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JUL 29 2025
IDWR / NORTH

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July 14, 2025

BEFORE THE IDAHO DEPARTMENT OF WATER RESOURCES

STATE OF IDAHO

IN THE MATTER OF DISTRIBUTION OF WATER TO WATER RIGHT NOS. 85-15730 – ARD AND 85-15851 – BOWEN	DOCKET NO.: _____ ARD & BOWEN PETITION FOR DELIVERY CALL
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David Ard & Jim Bowen, hereby submit the following Petition for Delivery Call in accordance with Art. XV, § 1, 3, and 5, Idaho Constitution, LC. §§ 42-101, 226, and IDAPA 37.03.11.030 or as otherwise provided for by the laws of the State of Idaho:

I. Petitioners

1. In 2004, David Ard constructed a well for use at 3627 23rd Street, Lewiston, Idaho, his primary place of residence. Water from the well is used to support the residence and irrigation of the land. To date, the well remains the only source of water for the residence.
2. In 2004, Ard's well was drilled to a depth of 850 feet. Water was encountered at 760 feet and had a static level of 684 feet. Production was 100+ gallons per minute (GPM). David Ard obtained Water Right #85-15730, to provide irrigation to 1.1 acres of land with a diversion rate of 0.03 CFS. (Priority date of 6/29/2010). Exhibit 1.

3. In 2009, Jim Bowen constructed a well for use at 2304 Grelle Ave, in Lewiston, Idaho, his primary place of residence. Water from the well is used to support the residence and provide water for stock. In 2015, this well began to struggle to provide enough water for the household and a few animals. This happened each year, usually in early May, and continued on through the irrigation months. In 2022, Bowen annexed into the LOID water system as a backup to the well. He paid for annexation and hookup which cost \$18,763.54. He gets domestic water only.
4. In 2009, Bowen's well was drilled to a depth of 850 feet. Water was encountered at 810 feet and had a static level of 684 feet. Production was 60+ gallons per minute (GPM). Jim Bowen obtained Water Right #85-15851 for residential use and stock water at a combined 0.06 CFS. (Priority date of 5/1/2009).

Exhibit 2.
5. IDWR designates both Ard's and Bowen's wells within the Wapshilla Ridge area of the Grande Ronde Aquifer. Exhibits 3 and 4.
6. Ard's well has an electronic monitoring device and has had manual water level management since 2014. Bowen's well is near to, and similar in construction to Ard's, and is almost identical.

II. Respondents

1. Lewiston Orchards Irrigation District (LOID) is a business located at 1520 Powers Avenue, in Lewiston, Idaho. LOID obtained Water Right #85-15255, for municipal storage and fire storage. (Priority 05/08/2014). To divert water for this purpose LOID built two wells, Well #5 and Well #6 that pumps water into Mann Lake.

2. Well #5 was completed in April of 2015. This well is capable of pumping 2,000 GPM, Exhibit 5.
3. LOID completed Well #6 in 2019, which is also capable of producing 2000 GPM. Exhibit 6.

**III. Basis of Call: Since LOID began using Wells #5 and #6, other wells
with senior water rights have been declining, not recharging.**

1. IDWR's monitoring of domestic wells (which have little to no irrigation) show a sharp decline in water levels between 2020 and 2021. Specifically, the water levels lowered between 18 and 29 feet where LOID wells are located. Exhibit 7.
2. The Grande Ronde Basalts water levels have decreased an average of 10 feet in the last four years. Exhibit 8.
3. Ard's and Bowen's wells have experienced a continued decrease in available water. Data from IDWR monitoring of Ard's well (through both manual measurements and transducer data) show a substantial decrease in water levels. Water levels went from 753 feet in 2015 to 792 feet in 2025. Exhibit 3.
4. There is a direct correlation between Ard's well and LOID pumping periods. Data from Ard's monitoring matches the same trend as declines between 2016 and 2021 in the Wapshilla Ridge area of the Grande Ronde aquifer. Exhibits 9, 10, and 11.
5. A map of the area shows that Ard's and Bowen's wells are within the cone of depression from LOID pumping activity in the area. This area showed a decrease in water levels between 6 and 12 feet between Spring 2021 and Spring 2023 when LOID began its most aggressive pumping. Exhibits 4 and 12.

6. Water pumped from LOID's Wells #5 and #6 is not the best method of water delivery or storage. Mann Lake reservoir has a seepage estimate of between 330 to 520 acre feet per year. Exhibit 13.
7. The 2019 Lewiston Plateau Water Management Plan states that public utilities will conserve water (Art. V. § G.) LOID states that their patrons are good water stewards and restrictions are not necessary. Management states that people waste more water during times of rationing, so they don't utilize this method.

IV. Relief Requested

1. Pursuant to the Department's constitutional and statutory duty to supervise the distribution of water under Art. XV, § 3 Idaho Const., LC. §§ 42-101, 226, and IDAPA 37.03.11.030 or as otherwise provided for by the laws of the State of Idaho, Ard and Bowen respectfully requests that the Director:
 - A. Find that Ard's and Bowen's wells are within the Grande Ronde Aquifer;
 - B. Find that Ard's and Bowen have suffered, and will suffer, material injury as a result of junior priority ground water pumping in the areas encompassed by the Grand Ronde Aquifer;
 - C. Curtail junior priority pumping as necessary to allow recharge of Grand Ronde Aquifer, prevent waste, and ensure continued access to water for Ard and Bowen.
 - C. Otherwise manage the ground water from Grand Ronde Aquifer to mitigate the declining water levels.

Dated this 25th day of July, 2025.



David R. Ard



Mark J. Bowen

The undersign, a resident owner's of the properties hereby certify that on the 25th day of July, 2025 they caused a true and correct copy of the foregoing document to be served upon the following:

Director Mathew Weaver IDAHO DEPARTMENT OF WATER RESOURCES PO Box 83720 Boise, ID 83720-0098	Federal Express (FedEx)
Michelle Richman Norther Regional Office 7600 N. Mineral Dr., Ste 100 Coeur D Alene, ID 83815-7763	Federal Express (FedEx)
President Frank Maresca Board of Directors, Lewiston Orchards Irrigation District 1520 Powers Ave. Lewiston, ID 83501	Hand Delivered
Barney Metz Manager, Lewiston Orchards Irrigation District 1520 Powers Ave. Lewiston, ID 83501	Hand Delivered

Plaintiff Exhibit #1

Form 238-7
8/02

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only		
Well ID No.		
Inspected by		
Twp	Rge	Sec
1/4	1/4	1/4
Lat	Long	

1. WELL TAG NO: D 00 33528
 DRILLING PERMIT NO 8.13.12
 Water Right or Injection Well No

2. OWNER:
 Name Carol Ard
 Address 2301 Powers
 City Lewiston State ID Zip 73501

3. LOCATION OF WELL by legal description:
 You must provide address or lot, Blk, Sub or Directions to well
 Twp 35 North 35 or South 35
 Rge 5 East 5 or West 5
 Sec 13 SW 1/4 SW 1/4 SW 1/4
 Gov's Lot _____ County Neperess
 Lat _____ Long _____
 Address of Well Site 2301 Powers Ave
Lewiston City Lewiston
 Lt. _____ Blk _____ Sub. Name _____

4. USE:
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD:
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

Seal Material	From	To	Weight - Volume	Seal Placement Method
<u>Bentonite</u>	<u>0</u>	<u>25</u>	<u>450*</u>	<u>Top Pour</u>

 Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____
 Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Outer Diameter	From	To	Depth	Material	Casing	Inner	Weight	Thread
<u>8"</u>	<u>+2</u>	<u>-392</u>	<u>250</u>	<u>Steel</u>	<u>+</u>	<u>-</u>	<u>-</u>	<u>-</u>

 Length of Headpipe _____ Length of Tailpipe _____
 Packer ☐ Y ☒ N type _____

9. PERFORATIONS/SCREENING PACKER TYPE
 Perforation Method SAW
 Screen Type & Method of Installation

From	To	Slot Size	Number	Diameter	Material	Casing	Inner
<u>790</u>	<u>890</u>	<u>3/4"</u>	<u>60</u>	<u>6"</u>	<u>PVC</u>	<u>-</u>	<u>-</u>

10. FILTER PACK

Seal Material	From	To	Weight - Volume	Seal Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
 ft. below ground _____ Artesian pressure _____ ft.
 Depth flow encountered _____ ft. Describe access port or control device:
Top of casing
35N 6W 13

12. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Well ID No.	Discharge	Pumping Level	Time
<u>100</u>			<u>1.50</u>

Water Temp 56° Bottom hole temp _____
 Water Quality test or comments Good

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

From	To	Remarks: Lithology Water Quality & Temperature	Y	N
<u>0</u>	<u>14</u>	<u>Sandy Loam</u>		
<u>14</u>	<u>38</u>	<u>Hard Blk. Silt</u>		
<u>38</u>	<u>61</u>	<u>Brown w/htd Bolt</u>		
<u>61</u>	<u>77</u>	<u>md Hd. Blk. Bolt</u>		
<u>77</u>	<u>92</u>	<u>Hd Blk. Bolt</u>		
<u>92</u>	<u>219</u>	<u>Green shale</u>		
<u>219</u>	<u>231</u>	<u>Blue shale</u>		
<u>231</u>	<u>290</u>	<u>Green shale</u>		
<u>290</u>	<u>320</u>	<u>TAN Sandy clay</u>		
<u>320</u>	<u>345</u>	<u>TAN clay</u>		
<u>345</u>	<u>410</u>	<u>Hard Blk. Bolt</u>		
<u>410</u>	<u>602</u>	<u>md. Hd. Bolt</u>		
<u>602</u>	<u>760</u>	<u>Soft Black Bolt - 6" from 100</u>		
<u>760</u>	<u>850</u>			

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 APR 13 2014
 IDWR NORTH

Completed Depth 850' (Measurable)
 Date Started 3-13-04 Completed 3-21-04

14. DRILLER'S CERTIFICATION
 I/We certify that all minimum well construction standards were complied with at the time the rig was removed.
 Company Name WHEAT H. Drilling Firm No 125
 Principal Driller Wheat H. Drilling Date 4-13-04
 and Wheat H. Drilling
 Driller or Operator Wheat H. Drilling Date 4-12-04
 Operator Wheat H. Drilling Date _____
 Principal Driller and Rig Operator Required
 Operator 1 must have signature of Driller/Operator 2

FORWARD WHITE COPY TO WATER RESOURCES

Plaintiff Exhibit #2

Form 238-7
6/07

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 000 56434

Drilling Permit No. 855648
Water right or injection well #

2. OWNER

Name JIM BOWEN
Address 2007 POWERS DRIVE
City LEWISTON State ID Zip 83501

3. WELL LOCATION:

Twp 35 North ☒ or South ☐ Rge 05 East ☐ or West ☒
Sec 5 1/4 1/4 SW 1/4 NW 1/4
Gov't Lot -- County LATAH
Lat 46° 24.33.54 (Deg. and Decimals minutes)
Long 116° 59.56.12 (Deg. and Decimals minutes)
Address of Well Site 2300 23RD STREET
City LEWISTON

Area of land (Acres) 1/4 Subdiv. Name & Location

Lot -- Blk -- Sub. Name --

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
☐ Other

5. TYPE OF WORK check all that apply (Replacement etc.)

☒ New Well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other

6. DRILL METHOD:

☐ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other

7. SEALING PROCEDURES

Seal material From To Quantity (lb or ft) Placement method/procedure
BENTONITE 0 18 8400 TOP POUR

8. CASING/LINER:

Outer Diameter (Inches)	From (ft)	To (ft)	Gauge/Screen	Material	Casing	Joint	Turntable	Headed
8"	+2	18	.250	STEEL	☒	☐	☐	☒
6"	180	380	.250	STEEL	☐	☐	☐	☐
5 9/16"	410	770	.188	STEEL	☐	☒	☐	☐
4.5"	6	765	1/4"	PVC	☐	☒	☐	☐

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 18

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Material SAW

Manufactured screen ☐ Y ☒ N Type

Method of installation

From (ft)	To (ft)	Slot size	Number	Material	Gauge or Schedule
730	770	1/8X4	42	59/16	STEEL 188

Length of headpipe N/A

Length of Tailpipe

Packer ☐ Y ☒ N Type

10. FILTER PACK:

Filter Material N/A From To Quantity (lb or ft) Placement method

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG)

Describe control device

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) 810 Static water level (ft) 684

Water temp. (°F) 55 Bottom hole temp. (°F)

Describe access port TOP OF CASING - CAP

Well test:

Test method:

60+ 60 ☐ ☐ ☒ ☐

Water Quality test or comments: GOOD

13. LITHOLOGIC LOG and/or repairs or abandonment:

From (ft)	To (ft)	Remarks (Lithology, material, etc.)	Water
10	0	12 DIRT	X
10	12	18 BASALT	X
8	18	190 BLACK BASALT	X
8	190	380 BLUE/GRAY SHALE	X
6	380	485 BLACK BASALT	X
6	485	530 SOFT BROWN BASALT	X
6	530	575 BLACK/TAN SHALE BASALT MIX	X
6	575	633 MED BLACK BASALT	X
6	633	660 SOFT BLACK BASALT MIX SHALE	X
6	660	700 HARD BLACK BASALT	X
6	700	810 MED BROWN BASALT	X
6	810	850 SOFT RED BASALT	X

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JUN 2 2009

DWR/North

Completion Depth (Measurable)

Date Started 04/28/09

Completed 05/01/09

850

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Drilling Name TWO U DRILLING, LLC

No. 125

Principal Driller WU Date 5/01/09

Driller BU Date 5/01/09

Inspector Date

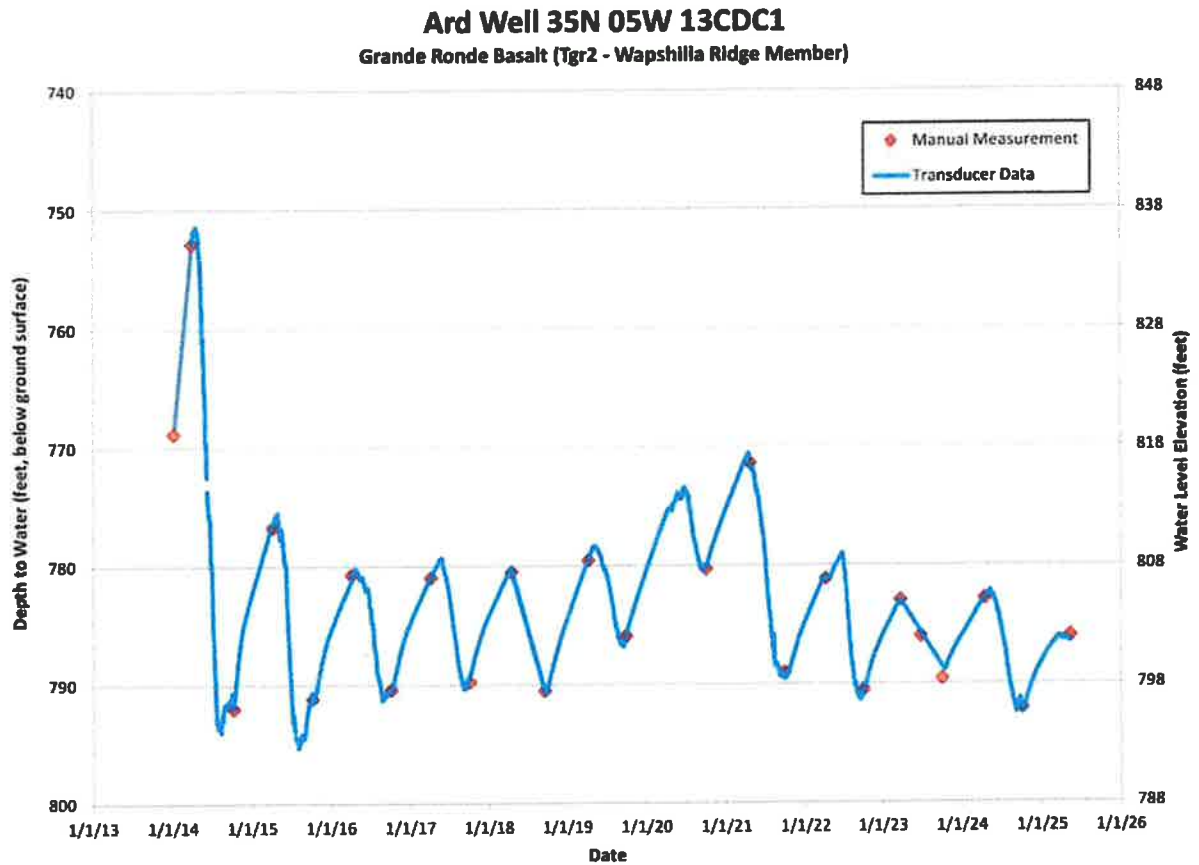
Operator Date

* Signature of Principal Driller and rig operator are required.

Form provided by Forms On-A-Disk - (214) 340-9479 - www.FormsOnADisk.com

Plaintiff Exhibit #3

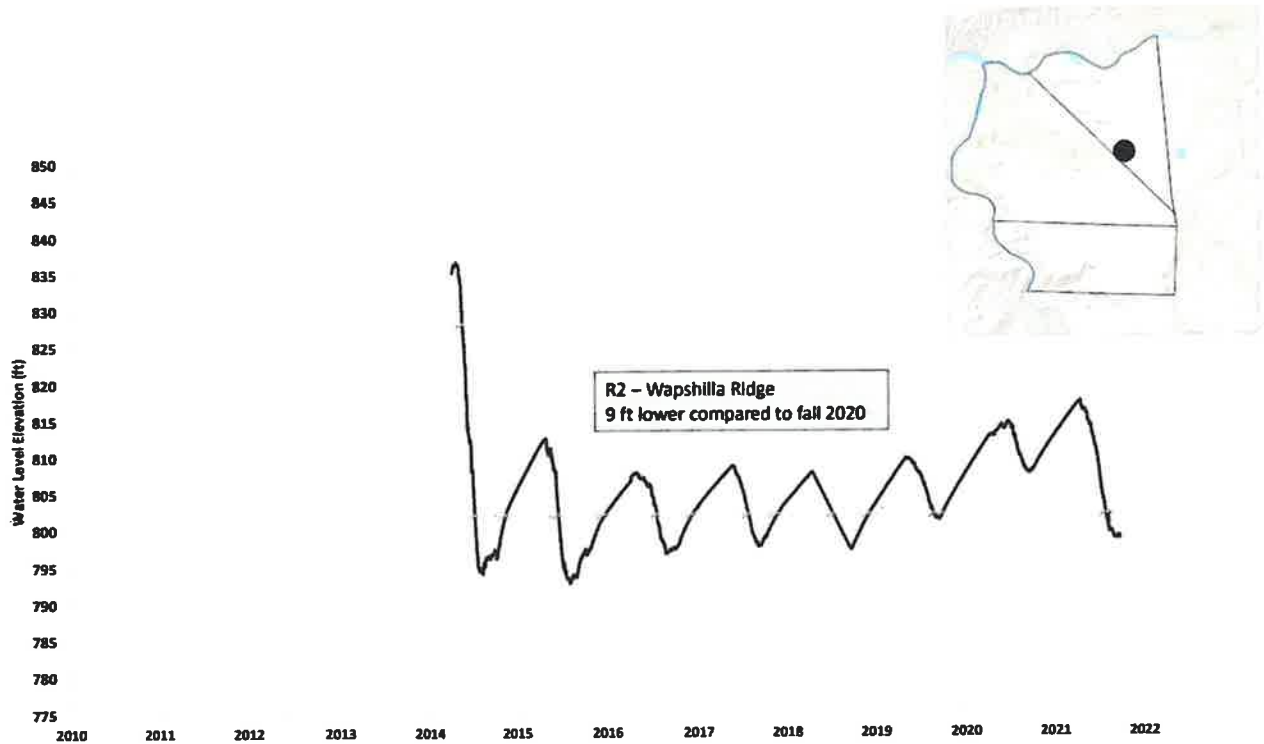
Chart made from data provided by IDWR



Plaintiff Exhibit #4

IDWR – Lewiston Aquifer Advisory Committee Meeting Presentation – May 16, 2024

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Plaintiff Exhibit #5

Form 238-7
8/07

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D0067993

Drilling Permit No. 874026

Water right or injection well # 85-15755

2. OWNER: Lewiston Orchards Irrigation District

Name

Address 1520 Powers Ave.

City Lewiston

State Id

Zip 83501

3. WELL LOCATION:

Twp. 35 North ☒ or South ☐ Rge. 5 East ☐ or West ☒

Sec. 20 ☐ 14 NW ☐ 14 NE ☐ 14

Gov't Lot _____ County Nez Perce

Lat. 46 22'11"N (Deg. and Decimal minutes)

Long 116 59'11"W (Deg. and Decimal minutes)

Address of Well Site approx. 1600 LF west of intersection of
Ripon and 10th St City Lewiston

Lot _____ Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation ☐ Thermal ☐ Injection
☒ Other fire protection

5. TYPE OF WORK:

☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:

☒ Air Rotary ☐ Mud Rotary ☐ Cable ☐ Other flooded reverse

7. SEALING PROCEDURES:

Seal material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method/procedure
neat cement	0	26	61 ft	trimmie
neat cement	0	810	33 ft	trimmie

8. CASING/LINER:

Diameter (nominal)	From (ft)	To (ft)	Gauge (schedule)	Material	Casing Liner	Threated	Welded
32	0	26	1/2	steel	☒	☐	☒
24	+3	810	1/2	steel	☒	☐	☒
M	See Attached HSLA				☒	☐	☒

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

9. PERFORATIONS/SCREENS:

Perforations ☒ Y ☐ N Method Fulflo Lavender

Manufactured screen ☒ Y ☐ N Type _____

Method of installation Welded beveled ends

From (ft)	To (ft)	Size (in)	Number	Diameter (nominal)	Material	Gauge or Schedule
See Attached	0-20	120	M	HSLA	3/8" HSLA	
Completion collars						

Length of Headpipe 0.63 (in) Length of Testpipe 28.4 (in)

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:

Filter Material	From (ft)	To (ft)	Quantity (lbs or ft)	Placement method
N/A				

11. FLOWING ARTESIAN:

Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____

Describe control valve _____

12. STATIC WATER LEVEL and WELL TESTS:

Depth first water encountered (ft) _____ Static water level (ft) 592' TOC

Water temp. (°F) 86.5

Bottom hole temp. (°F) _____

Describe access port 2" threaded port in locking cap

Well test:

Duration (feet)	Discharge or yield (gpm)	Test duration (minutes)	Pump	Water	Air	Flowing Artesian
22.71	3000	2160	☒	☐	☐	☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:

From (ft)	To (ft)	Remarks, lithology or description of repairs or abandonment, water temp.	Water
		attached	Y N

Completed Depth (measurable): _____

Well Started Dec 11, 2014

Date Completed 4/14/15

14. DRILLER'S CERTIFICATION:

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Boart Longyear

Co. No. 438

*Principal Driller Scott Bellister

Date 5-7-15

*Driller [Signature]

Date 3-11-14

*Operator II [Signature]

Date 3-11-14

Operator [Signature]

Date 3-11-14

*Signature of Principal Driller and rig operator are required.

Plaintiff Exhibit #6

Form 238-7
8/07

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

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NOV 20 2019

DEPARTMENT OF
WATER RESOURCES

1. WELL TAG NO. 0079645
Drilling Permit No. 889781
Water right or irrigation well # 85-15255
2. OWNER: LEWISTON ORCHARDS IRRIGATION DISTRICT

Name 1520 POWERS AVE
Address LEWISTON State ID Zip 83501
City _____ State _____ Zip _____

3. WELL LOCATION:
Twp 35 North ☒ or South ☐ Rge. 05 East ☐ or West ☒
Sec. 20 _____ NE 1/4 _____ NE 1/4 _____ NE 1/4 _____

Gov't Lot _____ County NEZ PERCE
Lat. 46.367441N (Deg. and Decimal minutes)
Long. 116.981872W (Deg. and Decimal minutes)
Address of Well Site ACCESS ROAD APPR. 500' NORTH OF
10TH & RIPON City LEWISTON
(Show street name or other identifying road or landmark)
Lot _____ Blk. _____ Sub. Name _____

4. USE:
☐ Domestic ☒ Municipal ☐ Monitor ☒ Irrigation ☐ Thermal ☐ Injection
☐ Other _____

5. TYPE OF WORK:
☒ New well ☐ Replacement well ☐ Modify existing well
☐ Abandonment ☐ Other _____

6. DRILL METHOD:
☒ Air Rotary ☐ Mud Rotary ☐ Cable ☒ Other flooded reverse

7. SEALING PROCEDURES:
Seal material (From (ft) To (ft)) Quantity (cu ft or lb) Placement method/procedure
NEAT CEMENT 0 20 31 cu ft TREMIE
NEAT CEMENT 0 1260 1755 cu ft TREMIE

8. CASING/LINER:
Casing/Liner (From (ft) To (ft)) Gauge/Schedule Material Casing Line Threaded Welded
32" 0 20 .50" STEEL ☒ ☐ ☐ ☐
24" +2 1260 .50" STEEL ☒ ☐ ☐ ☒
14 1245 1800 .3125 STEEL ☒ ☐ ☐ ☒
☐ ☐ ☐ ☐ ☐ ☐

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

9. PERFORATIONS/SCREENS:
Perforations ☒ Y ☐ N Method FULFLO LOUVERED
Manufactured screen ☒ Y ☐ N Type _____
Method of installation welded beveled ends, lowered

From (ft)	To (ft)	Slot size	Number	Diameter (nominal)	Material	Gauge or Schedule
1485	1485	.220	20	14	Steel	5/16"
1555	1625	.220	20	14	Steel	5/16"
1690	1740	.220	20	14	Steel	5/16"

Length of Headpipe 3.41 5/8 sub Length of Tailpipe _____

Packer ☐ Y ☒ N Type _____

10. FILTER PACK:
Filter Material From (ft) To (ft) Quantity (cu ft or lb) Placement method
none _____

11. FLOWING ARTESIAN:
Flowing Artesian? ☐ Y ☒ N Artesian Pressure (PSIG) _____
Describe control device _____

12. STATIC WATER LEVEL and WELL TESTS:
Depth first water encountered (ft) 682 Static water level (ft) 704.8bgl
Water temp (°F) 62.42 Bottom hole temp (°F) 78.3
Describe access port 2" coupler w/plug welded into well cap

Well test:
Drawdown (feet) Discharge or yield (gpm) Test duration (minutes) Test method:
30.43 3000 2160 min Pump ☒ Meter ☐ Air ☐ Flowing ☐
☐ ☐ ☐ ☐

Water quality test or comments: _____

13. LITHOLOGIC LOG and/or repairs or abandonment:
From (ft) To (ft) Remarks, lithology or description of repairs or abandonment, water temp. Water Y N
38 0 7 SAND/CLAY/TOPSOIL X
38 7 20 BLACK BASALT X
28 20 104 BLACK BASALT X
28 104 115 BROWN BASALT X
28 115 194 BLACK BASALT/HARD X
28 194 390 BLACK/GREY CLAY X
28 390 590 BLACK BASALT/HARD X
28 590 650 GREEN/GHAY CLAY, MIXED BASALT X
28 650 660 CLAY/BASALT MIXTURE X
28 660 663 GREEN/GREY CLAY X
28 663 680 FRACTURED BASALT X
28 680 730 BLACK BASALT/HARD X
28 730 790 FRACTURED BLACK BASALT/SOFT X
28 790 795 BLACK BASALT/SOFT X
28 795 805 RED AND BLACK BASALT/SOFT X
28 805 650 BLACK BASALT/SOFT TO MEDIUM X
28 850 1260 BLACK BASALT/MEDIUM TO HARD X
19 1260 1380 BLACK/RED BASALT MIX X
19 1380 1405 BLACK BASALT, SOME CLAY X
19 1405 1432 BLACK BASALT, HOOD CHATTER X
19 1432 1540 BLACK BASALT, HARD X
19 1540 1630 BLACK, BLUE, RED BASALT MIX X
19 1630 1720 BLACK BASALT, SOME FRACTURES X
19 1720 1800 BLACK BASALT, SOME RED MIX X
12.25 1800 1900 BLACK BASALT, SOME FRACTURES X
12.25 1900 1950 BLACK BASALT X
12.25 1950 2000 BLACK BASALT, HARD DRILLING X

Completed Depth (Measurable) 2000'
Date Started 06/25/19 Date Completed 10/24/19

14. DRILLER'S CERTIFICATION:
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name BOART LONGYEAR Co. No. 438
Principal Driller [Signature] Date 11/12/19
Driller [Signature] Date 11/08/19
Operator [Signature] Date 11/12/19
Operator [Signature] Date 11/12/19

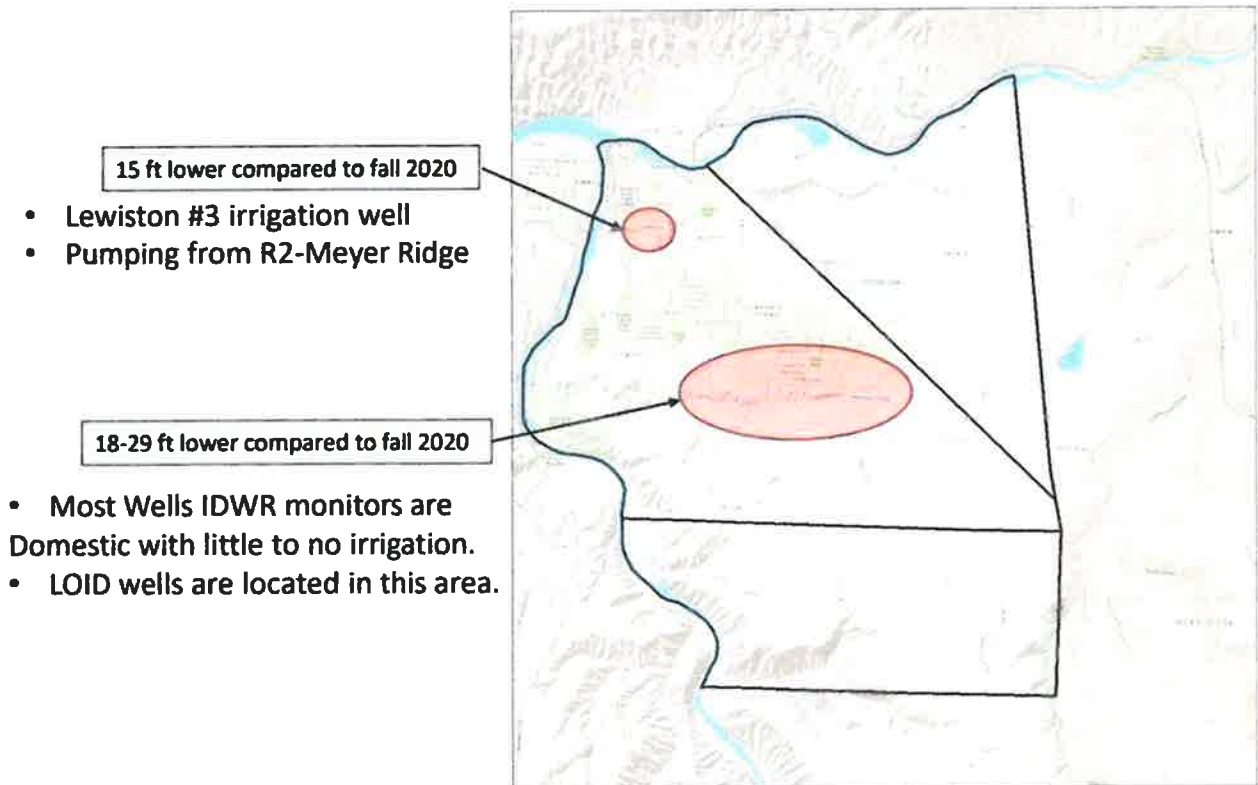
* Signature of Principal Driller and rig operator are required.

Plaintiff Exhibit #7

IDWR – Lewiston Aquifer Advisory Committee Meeting Presentation – May 16, 2024

Downloaded July 14, 2025 from <https://idwr.idaho.gov/wp-content/uploads/sites/2/groundwater-mgmt/Lewiston-Plateau-Designated-GWMA/2021-Fall-LPGWMA-Water-Level-Update.pdf>

Grande Ronde Basalts Change

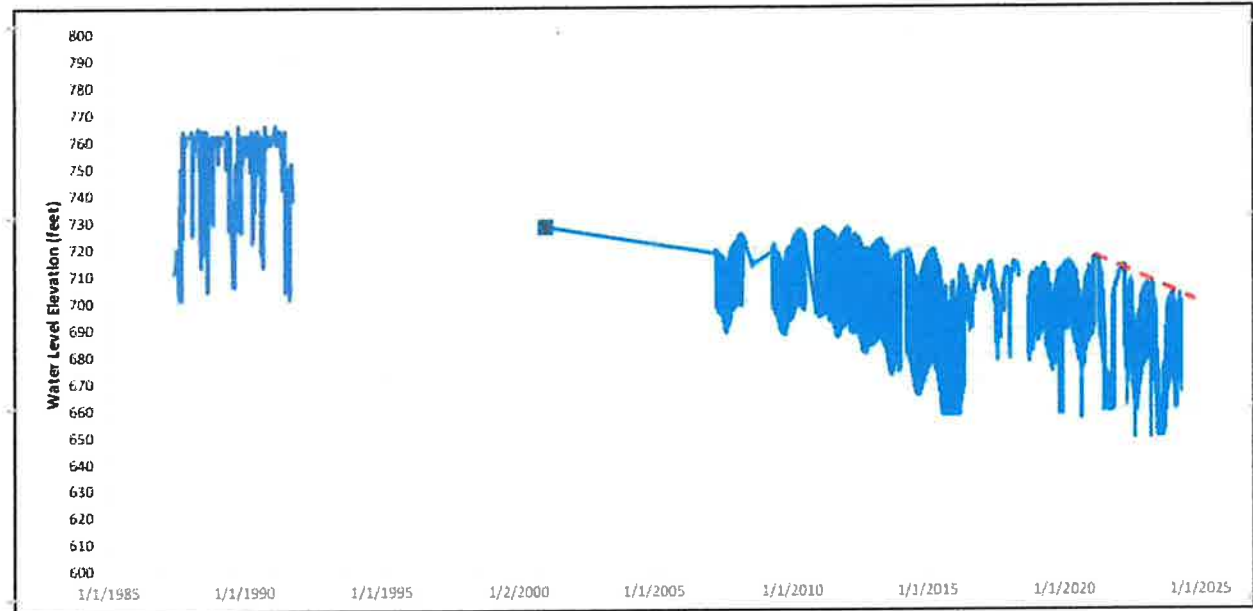


Plaintiff Exhibit #8

IDWR – Lewiston Aquifer Advisory Committee Meeting Presentation – May 16, 2024

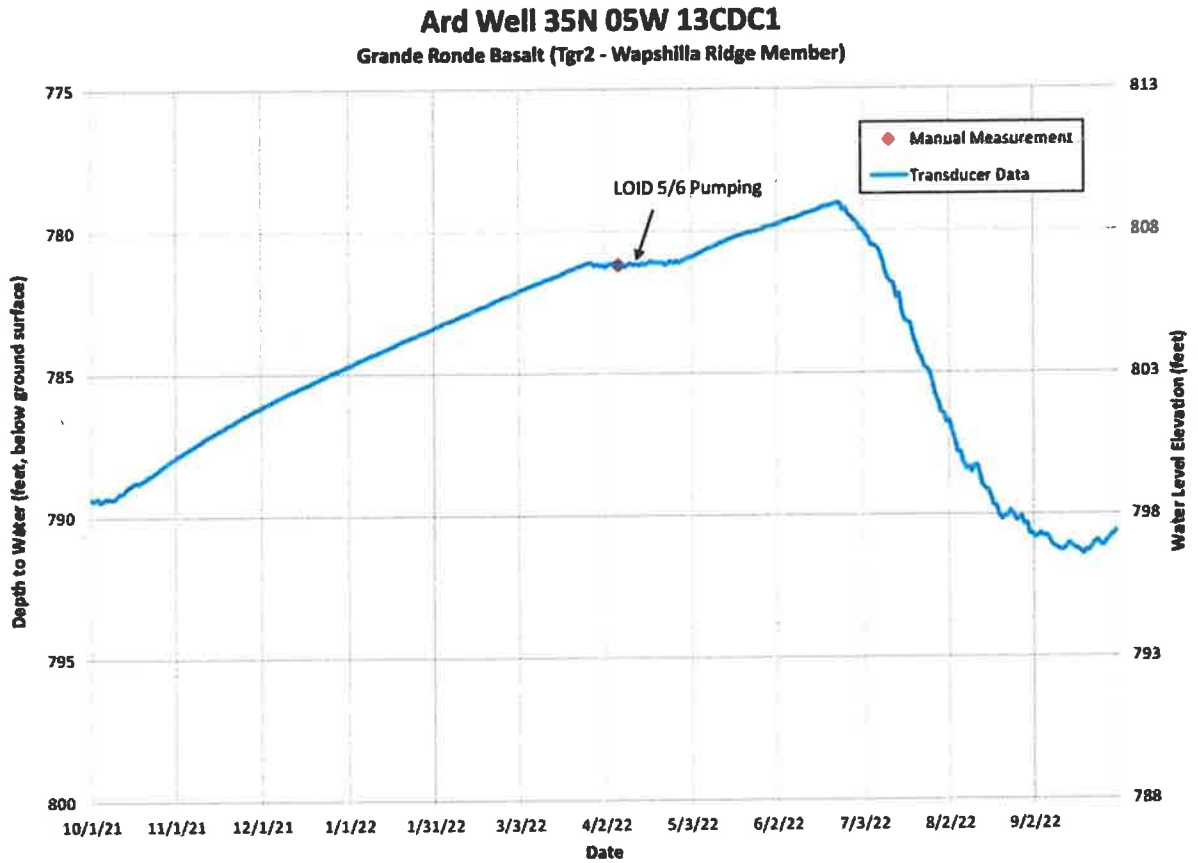
Downloaded July 14, 2025 from <https://idwr.idaho.gov/wp-content/uploads/sites/2/groundwater-mgmt/Lewiston-Plateau-Designated-GWMA/Lewiston-Aquifer-Advisory-Committee-Meeting-Presentation-051624.pdf>

Grande Ronde Basalts Water Levels Lewiston Orchards Area -3.3 Feet for the Year and -15 Feet Since 2021



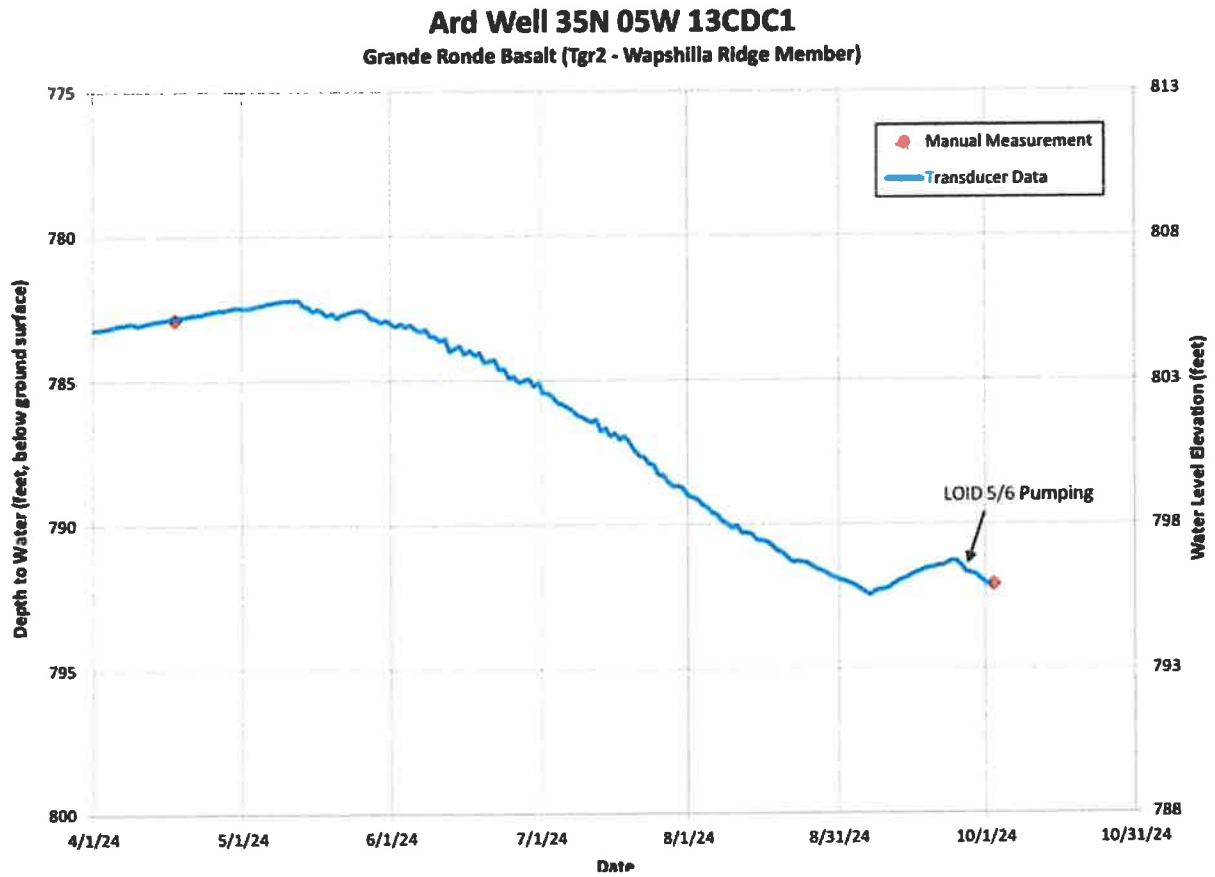
Plaintiff Exhibit #9

From Ard well data provided by IDWR



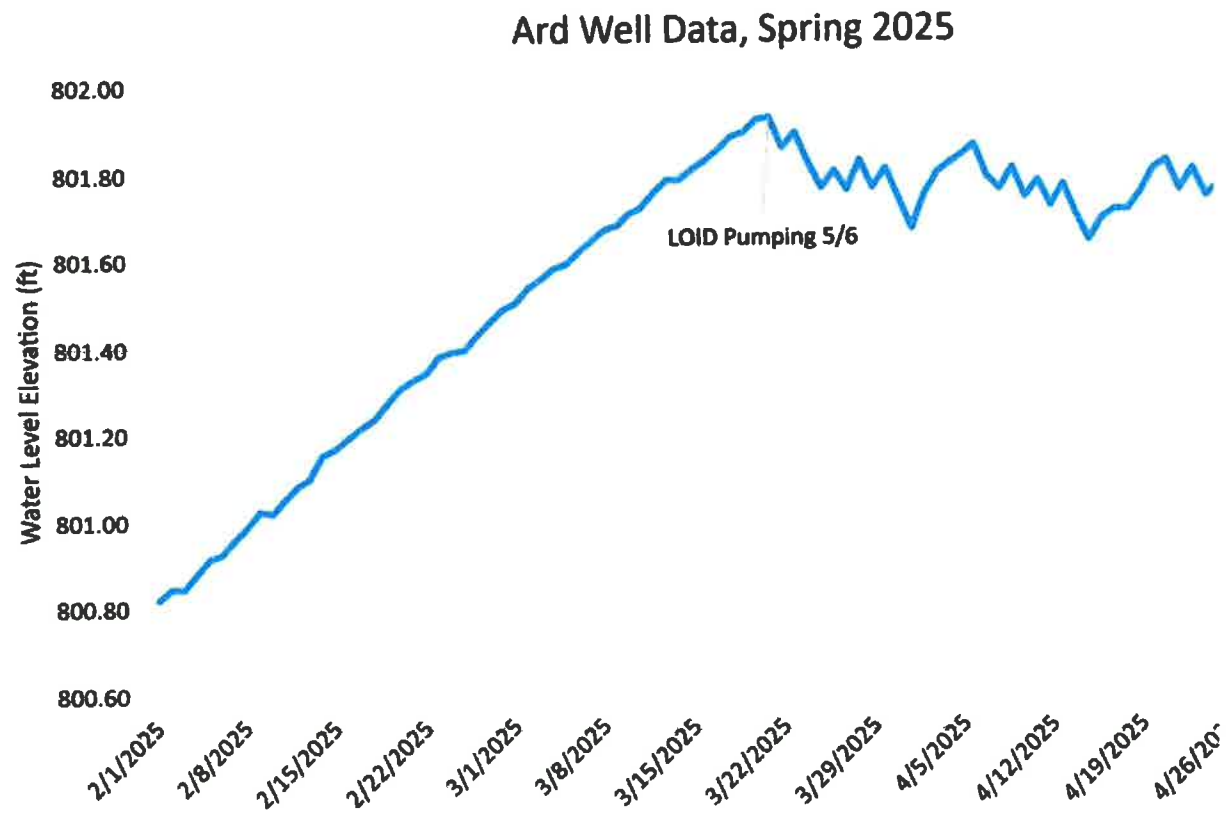
Plaintiff Exhibit #10

From Ard well data provided by IDWR



Plaintiff Exhibit #11

From Ard well data provided by IDWR



IDWR – Lewiston Aquifer Advisory Committee Meeting Presentation – May 16, 2024
Downloaded July 14, 2024 from <https://idwr.idaho.gov/wp-content/uploads/sites/2/groundwater-mgmt/Lewiston-Plateau-Designated-GWMA/Lewiston-Aquifer-Advisory-Committee-Meeting-Presentation-051624.pdf>

[illegible]

Plaintiff Exhibit #13

IDWR – Lewiston Aquifer Advisory Committee Meeting Presentation – May 16, 2024

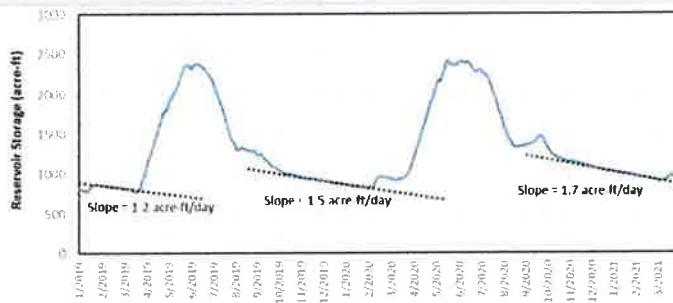
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Method 1: Pond Loss Calculator

Soil Type	Seepage Rate (ft/day)	Total Seepage Loss (acre-ft/year)
GW, GP, GM, GC, SW, SP, SM	0.2	9,900
OL, ML	0.02	990
SC	0.007	350
CL	0.003	150
NH, OH, PT, CH	0.0003	15

Reasonable Range

Method 2: Recession Limb Analysis



Mann Lake Seepage Estimates from Recession Limb:
330 acre-ft to 520 acre-ft