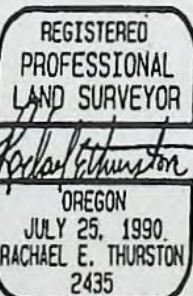
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**WATER RESOURCES DEPT
SALEM, OREGON**

Exhibit "F"
 City of Portland Bureau of Water Works
 Well Site #31 & #34
 Landscaping Easement Use Area
 Located in the NW 1/4 of Sec. 15,
 T. 1 N., R. 2 E., W.M.,
 Portland International Airport,
 City of Portland,
 Multnomah County, Oregon

Legend:

- Found (Fnd.) Monument, as described
- ⊕ Production Well
- IR Iron Rod
- Alum Aluminum
- YPC Yellow Plastic Cap
- SN Multnomah County Survey Number
- Existing ODOT Right-of-way
- Easement



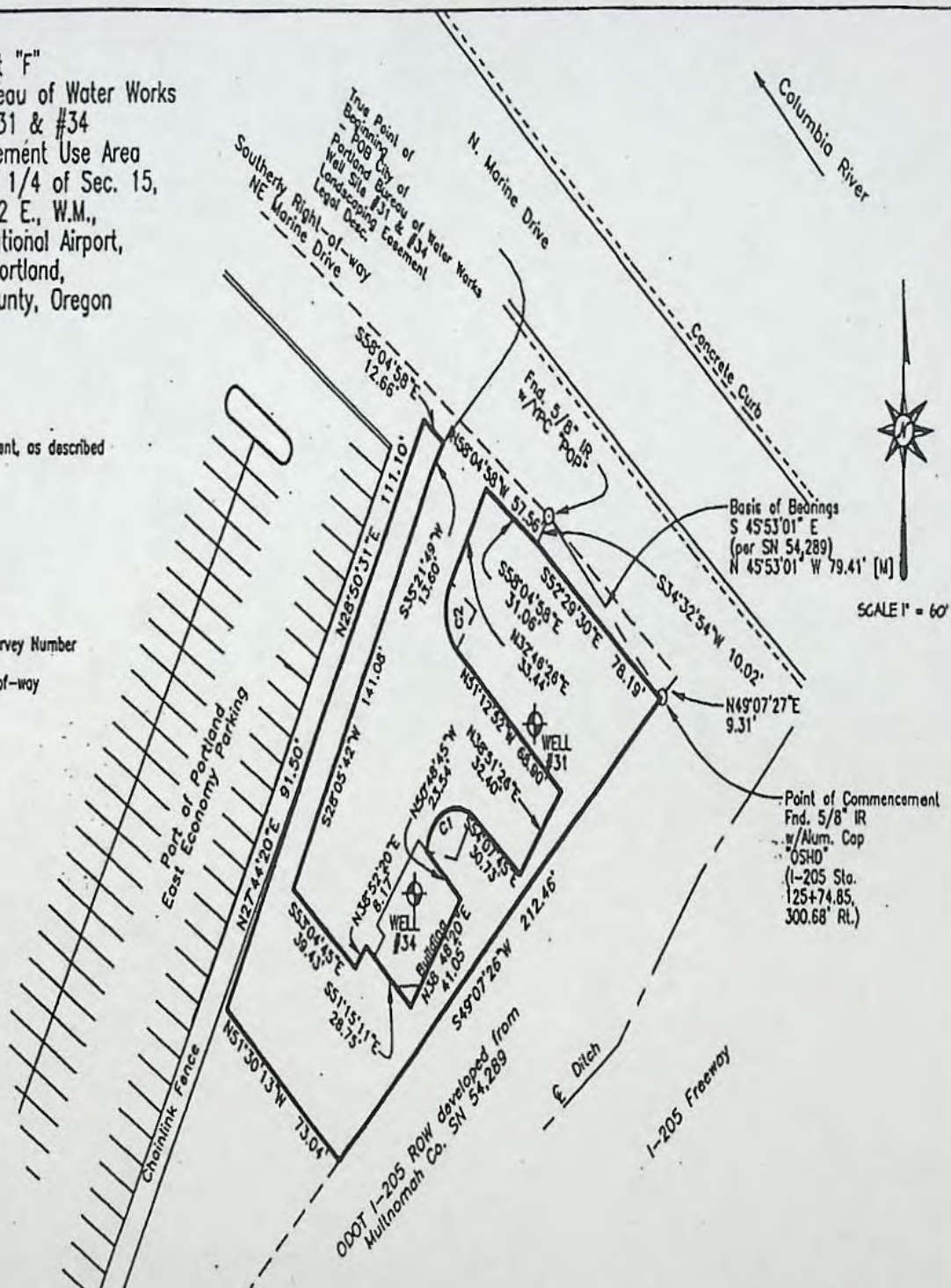
DATE OF RENEWAL 30 JUNE 06

This easement contains
 13,423 square feet, +/-
 (0.31 ACRES)

Notes:

1. This Site Plan does not constitute a boundary survey.
2. Reference Multnomah County Survey No. 54,289, filed October 31, 1994.

CURVE	ARC	RADIUS	DELTA	CHORD	CHORD BEARING	RADIAL BEARING
C1	30.56'	15.81'	110°46'28"	26.02'	N65°33'16"E	S79°49'58"E 15.81'
C2	23.05'	15.47'	85°21'24"	20.98'	N08°29'12"W	N38°50'06"E 15.47'



THURSTON & ASSOCIATES, INC.

415 N. STATE ST., SUITE 120
 LAKE OSWEGO, OR 97034
 PHONE (503) 647-0751
 12 Oct 2005
 Job No. 01-1318-026

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WATER RESOURCES DEPT
 SALEM, OREGON

EXHIBIT "G"

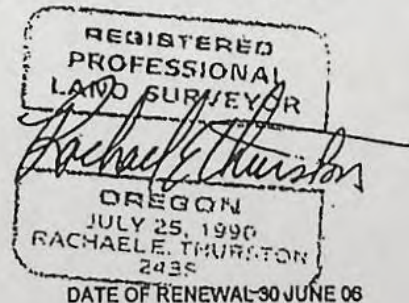
**CITY OF PORTLAND BUREAU OF WATER WORKS WELL SITE 31 & 34
ACCESS EASEMENT AREA LEGAL DESCRIPTION**

AN ACCESS EASEMENT TO BENEFIT THE CITY OF PORTLAND BUREAU OF WATER WORKS WELL SITE 31 & 34 SITUATED IN THE NORTHWEST QUARTER OF SECTION 15, TOWNSHIP 1 NORTH, RANGE 2 EAST, WILLAMETTE MERIDIAN, CITY OF PORTLAND, MULTNOMAH COUNTY, OREGON BEING DESCRIBED AS FOLLOWS:

COMMENCING AT A 5/8-INCH IRON ROD WITH AN ALUMINUM CAP STAMPED "OSHD" ON THE WESTERLY RIGHT-OF-WAY OF ODOT HIGHWAY I-205, SAID MONUMENT BEING 300.68 FEET RIGHT OF HIGHWAY STATION 125+74.85; THENCE, NORTH 45°53'01" WEST, A DISTANCE OF 79.41 FEET TO A 5/8-INCH IRON ROD WITH YELLOW PLASTIC CAP STAMPED "POP" ON THE SOUTHERLY RIGHT OF WAY OF NORTH MARINE DRIVE; THENCE, ALONG SAID RIGHT OF WAY LINE, NORTH 58° 04'15" WEST A DISTANCE OF 31.37 FEET TO THE TRUE POINT OF BEGINNING; THENCE, CONTINUING ALONG SAID RIGHT OF WAY NORTH 58°04'15" WEST, A DISTANCE OF 26.05 FEET; THENCE, SOUTH 35°21'49" WEST, A DISTANCE OF 23.63 FEET; THENCE, S28°05'42" WEST A DISTANCE OF 141.08 FEET; THENCE, SOUTH 53°04'45" EAST, A DISTANCE OF 39.43 FEET; THENCE, NORTH 38°52'20" EAST, A DISTANCE OF 49.22 FEET; THENCE, SOUTH 53°14'39" EAST, A DISTANCE OF 5.21 FEET; TO A POINT OF NON-TANGENCY; THENCE, 30.56 FEET ALONG THE ARC OF A 15.81 FOOT NON-TANGENT RADIUS CURVE TO THE RIGHT (THE RADIUS OF WHICH BEARS SOUTH 79° 49'58" EAST, 15.81 FEET), THROUGH A CENTRAL ANGLE OF 110°46'28" (THE CHORD BEARS NORTH 65°33'16" EAST, 26.02 FEET); THENCE, SOUTH 54°07'45" EAST, A DISTANCE OF 30.73 FEET; THENCE, NORTH 38°51'26" EAST, A DISTANCE OF 32.40 FEET; THENCE, NORTH 51°12'52" WEST, A DISTANCE OF 68.90 FEET, TO A POINT OF NON-TANGENCY; THENCE, 23.05 FEET ALONG THE ARC OF A 15.47 FOOT NON-TANGENT RADIUS CURVE TO THE RIGHT (THE RADIUS OF WHICH BEARS NORTH 38°50'06" EAST, 15.47 FEET), THROUGH A CENTRAL ANGLE OF 85°21'24" (THE CHORD BEARS NORTH 08°29'12" WEST, 20.98 FEET); THENCE, NORTH 32°46'26" EAST, A DISTANCE OF 43.46 FEET TO THE TRUE POINT OF BEGINNING, CONTAINING 8,568 SQUARE FEET (0.20 ACRES) MORE OR LESS.

AS SHOWN ON THE ATTACHED EXHIBIT MAP "EXHIBIT H"

THE BEARINGS IN THIS DESCRIPTION ARE BASED UPON RECORD OF SURVEY No. 54,289, MULTNOMAH COUNTY SURVEY RECORDS FILED OCTOBER 31, 1994



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**WATER RESOURCES DEPT
SALEM, OREGON**

Exhibit "H"
City of Portland Bureau of Water Works
Well Site #31 & #34
Access Easement Use Area
Located in the NW 1/4 of Sec. 15,
T. 1 N., R. 2 E., W.M.,
Portland International Airport,
City of Portland,
Multnomah County, Oregon

Legend:

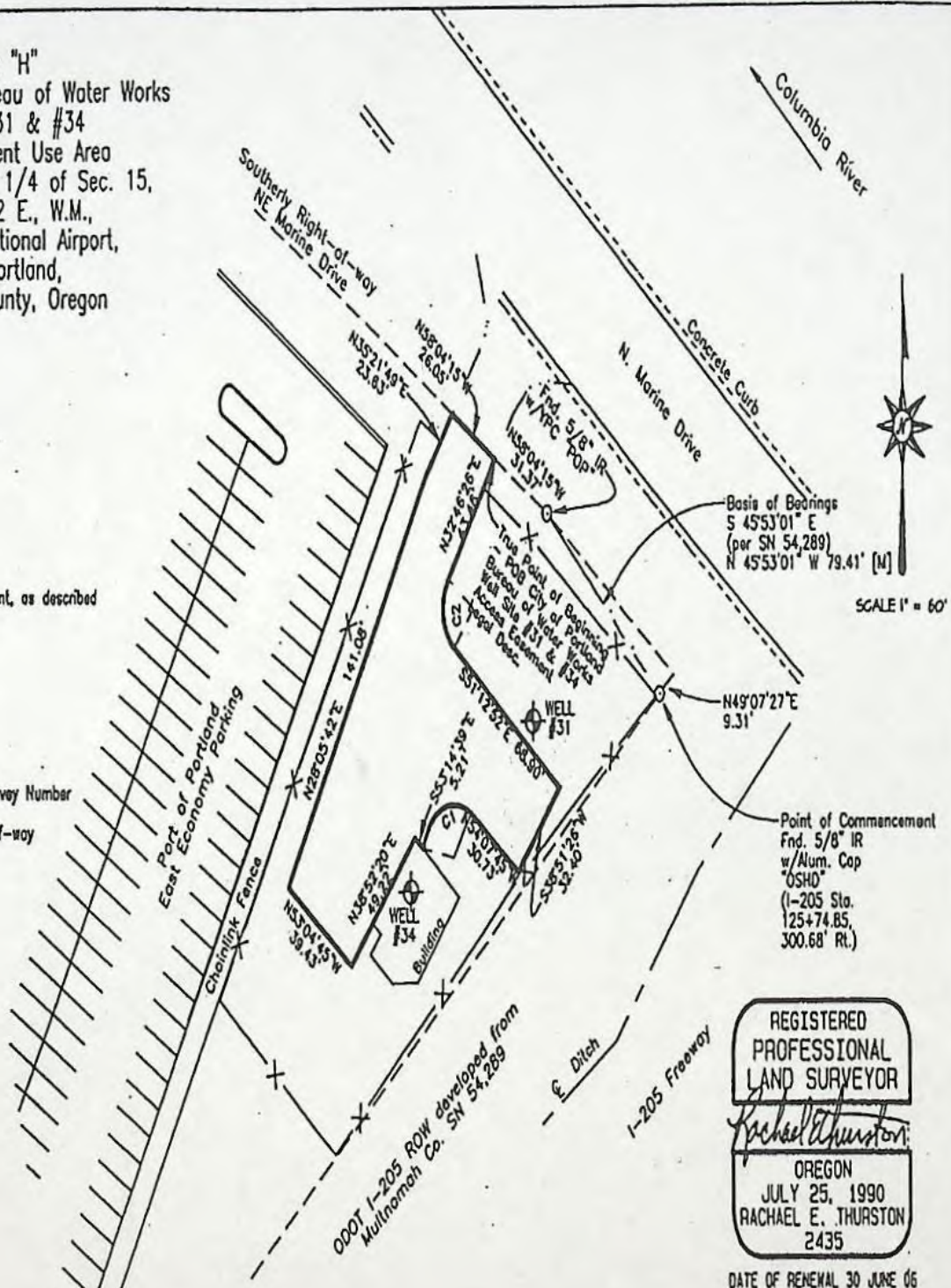
- Found (Fnd.) Monument, as described
- ⊕ Production Well
- IR Iron Rod
- Alum Aluminum
- YPC Yellow Plastic Cap
- SN - Multnomah County Survey Number
- Existing ODOT Right-of-way
- ✕ Fenceline
- Easement

This easement contains
8568 square feet, +/-
(0.2 acres)

Notes:

1. This Site Plan does not constitute a boundary survey.
2. Reference Multnomah County Survey No. 54,289, filed October 31, 1994.

CURVE	ARC	RADIUS	DELTA	CHORD	CHORD BEARING	RADIAL BEARING
C1	30.56'	15.81'	110°46'28"	26.02'	N65°33'16"E	S79°49'58"E 15.81'
C2	23.05'	15.47'	85°21'24"	20.98'	N08°29'12"W	N38°50'06"E 15.47'



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WATER RESOURCES DEPT
SALEM, OREGON

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WATER RESOURCES DEPT
SALEM, OREGON

Exhibit I
**CITY OF PORTLAND BUREAU OF WATER WORKS WELL SITE 31 & 34
ELECTRICAL EASEMENT AREA LEGAL DESCRIPTION
(BETWEEN POP & PPL)**

AN ELECTRICAL EASEMENT BETWEEN THE PORT OF PORTLAND (POP) AND PACIFIC POWER & LIGHT (PPL) TO BENEFIT A CITY OF PORTLAND BUREAU OF WATER WORKS WELL SITE 31 & 34 SITUATED IN THE NORTHWEST QUARTER OF SECTION 15, TOWNSHIP 1 NORTH, RANGE 2 EAST, WILLAMETTE MERIDIAN, CITY OF PORTLAND, MULTNOMAH COUNTY, OREGON BEING DESCRIBED AS FOLLOWS:

COMMENCING AT A 5/8-INCH IRON ROD WITH AN ALUMINUM CAP STAMPED "OSHD" ON THE WESTERLY RIGHT-OF-WAY OF ODOT HIGHWAY I-205, SAID MONUMENT BEING 300.68 FEET RIGHT OF HIGHWAY STATION 125+74.85; THENCE, NORTH 45°53'01" WEST, A DISTANCE OF 79.41 FEET TO A 5/8-INCH IRON ROD WITH YELLOW PLASTIC CAP STAMPED "POP" ON THE SOUTHERLY RIGHT OF WAY OF NORTH MARINE DRIVE; THENCE SOUTH 47° 12'58" WEST, A DISTANCE OF 25.91 FEET TO THE TRUE POINT OF BEGINNING; THENCE NORTH 57°48'33" WEST, A DISTANCE OF 320.42 FEET; THENCE, NORTH 48°21'58" WEST, A DISTANCE OF 91.82 FEET; THENCE, NORTH 44°47'35" WEST, A DISTANCE OF 64.05 FEET; THENCE, NORTH 47°31'35" WEST, A DISTANCE OF 105.07 FEET; THENCE, NORTH 48°22'44" WEST, A DISTANCE OF 147.01 FEET; THENCE, NORTH 47°05'24" WEST, A DISTANCE OF 121.53 FEET; THENCE, NORTH 45°45'26" WEST, A DISTANCE OF 156.26 FEET; THENCE, SOUTH 44°17'23" WEST, A DISTANCE OF 93.32 FEET; THENCE, SOUTH 29°00'53" WEST, A DISTANCE OF 587.78 FEET; THENCE, SOUTH 4°02'30" WEST, A DISTANCE OF 95.56 FEET; THENCE, SOUTH 60°58'59" EAST, A DISTANCE OF 13.30 FEET; THENCE NORTH 29°01'04" EAST, A DISTANCE OF 10.00 FEET; THENCE, NORTH 60°58'59" WEST, A DISTANCE OF 7.96 FEET; THENCE, NORTH 4°02'30" WEST, A DISTANCE OF 84.53 FEET; THENCE, NORTH 29°00'53" EAST, A DISTANCE OF 248.68 FEET; THENCE, SOUTH 60°59'08" EAST, A DISTANCE OF 36.30 FEET; THENCE, NORTH 29°00'53" EAST, A DISTANCE OF 10.00 FEET; THENCE, NORTH 60°59'08" WEST, A DISTANCE OF 36.30 FEET; THENCE, NORTH 29°00'53" EAST, A DISTANCE OF 327.77 FEET; THENCE, NORTH 44°17'23" EAST, A DISTANCE OF 77.36 FEET; THENCE, SOUTH 47°34'01" EAST, A DISTANCE OF 146.72 FEET; THENCE, SOUTH 47°05'24" EAST, A DISTANCE OF 121.50 FEET; THENCE, SOUTH 48°22'44" EAST, A DISTANCE OF 147.05 FEET; THENCE, SOUTH 47°31'35" EAST, A DISTANCE OF 104.76 FEET; THENCE, SOUTH 44°47'35" EAST, A DISTANCE OF 64.12 FEET; THENCE, SOUTH 48°21'58" EAST, A DISTANCE OF 92.96 FEET; THENCE, SOUTH 57°48'33" EAST, A DISTANCE OF 301.99 FEET; THENCE, SOUTH 41°06'06" WEST, A DISTANCE OF 11.07 FEET; THENCE, SOUTH 57°48'33" EAST, A DISTANCE OF 17.64 FEET; THENCE, NORTH 41°14'39" EAST, A DISTANCE OF 21.20 FEET; TO THE TRUE POINT OF BEGINNING, CONTAINING 18,580 SQUARE FEET (0.43 ACRES) MORE OR LESS.

AS SHOWN ON THE ATTACHED EXHIBIT MAP OF WELL SITE 34 "ELECTRICAL EASEMENT"

THE BEARINGS IN THIS DESCRIPTION ARE BASED UPON RECORD OF SURVEY No. 54,289, MULTNOMAH COUNTY SURVEY RECORDS FILED OCTOBER 31, 1994.



DATE OF RENEWAL 30 JUNE 06

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SALEM, OREGON

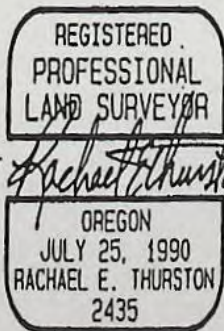
Exhibit J

City of Portland Bureau of Water Works
Well Site #31 & #34
Electrical Easement
Located in the NW 1/4 of Sec. 15,
T. 1 N., R. 2 E., W.M.,
Portland International Airport,
City of Portland,
Multnomah County, Oregon

This easement contains
18,850 square feet, +/- (0.43 ACRES)

Legend:

- Found (Fnd.) Monument, as described
- ⊕ Production Well
- IR Iron Rod
- Alum Aluminum
- YPC Yellow Plastic Cap
- SN Multnomah County Survey Number
- Existing ODOT Right-of-way
- X- Fenceline
- Easement



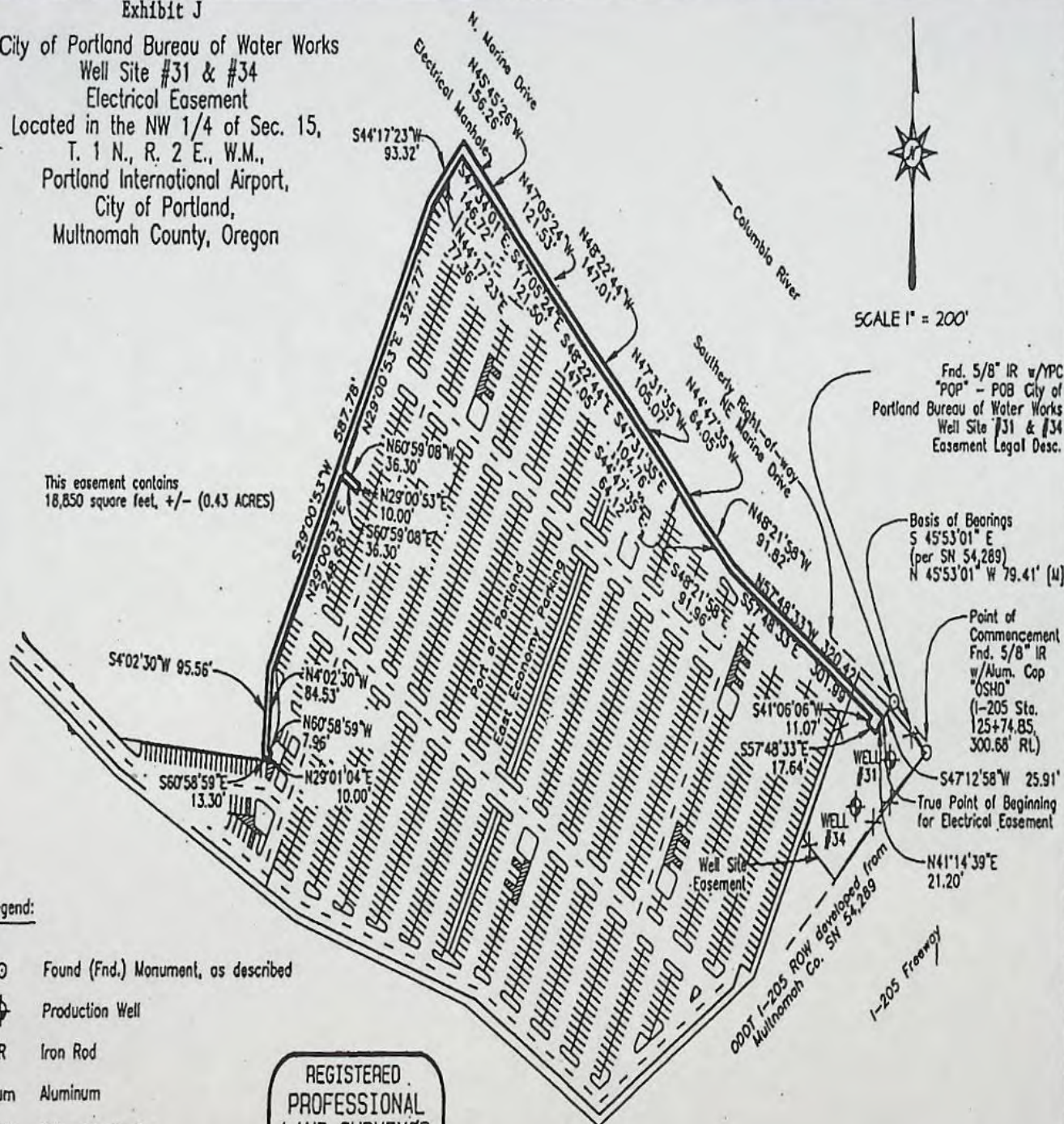
DATE OF RENEWAL 30 JUNE 06

Notes:

1. This Site Plan does not constitute a boundary survey.
2. Reference Multnomah County Survey No. 54,289, filed October 31, 1994.

THURSTON & ASSOCIATES, INC.

415 N. STATE ST., SUITE 120
LAKE OSWEGO, OR 97034
PHONE (503) 647-0757
12 Oct 2005
Job No. 01-1318-026



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WATER RESOURCES DEPT
SALEM, OREGON

Oregon Water Resources Department
Water Rights Division



Water Rights Application
Number G-11354

Final Order
Extension of Time for Permit Number G-10479

PW #34

Appeal Rights

This is a final order in other than a contested case. This order is subject to judicial review under ORS 183.484. A request for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either file for judicial review, or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.

Application History

The Department issued Permit G-10479 on February 25, 1980. The permit called for completion of construction by October 1, 1986, and complete application of water to beneficial use by October 1, 1987. On October 31, 2003, the City of Portland submitted an application to the Department for an extension of time for Permit G-10479. In accordance with OAR 690-315-0050(2), on August 4, 2009, the Department issued a Proposed Final Order proposing to extend the time to complete construction to October 1, 2085 and to extend the time to fully apply water to beneficial use to October 1, 2085. The protest period closed September 18, 2009, in accordance with OAR 690-315-0060(1). No protest was filed.

At time of issuance of the Proposed Final Order the Department concluded that, based on the factors demonstrated by the applicant, the permit may be extended subject to the following conditions:

CONDITIONS

1. **Development Limitations**

Diversion of any water beyond 4.75 cfs under Permit G-10479 shall only be authorized upon issuance of a final order approving a Water Management and Conservation Plan (WMCP) under OAR Chapter 690, Division 86. The required WMCP shall be submitted to the Department within 3 years of an approved extension of time application. Use of water under Permit G-10479 must be consistent with this and subsequent WMCP's approved under OAR Chapter 690, Division 86 that is on file with the Department.

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SALEM, OREGON

The deadline established in this PFO for submittal of a WMCP shall not relieve a permit holder of any existing or future requirement for submittal of a WMCP at an earlier date as established through other orders of the Department. A WMCP submitted to meet the requirements of this order may also meet the WMCP submittal requirements of other Department orders.

2. Persistence of Fish Conditions

A. Minimum Fish Flow Needs

Minimum fish flow needs on the Columbia River as recommended by ODFW are in Table 1, below; flows must be measured as the total outflow discharge from Bonneville Dam (as determined by the U.S. Army Corps of Engineers Division of Water Management) or an equivalent measurement thereof.

Table 1

MINIMUM FISH FLOW NEEDS ON THE COLUMBIA RIVER AT BONNEVILLE DAM	
Month	Cubic Feet per Second
April 1 – April 30	183,000
May 1 – May 31	328,000
June 1 – June 30	471,000
July 1 – July 31	325,000
August 1 – August 31	184,000
Sept. 1 – Sept. 30	117,000

B. Determining Water Use Reductions - Overview

The use of the undeveloped portion of Permit G-10479 that impacts Columbia River surface water and legally can be diverted must be reduced in proportion to the amount by which the flows shown in Table 1 are not met based on a seven day rolling average of mean daily flows measured on the Columbia River at Bonneville Dam (measured as the total outflow discharge from Bonneville Dam - as determined by the U.S. Army Corps of Engineers Division of Water Management - or an equivalent measurement thereof). This reduction will be adjusted by (1) a Consumptive Use Percentage, when applicable, as per Item 2.D., below, and (2) all or a portion of the Actual HCP Flows as described in Item 2.E., below. The overall reduction to the maximum total amount of the undeveloped portion of the permit that impacts Columbia River surface water and legally can be diverted will not exceed 20%.

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C. Percent of the Undeveloped Portion with Impacts on Surface Water.

For the purpose of calculating the amount of the undeveloped portion of Permit G-10479 that can be diverted as a result of this fish persistence condition, 9.6% of the undeveloped portion under this permit impacts Columbia River surface water.

D. "Consumptive Use Percentages"

a. Initial Consumptive Use Percentages

Initial Consumptive Use Percentages for the City of Portland to adjust water use reductions for the purpose of calculating the amount of the undeveloped portion of Permit G-10479 that can be diverted as a result of this fish persistence condition are as shown in the Table 3, below. Utilization of Initial Consumptive Use Percentages is subject to an approval period described in 2.D.e, below.

Table 3

Month	Initial Consumptive Use Percentages
April	3.4%
May	15.4%
June	29.6%
July	42.7%
August	42.5%
September	29.1%

b. Consumptive Use Percentages Updates

Continuing the utilization of Consumptive Use Percentages for the purpose of calculating the amount of the undeveloped portion of Permit G-10479 that can be diverted as a result of this fish persistence condition beyond an approval period (as described in 2.D.e, below) is contingent upon the City submitting updated Consumptive Use Percentages and receiving the Water Resources Director's concurrence with the Consumptive Use Percentages Updates. Utilization of Consumptive Use Percentages Updates is subject to an approval period described in 2.D.e, below.

The updates to the Consumptive Use Percentages must (1) be specified as a percentage (may be to the nearest 1/10 percent) for each month, April through September, and (2) include a description and justification of the methods utilized to determine the percentages. The updates should be submitted on the *Consumptive Use Percentages Update Form* provided with the Final Order for this extension of time.

c. Changes to Wastewater Technology and/or Wastewater Treatment Plant

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SALEM, OREGON

Practices

If there are changes to either wastewater technology or the practices at the Columbia Boulevard Wastewater Treatment Plant (WWTP) resulting in 25% or more reductions in average monthly return flows to the Columbia River, then the Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the amount of the undeveloped portion of Permit G-10479 that can be diverted as result of this fish persistence condition. The 25% reduction is based on a 10-year rolling average of monthly wastewater return flows to the Columbia River as compared to the average monthly wastewater return flows from the years 2000 to 2009.

If such changes to the Columbia Boulevard WWTP occur resulting in 25% reductions, further utilization of Consumptive Use Percentages is contingent upon the City submitting Consumptive Use Percentages Updates as per 2.D.b., above, and receiving the Water Resources Director's concurrence with the updated Consumptive Use Percentages.

d. Relocation of the Point(s) of Diversion(s) and/or Return Flows

If the point(s) of diversion(s) and/or return flows are relocated, Consumptive Use Percentages in effect at that time may no longer be utilized for the purposes of calculating the amount of the undeveloped portion of Permit G-10479 that can be diverted as result of this fish persistence condition.

After relocation of the point(s) of diversion(s) and/or return flows, further utilization of Consumptive Use Percentages is contingent upon the City (1) providing evidence in writing that ODFW has determined that any relocated withdrawal points and effluent discharge points are within reasonable proximity to each other, such that fish habitat between the two points is not impacted significantly, and (2) submitting Consumptive Use Percentages Updates as per 2.D.b., above, and receiving the Water Resources Director's concurrence with the updated Consumptive Use Percentages.

e. Approval Periods for Utilization of Consumptive Use Percentages

The utilization of Consumptive Use Percentages for the purpose of calculating the maximum total amount of the undeveloped portion of Permit G-10479 that can be diverted as a result of this fish persistence condition may continue for a 10 year approval period that begins from either (1) the date of the Extension Final Order, or (2) 10 years from the Water Resources Director's most recent date of concurrence with Consumptive Use Percentages Updates as evidenced by the record, unless sections 2.D.c, or 2.D.d. (above) are applicable.

Consumptive Use Percentages Updates which are submitted and receive the Director's concurrence will begin a new 10 year approval period. The approval period begins on the date of the Water Resources Director's concurrence with Consumptive Use Percentages Updates, as evidenced by the record. The City at its discretion may submit updates prior to the end of an approval period.

E. Adjustments by Actual HCP Flows

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SALEM, OREGON

HCP Flows are defined as the instream flows provided to the Lower Bull Run River by the City of Portland in response to its Bull Run Water Supply Habitat Conservation Plan (HCP) habitat conservation measure 7.2.1 (UTL-2.07, Instream Flow Measures in the Lower Bull Run River, pgs 7-6 to 7-13). The quantification of HCP flows will be based on a seven day rolling average of mean daily flows measured on the Bull Run River near Bull Run, Oregon (USGS GAGE No. 1414000, or its equivalent). HCP flows based this seven day rolling average are referred to as Actual HCP Flows.

For the purpose of calculating the amount of the undeveloped portion of Permit G-10479 that can be diverted as a result of this fish persistence condition, all or a portion of the Actual HCP Flows may be utilized to offset water use reductions. The total sum of all HCP flow adjustments made to any combination of undeveloped portions reduced under Permits G-8755, G-10124, G-10455 and/or G-10479 as a result of extension fish persistence conditions may not exceed the Actual HCP Flows for any seven day rolling average period.

F. Examples

Example 1:

If on April 15, the last seven mean daily flows were 208,100; 206,200; 201,400; 202,300; 190,900; 182,100; and 180,300 cfs; the seven day rolling average is 195,900 cfs. The use of the maximum total amount of the undeveloped portion of the permit that legally could be diverted would not be reduced because the 7 day average of mean daily flows is greater than the 183,000 cfs target flow during the month of April.

Example 2:

Step 1: If on July 15, the average of the last seven mean daily flows was 111,200 cfs, the target flow would be missed by 65.8%. The use of the maximum total amount of the undeveloped portion of the permit that legally could be diverted would be reduced because the 7 day average of mean daily flows is less than the 325,000 cfs target flow during the month of July.

$$(100 - [(111,200 / 325,000) \times 100\%]) = 65.8\%$$

Step 2: If the maximum total amount of the undeveloped portion of the permit that legally can be diverted under a permit is 5.0 cfs and 9.6% of the undeveloped portion impacts Columbia River surface water, then the maximum total amount of the undeveloped portion of the permit with surface water impacts and legally can be diverted would be 0.48 cfs.

$$(5.0 \text{ cfs} \times [9.6\% / 100]) = 0.48 \text{ cfs}$$

Note: In Steps 3 – 5, the maximum total amount of the undeveloped portion of

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SALEM, OREGON

the permit with surface water impacts and legally can be diverted will be referred to as the "qualified undeveloped portion."

- Step 3: Assuming the Consumptive Use Percentage is 42.7% during the month of July and the utilization of this percentage is authorized, and the flow target is missed by 65.8% (from Step 1), then the reduction to the qualified undeveloped portion would 28.1%.

$$([65.8\% \times 42.7\%] / 100) = 28.1\%$$

(If adjustments are not to be made by a Consumptive Use Percentage, the qualified undeveloped portion would be reduced only by the % by which the target flow is missed – 65.8% in this example).

- Step 4: In this example, the reduction to the qualified undeveloped portion due to the missed target flow percentage adjusted by the Consumptive Use Percentage would be 0.13 cfs.

$$(0.48 \text{ cfs} \times [28.1\% / 100]) = 0.13 \text{ cfs}$$

- Step 5: Assuming the Actual HCP Flows were 20.0 cfs, and 19.95 cfs is utilized to offset reductions in other South Shore Columbia Well Field permits, 0.05 cfs of the Actual HCP Flows would be available to offset reductions in G-10479. The 0.13 cfs determined in Step 4 would be decreased by 0.05 cfs, ending with an overall reduction to the qualified undeveloped portion of 0.08 cfs.

$$(0.13 - [20.0 \text{ cfs} - 19.95 \text{ cfs}]) = 0.08 \text{ cfs}$$

- Step 6: This 0.08 cfs reduction is 16.6% of 0.48 cfs (the maximum total amount of the undeveloped portion of the permit with surface water impacts and legally can be diverted as calculated in Step 2). This 16.6% does not exceed the 20% maximum overall reduction.

$$([0.08 / 0.48] \times 100\%) = 16.6\%$$

- Step 7: In this example, the maximum total amount of the undeveloped portion of the permit that legally could be diverted under the permit under this condition would be 4.92 cfs

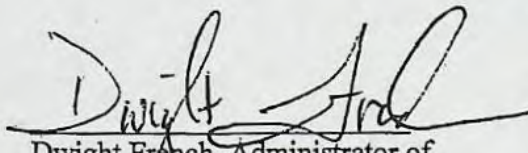
$$(5.0 \text{ cfs} - 0.08 \text{ cfs}) = 4.92 \text{ cfs}$$

The applicant has demonstrated good cause for the permit extension pursuant to ORS 537.630, 539.010(5) and OAR 690-315-0080(3).

Order

The extension of time for Application G-11354, Permit G-10479, therefore, is approved subject to conditions contained herein. The deadline for completing construction is extended to October 1, 2085. The deadline for applying water to full beneficial use is extended to October 1, 2085.

DATED: October 6, 2009



Dwight French, Administrator of
Water Rights and Adjudications
for
Phillip C. Ward, Director

If you have any questions about statements contained in this document, please contact Scott Kudlemyer at (503) 986-0813.

If you have other questions about the Department or any of its programs, please contact our Water Resources Customer Service Group at (503) 986-0900.

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**WATER RESOURCES DEPT
SALEM, OREGON**

November 7, 1995

Thom Warren
Portland Water Bureau
1120 SWW 5th Avenue
Portland, OR 97204-1926

USER-ID: 1205

With regard to the pump test requirements for the following wells and associated water rights:

POD-ID: 11974

PERMIT: G-10479

The Department has received your request for a multiple well exemption for POD-ID 11974 based on a previous test of POD-ID 11978. Because of the large volume of correspondence we receive regarding this program, we are not able to respond as promptly to your request as we would like.

However, our review indicates that the well to be tested and the well previously tested:

- are located within a five-mile radius and
- appear to be completed in the same water-bearing zone.

Therefore, the Department is granting the exemption. This means that the additional well need not be tested. This exemption is valid **only if both wells are owned by the same landowner.**

We appreciate your cooperation in this program. If you have any questions, please contact Marilyn Baker at 378-8455, ext 289, or myself at the address or phone number listed below.

Sincerely,

Marilyn Baker
for

FRED LISSNER, Manager
Groundwater/Hydrology Section

cc: Water Rights Section

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

9



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

April 15, 2010

David G. Shaff, Administrator
City of Portland Water Bureau
1120 SW 5th Avenue
Portland, Oregon 97204

SUBJECT: Water Management and Conservation Plan

Dear Mr. Shaff

Thank you for your response to my review of your water management and conservation plan.

Enclosed is the proposed final order approving your water management and conservation plan. Pursuant to OAR 690-086-0915 (2002), the City or any person who provided comments in response to the public notice of submittal of the plan may appeal this order to the Water Resources Commission within 30 days of the mailing of this notification.

We appreciate your cooperation in this effort. Please do not hesitate to call me at 503-986-0887 if you have any questions.

Sincerely,

Bill

Bill Fujii, NRS III
Field Services Division

Enclosure

C Lisa Brown WWO

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(10)

**BEFORE THE WATER RESOURCES DEPARTMENT
OF THE
STATE OF OREGON**

In the Matter of the Proposed Water)	NOTIFICATION AND PROPOSED
Management and Conservation Plan for)	FINAL ORDER APPROVING
City of Portland, Multnomah County)	WATER MANAGEMENT AND
)	CONSERVATION PLAN

Authority

OAR Chapter 690, Division 086, establishes the process and criteria for approving water management and conservation plans required under the conditions of permits, permit extensions and other orders of the Department. An approved water management plan may authorize the diversion and use of water under a permit extended pursuant to OAR Chapter 690, Division 315.

Background

On March 31, 2008, the City of Portland submitted a draft Water Management and Conservation Plan (WMCP) for review under OAR Chapter 690, Division 086 (November 2002). Submittal of the plan is required under a previously approved WMCP, under conditions of various permits and an order extending the authorized date on a permits.

The Department published notice of receipt of the plan on April 1, 2008. Comments were received from WaterWatch of Oregon.

The Department provided comments on the plan to the City on June 27, 2008 and, in response, the City submitted a revised plan on March 8, 2010.

Findings of Fact

1. The City of Portland Water Management and Conservation Plan contains all of the plan elements required under OAR 690-086-0125. The projections of future water needs in the plan demonstrate a need for over 53.39 million gallons per day of water available under Permits G-8755, G-10124, G-10455, and G-10479 to meet demands for the population anticipated in 20 years. These projections are reasonable and consistent with the City's land use plan. The City requires wholesale customers to submit a WMCP. Those WMCP's must be consistent with related land use plans for the local entities.
2. The plan includes 5-year benchmarks for implementation of rate study, pilot test of reuse, education program, technical services, meter testing and replacement. The

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system is fully metered and the rate structure includes a base rate and volumetric charge. Unaccounted-for water is estimated at six percent.

3. The plan includes 5-year benchmarks for evaluation, development, and implementation of programs to perform a rate study and a pilot test of reuse.
4. The plan identifies the Bull Run River, ground water and Crystal Springs Creek as the source of the City's water rights and accurately and completely describes the City's Habitat Conservation Plan (HCP) consistent with the Federal Endangered Species Act.
5. The water curtailment element included in the plan satisfactorily promotes water curtailment practices and includes a list of four stages of alert with concurrent curtailment actions.
6. The diversion of water in the existing well field will be expanded under Permits G-8755, G-10124, G-10455, and G-10479. Use from these permits will be initiated during the next 20 years and consistent with OAR 690-086-0130(7):
 - a. The plan includes a schedule for development of a combination of existing and new conservation measures that provide water at a cost that is equal to or lower than the cost the use of the existing and expanded well field.
 - b. Use of the additional wells in the well field increases the reliability of the City's water supplies particularly in times of shortage due to drought or catastrophe. Increased use from the source is the most feasible and appropriate water supply alternative available to the supplier.
 - c. The plan contains documentation that the supplier is complying with mitigation requirements under the HCP developed in cooperation with the Federal action agencies.

Determination and Proposed Action

The water management and conservation plan submitted by the City of Portland appears to be consistent with the criteria in OAR Chapter 690, Division 086. If appeals are not filed pursuant to OAR 690-086-0915(10), the water management and conservation plan will be approved.

If the water management and conservation plan is approved, the final order will include the following:

1. The City of Portland Water Management and Conservation Plan is approved and shall remain in effect until March 31, 2020 unless this approval is rescinded pursuant to OAR 690-086-0920.
2. The limitation of the diversion of water under Permits G-8755, G-10124, G-10455, and G-10479 established by the extension of time approved on October 6, 2009 is

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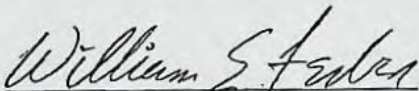
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removed and, subject to other limitations or conditions of the permit, the City of Portland is authorized to divert up to 82.59 cfs under Permits G-8755, G-10124, G-10455, and G-10479. This use does not allow the use of water in excess of any individual permit limitations.

3. The City of Portland shall submit an updated plan within ten years and no later than March 31, 2020 and shall submit a progress report containing the information required under OAR 690-086-0120(4) by March 31, 2015.

Dated at Salem, Oregon this 15th day of April, 2010


for Phillip C. Ward, Director

Appeals should be addressed to the attention of: Bill Fujii

Appeals deadline: MAY 20 2010

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Pumping Rate of CSSW

Hourly Average Data

Pumping Rate in GPM

SCADA ID	W34FI011
AQUIFER	SGA
WELL #	34
01/21/2012 00:00	1
01/21/2012 01:00	1
01/21/2012 02:00	1
01/21/2012 03:00	1
01/21/2012 04:00	1
01/21/2012 05:00	1
01/21/2012 06:00	1
01/21/2012 07:00	1
01/21/2012 08:00	1
01/21/2012 09:00	1
01/21/2012 10:00	1
01/21/2012 11:00	1
01/21/2012 12:00	1
01/21/2012 13:00	1
01/21/2012 14:00	1
01/21/2012 15:00	2
01/21/2012 16:00	1389
01/21/2012 17:00	3306
01/21/2012 18:00	3288
01/21/2012 19:00	3276
01/21/2012 20:00	3263
01/21/2012 21:00	3234
01/21/2012 22:00	3222
01/21/2012 23:00	3203
01/22/2012 00:00	3195
01/22/2012 01:00	3183

3256
7.3 cfs

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GWPS SCADA SNAPSHOT
IN MGD

01/21/2012 17:00	0
01/21/2012 18:00	29
01/21/2012 19:00	64
01/21/2012 20:00	85
01/21/2012 21:00	84
01/21/2012 22:00	84
01/21/2012 23:00	84
01/22/2012 00:00	84
01/22/2012 01:00	84
01/22/2012 02:00	84
01/22/2012 03:00	84

107.1 cfs

69.2 MGD AVG = 107.1 cfs

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