

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-9427
Exam Date: 08/01/2024

1. Current Owner:
REMINGTON WATER DISTRICT PO BOX 468 ATHOL ID 83801-0468
2. Accompanied by: BOB KUCHENSKI
Phone No: (208) 659-4197
Address: 1642 SHOSHONE AVE, ATHOL, ID 83801
Relationship to Permit Holder: WATER SYSTEM OPERATOR

3. SOURCE:
GROUND WATER

Method of Determination: ArcMap and DRG.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
95-9457	GROUNDWATER	MUNICIPAL	DECREE
95-9458	GROUNDWATER	MUNICIPAL	DECREE
95-10231	GROUNDWATER	DOMESTIC	DECREE
95-18084	GROUNDWATER	DOMESTIC	PERMIT
95-18101	GROUNDWATER	DOMESTIC, IRRIGATION & STOCKWATER	PERMIT
95-18602	GROUNDWATER	DOMESTIC & IRRIGATION	PERMIT

Comments: Decreed Rights 95-9457 & 95-9458 for Remington Water District provide services to the same municipal POU as this water right 95-9427. Condition X35 has been incorporated during licensing to mitigate any overlap concerns related to diversion rate related to the combined water use for the three rights. Due to the large POU service area of the Remington Water District, there are numerous other water rights that overlap the POU but are not connected to the Remington Water District. There is only one decreed water right 95-10231 for domestic use from a private well that is in the place POU for this water right. There are no overlap concerns, even though notes from the recommendation state the "Place of use is within Remington Recreational Water District, and no well logs are shown in the area so we can't be absolutely certain this property has a private well." There are 3 permits, water right numbers 95-18084, 95-18101, & 95-18602, which are located in the POU for this water right. They are in the development period and cannot be verified at this time. A beneficial use field exam will need to be completed to assure these have individual wells.

2. Other water rights with the same point-of-diversion: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
95-9457	GROUNDWATER	MUNICIPAL	DECREE
95-9458	GROUNDWATER	MUNICIPAL	DECREE

Comments: Decreed Rights 95-9457 & 95-9458 share the same groundwater wells POD(s) as this Permit. Condition F06 was added to Permit to describe the same POD shared by the two water rights.

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L3 (NW¼ SW¼), Sec. 18, Twp 53N, Rge 03W, B.M. KOOTENAI County (WELL #96-96-N-02862)
GROUND WATER L2 (SW¼ NW¼), Sec. 18, Twp 53N, Rge 03W, B.M. KOOTENAI County (WELL #96-69-N-11)
GROUND WATER L3 (NW¼ SW¼), Sec. 18, Twp 53N, Rge 03W, B.M. KOOTENAI County (WELL #D0088102)

Method of Determination: GPS located three well heads detailed below:

- GL3, NW¼ SW¼, Sec. 18: -116°45.7976, 47°56.3992; Well Tag 96-96-N-0286, Well ID 331868, Permit ID 760124.
- GL2, SW¼ NW¼, Sec. 18: -116°45.8137, 47°56.4337; Well Tag 96-69-N-11, Well ID 272323, Permit ID 755115.
- GL3, NW¼ SW¼, Sec. 18: -116°45.7979, 47°56.3799; Well Tag D0088102, Well ID 462450, Permit ID 897888.

PLACE OF USE: MUNICIPAL

Twp	Rng	Sec	NE				NW				SW				SE			
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
53N	03W	17			X			X	X	X	X	X	X	X	X	X	X	X
53N	03W	18	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
								GL1	GL2			GL3	GL4					
53N	03W	19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
								GL1	GL2			GL3	GL4					
53N	03W	20	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
53N	03W	30					X	X	X									
								GL1	GL2									
53N	04W	13	X	X	X	X	X			X	X		X	X	X	X	X	X
53N	04W	14																X
53N	04W	23	X			X									X			X
53N	04W	24	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
53N	04W	25	X	X		X	X	X										
53N	04W	26	X	X	X	X	X											

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

☒

Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

☒☒ Aerial Photo Attached (required for irrigation of 10+ acres).☒

Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
96-69-N-11				VAL-MATIC	12 IN SERIAL # M670890
96-96-N-0286					
D0088102					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Flowmeters	SCADA	WEINTEK				

2. Measurements: Flowmeter measurements were used to determine flow rates from the three wells which operate lead/lag during normal system operations. During licensing review Theoretic Pump Equations were used to calculate each well & pump's flow rate resulting in a combined total diversion rate of 4.43 cfs considering department rounding standards.

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method: Remington Water District has uses a sophisticated SCADA water management system WEINTEK that enables read out of instantaneous flow from each of the wells linked to the system. Bob Kuchenki supplied the reading each month for the past 10 years, 2014 to 2024. There are two reservoir storage tanks, the first on is 100,000 gallons and the second is 160,000, totaling 260,000 gallons total. A theoretic Pump Equation was done for the three wells combined diversion rates equal 206.1 gpm (Well #96-96-N-11) + 614.2 gpm (Well #96-96-N-0286) + 1,170.3 gpm (Well #D0088102) = 1,990.6 gpm or 4.43 cfs, considering Department rounding standards.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A (Municipal)

2. Volume Calculations for Other Uses: Municipal beneficial use is for a municipality; there is no annual or maximum diversion volume applied to this water right license.

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed on 8/1/2024 with the applicant's water operator representative, Bob Kuchenski, showed 3 groundwater wells diverting water for municipal use by Remington Water District (Applicant). Well # 96-69-N-11, has an 18 inch casing 510 feet deep with a 40 HP/250 gpm pump installed. Well #96-96-N-0286 has an 8 inch casing 540 feet deep with a 125 HP/750 gpm pump installed. Well #D0088102, has an 18 inch casing 572 feet deep with a 250 HP/1100 gpm pump installed. A Weintek SCADA flowmeter is installed on the main water line from the wells and the monthly data from the system from January 2014 through December 2024 was submitted for diversion rate calculations, with the largest flow measurement equal to 666.4 gpm or 1.48 cfs. This Permit was applied for by the Applicant to increase diversion rate and add a new well D0088102. Decreed water rights, 95-9457 with a diversion rate of 0.33 cfs and 95-9458 with a diversion rate of 1.92 cfs have an overlapping service area. The maximum diversion rate recommended to license this right = 4.43 cfs (field exam observed rate) – 2.25 cfs (prior right 95-9457 & 95-9458 rate) = **2.18 cfs**.

The municipal POU water system incorporates two storage tanks. One is 100,000 gallons and the other one is 160,000 gallons. The system has four Pressure tanks and six Transfer Pumps. The transfer pumps equate to two 10 HP, one 20 HP, one 30 HP, and two 40 HP pumps to provide water distribution from the storage tank to meet peak water use demands. During the exam, the permit POU map was discussed with Mr. Kuchenski, who verified the POU is accurate. As such, Arcmap aerial imagery was used during licensing review to designate the municipal POU.

Condition 046 and 134 was removed from the permit during licensing review. All other conditions shall be carried to the license. Overlap concerns: Decreed Rights 95-9457 & 95-9458 share two of the same groundwater POD's and has the same POU as this Permit for Remington Water district. Condition X35 and F06 are being added to mitigate overlap concern pertaining to combined use diversion rates & diversion volumes between rights. There are no additional overlap concerns for this right.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	
MUNICIPAL	01/01 to 12/31	2.18 CFS	

Totals: 2.18 CFS

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION Tammy Alleman - Water Resource Agent

Field Examiner's Name Tammy Alle Date 6/6/2025

Reviewer _____ Date _____

THEORETIC PUMP EQUATIONS

WELL #1

THEORETICAL PUMPING EQUATION(S) FOR WR# 95-9427

Theoretical Pumping Equation is estimated to lift 510 ft, and running at 45 psi.

PUMP EQUATION

WATER RIGHT No. 95-9427

Well # 96-69-N-11	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \text{HP} \times 8.8 \times \text{Eff} / H$	40	614.0816	0.8	510	45
Q = 0.459 cfs 206.1 gpm					

WELL #2

THEORETICAL PUMPING EQUATION(S) FOR WR# 95-9427

Theoretical Pumping Equation is estimated to lift 540 ft, and running at 45 psi.

PUMP EQUATION

WATER RIGHT No. 95-9427

Well # 96-96-N-0286	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \text{HP} \times 8.8 \times \text{Eff} / H$	125	644.0816	0.8	540	45
Q = 1.368 cfs 614.2 gpm					

WELL #3

THEORETICAL PUMPING EQUATION(S) FOR WR# 95-9427

Theoretical Pumping Equation is estimated to lift 572 ft, and running at 45 psi.

PUMP EQUATION

WATER RIGHT No. 95-9427

Well # D0088102	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \text{HP} \times 8.8 \times \text{Eff} / H$	250	676.0816	0.8	572	45
Q = 2.607 cfs 1170.3 gpm					

4.43 CFS

1,990.6 GPM

95-9427



WELL SITES:

WELL # 96-69-N-11

LAT: 47 56.433702 LONG -116 45.813725

WELL # 96-96-N-0286 "E0009115"

LAT: 47 56.399219 LONG -116 45.797669

WELL # D0088102

LAT: 47 56.379971 LONG -116 45.797909



95-9427



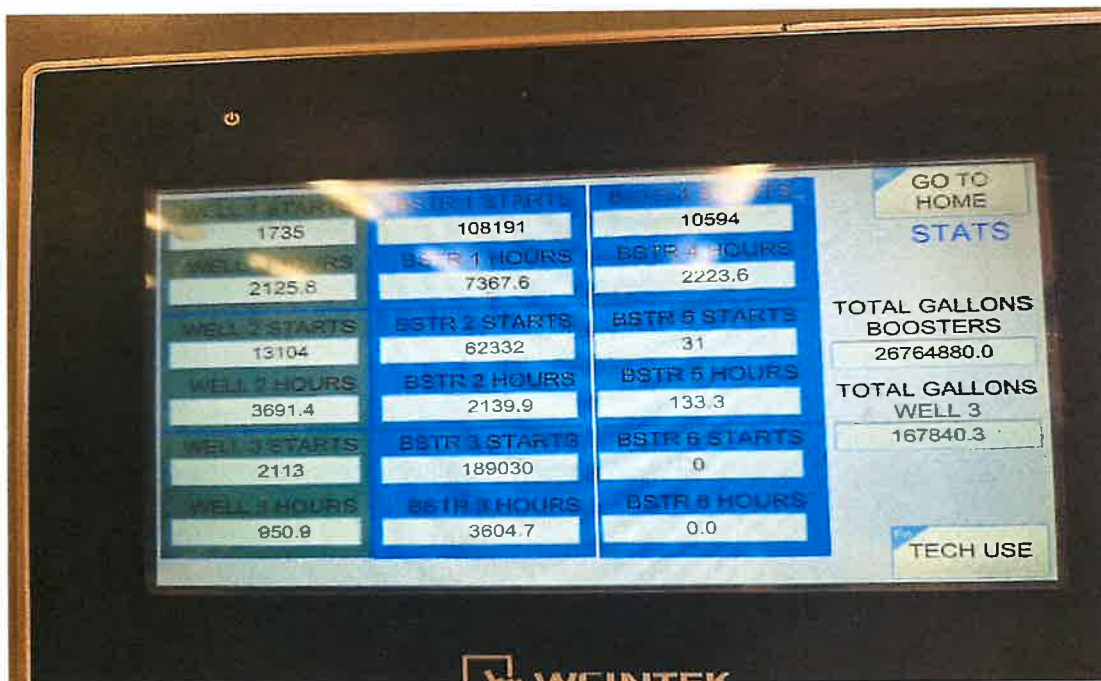
PUMP HOUSE & EQUIPMENT



95-9427



4 Pressure Tanks (above) SCADA System (below)



3204TA
 Caterpillar Engine
 Serial No. 07840272
 PN 5 7P 324/JM
 V 230/460
 MAXIMUM FTY
 ENCL TEFC OUT COM
 CODE G 1 P 0.8 1.25 GPM 56/57.5
 USABLE 070/101 A 1.10 GPM 111
 40HP 30A 2800RPM 56/57.5 GPM 111

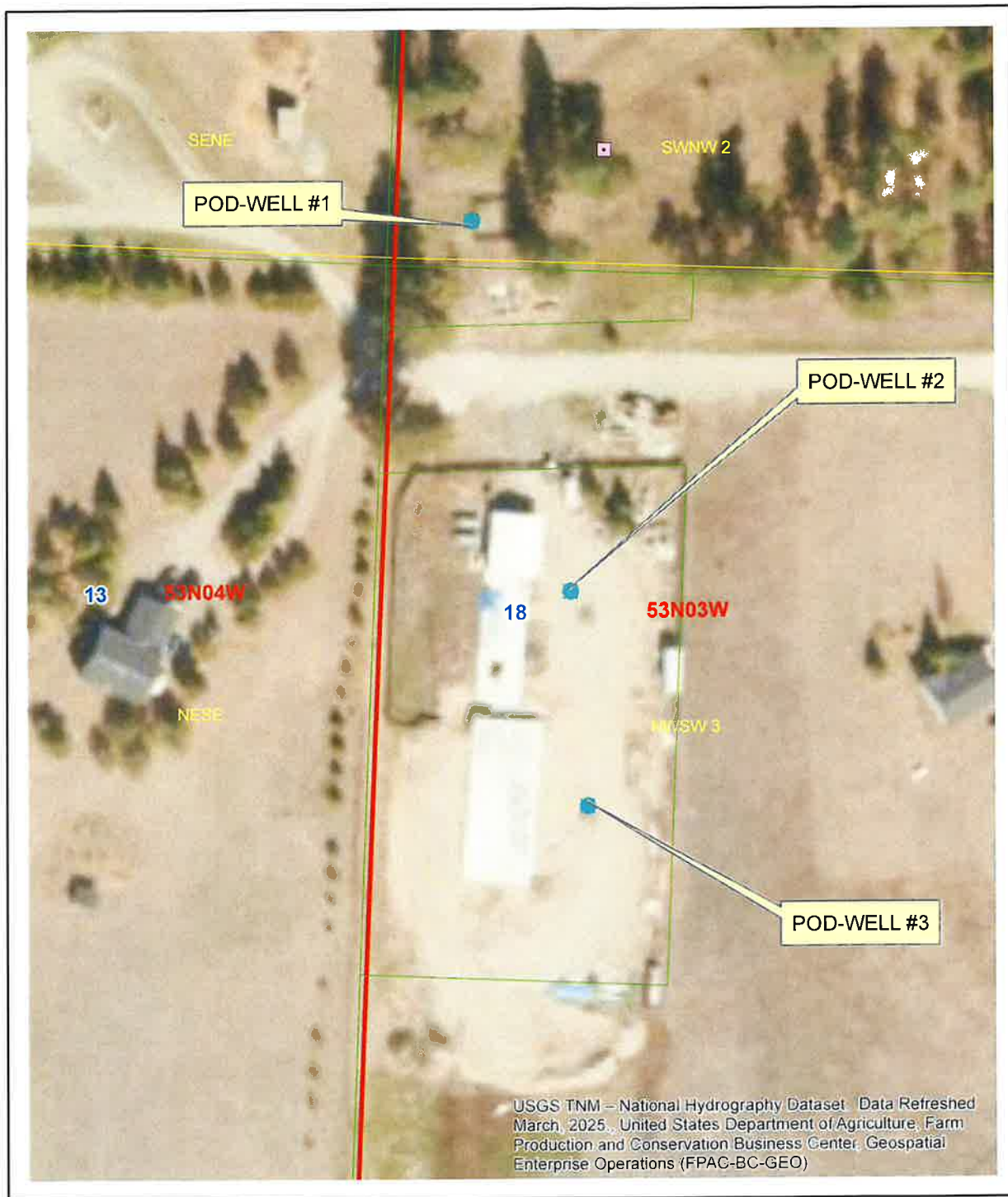


95-9427



2 STORAGE TANKS 100,000 Gals (above) & 160,000 Gals (below)





Legend

- Parcels
- Township/Range
- Sections
- QQ

0 0.0075 0.015 0.03 Miles



Totals
Gallons/Month

Month	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Jan	2,751,000	2,820,000	3,218,000	3,368,000	3,737,000	3,605,000	3,756,000	4,065,000	4,369,000	4,482,000	4,169,000
Feb	2,852,000	2,958,000	3,221,000	3,315,000	3,801,000	3,814,000	3,839,000	4,299,000	4,427,000	4,800,000	4,123,000
Mar	2,583,000	2,911,000	2,943,000	3,068,000	3,605,000	4,018,000	3,832,000	4,327,000	4,171,000	4,912,000	4,036,000
Apr	2,861,000	3,444,000	3,450,000	3,435,000	3,905,000	3,940,000	4,225,000	4,976,000	5,265,000	4,478,000	4,703,000
May	3,274,000	5,520,000	5,777,000	3,853,000	4,881,000	6,214,000	5,560,000	7,437,000	5,271,000	7,384,000	7,446,000
Jun	8,645,000	9,728,000	9,235,000	8,050,000	10,853,000	11,312,000	7,059,000	16,013,000	5,649,000	17,339,000	11,717,000
Jul	10,087,000	19,375,000	13,969,000	17,040,000	16,838,000	16,885,000	12,229,000	29,750,000	14,588,000	27,208,000	22,609,000
Aug	14,518,000	18,289,000	16,162,000	21,912,000	24,710,000	20,933,000	21,439,000	29,438,000	28,596,000	29,588,000	31,728,000
Sept	8,138,000	13,871,000	12,984,000	18,048,000	14,824,000	15,228,000	22,877,000	17,058,000	22,727,000	21,927,000	22,832,000
Oct	5,300,000	7,018,000	5,507,000	5,313,000	6,473,000	5,917,000	8,972,000	6,192,000	10,421,000	8,317,000	11,477,000
Nov	3,018,000	3,585,000	3,324,000	3,471,000	3,402,000	3,950,000	3,822,000	3,916,000	4,806,000	4,313,000	5,058,000
Dec	2,820,000	2,954,000	3,063,000	3,467,000	3,440,000	4,024,000	3,859,000	3,901,000	4,120,000	3,690,000	3,654,000
Annual Totals	66,847,000	92,473,000	82,853,000	94,340,000	100,469,000	99,840,000	101,469,000	131,372,000	114,410,000	138,438,000	133,552,000

Proof Due Date

Volume for 2023/325850

138,438,000

424.9

afa

OVERLAP REPORT FOR REMINGTON WATER DISTRICT

Basin#		Seq Number	SourceTable	Basis	RightID	PriorityDate	Div Rate	SourceList	WaterUseList	OwnerList	
95		9427	Water Permit		700268	10/18/2007	5.9	GROUND WATER	MUNICIPAL		REMINGTON WATER DISTRICT
95		9457	Water Right	Decreed	630220	11/14/1996	0.33	GROUND WATER	MUNICIPAL		REMINGTON RECREATIONAL WATER DISTRICT
95		9458	Water Right	Decreed	630231	12/12/1996	1.92	GROUND WATER	MUNICIPAL		REMINGTON RECREATIONAL WATER DISTRICT
95		9713	Water Right	Disallowed	621871	5/19/1967	3.85	GROUND WATER	DOMESTIC, IRRIGATION		BROWN, L V
95		9907	Water Right	Disallowed	622076	6/14/1983	0.1	GROUND WATER	DOMESTIC, STOCKWATER		SHAMROCK LAND CO
95		10231	Water Right	Decreed	678797	12/31/1997	0.03	GROUND WATER	DOMESTIC		LARSON, MICHAEL
95		18084	Water Permit		703955	3/19/2021	0.1	GROUND WATER	DOMESTIC		DMLM LLC; EMERALD PROPERTIES LLC
95		18101	Water Permit		704651	5/20/2021	0.2	GROUND WATER	DOMESTIC, IRRIGATION, STOCKWATER		HORSLEY, STEVEN
95		18602	Water Permit		735202	10/2/2024	0.2	GROUND WATER	DOMESTIC, IRRIGATION		HUBBARD, JOHN T; HUBBARD, RACHELLE
96		2316	Water Right	Renumbered	95087	5/19/1967	3.85	GROUND WATER	DOMESTIC, IRRIGATION		BROWN, L V
96		8249	Water Right	Renumbered	100666	6/14/1983	0.1	GROUND WATER	DOMESTIC, STOCKWATER		SHAMROCK LAND CO
96		8944	Water Right	Renumbered	615381	11/14/1996	0.33	GROUND WATER	MUNICIPAL		REMINGTON RECREATIONAL WATER DISTRICT
96		8946	Water Right	Renumbered	615411	12/12/1996	2.23	GROUND WATER	MUNICIPAL		REMINGTON RECREATIONAL WATER DISTRICT

DEQ Public Drinking Water System Monitoring Schedule Report

Print Date: November 21, 2024

ID1280270 - REMINGTON REC WATER DIST

Community water system serving 1104 people and 414 connections.

Regulated by: COEUR D ALENE REGIONAL OFFICE

The following schedules include monitoring periods between 1-1-2024 and 12-31-2024

Schedules for Distribution System(s)

Code	Group/Analyte Name	Monitoring Frequency	Season Begin Date	Season End Date	Satisfied
3100	COLIFORM (TCR)	2 per MN	1/1	12/31	Monthly
2456	TOTAL HALOACETIC ACID (HAA5)	1 per YR collected in 2024 taken 7/1 through 9/30 784 COWBOY WAY (DBP2A)	7/1	9/30	YES
2950	TTHM	1 per YR collected in 2024 taken 7/1 through 9/30 29710 N. CARIBOU AVE (DBP2B)	7/1	9/30	YES

Schedules for Distribution Systems(s) Lead and Copper

Code	Group/Analyte Name	Monitoring Frequency	Season Begin Date	Season End Date	Satisfied
PBCU	LCR - LEAD COPPER	10 per 3Y collected in 2024 taken 6/1 through 9/30	6/1	9/30	YES

Note: Consumer notice of lead tap results, regardless of lead level, is required within 30 days after receiving results. For templates and more information, please visit:
<https://www2.deq.idaho.gov/water/PublicNotificationTemplates>

Schedules for tag#: D0088102

Please Label Sampling Point/Location as: "WELL #3"

Code	Group/Analyte Name	Monitoring Frequency	Season Begin Date	Season End Date	Satisfied
VOCS	VOCS - GROUP	1 per QT due between 01/01/2024 and 03/31/2024	n/a	n/a	YES
VOCS	VOCS - GROUP	1 per QT due between 04/01/2024 and 06/30/2024	n/a	n/a	YES
VOCS	VOCS - GROUP	1 per QT due between 07/01/2024 and 09/30/2024	n/a	n/a	YES
VOCS	VOCS - GROUP	1 per QT due between 10/01/2024 and 12/31/2024	n/a	n/a	NO

Schedules for tag#: ID1280270WF

Please Label Sampling Point/Location as: "WELLS 1&2&3 WELLFIELD"

Code	Group/Analyte Name	Monitoring Frequency	Season Begin Date	Season End Date	Satisfied
ZNO3	NITRATE	1 per YR due between 01/01/2024 and 12/31/2024	n/a	n/a	YES

"FUTURE" in the "Satisfied" column indicates the sampling requirement begins sometime in the future. Sampling before the monitoring period begin date will not satisfy the requirement for the monitoring period.

"See CO" in the "Satisfied" column indicates the operator needs to contact his or her compliance officer (CO) to verify that samples have been taken and the schedule has been satisfied.

IMPORTANT NOTICE: This monitoring schedule is provided to you as a courtesy and is current as of November 21, 2024. Surface water systems and systems that are disinfecting have additional sampling that is not reflected in this monitoring schedule report. This monitoring schedule may be changed or modified as needed. This monitoring schedule does not show past unfulfilled schedules for which violations may exist. Please revisit the monitoring schedule tool and review the system's monitoring schedule prior to sampling to ensure compliance with the most current monitoring requirements. Contact your public water system regulating agency if you have any questions.

Remington Water District

P.O. Box 468
Athol, Idaho 83801-0468

WATER CONSERVATION GOALS, STRATEGIES AND METHODS

May 28, 2025

The Idaho Department of Water Resources encourages users to utilize conservation methods to reduce water waste and reduce the overall demand on water systems. This plan covers conservation planning goals, a general overview of the system, and conservation tips and practices to reduce water usage.

Measurable Conservation Planning Goals:

The Remington Water District (The District) hopes to maintain or decrease the gallons used per connection across the District. This would be trackable as the District already monitors each connection's usage for billing purposes. Each connection can take individual steps to reduce their use of water.

Summary of existing system characteristics:

The water system contains two wells which combined pump 1,000 gpm into two in-ground reservoirs with a combined capacity of 260,000 gallons. Another well pumps water into the system directly at a rate of 1,060 gpm. Water is then pumped out of the in-ground reservoirs through booster pumps to the distribution system at a maximum rate of 2,012 gpm. The distribution system consists of approximately 126,000 lineal feet (LF) of water mains serving the community. All the system components (wells, booster pumps, and storage reservoirs) are located on District property at 1642 E Shoshone Avenue.

Current Water Conservation Practices:

Meters have been installed at each connection and are read monthly from April-October. This allows for connections to be billed based on their usage. This also allows staff to identify potential leaks and alert the affected property owner. The District monitors the total production through the wells and booster pumps in real time to obtain a total demand on the system at any given time. The District recommends its customers to conserve water by following the conservation guidelines published by EPA in (Water Conservation Plan Guidelines, environmental protection agency, 1998).

Water Conservation Best Practices:

The District encourages the use of landscaping, trees and plants that require less watering. Additionally, it encourages customers to limit irrigated yard space to reduce water usage wherever possible. The following suggestions are also made to customers:

1. Knowing the type of soil in your property can also aid in the conservation of water. Checking knowledgeable sources such as the Natural Resources Conservation Service (NCRS) or the Unified Soil Classification System (USCS) and learning about your soil can help you understand best practices when it comes to watering of lawns and plants.
2. When watering landscape areas, there are multiple ways to conserve water. Adjusting sprinklers to water only areas that require it and minimize the amount of water that reaches areas like streets, driveways, and walkways can reduce overall waste and use of water.
3. Individuals can also implement rainwater collection and install more efficient irrigation strategies such as drip irrigation systems, which could reduce the total water wasted.

Future Water Conservation Methods:

The District is planning on conducting a rate study to modify the rates to discourage extreme water usage with a higher rate. This would discourage connections from using more than necessary due to higher financial penalties. The District is currently transitioning to cellular read meters than can alert of leaks in real time. This will also allow the District to monitor flows and identify leaks during the winter season rather than only being able to monitor usage during the remainder of the year.

Alleman, Tammy

From: Alleman, Tammy
Sent: Friday, April 11, 2025 3:48 PM
To: Bob Kuch
Subject: RE: 95-9427 Licensing needs
Attachments: 95-9427 Request for Conservation Plan.pdf; Remington Well Map.pdf; 95-16497 Water Conservation Plan.doc; 95-9480 Water Conservation Plan 2021.docx

Hi Bob,

I am attaching a letter requesting a Conservation Plan for Remington Water District. It is a requirement for Municipal water rights in the Rathdrum Prairie Ground Water Management Area. I am attaching a couple examples for you in case you do not have a current Conservation Plan.

I also wanted to know the use for each well. Is there a primary well with a backup? I had notes regarding an irrigation well but it wasn't clear which one it was. I have the wells numbered and marked on the map I am attaching to the email. Can you let me know how the well system functions. Do they all flow into the storage tanks?

It might be easier to call me at your convenience and discuss. I can be reached at (208) 762-2809.

Thank you,

Tammy Alleman
Senior Water Resources Agent
Idaho Department of Water Resources, Northern Region
7600 N Mineral Drive, Suite 100
Coeur d'Alene, ID 83815-7763
Phone (208) 762-2809 / 2800
<https://idwr.idaho.gov>



From: Bob Kuch <bobkuch@rwdonline.org>
Sent: Friday, March 28, 2025 6:03 PM
To: Alleman, Tammy <Tammy.Alleman@idwr.idaho.gov>
Subject: Re: 95-9427 Licensing needs

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

Tammy,