

Oregon Department of Environmental Quality
RECYCLED WATER USE PLAN SUMMARY



Directions: Check (✓) appropriate boxes for tables and provide brief narrative where necessary. Submit with Recycled Water Use Plan to DEQ.

APPLICANT INFORMATION

Facility Name: City of Baker City Wastewater Treatment Facility
Address: 42661 Imnaha Road Baker City, Oregon 97814
Contact Name/Phone Number: Michelle Owen, 541-524-2031

TYPE OF WASTEWATER TREATMENT PLANT

<input type="checkbox"/> Activated Sludge	<input type="checkbox"/> Re-circulating Gravel/Sand Filter
<input type="checkbox"/> Mechanically Aerated Lagoon	<input type="checkbox"/> Rotating Biological Filter
<input checked="" type="checkbox"/> Aerated Lagoon	<input type="checkbox"/> Other (Specify):

Average Dry Weather Flow, million gallons per day (MGD): 1.21

TREATMENT CLASS IN ACCORDANCE WITH OAR 340-055-0012

<input type="checkbox"/> Class A	<input type="checkbox"/> Class C
<input type="checkbox"/> Class B	<input checked="" type="checkbox"/> Class D
<input type="checkbox"/> Non-Disinfected water	

TREATMENT EFFICIENCY CAPABILITY DURING REUSE

<input type="checkbox"/> Tertiary Treatment	<input checked="" type="checkbox"/> 85% or more BOD/TSS removal
<input type="checkbox"/> 95% or more BOD/TSS removal	<input type="checkbox"/> Rotating Biological Filter
<input type="checkbox"/> 90% or more BOD/TSS removal	<input type="checkbox"/> Other (Specify):

DISINFECTION METHOD

<input checked="" type="checkbox"/> Chlorine injection just prior to irrigation
<input checked="" type="checkbox"/> Chlorine injection with storage of recycled water
<input type="checkbox"/> Chlorine injection after storage just prior to irrigation
<input type="checkbox"/> UV exposure just prior to irrigation
<input type="checkbox"/> UV exposure with storage of recycled water
<input type="checkbox"/> UV exposure after storage just prior to irrigation
<input type="checkbox"/> Other (specify):

STORAGE IMPOUNDMENT

	Y	N
Is there a storage facility proposed for this project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If yes, at the WWTP	<input type="checkbox"/>	<input checked="" type="checkbox"/>
If yes, located at a location other than the WWTP	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If yes to either of the above, specify the location and length of time the storage facility will be used:		
The new irrigation storage pond is located approximately 5 miles northeast of the wastewater treatment facility (see Figure A, attached). The irrigation storage pond will be used year-round.		

Recycled Water Use Plan Summary

ARE THERE ALARMS FOR VARIOUS UNIT PROCESSES?

	Y	N
Are alarms independent of the normal power supply of the plant?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Failure of a disinfection treatment process?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Failure of a clarification process?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Failure of a coagulation process?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Failure of a filtration process?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are the alarms on separate circuit breakers from the reuse pumps?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Recycled Water back-up generator tested regularly?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

IN THE EVENT OF POWER LOSS:

	Y	N
Can the plant continue to discharge?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Can there be any irrigation of non-disinfected water?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If no to either of the above, specify control measures that will be in place to stop the irrigation as soon as possible.		

RECYCLED WATER WILL BE BENEFICIALLY USED FOR THE FOLLOWING (CHECK ALL THAT APPLY):

✓	Beneficial Purpose	Class				
		A	B	C	D	ND
	Irrigation					
<input checked="" type="checkbox"/>	Fodder, fiber, seed crops not intended for human ingestion, commercial timber	Y	Y	Y	Y	Y
<input type="checkbox"/>	Firewood, ornamental nursery stock, Christmas trees	Y	Y	Y	Y	N
<input type="checkbox"/>	Sod	Y	Y	Y	Y	N
<input checked="" type="checkbox"/>	Pasture for animals	Y	Y	Y	Y	N
<input type="checkbox"/>	Processed food crops	Y	Y	Y	N	N
<input type="checkbox"/>	Orchards or vineyards if an irrigation method is used to apply recycled water directly to the soil	Y	Y	Y	N	N
<input type="checkbox"/>	Golf courses, cemeteries, highway medians, industrial or business campuses	Y	Y	Y	N	N
<input type="checkbox"/>	Any agricultural or horticultural use	Y	N	N	N	N
<input type="checkbox"/>	Parks, playgrounds, school yards, residential landscapes, other landscapes accessible to the public	Y	N	N	N	N
<input type="checkbox"/>	Industrial, Commercial, or Construction					
<input type="checkbox"/>	Industrial cooling	Y	Y	Y	N	N
<input type="checkbox"/>	Rock crushing, aggregate washing, mixing concrete	Y	Y	Y	N	N
<input type="checkbox"/>	Dust control	Y	Y	Y	N	N
<input type="checkbox"/>	Nonstructural fire fighting using aircraft	Y	Y	Y	N	N
<input type="checkbox"/>	Street sweeping or sanitary sewer flushing	Y	Y	Y	N	N
<input type="checkbox"/>	Stand alone fire suppression systems in commercial and residential buildings	Y	Y	N	N	N
<input type="checkbox"/>	Non-residential toilet or urinal flushing, floor drain trap priming	Y	Y	N	N	N
<input type="checkbox"/>	Commercial car washing	Y	N	N	N	N
<input type="checkbox"/>	Fountains when the water is not intended for human consumption	Y	N	N	N	N

Recycled Water Use Plan Summary

✓	Beneficial Purpose	Class				
		A	B	C	D	ND
<input type="checkbox"/>	Impoundments or Artificial Groundwater Recharge					
<input type="checkbox"/>	Water supply for landscape impoundments including, but not limited to, golf course water ponds and non-residential landscape ponds	Y	Y	Y	N	N
<input type="checkbox"/>	Restricted recreational impoundments	Y	Y	N	N	N
<input type="checkbox"/>	Nonrestricted recreational impoundments including, but not limited to, recreational lakes, water features accessible to the public, and public fishing ponds	Y	N	N	N	N
<input type="checkbox"/>	Artificial groundwater recharge	Y	N	N	N	N
<input type="checkbox"/>	Other (describe):					

Recycled Water Use Plan Summary

PAGES 4 & 5 REQUIRED FOR IRRIGATION ONLY

THE IRRIGATION AREA WILL BE USED FOR THE FOLLOWING (CHECK ALL THAT APPLY):

<input checked="" type="checkbox"/>	Crops (specify types): Alfalfa hay
<input checked="" type="checkbox"/>	Pasture
<input type="checkbox"/>	Forest
<input type="checkbox"/>	Public access areas (specify types):
<input type="checkbox"/>	Natural areas (specify species or mix):
<input type="checkbox"/>	Other (specify):

APPLICATION RATE

	Y	N
Will irrigation be controlled not to exceed the water consumption rate of the crop being grown?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Will irrigation be controlled not to exceed the nutrient requirements of the crop being grown?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

What is the proposed application rate of the recycled water? 450 to 900 gallons per minute

Acreage of irrigation site 596 total acres (see Figures B, C, and D for reuse sites)

The months that irrigation will be permitted April through October

If irrigation occurs with Class C recycled water at nighttime, will the public access be restricted to allow for sunlight contact on irrigated water? Yes No

If so, specify length of time _____

TRANSMISSION & DISTRIBUTION LINES/PIPES

	Y	N
At the end of the irrigation day, will the transport lines/pipes be drained back to the wastewater treatment facility?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is there a gate/ball shut off valve at the irrigation pump?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is there an in line pressure relief valve to by-pass reuse water back into the source basin if there is a line transmission plug?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
At the cessation of the irrigation season, will the transport lines/pipes be flushed and cleaned?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is there a gate/ball shut off valve at the irrigation field, or at each irrigation zone?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

ZONED LAND USE OF IRRIGATION SITE (CHECK ALL THAT APPLY)

<input checked="" type="checkbox"/>	Exclusive Farm Use (EFU)	<input type="checkbox"/>	Industrial
<input type="checkbox"/>	Forestry	<input type="checkbox"/>	State/Federal lands
<input type="checkbox"/>	Rural Residential	<input type="checkbox"/>	Other (Specify):

ZONED LAND USE OF AREA AROUND IRRIGATION SITE (CHECK ALL THAT APPLY)

<input checked="" type="checkbox"/>	Exclusive Farm Use (EFU)	<input type="checkbox"/>	Industrial
<input type="checkbox"/>	Forestry	<input type="checkbox"/>	State/Federal lands
<input type="checkbox"/>	Rural Residential	<input type="checkbox"/>	Other (Specify):

Prevailing wind direction during irrigation season (specify): North

Will irrigation be restricted when winds exceed 10 MPH? As required by the DEQ.

THE NEAREST DEVELOPED PROPERTY FROM IRRIGATION SITE (ft):

North boundary: See Table 1.
South boundary: See Table 1.
East boundary: See Table 1.
West boundary: See Table 1.
What is the nearest developed property downwind of irrigation site (specify type and distance): See Table 1.
Are there any playgrounds, schools, or public parks within 1/2 mile of irrigation site? (specify): No.

Recycled Water Use Plan Summary

DOMESTIC WELLS

	Y	N
Are there any domestic wells or other domestic water sources located within the irrigation site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Are there any domestic wells or other domestic water sources located within 150', 100, or 50' of the irrigation site?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<i>If yes to either of the above, identify the number of wells or sources and identify their location on the attached site plan. See Table 2.</i>		

POTENTIAL RUN-OFF POINTS ARE LOCATED AT THE (CHECK ALL THAT APPLY):

<input checked="" type="checkbox"/>	North boundary (specify): General runoff will occur on north boundary of all sites as the Powder River flows north.
<input type="checkbox"/>	South boundary (specify):
<input type="checkbox"/>	East boundary (specify):
<input type="checkbox"/>	West boundary (specify):

PUBLIC ACCESS WILL BE CONTROLLED BY THE FOLLOWING (CHECK ALL THAT APPLY):

<input checked="" type="checkbox"/>	No trespassing or warning signs (specify spacing): ±200 linear feet
<input checked="" type="checkbox"/>	Fencing (specify type): Barbed wire at reuse sites
<input type="checkbox"/>	Other (specify):

BARRIERS ON BOUNDARIES THAT MAY MITIGATE AEROSOL DRIFT (CHECK ALL THAT APPLY)

<input type="checkbox"/>	Natural vegetation (specify height and width):
<input type="checkbox"/>	Natural topography (specify):
<input type="checkbox"/>	Tree or fence row (specify height):
<input type="checkbox"/>	Other (specify):
<input checked="" type="checkbox"/>	None:

IRRIGATION METHOD (CHECK ALL THAT APPLY)

<input type="checkbox"/>	Set sprinkler heads with spray height of _____ and spray diameter of _____
<input type="checkbox"/>	Wheel irrigation line with spray height of _____ and spray diameter of _____
<input type="checkbox"/>	Big gun irrigation with spray height of _____ and spray diameter of _____
<input checked="" type="checkbox"/>	Other (specify): Pivot irrigation

IRRIGATION EQUIPMENT SPECIFICATIONS (insert more rows as needed)

Sprinkler head types (brand and model)	Irrigation zones/cells	PSI operating ranges
The City is currently working with landowners to obtain data.		

Recycled Water Use Plan Summary

REQUIRED ATTACHEMENTS:

1. Overhead scale diagram/plan view of the wastewater treatment plant that identifies the treatment and disinfection components of the plant.
2. Overhead scale diagram/plan view of the transport line from wastewater treatment plant to the reuse area.
3. Overhead scale diagram/plan of the irrigation site showing surrounding properties and irrigation system layout.
4. A full copy of the Recycled Water Use Plan.

HEALTH DIVISION REVIEW COMMENTS:

Print Form

Oregon Water Resources Department

Municipal Reclaimed Water Registration Form

A water use permit may not be required if the water being used is reclaimed water as defined in ORS 537.131 and the reclaimed water use is both authorized by the Oregon Department of Environmental Quality (DEQ) and registered with Oregon Water Resources Department (WRD)(ORS 537.132). Currently there is no fee for registering.

Complete and send this Registration Form to the DEQ permit writer managing the wastewater treatment facility discharge permit. DEQ will review and sign this Registration Form prior to sending it on to WRD in Salem. A response letter will be sent by WRD to all parties within 60 days of receipt.

Instructions are available to guide you. If you need assistance, please call 503-986-0900 and ask for the "Water Reuse Coordinator" or contact the local watermaster in your county. Insert "N/A" if the requested information does not apply to your situation.

1. Name of "Registrant". Who will use the reclaimed water?

Name of Reclaimed Water User: Rob and Lori Thomas

County where reclaimed water use will occur: Baker County

Mail Address: 42734 Oregon Trail Road, Baker City, Oregon 97814

Street/P.O. Box

City

State

Zip

Daytime Telephone: (541) 403-0562

E-mail: rob.thomas@thomasangusranch.com

2. Does the reclaimed water user own the land where the use will occur?



YES



NO

If no, provide the landowner's name and contact information.

Landowner Name: _____

Mail Address: _____

Street/P.O. Box

City

State

Zip

Daytime Telephone: _____

E-mail: _____

3. Are there existing water rights on the same land where the use will occur?



YES (provide information below)



NO

Application No. See Table 1.

Permit No. See Table 1.

Certificate No. See Table 1.

Decree vol. & pg. See Table 1.

Will the reclaimed water be used instead of existing water rights OR used to supplement the continued use of the existing water rights? Supplement

4. Has DEQ issued a Municipal Wastewater Treatment Facility Discharge Permit authorizing the use of reclaimed water? (If yes, provide permit number)

YES NPDES Permit No. _____ or WPCF Permit No. 103287

Permit Effective Date: August 24, 2022 Permit Expiration Date: July 31, 2032

DEQ Region: (Check one) Northwest Region Eastern Region Western Region

NO Permit application was submitted to DEQ, but not yet issued.

NO Permit application has not been submitted to DEQ.

5. Who is treating and supplying the reclaimed water to the user?

Name of Supplier: City of Baker City Telephone No. (541) 524-2031

Treatment Facility Name: Baker City Wastewater Treatment Facility Telephone No. (541) 524-2031

Mail Address: P.O. Box 650, Baker City, Oregon 97814
Street/P.O. Box City State Zip

6. Which water provider supplies potable municipal water to the city/community that produces the sewage entering the treatment facility?

Municipal Water Provider: City of Baker City Telephone No. (541) 524-2031

Source(s) of Municipal Water: Surface water from Baker City watershed
(stream name, groundwater, and/or reservoir name)

7. Will the use of reclaimed water occur inside or outside the water service boundaries of the potable municipal water provider identified above in Question 6?

INSIDE OUTSIDE

8. What is the length in years of the agreement/contract between the reclaimed water user and the reclaimed water supplier? Perpetual

Describe any conditions in the agreement that limit use of the reclaimed water.

Conditions include irrigating at acceptable agronomic rates, keeping livestock from direct contact with recycled water, observing property line setbacks, and other conditions outlined in the City of Baker City Recycled Water Use Plan.

9. Please describe the transmission system that delivers reclaimed water from the wastewater treatment facility to the place of reclaimed water use.

In 2022, the City of Baker City completed a Wastewater System Improvements project that included a new effluent pump station that diverts treated wastewater through a 6-mile, 14-inch effluent forcemain to a new effluent storage pond. Along the forcemain alignment there are irrigation connections for the recycled water user.

(Include type of construction of diversion works/pump capacity, length and dimensions of supply ditches/ pipelines)

10. What is the Intended Use(s) of Reclaimed Water?

Irrigation

(irrigation, aquifer recharge, wetlands, industrial, cooling, aquifer storage & recovery, etc.)

Irrigation Total Acres: 326 What type of crop? Pasture
(hay, pasture, golf course, wood fiber, etc.)

What is the irrigation application system? Center pivot
(flood, center pivot, wheel line, drip, micro-sprinklers)

How much Reclaimed Water will be used? 2,250 gallons per minute
(cubic feet per second, OR gallons per minute)

Date use began or will begin: September 2022 Period of use (month/day): from April 1 to October 31

11. What are the water user's motivations to use reclaimed water?

- My existing water rights are "junior" and not always reliable.
- Another water source is available, but reclaimed water is less expensive.
- Reclaimed water is the only source available and enables the use listed in Question 10.
- Reclaimed water allows a WRD transfer of existing water rights to a different location.
- Reclaimed water use reduces demand on the local municipal water supply.
- To assist the treatment facility in meeting DEQ regulatory permit requirements.
- To recharge the aquifer or store water in the aquifer for future recovery.
- Other (describe): _____

12. Describe the historic reclaimed water disposal method.

A) Into which stream was the reclaimed water discharged? Powder River

B) Has the reclaimed water been discharged into the stream for 5 or more years?

YES NO

C) Where did the treated wastewater historically enter the stream?

River mile 116.3
(Township, Range and Section, or distance from landmark, or river mile, or Lat/Long)

D) Does the amount (rate in gpm or cfs) of reclaimed water proposed for use under this registration represent more than 50% of the total average annual flow of the stream?

YES NO UNKNOWN

Source of information used to answer this? U.S. Geological Survey stream data for the Powder River at Baker City, Oregon

13. Is the required map attached showing the reclaimed water transmission

system and place of use? YES NO (If No, please prepare and attach map).

The Registration Form is not complete without an adequate map.
See map requirement explanation on page 4.

14. MAP REQUIREMENTS:

This registration must be accompanied by a map, or maps, to show the location of the wastewater treatment facility, location of reclaimed water transmission system (pipelines, canals, etc.) and the place of reclaimed water use. Features of the map(s) should include the following:

- A north arrow.
- Drawn to scale at not less than 4" = 1 mile, with the scale identified.
- Township, Range, Section, Quarter-Quarters, and tax lot number(s).
- Place of use shown by Quarter-Quarter section with shading or diagonal lines.
- Acres, if land application, per Quarter-Quarter section (approximate if not certain).
- Location of main canals or pipelines to and within the reclaimed water use area.
- Streams and roads identified if they cross through the map.
- Other obvious features that would help someone in the field locate the place of use.
- A legend.

**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.*

15. ADDITIONAL COMMENTS: Provide additional information here or attach additional pages.


The following figures from the City's Recycled Water Use Plan are attached:

- Figure 1-1, Location and Vicinity Maps
- Figure 2-1, Thomas Reuse Sites
- Figure 8-1, Tax Lot Map

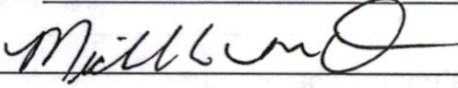
16. Signatures of Registrant and Reclaimed Water Supplier:

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

Registrant Printed Name: Rob Thomas Title: Landowner/Reclaimed Water User

Registrant Signature:  Date: Aug 23, 2022
Rob Thomas (Aug 23, 2022 16:12 PDT)

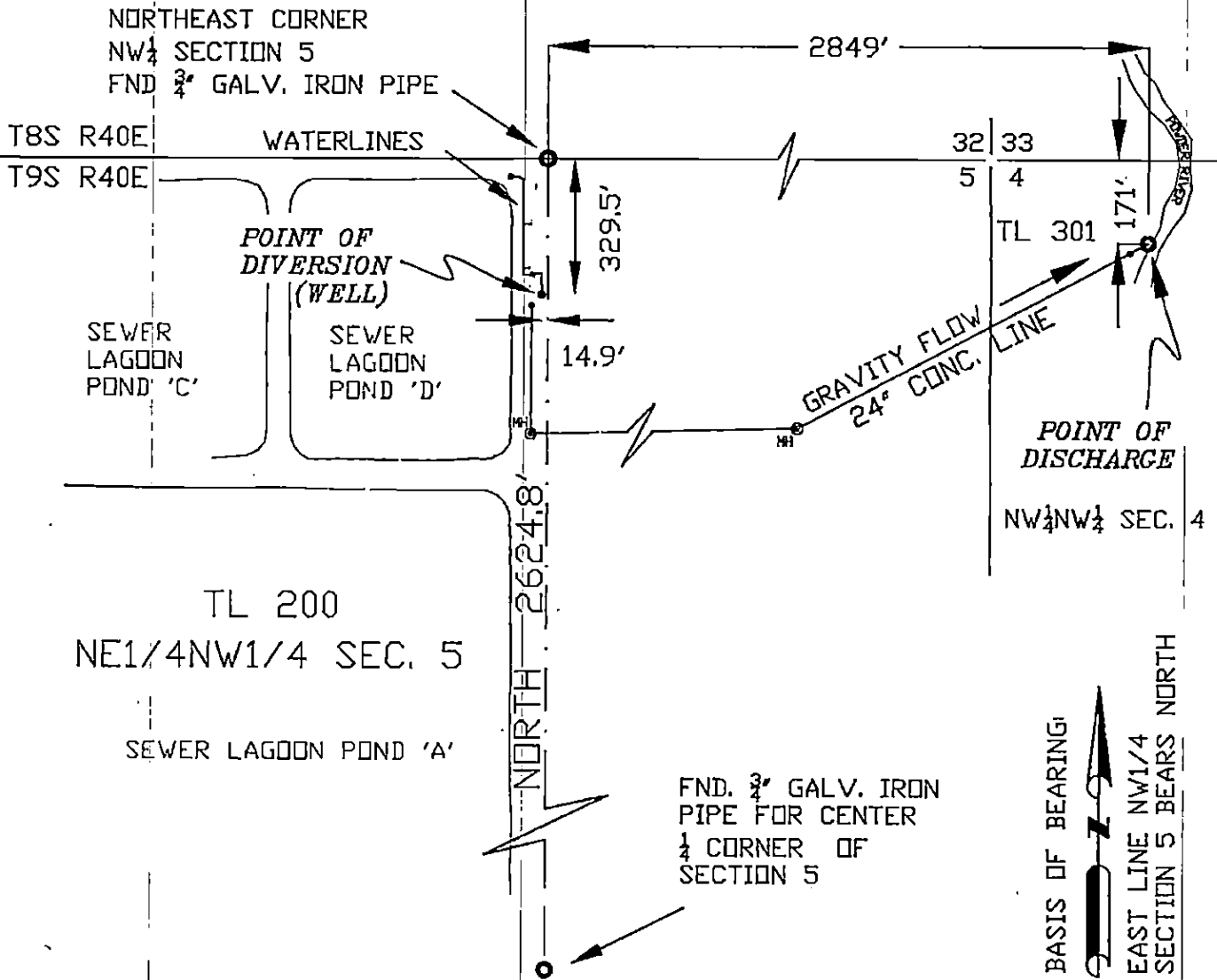
Supplier Printed Name: Michelle Owen Title: Public Works Director

Supplier Signature:  Date: 8/23/2022

NOTE: Once completed and signed, keep a copy and send this form to the DEQ permit writer responsible for the wastewater treatment facility permit. DEQ will sign and forward the form to WRD in Salem. A response letter will be sent by WRD to all parties within 60 days.

T.9S., R.40E., W.M.

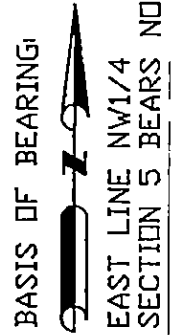
NW¹/₄NW¹/₄ SECTION 4 & NE¹/₄NW¹/₄ SECTION 5



TL 200
NE¹/₄NW¹/₄ SEC. 5

SEWER LAGOON POND 'A'

FND. 3" GALV. IRON
PIPE FOR CENTER
1/4 CORNER OF
SECTION 5



SCALE 1"=400'

WATER RIGHTS
MAP OF
FINAL PROOF SURVEY

RECEIVED

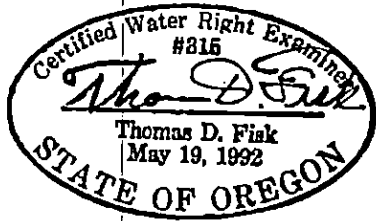
OCT 26 2007

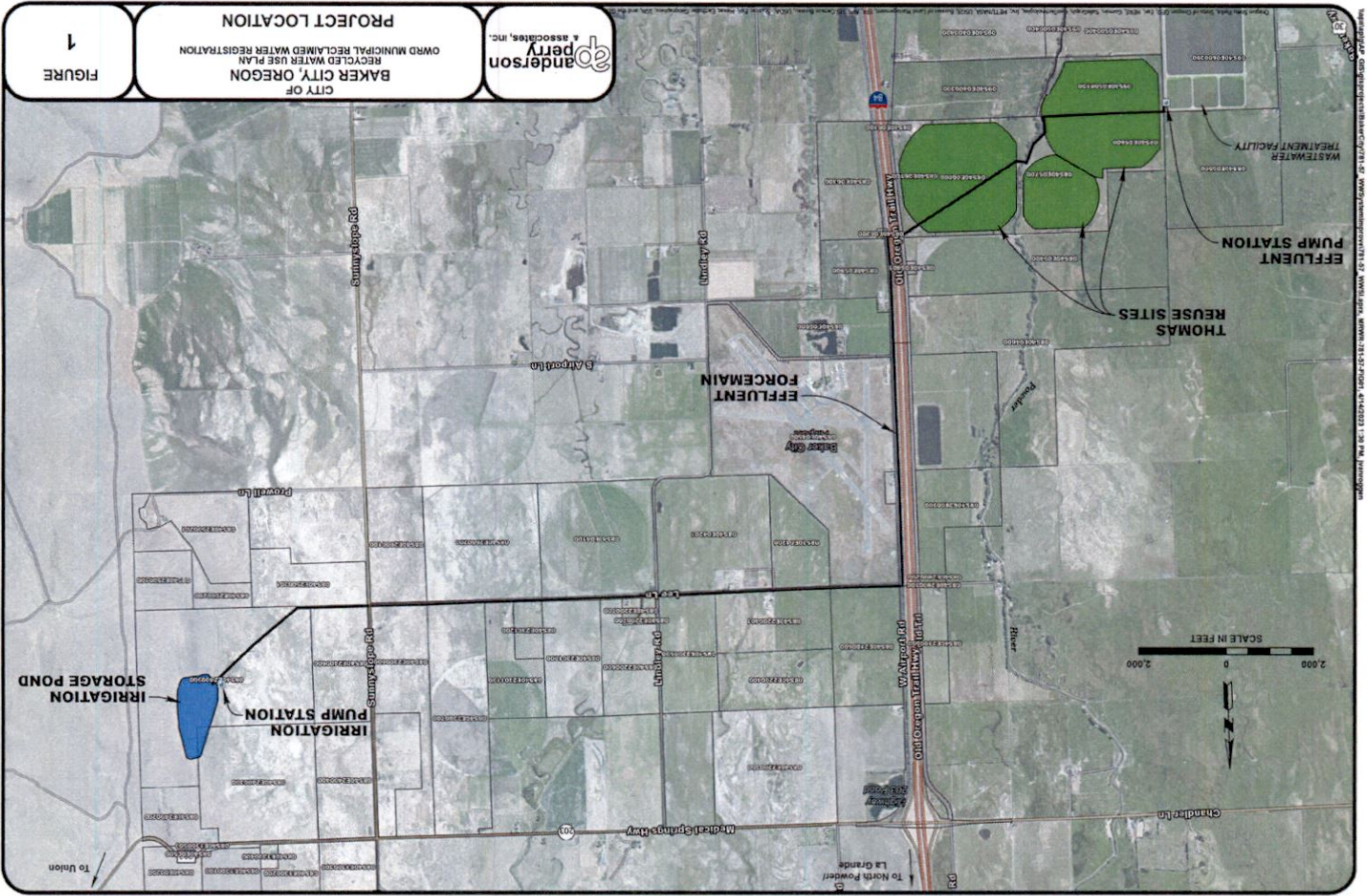
WATER RESOURCES DEPT
SALEM, OREGON

DISCLAIMER

"THIS MAP IS NOT
INTENDED TO PROVIDE
LEGAL DIMENSIONS OR
LOCATIONS OF PROPERTY
OWNERSHIP LINES"

PREPARED FOR:
THE CITY OF BAKER CITY
OCTOBER 19, 2007.
APPLICATION #G-14237
PERMIT #G-12888



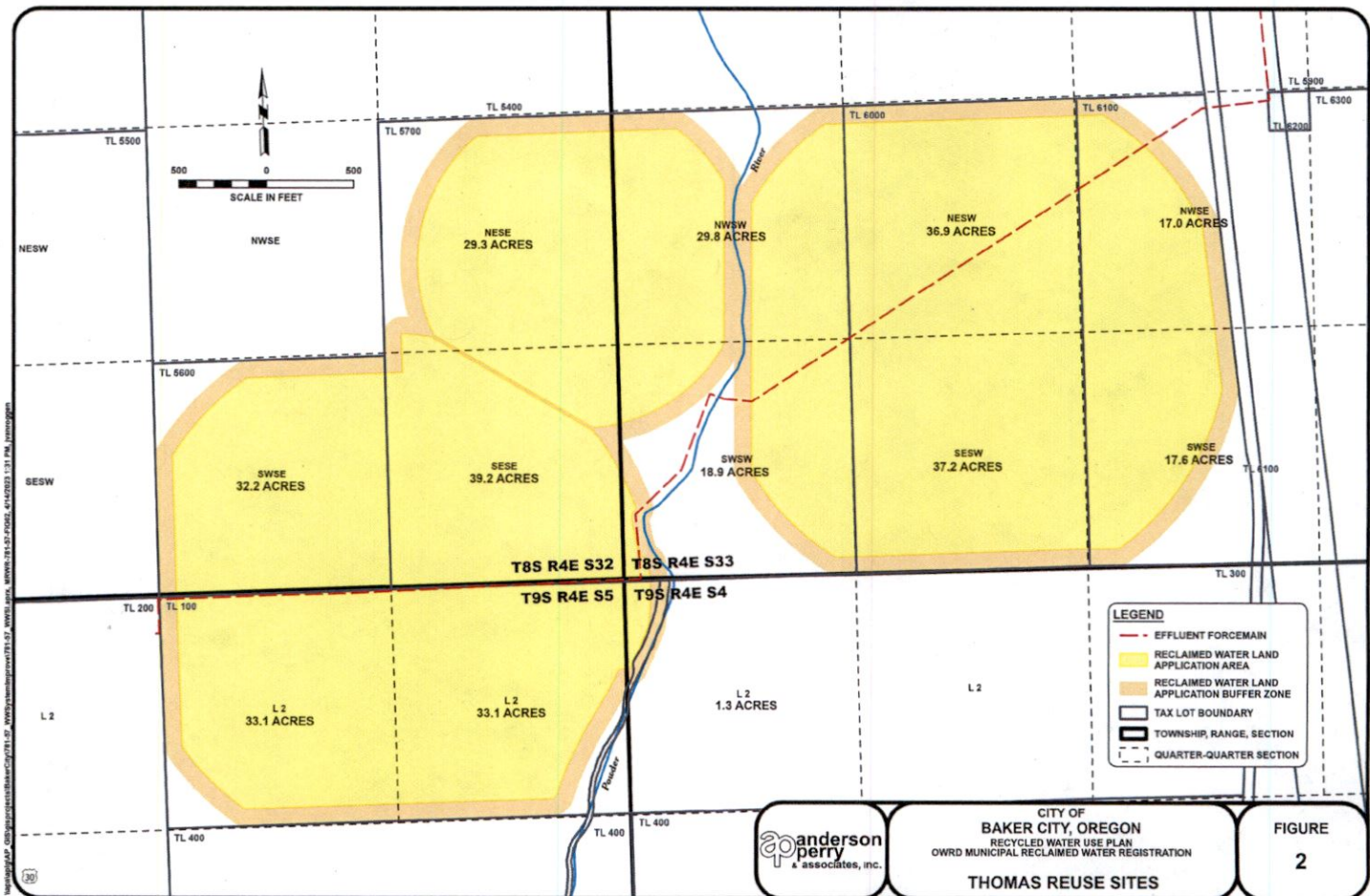


CITY OF
BAKER CITY, OREGON
RECYCLED WATER USE PLAN
OWRD MUNICIPAL RECLAIMED WATER REGISTRATION

anderson
berry
& associates, inc.

FIGURE
1

10/15/2014 10:58:11 AM
 C:\Users\jgibson\Documents\Projects\Baker City\Baker City Recycled Water Use Plan\Baker City Recycled Water Use Plan - OWRD Municipal Reclaimed Water Registration\Baker City Recycled Water Use Plan - OWRD Municipal Reclaimed Water Registration - 10/15/2014 10:58:11 AM.dwg
 10/15/2014 10:58:11 AM



This section is to be completed by DEQ.

17. Signature of DEQ Water Quality Manager:

Date registration form received at DEQ: 3/23/2023

Pursuant to ORS 537.132 DEQ has:

a) Authorized the use of reclaimed water (referred to by DEQ regulations as "recycled water") as evidenced by the NPDES or WPCF permit issued and described below.

Permit Number: 103287 DEQ File Number: _____

Printed DEQ Permit Writer's Name: Anna Morgan-Hayes

Mail Address: 475 NE Bellevue Dr. Ste 110, Bend, OR 97701
Street/P.O. Box City State Zip

Telephone: 541-246-4562 E-mail: anna.morgan-hayes@deq.oregon.gov

b) Consulted with State Department of Fish and Wildlife and determined this use of reclaimed water shall not have a significant negative impact on fish or wildlife.

ODFW contact name: Becky Anthony

ODFW contact phone number: 971-375-7394

c) Determined the use of reclaimed water is intended to improve the water quality of the receiving stream.

The reclaimed water is (e.g. too warm for salmonids): The reclaimed water is not an impact to salmonids.

I certify the provisions of ORS 537.132(1)(a)(b) and (c) for this application are satisfied.



Date 4/3/2023

DEQ Water Quality Manager Signature

Mike Hiatt

DEQ Water Quality Manager's printed name

Once signed by DEQ, this completed form is to be sent to:

Oregon Water Resources Department
C/O Water Reuse Coordinator
725 Summer St. NE, Suite A
Salem, OR 97301-1266

**THOMAS REUSE SITE
EXISTING WATER RIGHTS**

Thomas West Reuse Site

First Name	Last Name	Use Description	Priority Date	Application	Permit	Certificate	Decree Title
Richard	Kruger	Irrigation	12/31/1869	-	-	92197	Powder River
Robert	Thomas	Irrigation	05/06/1876	-	-	92198	Powder River
William E	Widman	Supplemental Irrigation	11/23/1965	G 3305	G 3078	37997	-

Thomas North Reuse Site

First Name	Last Name	Use Description	Priority Date	Application	Permit	Certificate	Decree Title
Robert	Thomas	Irrigation	05/06/1876	-	-	92198	Powder River

Thomas East Reuse Site

First Name	Last Name	Use Description	Priority Date	Application	Permit	Certificate	Decree Title
Robert	Thomas	Irrigation	05/06/1876	-	-	92198	Powder River
ODFW		Anadromous and Resident Fish Habitat (In-stream)	1/29/1992	IS 72191	-	-	-

Note: Data shown on this table were obtained from the Oregon Water Resources Department Water Rights Mapping Tool.

ODFW = Oregon Department of Fish and Wildlife



CITY OF
BAKER CITY, OREGON
OREGON WATER RESOURCES DEPARTMENT
MUNICIPAL RECLAIMED WATER REGISTRATION FORM
**THOMAS REUSE SITE
EXISTING WATER RIGHTS**

TABLE

1

This section is to be completed by DEQ

17. Signature of DEQ Water Quality Manager:

Date registration form received at DEQ: _____

Pursuant to ORS 537.132 DEQ has:

- a) **Authorized the use of reclaimed water (referred to by DEQ regulations as “recycled water”) as evidenced by the NPDES or WPCF permit issued and described below.**

Permit Number: _____ DEQ File Number: _____

Printed DEQ Permit Writer's Name: _____

Mail Address: _____
Street/P.O. Box City State Zip

Telephone: _____ E-mail: _____

- b) **Consulted with State Department of Fish and Wildlife and determined this use of reclaimed water shall not have a significant negative impact on fish or wildlife.**

ODFW contact name: _____

ODFW contact phone number: _____

- c) **Determined the use of reclaimed water is intended to improve the water quality of the receiving stream.**

The reclaimed water is (e.g. too warm for salmonids): _____

I certify the provisions of ORS 537.132(1)(a)(b) and (c) for this application are satisfied.

_____ Date
 DEQ Water Quality Manager Signature

 DEQ Water Quality Manager's printed name

Once signed by DEQ, this completed form is to be sent to:

Oregon Water Resources Department
 C/O Water Reuse Coordinator
 725 Summer St. NE, Suite A
 Salem, OR 97301-1266



CITY OF
BAKER CITY, OREGON
RECYCLED WATER USE PLAN SUMMARY
MACKENZIE REUSE SITES

FIGURE
C

29.0
25.0

54.0 total

C:\BAKER\BTR\5-0\Map\Anderson Perry\BTR-24-FAC-C-Map_Legend.rvt 11/10/2022 10:42 AM 10/10/2022

119.0
 97.0
 216.0

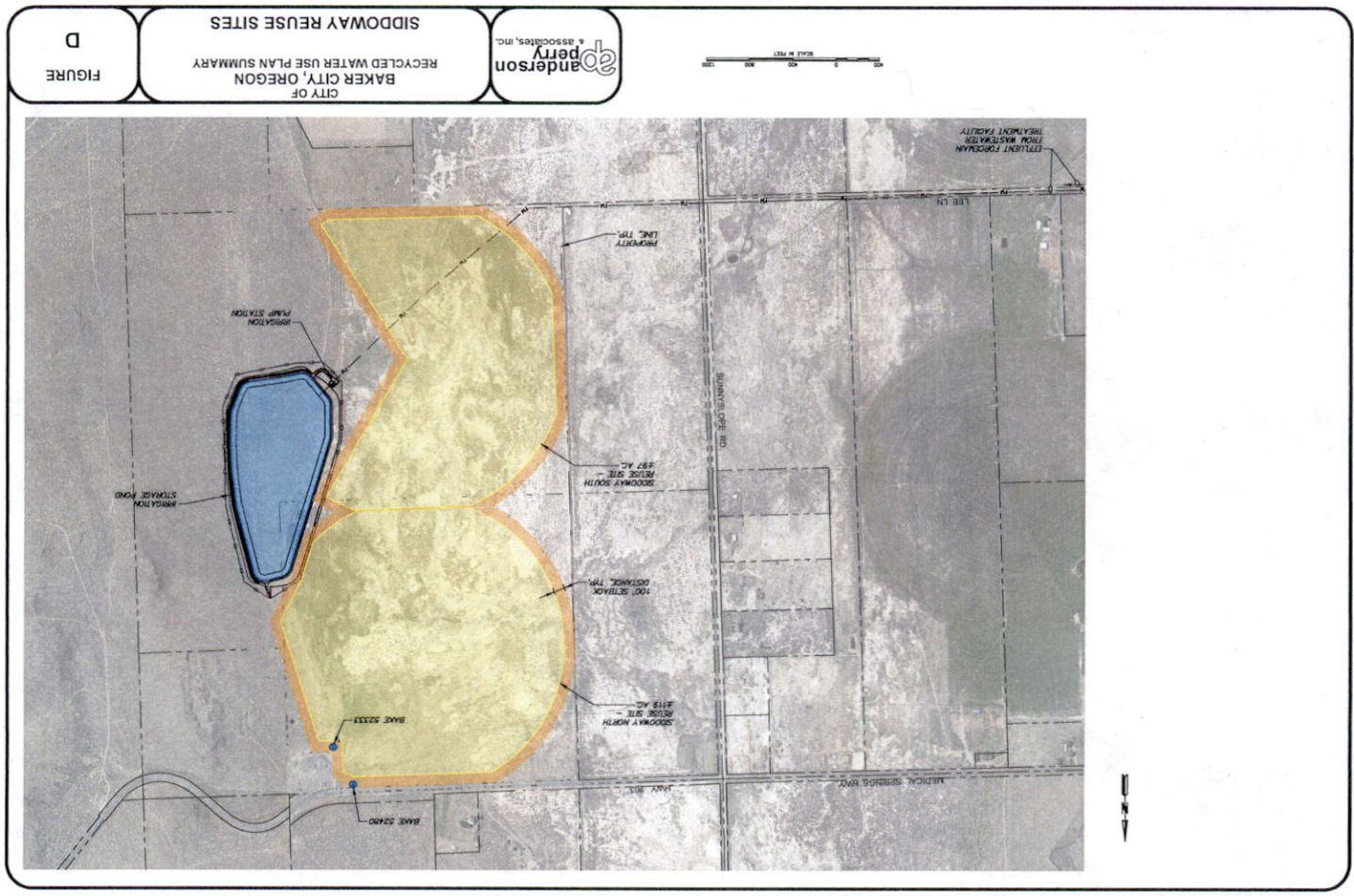
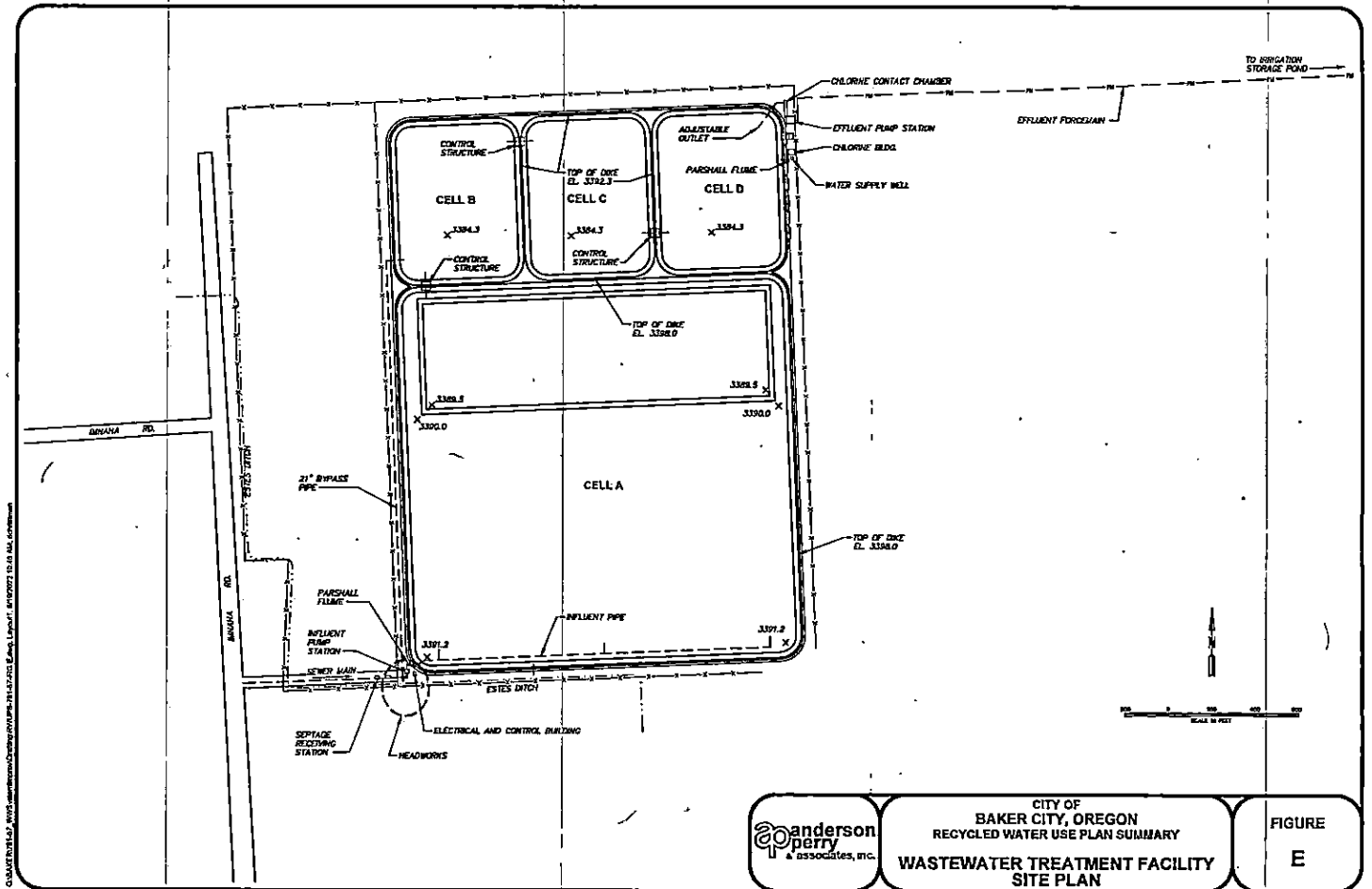


FIGURE D

20240518 11:00 AM 119.0 97.0 216.0

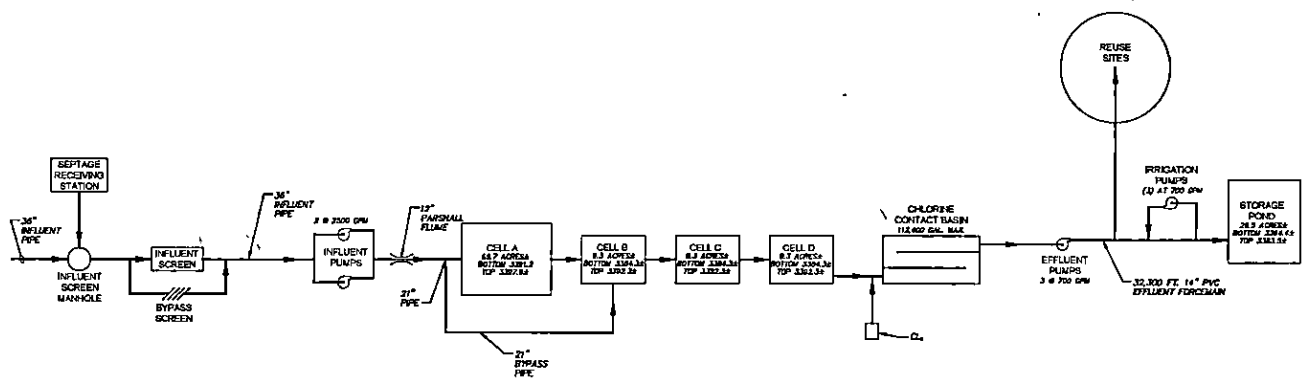


CITY OF
 BAKER CITY, OREGON
 RECYCLED WATER USE PLAN SUMMARY
**WASTEWATER TREATMENT FACILITY
 SITE PLAN**

**FIGURE
 E**

QUANTITIES, WEIGHTS, DIMENSIONS, ETC. SHOWN ON THIS PLAN ARE APPROXIMATE AND SHOULD BE CHECKED ON THE GROUND.

0:04:17:15.47 - 1/10/2019 10:00:00 AM - 1/10/2019 10:00:00 AM - 1/10/2019 10:00:00 AM



PROCESS FLOW DIAGRAM

	CITY OF BAKER CITY, OREGON RECYCLED WATER USE PLAN SUMMARY PROCESS FLOW DIAGRAM	FIGURE F
--	---	---------------------

G:\BAKER\9191-c2_1\003\perry\perry\003\9191-c2\9191-c2.dwg, Layout1, 8/19/2022 10:40 AM, d:\cmm\m...



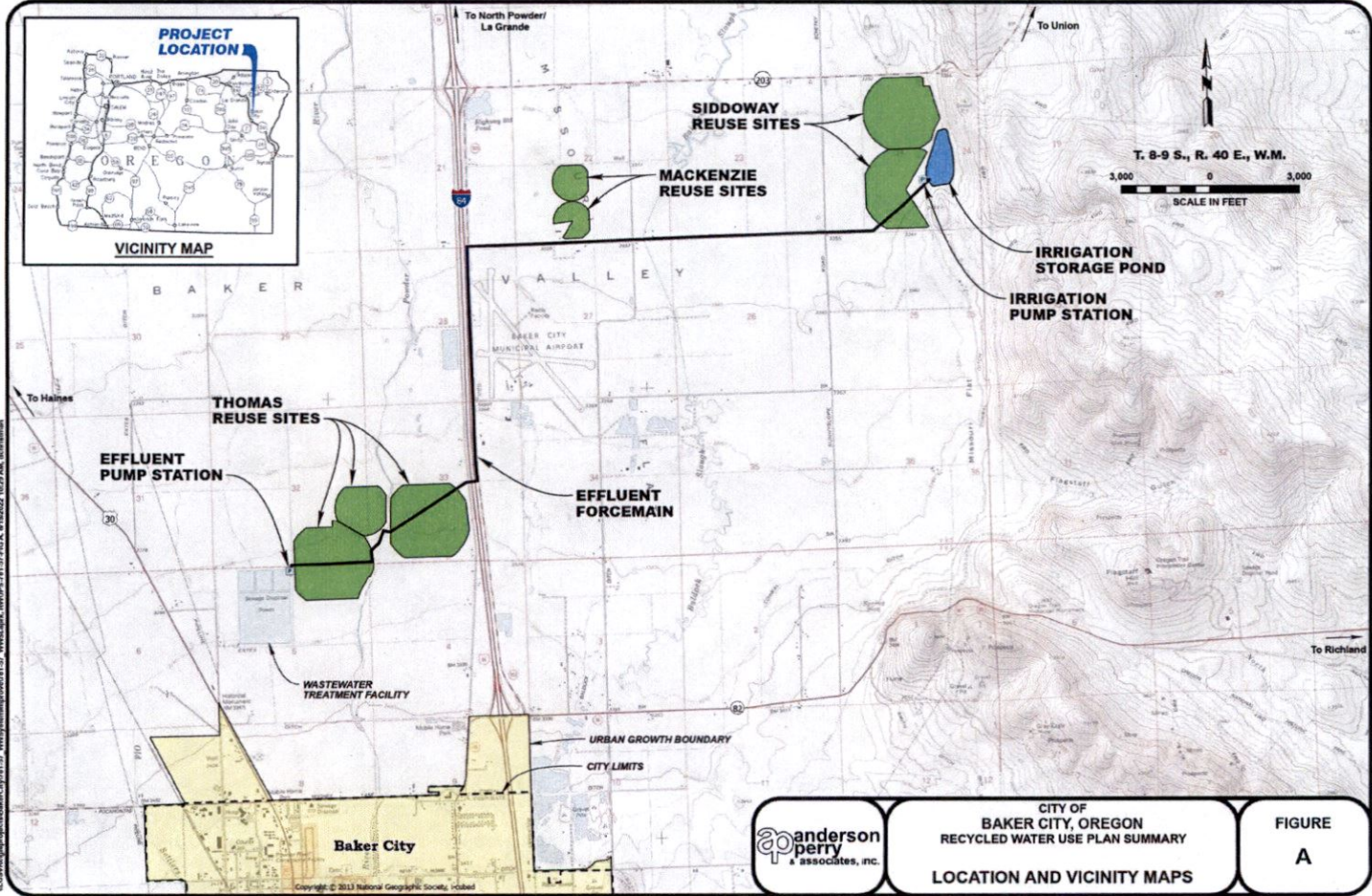
ap anderson
perry
& associates, inc.

CITY OF
BAKER CITY, OREGON
RECYCLED WATER USE PLAN SUMMARY
THOMAS REUSE SITES

**FIGURE
B**

136.0
55.0
135.0

376.0 total

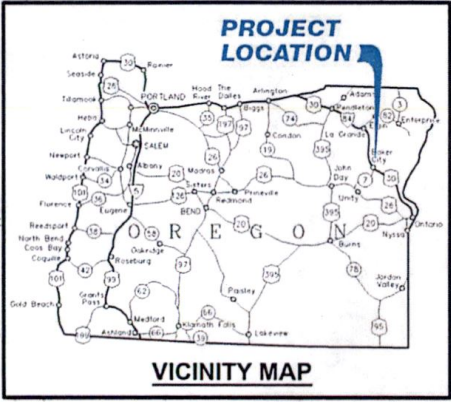


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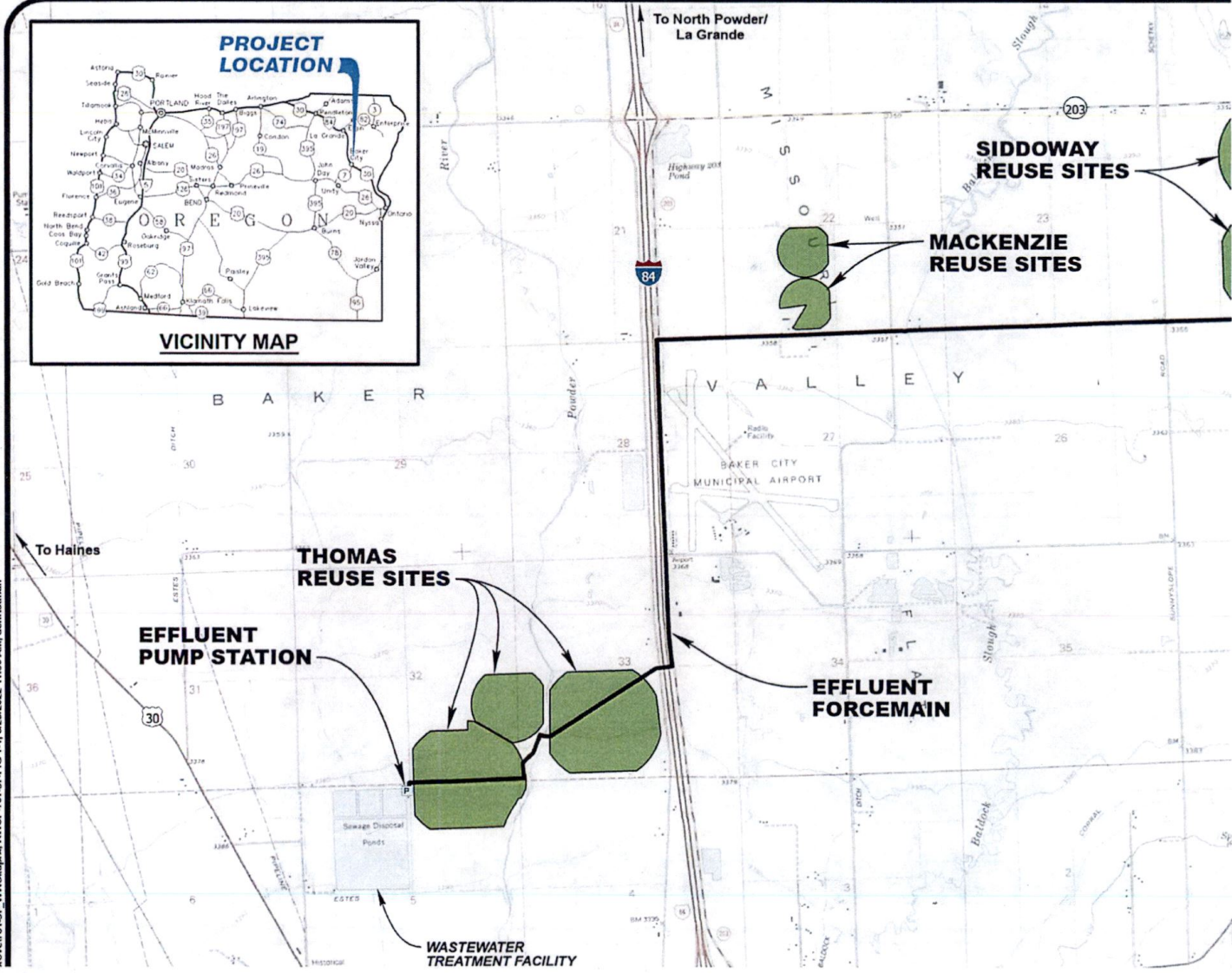
**anderson
perry**
& associates, inc.

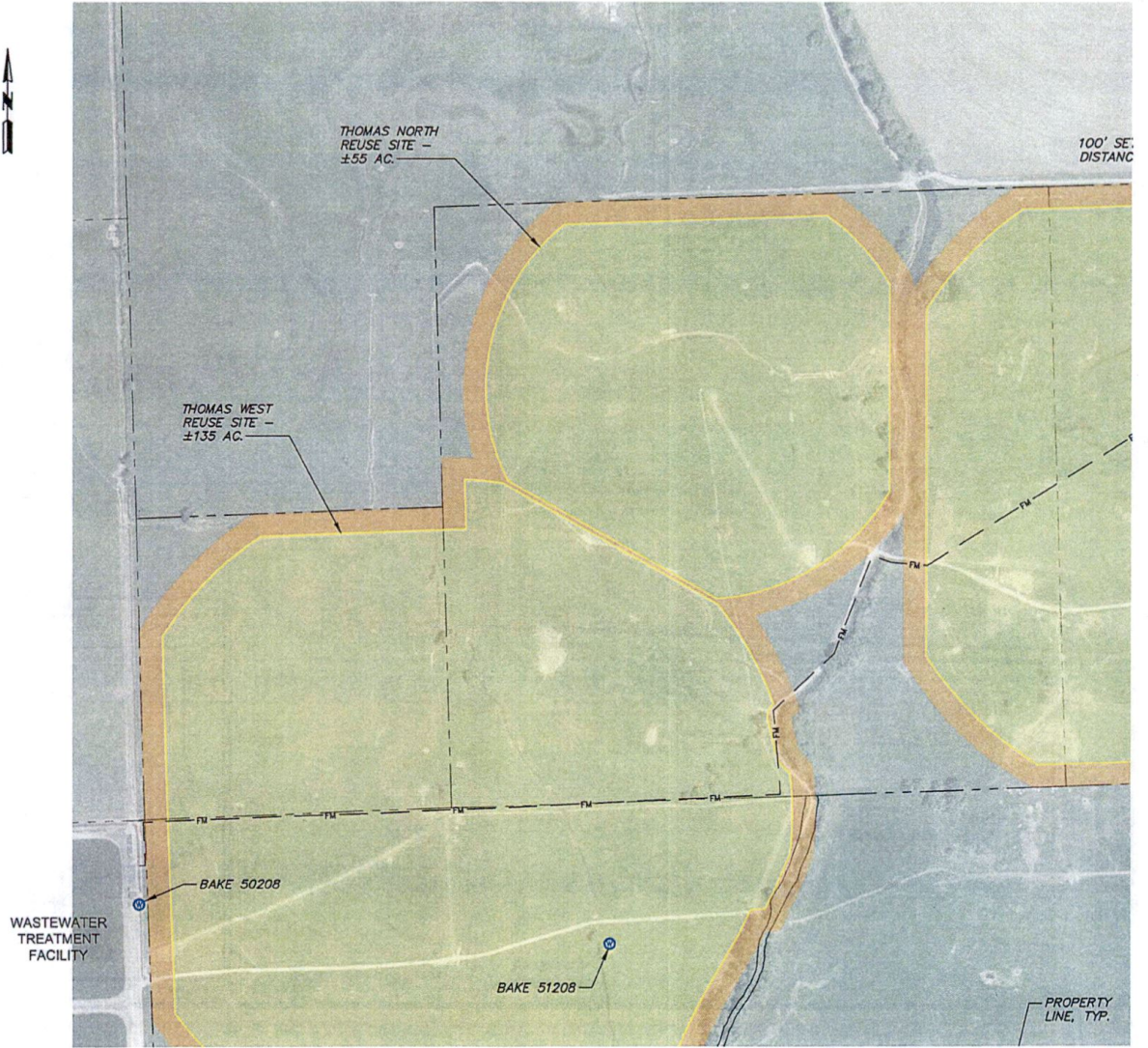
CITY OF
BAKER CITY, OREGON
RECYCLED WATER USE PLAN SUMMARY
LOCATION AND VICINITY MAPS

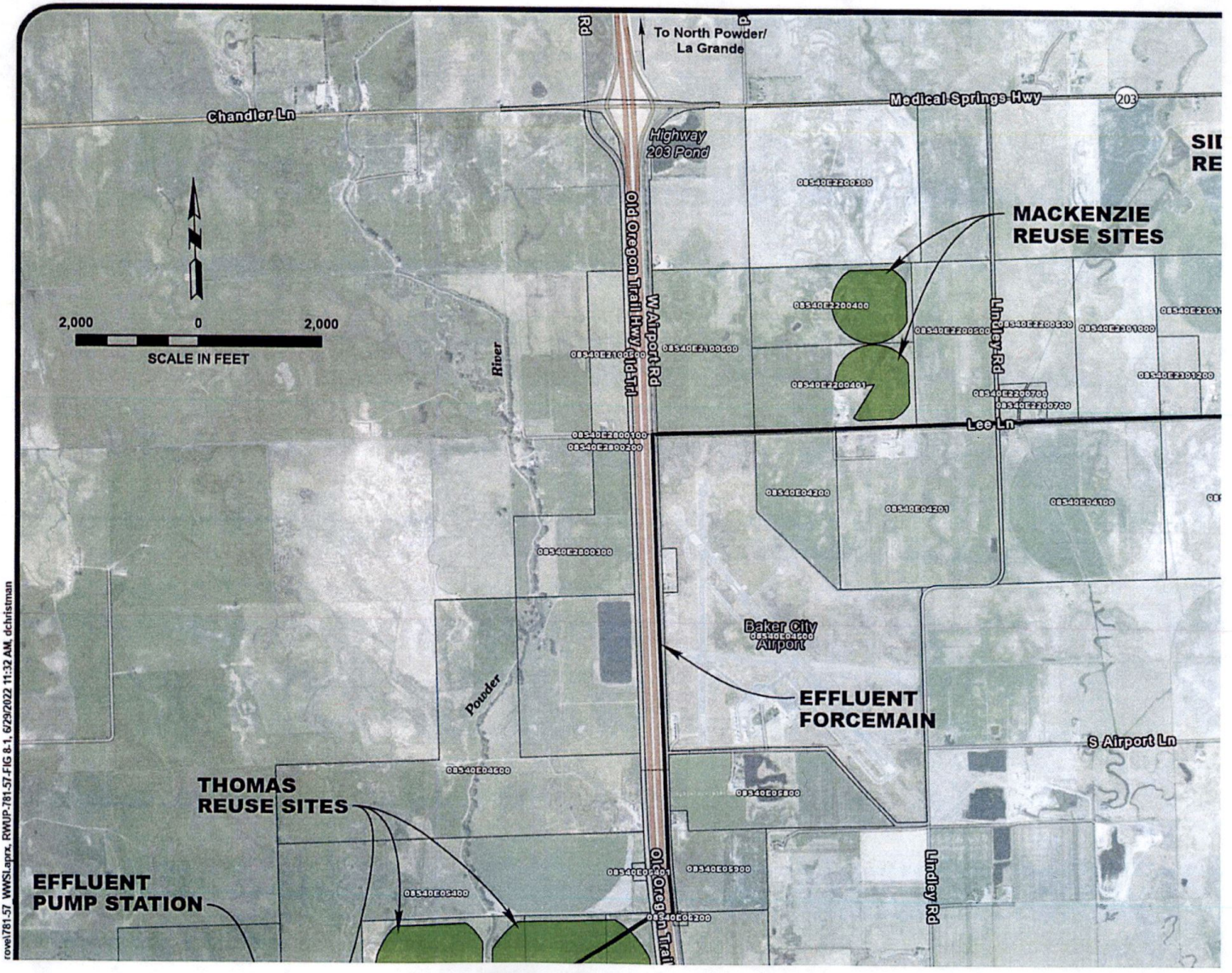
FIGURE
A



kove/781.57 WWSL.aprx, RWUP-781-57.FIG 1-1, 6/29/2022 11:30 AM, dchistman







rowel781-57_WWS1Aprx_RWUP_781-57-FIG 6.1_6/29/2022 11:32 AM_dchristman

NEARBY DEVELOPED PROPERTIES

Site	Approximate Distance to Nearest Developed Property				Nearest Developed Property Downwind of Irrigation Site ¹
	North Boundary	South Boundary	East Boundary	West Boundary	
Thomas West Reuse Site	4,200 ft	2,600 ft	3,000 ft	2,500 ft	Residence located approximately 2,600 ft from south boundary.
Thomas North Reuse Site	2,600 ft	3,500 ft	2,800 ft	4,000 ft	Residence located approximately 4,000 ft from south boundary.
Thomas East Reuse Site	1,900 ft	1,300 ft	4,600 ft	6,200 ft	Barn/residence located approximately 1,300 ft from the south boundary.
Mackenzie North Reuse Site	2,100 ft	1,000 ft	1,900 ft	1,600 ft	Residence located approximately 1,000 ft from the south boundary.
Mackenzie South Reuse Site	950 ft	300 ft	1,150 ft	300 ft	Residence located approximately 300 ft from the south boundary.
Siddoway North Reuse Site	500 ft	2,400 ft	2,200 ft	1,600 ft	Residence located approximately 3,900 ft from the south boundary.
Siddoway South Reuse Site	2,100 ft	1,700 ft	3,000 ft	1,800 ft	Residence located approximately 1,700 ft from the south boundary.

¹ Assumes prevailing wind direction from the north.

ft = feet



CITY OF
BAKER CITY, OREGON
RECYCLED WATER USE PLAN SUMMARY

**NEARBY DEVELOPED
PROPERTIES**

TABLE
1

NEARBY GROUNDWATER WELLS

Site	Well	Well Owner ¹	Well Use	Reference Figure ²
Thomas West Reuse Site	BAKE 50208	City of Baker City	Domestic Use, Other - Washdown	Figure B
Thomas West Reuse Site	BAKE 51208	City of Baker City	Unknown ²	Figure B
Thomas East Reuse Site	BAKE 50959	Diehl and Nicki Hiner	Domestic Use	Figure B
Thomas East Reuse Site	BAKE 51007	Diehl and Nicki Hiner	Pasture Irrigation	Figure B
Thomas East Reuse Site	BAKE 51008	Diehl and Nicki Hiner	Yard Irrigation	Figure B
Mackenzie South Reuse Site	BAKE 609	Wm. Burke	Livestock Irrigation	Figure C
Mackenzie South Reuse Site	BAKE 52646	Wannie Mackenzie	Domestic Use	Figure C
Siddoway North Reuse Site	BAKE 52480	Bert Siddoway	Pasture Irrigation	Figure D
Siddoway North Reuse Site	BAKE 52333	Bert Siddoway	Livestock Irrigation, Other - Exploratory	Figure D

¹According to well log.

²Abandoned.



CITY OF
BAKER CITY, OREGON
RECYCLED WATER USE PLAN SUMMARY

NEARBY GROUNDWATER WELLS

TABLE
2

RECLAIMED WATER REGISTRATION CHECKLIST

RM (assigned by Joan): RM-240 County: Baker Registrant (User of Water): Thomas Angus Ranch

Place of Use:

IRRIGATION							Contract Length in Years
Twp	Rng	Mer	Sec	Q-Q	Acres	Location Description/Tax lot	
8 S	40 E	WM	32	NE SE	29.3	5700	10 Years August 2022 through July 31, 2032 <i>*Use period April 1- October 31</i>
8 S	40 E	WM	32	SW SE	32.2	5600	
8 S	40 E	WM	32	SE SE	39.2	5700	
8 S	40 E	WM	33	NE SW	36.9	6000	
8 S	40 E	WM	33	NW SW	29.8	5700	
8 S	40 E	WM	33	SW SW	18.9	5700	
8 S	40 E	WM	33	SE SW	37.2	6000	
8 S	40 E	WM	33	NW SE	17.0	6100	
8 S	40 E	WM	33	SW SE	17.6	6100	
9 S	40 E	WM	4	NW NW	1.3	100	
9 S	40 E	WM	5	NE NE	33.1	100	
9 S	40 E	WM	5	NW NE	33.1	100	
Total					325.6		

Amount: 2,250 gpm (5.013 cfs) Use: SUPPLEMENTAL IRRIGATION # of Acres (if for IR): 325.6 WM Dist #: 8

Supplier of the Reclaimed Water: City of Baker City DEQ Muni WW Permit #: WPCF 103287

Source of Reclaimed Water (Wastewater treatment plant): City of Baker City Wastewater Treatment Facility

Point of Diversion:

Twp	Rng	Mer	Sec	Q-Q
9 S	40 E	WM	5	NE NW

Agent (if any): _____

Property Ownership: Does Registrant own all land for the proposed project? Yes No

If No: The affected landowner's name and mailing address is listed. Notes:

The map must meet the following minimum requirements.

- Township, Range, Section
- Streams and roads identified as they cross through the map
- Place of use, Q-Qs, and tax lot clearly identified
- Even map scale of not less than 44" = 1 mile (1" = 1320 ft.)
- Location of each diversion point (WW Treatment Plant)
- North Directional Symbol
- Number of acres per Q-Q if for irrigation, nursery, or agriculture
- Legend

* 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

Existing Water Rights: 92197, 92198, 37997

DO NOT send registration back to applicant if it is not complete. ALL registrations go to Joan Smith.

Reviewed by:

A handwritten signature in blue ink, appearing to read "Joan Smith", written over a horizontal line.

Date: April 19, 2023

*Remember there is no fee for Reclaimed Water Registrations