

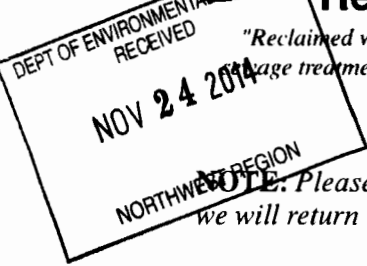


Oregon Water Resources Department

RM-201

Registration No. (Dept. Use Only)

Registration of Reclaimed Municipal Water Use



"Reclaimed water" means water that has been used for municipal purposes and after such use has been treated in a sewage treatment system and that, as a result of treatment, is suitable for a direct beneficial purpose or a controlled use that could not otherwise occur. (ORS 537.131 and 537.132)

NOTE: Please type or print in dark ink. If your registration is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply to your registration, insert "n/a."

Registrant(s) AAT Lloyd District, LLC (owner of the land where reclaimed water is to be used)

Mailing Address 700 NE Multnomah, Suite 300

Portland City OR 97232 Zip (503)233-5696 Daytime Telephone No.

- 1. Municipal Discharge Permit

NPDES Permit No. Effective Date Expiration Date

WPCF Permit No. 103094 Effective Date 10-10-2014 Expiration Date 9-30-2024

Date use of Reclaimed Water began, or is scheduled to begin 5-1-2015

Annual Period of Use: from January 1 to December 31

- 2. Supplier of the Municipal Water which produces the Reclaimed Water

If more than one supplier is used, please provide a list in the Remarks section on page 4.

Name of Supplier City of Portland Water Bureau

Address 1120 SW 5th Avenue, Suite 600, Portland, OR 97204

Telephone No. (503)823-7404 Fax No.

Original Source of Municipal Supply Bull Run

- 3. Supplier of Reclaimed Water

RECEIVED BY OWRD

Name of Supplier AAT Lloyd District, LLC

DEC 01 2014

Name of Facility Hassalo on 8th

Street Address of Facility 700 NE Multnomah, Portland, OR 97232

SALEM, OR

Name of Facility Owner AAT Lloyd District, LLC

Address of Facility Owner 700 NE Multnomah, Suite 300, Portland, OR 97232

Telephone No. of Supplier (503)233-5696 Telephone No. of Facility (503)233-5696

Fax No.

**- 4. User of Reclaimed Water** \_\_\_\_\_

Name of Water User Hassalo on 8th

Address 700 NE Multnomah, Portland, OR 97232

Telephone No. \_\_\_\_\_ Fax No. \_\_\_\_\_

**- 5. Agreement/Contract** \_\_\_\_\_

Period of Agreement and Contract NA

Term of Agreement \_\_\_\_\_

Special Limitations \_\_\_\_\_

**- 6. Total Amount of Reclaimed Water** \_\_\_\_\_

Enter the amount to be applied to beneficial use:

\_\_\_\_\_ cubic feet per second, OR 30 gallons per minute

If reclaimed water is to be used from more than one treatment facility, give the quantity from each.

**- 7. Intended Use(s) of Reclaimed Water** \_\_\_\_\_

Toilet flushing - 13,869 gpd; Irrigation - 2,478 gpd; Cooling Tower - 3,998 gpd; Groundwater REcharge - 24,866 gpd  
(If for more than one use, give the quantity of reclaimed water from each treatment facility for each use.)

If for **IRRIGATION**, or other land application, state the **TOTAL** number of acres to receive reclaimed water under each use;

Irrigation 1.28 acres

Other (describe) \_\_\_\_\_

(Temperature Control, Mitigation, Wetland, etc.)

**- 8. Description of Delivery System** \_\_\_\_\_

Include dimensions and type of construction of diversion works, length and dimensions of supply ditches or pipelines, size and type of pump and motor. If for irrigation, describe the type of system (i.e., flood, wheel line, hand line, drip, other).

Toilet flushing and irrigation: Flowtherm VS70 duplex pump - 200gpm at 388 ft head. Irrigation system consists of Rainbird XFD09-12 subsurface drip tubing in 52 zones.

Cooling tower and flush water in BLDG 700: Goulds SS 33ESV-5/2 duplex pump - 150 gpm at 400 ft head.

Drywells: Flowtherm VS70 duplex pump - 30 gpm at 80 ft head.

**- 9. Existing Water Rights** \_\_\_\_\_

Please provide a description of all the existing water rights appurtenant to the lands where the reclaimed water will be applied.

Application No. NA Permit No. \_\_\_\_\_

Certificate No. \_\_\_\_\_ Decree vol & pg \_\_\_\_\_

(Only one number needs to be provided. Attach a separate list if more than one water right is involved.)

RECEIVED BY OWRF

DEC 01 2014

SALEM, OR

DEC 01 2014

**-10. Property Ownership**

SALEM, OR

Do you own all the land where you propose to divert, transport and use water?

- Yes (Skip to section no. 11 "Historic Disposal Method")
- No (Please check the appropriate box below and, in the **Remarks** section, list the names and addresses of all affected landowners.\*\*)
- I have a recorded easement or written authorization permitting access.
- I do not currently have written authorization or an easement permitting access.

\*\*If more than 25 landowners are involved, a list is not required. Contact WRD for instructions.

**-11. Historic Disposal Method**

Has the reclaimed water being registered in this process been discharged into a natural watercourse for 5 or more years?

- No (Skip to section no. 12 "Signature")
- Yes (Please answer the following questions)

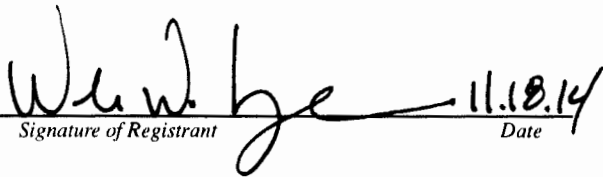
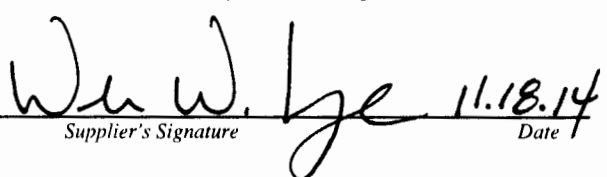
a) Name of the receiving natural watercourse: \_\_\_\_\_

b) Description of the location where the discharge historically entered the natural watercourse: \_\_\_\_\_

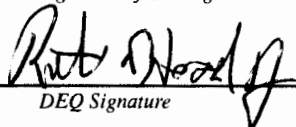
c) Does the amount of reclaimed water proposed for use under this registration represent 50% or more of the total average daily flow of the natural watercourse?  Yes  No

**-12. Signature**

I/We certify that the information provided in this application is an accurate representation of the proposed reclaimed water use and is true and correct to the best of my knowledge:


11.18.14
Date

11.18.14
Date

Signature of Co-Registrant
Title
Date


11/24/2014
Date

**NOTE:** This registration must be accompanied by a map which shows the location of the treatment plant, approximate location of conveyance system (pipelines, canals, etc.) and place of use. The map must be drawn to scale with the scale stated on the map. The land area where the reclaimed water is to be applied shall be identified on the map. Topographic maps with the facilities and place of use shown will meet the map requirement.



## PARRETT Steve W

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**From:** HOOD Robert <robert.hood@state.or.us>  
**Sent:** Thursday, October 30, 2014 12:17 PM  
**To:** Katie Bohren; HOSKINSON Mellony D; PARRETT Steve W  
**Cc:** FRENCH Dwight W; JARAMILLO Lisa J; HOOD Robert; DOUGHTEN Ron  
**Subject:** RE: Hassalo on 8th - Reclaimed Water Breakdown

Hi. From what I read below, AAT could not submit the OWRD registration form to OWRD until the WPCF permit was approved. The permit and the RWUP were reviewed and approved at the same time, hence why you did not receive the form, Steve. As a result, I informed Katie we could wait on the registration. At this time, Katie, you can submit the OWRD form to me here at DEQ and I will go over it with Ron prior to providing it to OWRD. If you have any questions, please let me know. Thanks. -Rob

---

**From:** PARRETT Steve W [mailto:steve.w.parrett@state.or.us]  
**Sent:** Wednesday, October 29, 2014 3:08 PM  
**To:** Katie Bohren; HOSKINSON Mellony D; PARRETT Steve W  
**Cc:** FRENCH Dwight W; JARAMILLO Lisa J; HOOD Robert; DOUGHTEN Ron  
**Subject:** RE: Hassalo on 8th - Reclaimed Water Breakdown

Katie,

Thank you for your attention to this matter.

The registration of reclaimed water form should be completed and signed by the registrant and water supplier (if different than registrant) and then submitted to DEQ at the time a new recycled water use application is submitted.

In this case perhaps it wasn't done at the time of application submittal to DEQ. I'm certain we can make this work just fine though.

The form should now be submitted to DEQ for signature, which indicates that DEQ has completed the statutory obligations of ORS 537.132(1).

The DEQ permit writer is responsible for signing the registration form and forwarding it onto Water Resources Department (to my attention here in Salem).

A copy of the signed form is to be included by DEQ with their permit evaluation report.

Once WRD has received the appropriately-signed registration form from DEQ, I will distribute the form internally and work with our staff to evaluate whether the proposed use of recycled water will have any ramifications on streamflow and whether any special measuring or reporting requirements are required.

The results of our evaluation will be provided back to DEQ for their consideration and inclusion in the permit file.

Please let me know if you have any more questions. I am happy to help in any way I can.

Sincerely,

Steven Parrett  
Water Management & Conservation Specialist  
Oregon Water Resources Department

503-986-0919

[Steve.w.parrett@wrd.state.or.us](mailto:Steve.w.parrett@wrd.state.or.us)

---

**From:** Katie Bohren [<mailto:KBohren@biohabitats.com>]  
**Sent:** Wednesday, October 29, 2014 2:13 PM  
**To:** 'PARRETT Steve W'; HOSKINSON Mellony D  
**Cc:** JARAMILLO Lisa J; DOUGHTEN Ron  
**Subject:** RE: Hassalo on 8th - Reclaimed Water Breakdown

Hi Steve,

Yes, all of the reclaimed water will be used on site (the four block super block) for either toilet flushing, irrigation, cooling tower make-up water or groundwater recharge. AAT, the owner, has an easement agreement between the four blocks.

It looks like I need to get the reclaimed water form signed by the Registrant and DEQ. Is it best to send the completed form to Ron Doughton at DEQ for signature before we submit to you or does that signature happen after OWRD reviews the form?

Thanks,  
Katie

**Katie Bohren**  
Environmental Scientist

800.220.0919 x174  
[www.biohabitats.com](http://www.biohabitats.com)

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412 NW Couch Street, Suite 202  
Portland, OR 97209

---

**From:** PARRETT Steve W [<mailto:steve.w.parrett@state.or.us>]  
**Sent:** Tuesday, October 28, 2014 11:27 AM  
**To:** Katie Bohren; HOSKINSON Mellony D  
**Cc:** JARAMILLO Lisa J; DOUGHTEN Ron; PARRETT Steve W  
**Subject:** RE: Hassalo on 8th - Reclaimed Water Breakdown

Hello Katie,

Mellony Hoskinson forwarded the Hassalo on 8<sup>th</sup> reclaimed water schematic and site plan.

What we are looking for is a fairly basic map of where the reclaimed water is produced, where it is conveyed, and where it is used.

If the reclaimed water is all used on site, then your detailed schematic and site plan should work just fine.

But if we have any questions after receiving the Registration of Reclaimed Municipal Water Use form, we will be in touch for clarification.

Thanks very much.

Sincerely,

Steven Parrett  
Water Management & Conservation Specialist  
Oregon Water Resources Department

503-986-0919  
[Steve.w.parrett@wrд.state.or.us](mailto:Steve.w.parrett@wrд.state.or.us)

---

**From:** Katie Bohren [<mailto:KBohren@biohabitats.com>]  
**Sent:** Monday, October 27, 2014 3:34 PM  
**To:** HOSKINSON Mellony D  
**Cc:** JARAMILLO Lisa J; DOUGHTEN Ron; PARRETT Steve W  
**Subject:** RE: Hassalo on 8th - Reclaimed Water Breakdown

Thanks Mellony. Good luck with your new positions.

Cheers,  
Katie

**Katie Bohren**  
Environmental Scientist

800.220.0919 x174  
[www.biohabitats.com](http://www.biohabitats.com)



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---

**From:** HOSKINSON Mellony D [<mailto:mellony.d.hoskinson@state.or.us>]  
**Sent:** Monday, October 27, 2014 3:16 PM  
**To:** Katie Bohren; HOSKINSON Mellony D  
**Cc:** JARAMILLO Lisa J; Ron Doughten; PARRETT Steve W  
**Subject:** RE: Hassalo on 8th - Reclaimed Water Breakdown

Hi Katie,

Thanks for your email. I have taken a new position within OWRD and am no longer responsible for the Reclaimed Municipal Water Use forms anymore. The person taking my place, Steve Parrett, is now doing these. Lisa Jaramillo is also helping out.

I have cc'd them here. I'm sure one of them will respond to you promptly.

Mellony

**Mellony Hoskinson**

Water Availability Technician  
Oregon Water Resources Department  
725 Summer St. NE  
Salem, OR 97301  
503-986-0832

---

**From:** Katie Bohren [<mailto:KBohren@biohabitats.com>]  
**Sent:** Monday, October 27, 2014 3:06 PM  
**To:** HOSKINSON Mellony D  
**Cc:** Ron Doughten ([doughten.ron@deq.state.or.us](mailto:doughten.ron@deq.state.or.us))  
**Subject:** RE: Hassalo on 8th - Reclaimed Water Breakdown

Hi Mellony,

DEQ has just issued the WPCF permit for Hassalo on 8<sup>th</sup>. Would this schematic and site plans suffice for the map requirement on page 3 of the Reclaimed Municipal Water Use form? We can also provide plumbing drawings showing the location of the reuse mechanical room pumps and piping to the four buildings.

Thanks,  
Katie

**Katie Bohren**  
Environmental Scientist

800.220.0919 x174  
[www.biohabitats.com](http://www.biohabitats.com)



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412 NW Couch Street, Suite 202  
Portland, OR 97209

---

**From:** HOSKINSON Mellony D [<mailto:mellony.d.hoskinson@state.or.us>]  
**Sent:** Tuesday, January 28, 2014 10:17 AM  
**To:** Katie Bohren  
**Subject:** RE: Hassalo on 8th - Reclaimed Water Breakdown

Hi Katie,

I have attached for you the Registration of Reclaimed Municipal Water Use form. Please fill this out after you have received your WPCF Permit No. (see number 1. on the form). Also, please include a schematic of the system which will satisfy the map requirement on page 3. These two items should satisfy the Water Resources Department requirements for your re-use purpose. Please let me know if you have any other questions. You can either send the completed form back to me via email or print it and send it regular mail.

Thanks,  
Mellony



**Mellony Hoskinson**

Water Supply & Conservation Specialist  
Oregon Water Resources Department  
725 Summer St. NE, Suite A  
Salem, OR 97301  
503-986-0887  
[mellony.d.hoskinson@state.or.us](mailto:mellony.d.hoskinson@state.or.us)

---

**From:** Katie Bohren [<mailto:KBohren@biohabitats.com>]  
**Sent:** Tuesday, January 28, 2014 8:55 AM  
**To:** HOSKINSON Mellony D  
**Cc:** Pete Munoz; Craig Briscoe ([cbriscoe@glumac.com](mailto:cbriscoe@glumac.com)); Ron Doughten ([doughten.ron@deq.state.or.us](mailto:doughten.ron@deq.state.or.us))  
**Subject:** Hassalo on 8th - Reclaimed Water Breakdown

Hi Mellony,

Thanks for the call this morning to begin discussion of any requirements the Water Resources Department may have for the Hassalo on 8<sup>th</sup> wastewater treatment and reuse system. As I mentioned, the daily design flow for the wastewater treatment system is 45,210 gallons per day. Of this, an estimated 20,344 gallons per day will be reused on site for toilet flushing, irrigation, and cooling tower makeup. The remaining 24,866 gallons will be discharged to two drywells located on site.

**Reclaimed water use**

Block	Reclaimed Water (gpd)			Building Total
	Toilet Flushing	Cooling Tower	Irrigation	
BLDG 92	4,149	NA	459	4,608
BLDG 100	3,110	NA	400	3,510
BLDG 101	6,609	NA	813	7,422
BLDG 700	NA <sup>1</sup>	3,998	806	4,804
<b>TOTAL</b>	<b>13,869</b>	<b>3,998</b>	<b>2,478</b>	<b>20,344</b>

<sup>1</sup> Flushing fixtures will eventually be connected to the reuse system.

Please don't hesitate to contact me with any further questions.

Cheers,

**Katie Bohren**  
Environmental Scientist

800.220.0919 x174  
[www.biohabitats.com](http://www.biohabitats.com)



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Portland, OR 97209

## PARRETT Steve W

---

**From:** WOODY Jen L  
**Sent:** Wednesday, December 24, 2014 7:58 AM  
**To:** PARRETT Steve W  
**Cc:** GALL Ivan K; MCCORD Mike L  
**Subject:** RE: Hassalo on 8th Reclaimed Water

Steven,

I spoke with Matt Kohlbecker at DEQ regarding this project. He is familiar with it, and noted that DEQ requires UIC projects to identify a use. This one calls moving water into dry wells Groundwater Recharge, which has a particular meaning to OWRD, per 690-350-120. However, it is my understanding the intent of the operations do not qualify as Artificial Groundwater Recharge as WRD views it. WRD sees the intent as akin to the disposal of storm water, and not Artificial Groundwater Recharge. Based on this understanding, we do not require an AR authorization. Thanks for bringing this to my attention and feel free to contact me if you have further questions.

Jen

Jen Woody  
Hydrogeologist  
Oregon Water Resources Department  
725 Summer St NE, Suite A  
Salem, OR 97301  
503-986-0855

---

**From:** PARRETT Steve W  
**Sent:** Friday, December 19, 2014 8:11 AM  
**To:** WOODY Jen L  
**Cc:** GALL Ivan K; MCCORD Mike L  
**Subject:** RE: Hassalo on 8th Reclaimed Water

Jen,  
That sounds like a great plan.  
Thank you for your attention to this.

Sincerely,

Steven Parrett  
Water Management & Conservation Specialist  
Oregon Water Resources Department

503-986-0919  
[Steve.w.parrett@wrdd.state.or.us](mailto:Steve.w.parrett@wrdd.state.or.us)

---

**From:** WOODY Jen L  
**Sent:** Friday, December 19, 2014 7:48 AM  
**To:** PARRETT Steve W  
**Cc:** GALL Ivan K; MCCORD Mike L  
**Subject:** RE: Hassalo on 8th Reclaimed Water

Hi Steven-

There are two things I'd like to do. First, contact folks I work with at the UIC program to pick their brains about this project. Then, based on what I learn, I'd like to run this by Ivan for his opinion on the next steps. Ivan's out of the office today but I'll try to catch up with UIC folks today. I'll get back to you on Monday with what I've learned. Does this plan work for your timelines?

Jen

---

**From:** PARRETT Steve W  
**Sent:** Thursday, December 18, 2014 4:47 PM  
**To:** WOODY Jen L  
**Cc:** GALL Ivan K; MCCORD Mike L  
**Subject:** RE: Hassalo on 8th Reclaimed Water

Jen,

DEQ has issued their permit, but apparently the use of reclaimed water is not scheduled to begin until May 1, 2015. So, if we must require an AR authorization, it may be still possible and practical, although I personally have no idea what an AR authorization entails.

Please advise what you require of them or if we need clarification of the actual "intent" from the registrant or from DEQ.

I have copied Mike so he is aware of this.

Sincerely,

Steven Parrett  
Water Management & Conservation Specialist  
Oregon Water Resources Department

503-986-0919  
[Steve.w.parrett@wrd.state.or.us](mailto:Steve.w.parrett@wrd.state.or.us)

---

**From:** WOODY Jen L  
**Sent:** Thursday, December 18, 2014 3:10 PM  
**To:** PARRETT Steve W  
**Cc:** GALL Ivan K  
**Subject:** RE: Hassalo on 8th Reclaimed Water

Hi Steven,

As I swept the cobwebs out of my memory, I do now recall the last time WRD considered AR (artificial groundwater recharge) with reclaimed water. It was in 2011 and at that time we determined that would require an AR authorization from WRD, in tandem with DEQ's UIC authorization. Looking through this proposal, it appears to use dry wells to essentially dispose of extra reclaimed water. But, if the intent is truly groundwater recharge, with or without later recovery of stored water, then an AR limited license is required.

Jen

Jen Woody  
Hydrogeologist  
Oregon Water Resources Department

725 Summer St NE, Suite A  
Salem, OR 97301  
503-986-0855

---

**From:** PARRETT Steve W  
**Sent:** Wednesday, December 17, 2014 3:45 PM  
**To:** WOODY Jen L  
**Subject:** FW: Hassalo on 8th Reclaimed Water

Jen,

Here is the Recycled Water Use Plan.  
Thanks for having a look at the groundwater recharge issue.

Sincerely,

Steven Parrett  
Water Management & Conservation Specialist  
Oregon Water Resources Department

503-986-0919  
[Steve.w.parrett@ wrd.state.or.us](mailto:Steve.w.parrett@ wrd.state.or.us)

---

**From:** HOOD Robert [<mailto:robert.hood@state.or.us>]  
**Sent:** Wednesday, December 17, 2014 3:08 PM  
**To:** PARRETT Steve W  
**Cc:** Katie Bohren  
**Subject:** RE: Hassalo on 8th Reclaimed Water

Hi Steve. I happened to have this handy. -Rob

---

**From:** PARRETT Steve W [<mailto:steve.w.parrett@state.or.us>]  
**Sent:** Wednesday, December 17, 2014 2:56 PM  
**To:** Katie Bohren  
**Cc:** HOOD Robert  
**Subject:** Hassalo on 8th Reclaimed Water

Hello Katie,

I received the Registration of Reclaimed Municipal Water Use form from DEQ on December 1, 2014.

The Department's groundwater section would like more information on the nature of the "groundwater recharge" use of the reclaimed water.

Useful information would include construction details of the "drywells" and if there will be any future use of this groundwater.

Could you please provide me with a copy of the Recycled Water Use Plan on behalf of your client AAT Lloyd District, LLC?

Oregon Water Resources Department  
Attn: Steven Parrett

725 Summer St. NE, Suite A  
Salem, OR 97301-1266

Thank you for your help.

Sincerely,

Steven Parrett  
Water Management & Conservation Specialist  
Oregon Water Resources Department

503-986-0919

[Steve.w.parrett@wrд.state.or.us](mailto:Steve.w.parrett@wrд.state.or.us)

# Reclaimed Water Registration Checklist

RM (assigned by Kerri) - 201 County Multnomah Registrant (User of Water) AAT Lloyd District, LLC

Place of Use: Township IN Range 1E Section 35 QQ's NW

Amount Toilet Flush <sup>.02 CFS</sup> Use IRR = .0038 CFS Acres (if for IR) 1.28<sup>ac</sup> WM Dist. # 20

Supplier AAT Lloyd District DEQ Muni WW Permit # (Source) WPCF # 103094

Point of Diversion: Township IN Range 1E Section 35 QQ NW

Contract Length in Years None - closed loop system

Agent (if any) N/A

Cooling Tower = .006 CFS  
Groundwater Recharge = .038 CFS

Property ownership: Does the Registrant own all the land for the proposed project? (Y) / N

If No: N/A

The affected landowner's name and mailing address must be listed

The **map** must meet the following minimum requirements.

- Township, Range, Section
- Streams and road identified if they cross through the map
- Place of use, 1/4-1/4's and tax lot clearly identified
- Even map scale not less than 4" = 1 mile (1" = 1320 ft.)
- Location of *each* diversion point (WW Treatment Plant)
- North Directional Symbol
- Number of acres per 1/4-1/4 if for irrigation, nursery, or agriculture
- Legend

*New Form*

*\*A map showing the wastewater treatment facility, transmission system, and place of use at a scale of 4" = >1 mile is fine only if a second map is provided showing the place of use at not less than 4" = 1 mile.*

Signature of *all* Registrants and Reclaimed Water Supplier

DEQ section (17) is completely filled out and signed. *NE FORM*

Existing Water Rights N/A

**\*Do not send registration back to applicant if it is not complete, ALL registrations go to Kerri Cope.**

Reviewed by: [Signature]

Date: 4/12/16

**\*Remember there is no fee for Reclaimed Water Registrations**



# Oregon Water Resources Department Water Rights Mapping Tool

OWRD Only

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## Search

### Identify Non-Water Right Features

Distance: 1 Feet

General Rules Hydrography

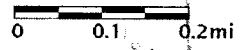
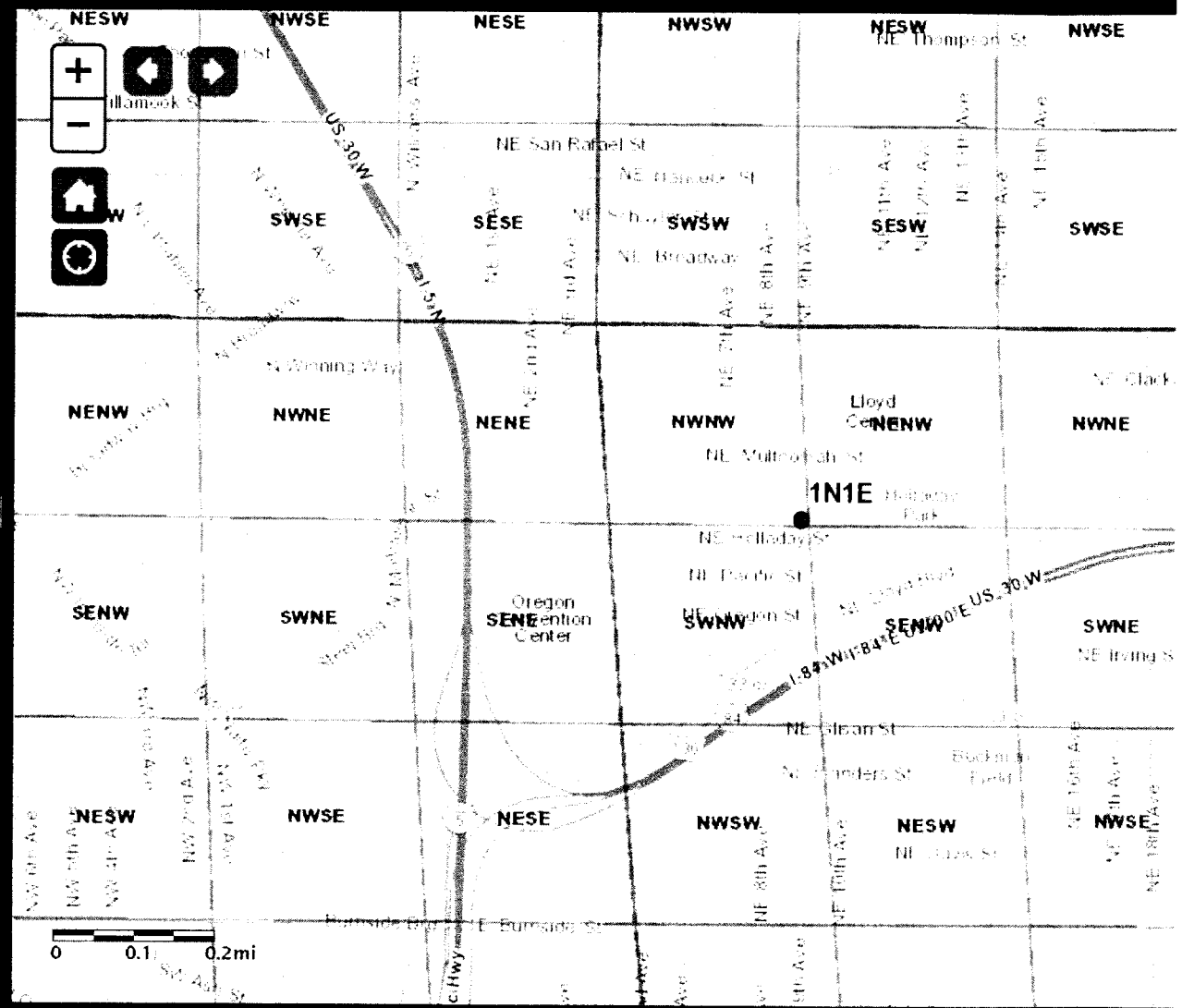
TRSQQ: WM1.00N1.00E35NWNW  
 DLC: WM1N1E 68  
 Latitude: 45.5302978698  
 Longitude: -122.6566350000  
 Buffer (ft): 1  
 Elevation (ft): 175  
 Basin Name: Willamette  
 County: Multnomah  
 WM District: 20  
 WM Region: NORTHWEST  
 ODFW Region, District: Northwest Region, NWWD-Cascade Unit  
 Irrigation District AOI: -  
 Irrigation District, Other: -  
 Dams (Permit): -  
 Water Rights: [Platcard for WM1.00N1.00E35](#)  
 Well Logs: [Logs for WM1.00N1.00E35](#)

## Tax Lots

## Tools

## Layers

## Bookmarks



POD POU Irrigation Districts AOI WR By Time

Oregon Water Resources Department  
Water Rights Platcard Report

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Search Criteria

Meridian: Willamette Township: 1 North Range: 1 East Section: 35 Records per Page: 100 Search Platcards Maps! Learn about View Map

Water Right	Channel Xfers	Priority	Use	Use Status	DLC	Gen'l Lgt	Qtr-40: Q1199:	NE NE	NW NE	SW NE	SE NE	NE NW	NW NW	SW NW	SE NW	NE SW	NW SW	SW SW	SE SW	NE SE	NW SE	SW SE	SE SE	Unknown GO
Select Cert:30317 OR * Additional Info: JANTZEN INC. App: G1691 Permit: G1551 Cert: 30317		3/3/1960	AIR CONDITIONING OR HEATING			71																		
Select Cert:30527 OR * Additional Info: TONKIN MOTORS INC. App: G2035 Permit: G1872 Cert: 30527		5/31/1961	AIR CONDITIONING OR HEATING			68																		
Select Permit: G 16190 * Additional Info: MALONEY LAURSDOF REINER PC App: G16722 Permit: G16190		9/12/2006	COMMERCIAL USES																					
Select App: LL 961 EX Additional Info: BURNSIDE ROCKET LLC App: LL961		4/10/2006	COMMERCIAL USES																					
Select App: LL 961 EX Additional Info: BURNSIDE ROCKET LLC App: LL961		4/10/2006	GEO-THERMAL (HEATING & COOLING)																					
Select Cert:28935 OR * Additional Info: JANTZEN INC. App: G320 Permit: G213 Cert: 28935		4/26/1966	INDUSTRIAL/MANUFACTURING USES			71																		
Select Cert:30197 OR * Additional Info: LLOYD CORP. LTD. App: G749 Permit: G636 Cert: 30197		9/4/1967	INDUSTRIAL/MANUFACTURING USES			71																		
Select Cert:30199 OR * Additional Info: LLOYD CORP. LTD. App: G1322 Permit: G1144 Cert: 30199		12/3/1968	INDUSTRIAL/MANUFACTURING USES			71																		
Select App: S 71651 WD Additional Info: TUALATIN VALLEY WATER DISTRICT App: S71651		6/3/1991	MUNICIPAL USES	WD																				
Select Permit: G 10455 * Additional Info: MARK FILSINGER App: G11306 Permit: G10455		8/17/1984	MUNICIPAL USES																					







**Oregon Water Resources Department  
Attribute Report**

Report Date: Apr 12, 2016

**General:**

TRSQQ:	WM1.00N1.00E35NWNW
DLC:	WMIN1E 68
Latitude:	45.5302978698
Longitude:	-122.6566350000
Buffer (ft):	1
Elevation (ft):	175
Basin Name:	Willamette
County:	Multnomah
WM District:	20
WM Region:	NORTHWEST
ODFW Region, District:	Northwest Region, NWWD-Cascade Unit
Irrigation District AOI:	-
Irrigation District, Other:	-
Dams (Permit):	-
Water Rights:	<a href="#">Platcard for WM1.00N1.00E35</a>
Well Logs:	<a href="#">Logs for WM1.00N1.00E35</a>

**Rules:**

Withdrawn Authority:	-
Groundwater Retriected:	-
GW Retriected Subunit:	-
GW ODEQ Management Area:	-
GW Umatilla Muni Wells (Smile):	-
Rule 4D:	Rules apply
Division 33 (Area, Watershed, species):	LOWER COLUMBIA, Willamette River-Frontal Columbia River, Pacific Lamprey, Coho Salmon, Chinook Salmon, Coastal Cutthroat Trout, Steelhead
Water Quality Limited Pollutant:	-
Is in Deschutes Study Area:	-
Deschutes Zone Impact:	-
Deschutes Zone Overlay:	-
Scenic Water Way:	-

**Hydrography:**

OWRD Streamcode:	-
Waterbody Name:	-
HUC 10:	1709001202
HUC Watershed:	Columbia Slough-Willamette River
WAB Wshed Order:	1
WAB Analysis:	<a href="#">WILLAMETTE R &gt; COLUMBIA R - AT MOUTH</a>
Streamflow:	OWRD Opportunities: Fair ODEW Needs: Poor Combined Priority: Not a priority

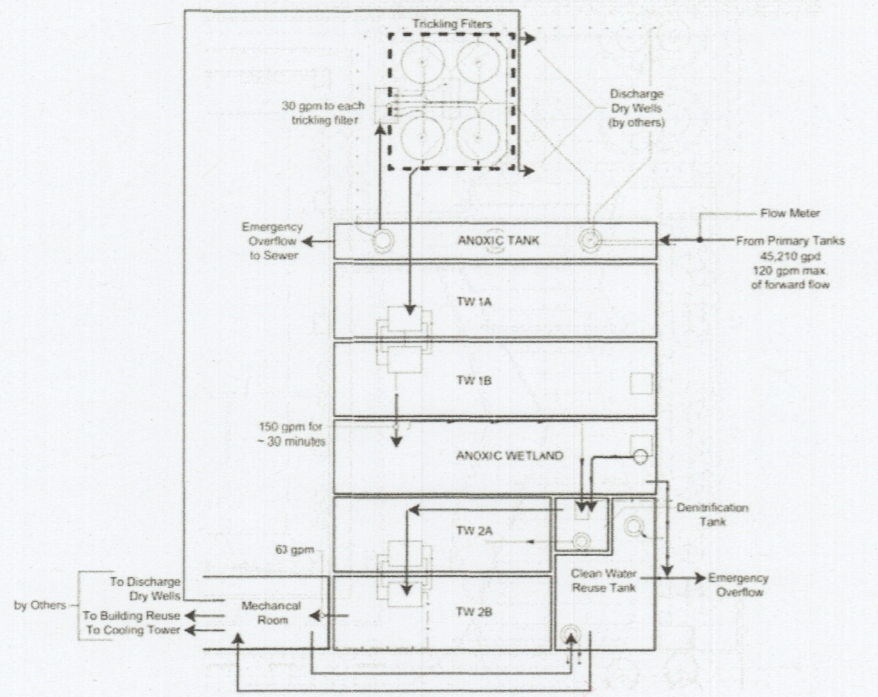
Gaging Station Data:

Sources:

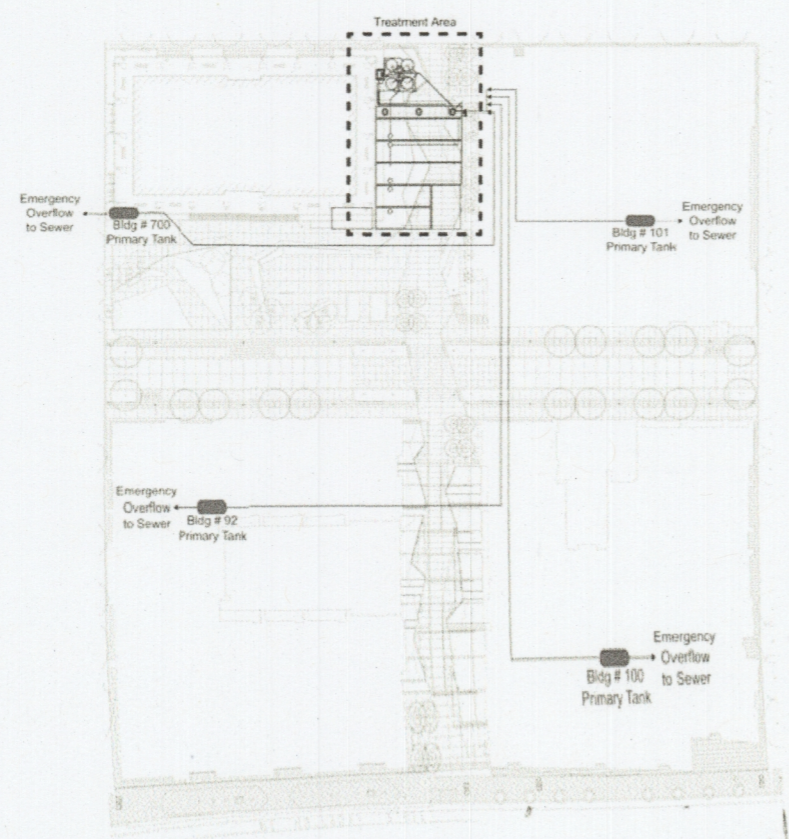
<b>General</b>
Oregon Public Land Survey Quarter-quarters. Bureau of Land Management, Oregon Water Resources Department. n.d. 1:24,000.
Donated Land Claims. Oregon Water Resources Department. January 1, 1995. 1:100,000.
Elevation. ESRI World Elevation. February 2000. 1:121,000.
OWRD Administrative Basins. Oregon Water Resources Department. January 1, 1995.
Oregon Counties. Bureau of Land Management (BLM), Oregon State Office. January 1, 2008.
OWRD Watermaster Districts. Oregon Water Resources Department. March 31, 2014.
OWRD Regions. Oregon Water Resources Department. January 1, 1995.
ODFW Districts and Regions. Oregon Department of Fish and Wildlife. August 28, 2012.
Water Organizations. Oregon Water Resources Department. April 1, 2013. 1:24,000.
Large Dams Inventory. Oregon Water Resources Department. August 12, 2014. 1:24,000.
<b>Rules</b>
Withdrawn Authority Areas. Oregon Water Resources Commission. January 1, 2007.
OWRD Groundwater Restricted Areas. Oregon Water Resources Department. April 1, 2009.
OWRD Groundwater Restricted Areas - Subunits. Oregon Water Resources Department. April 1, 2009.
ODEQ Groundwater Management Areas (GWMAs). Oregon Department of Environmental Quality. April 21, 2008.
Groundwater Umatilla Municipal Wells 5-mile buffer. Oregon Water Resources Department. June 28, 2012.
National Marine Fisheries Service (NMFS) 4(d) Rule. National Marine Fisheries Service. January 1, 2007.
OAR Chapter 690, Division 33 - HUC 10. Oregon Department of Fish & Wildlife. January 1, 2003.
Oregon Water Quality Assessment 2010. This data set was assembled by the Oregon Department of Environmental Quality, Water Quality Division, Standards and Assessments Section. GIS data prepared by the Watershed Management Section, Drinking Water Program. August 16, 2013.
Deschutes USGS Groundwater Study Area. Water Resources Commission, U.S. Geological Survey (USGS) Water Resources Division (Portland, OR), Oregon Water Resources Department. January 1, 2001. 1:100,000.
Deschutes Zones of Impact. Oregon Water Resources Department. October 25, 2007.
Deschutes Zones Overlay. Oregon Water Resources Department. October 25, 2007.
Oregon State Scenic Waterway areas. Oregon Water Resources Department, Oregon Parks and Recreation Department. January 1, 2007.
<b>Hydrography</b>
Routed OWRD Streamcodes (conflated to the NHD). Oregon Water Resources Dept. August 11, 2014.
Unknown. n.d.
Watershed Boundary Dataset (WBD), 10-digit (watershed). Pacific Northwest Hydrography Framework, U.S. Geological Survey (USGS), National Resources Conservation Service (NRCS). June 11, 2014. 1:24,000.
Water Availability Basins. Oregon Water Resources Department. n.d. 1:100,000.
Priority Watersheds for Streamflow Restoration. Oregon Water Resources Dept. and the Oregon Dept. of Fish & Wildlife. January 15, 2004.
Stream Gage Stations. Oregon Water Resources Department and US Geological Survey. n.d.

[close](#)

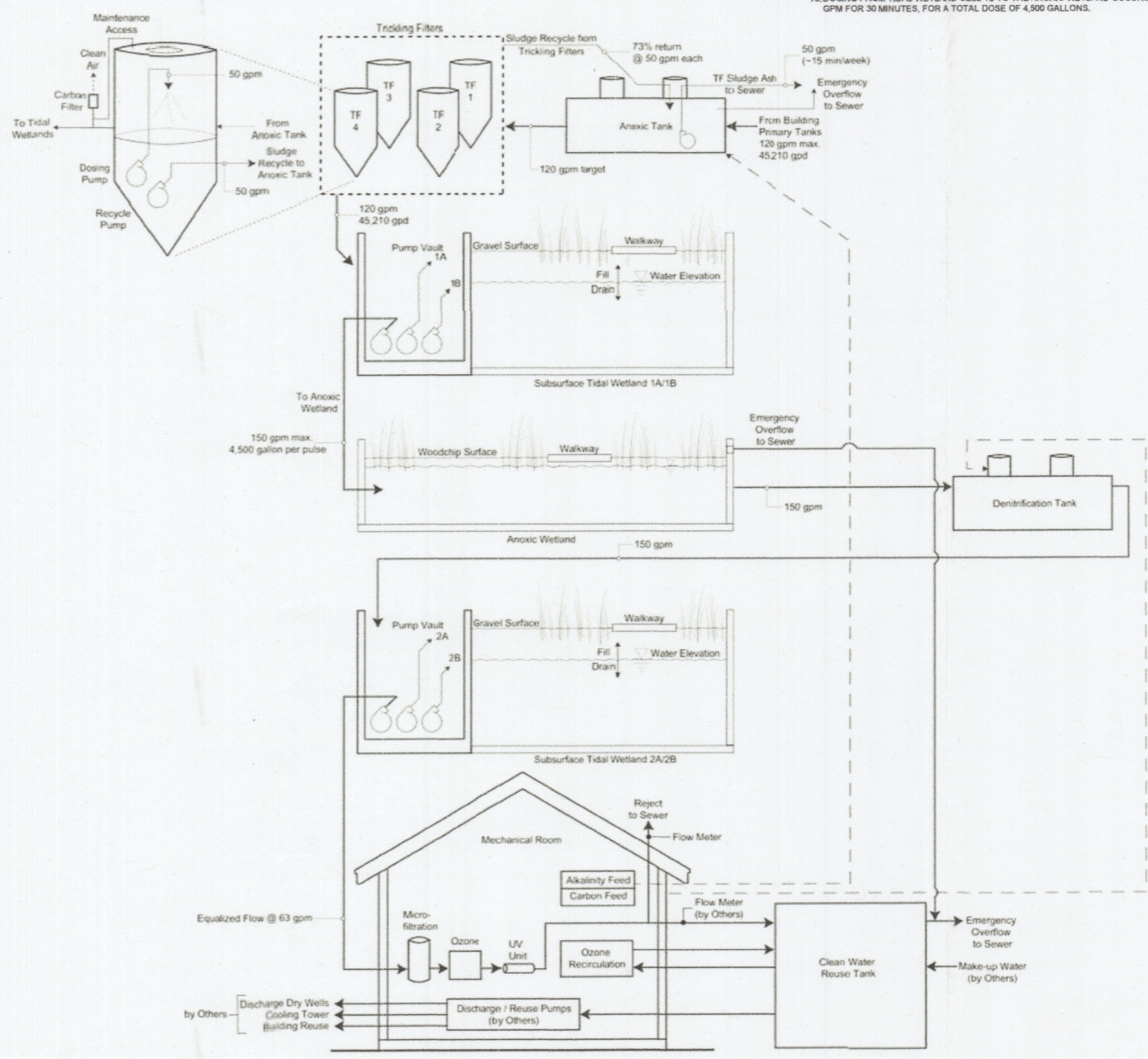




TREATMENT SCHEMATIC



COLLECTION SCHEMATIC



PROCESS FLOW DIAGRAM

- PROCESS FLOW AND CONTROL NOTES**
1. TREATMENT SYSTEM DOSING CYCLES OCCUR BETWEEN 12 AND 14 TIMES PER DAY. DOSING CYCLES HAVE BEEN SELECTED TO OPTIMIZE TREATMENT WITHIN THE TIDAL FLOW WETLANDS AND TRICKLING FILTER COMPONENTS.
  2. THE TOTAL INFLUENT DOSING RATE MAXIMUM IS 120 GPM.
  3. PRIMARY TANKS #92, 100 AND 104 OPERATE SIMULTANEOUSLY, WITH A FLOW OF 120 GPM TOTAL DURING A DOSING CYCLE.
  4. PRIMARY TANK #700 IS OPTIONALLY USED IN THE EVENT OF LOW FLOWS. P700 OPERATIONS SHALL BE STAGGERED TO OPERATE SEPARATELY FROM THE OTHER PRIMARY TANKS.
  5. TRICKLING FILTER MAXIMUM HYDRAULIC LOADING RATE IS 30 GPM PER TRICKLING FILTER (120 GPM TOTAL).
  6. TRICKLING FILTERS SHALL NOT RECYCLE TO THE ANOXIC TANK DURING INFLOW DOSES FROM PRIMARY TANKS. RECYCLE FLOWS FROM EACH TRICKLING FILTER SHALL BE STAGGERED TO AVOID EXCEEDING MAXIMUM FLOW RATES.
  7. 12 DOSE CYCLE/DAY OPERATIONS SUMMARY: PRIMARY TANKS SHALL DOSE APPROXIMATELY 4 TIMES DURING A 90 MINUTE PERIOD, WITH A 30 MINUTE REST PERIOD, OVER A 120 MINUTE CYCLE TIME.
    - a. 4 MIN ON/6.43 MIN OFF FOR 8 DOSES FOLLOWED BY A 30 MINUTE REST PERIOD
  8. 14 DOSE CYCLE/DAY OPERATIONS SUMMARY: PRIMARY TANKS SHALL DOSE APPROXIMATELY 4 TIMES DURING A 73 MINUTE PERIOD, WITH A 30 MINUTE REST PERIOD, OVER A 103 MINUTE CYCLE TIME.
    - a. 4 MIN ON/6.43 MIN OFF FOR 7 DOSES FOLLOWED BY A 30 MINUTE REST PERIOD
  9. THE 30 MINUTE INFLOW DOSING REST PERIODS ARE REQUIRED TO ALLOW FOR OPTIMAL TREATMENT WITHIN THE TIDAL FLOW WETLANDS. THE REST PERIOD OCCURS WHILE TIDAL WETLAND PUMP P1 IS DRAINING WETLAND CELL 1A. ANY INFLOW DURING THIS PERIOD COULD BYPASS/SHORTCIRCUIT.
  10. DOSING FROM TIDAL WETLAND CELL 1B TO THE ANOXIC WETLAND OCCURS AT 150 GPM FOR 30 MINUTES, FOR A TOTAL DOSE OF 4,500 GALLONS.

**GAR**  
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GBD © 2013



**PROJECT**  
LLOYD BLOCK GARAGE  
PORTLAND OREGON

**CLIENT**  
AMERICAN ASSETS TRUST  
11455 EL CAMINO REAL  
#200  
SAN DIEGO, CA 92130

**REVISIONS**

NO.	DATE	DESCRIPTION

**DATE**  
06-21-13

**PROJECT NUMBER**  
20121905

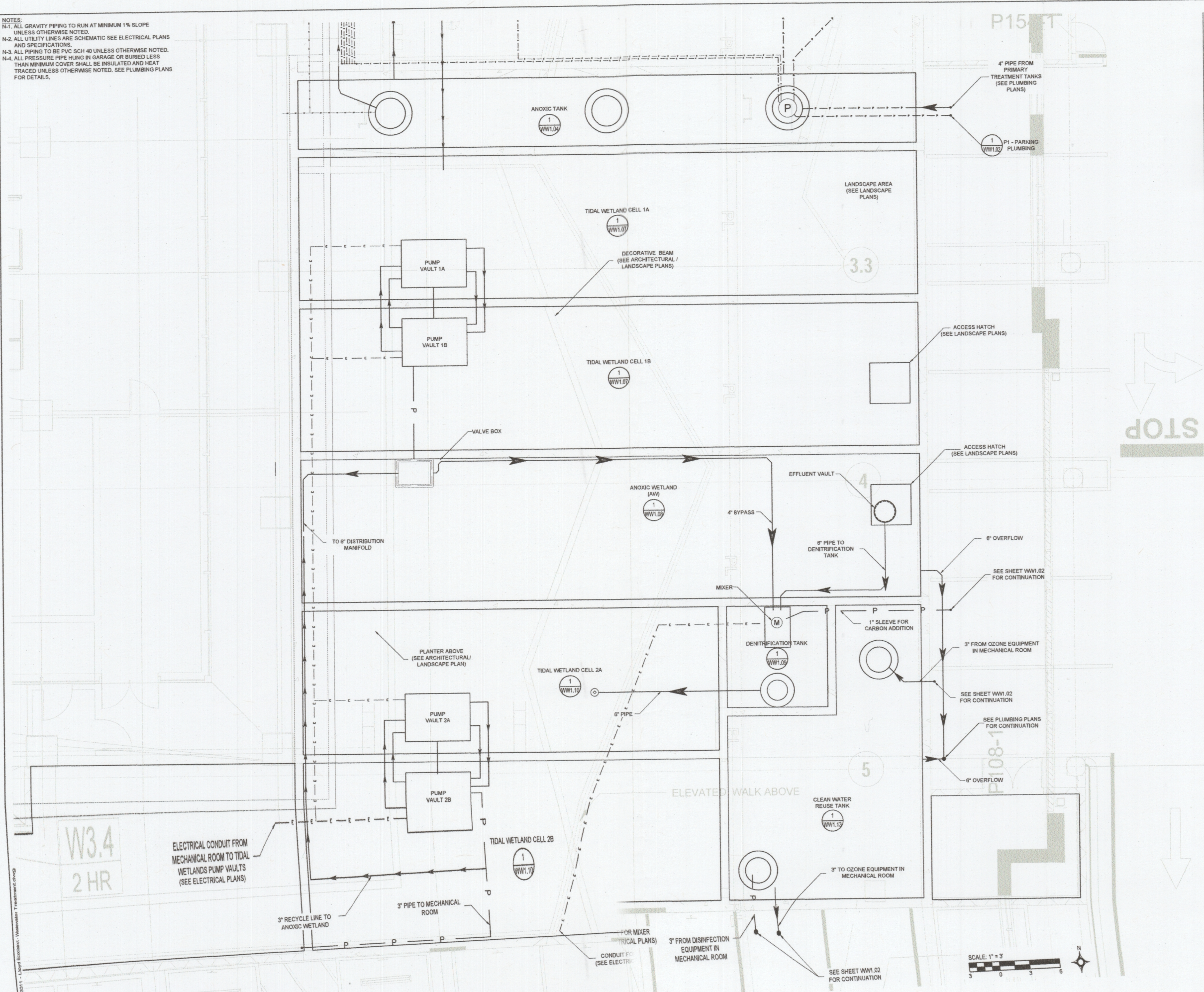
**SCALE**  
AS INDICATED

**SHEET TITLE**  
SCHEMATIC PLAN

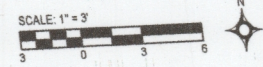
**WW0.02**

10/11/13/11/Current/1311 - Lloyd Block/Garage - Project Information.dwg

NOTES:  
 N-1. ALL GRAVITY PIPING TO RUN AT MINIMUM 1% SLOPE UNLESS OTHERWISE NOTED.  
 N-2. ALL UTILITY LINES ARE SCHEMATIC SEE ELECTRICAL PLANS AND SPECIFICATIONS.  
 N-3. ALL PIPING TO BE PVC SCH 40 UNLESS OTHERWISE NOTED.  
 N-4. ALL PRESSURE PIPE HUNG IN GARAGE OR BURIED LESS THAN MINIMUM COVER SHALL BE INSULATED AND HEAT TRACED UNLESS OTHERWISE NOTED. SEE PLUMBING PLANS FOR DETAILS.

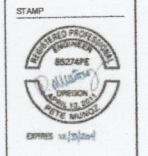


W3.4  
2 HR



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**Biobasins**  
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REVISIONS

NO.	DATE	DESCRIPTION
2	2013-12-17	GAR/ARITE
1	2013-12-17	CCD 6
1	2013-12-06	CCD 5

DATE  
06-21-13

PROJECT NUMBER  
20121995

SCALE  
AS INDICATED

SHEET TITLE  
CONSTRUCTED WETLAND PLAN

**WW1.01**

RECEIVED BY OWRD  
 DEC 01 2014  
 SALEM, OR