

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-13506 and 21-13261
Exam Date: 9/7/2018

1. Current Owner:
FREMONT MADISON IRRIGATION DISTRICT
PO BOX 15
ST ANTHONY ID 83445
2. Accompanied by: Aaron Dalling
Phone No: (208) 624-3381
Relationship to Permit Holder: Executive Director of FMID
3. **SOURCE:**
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use:
FMID Island Park Reservoir and Grassy Lake Reservoir Storage Rights
FMID Natural Flow Rights: 21-24A, 21-26A, 21-27A, 21-120A, etc.
FMID Ground Water Rights: 21-13151, 22-14057
2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. POINTS OF DIVERSION:
GROUND WATER SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 9, Twp 07N, Rge 39E, B.M. MADISON County (21-13261)
GROUND WATER NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 22, Twp 07N, Rge 39E, B.M. MADISON County (21-13261)
GROUND WATER NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 4, Twp 06N, Rge 40E, B.M. MADISON County (22-13506)
GROUND WATER SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 8, Twp 06N, Rge 40E, B.M. MADISON County (22-13506)

Method of Determination: Aerial photography and GPS

2. PLACE OF USE:

The place of use for FMID is a service boundary authorized by Idaho Code Section 43-323.

Original Permit 22-7022 was limited to 152,562 irrigated acres (111,210 existing acres that were already irrigated when the application was filed in 1969 and 41,352 new acres which would be irrigated only with ground water).

According to FMID, none of the new, ground water acres were developed under the permit. Order approving the original permit included a detailed summary of the 111,210 irrigated acres. Licenses will be limited to 111,210 acres in combination with water rights 21-13151 and 22-14057.

3. DIVERSION EQUIPMENT:

Diversion ID	HP	Location	Pump Make	Flow Meter
A0015856	125	SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 9, T07N, R39E		Seametrics AG3000
D0074178	400	NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 22, T07N, R39E	GE	Time Clock
No Tag	250	NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 4, T06N, R40E	GE	Time Clock
D0074195	400	SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 8, T06N, R40E	GE	Time Clock

D. FLOW MEASUREMENTS

1. Measurement Equipment:

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Portable Flow Meter	Ultrasonic	Fuji				2018

2. Measurements: See attached reports.

E. FLOW CALCULATIONS

Measured Method: Flow measurements were taken at each diversion using Fuji Ultrasonic Flow meter.

SE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 9, Twp 07N, Rge 39E = 1,660 gpm (125 hp pump)

NW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 22, Twp 07N, Rge 39E = 6,698 gpm (400 hp pump)

Total Rate (21-13261) = 8,358 gpm = 18.62 cfs

NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 4, Twp 06N, Rge 40E = 2,399 gpm (250 hp pump)

SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 8, Twp 06N, Rge 40E = 6,011 gpm (400 hp pump)

Total Rate (22-13506) = 8,410 gpm = 18.74 cfs.

F. VOLUME CALCULATIONS

Individual volume limits based on diverting authorized rate for full irrigation season.

21-13261: 18.62 cfs x 214 days x 1.9835 = 7,900 acre-feet

22-13506 = 18.74 cfs x 214 days x 1.9835 = 7,950 acre-feet

Original Permit 22-7022 was filed on April 23, 1969 and was approved in 1970. Since that time, there have been significant limits placed on new development within the ESPA. The 1993 Amended Moratorium prohibits the approval of new, unmitigated consumptive uses within the ESPA. The Amended Moratorium Order, by its own terms, did not affect the authorization to continue development under existing permits, such as Permit 22-7022. In November 1994, the Department issued an Order for Temporary Stay of Development for existing undeveloped permits within the ESPA. The 1994 Order stated that permit holders who had made a substantial investment (more than \$15,000) could complete development under existing permits. By 1994, the US Bureau of Reclamation had already completed five large ground water wells under Permit 22-7022, which cost more than the \$15,000 benchmark set by the order. Since 1994, the Department has approved four extensions of time for submitting proof of beneficial use. None of

those approvals refer to a restriction on future development. The Department has never issued an order specific to Permit 22-7022 (or any split portions of that permit) cancelling the permit or prohibiting the permit holder from completing development. FMID had the authority to complete development under Permit 22-7022. Licenses will include a combined annual diversion volume limit with existing rights 22-13151 and 22-14057 of 45,800 acre-feet. .

G. NARRATIVE/REMARKS/COMMENTS

Four ground water diversion that discharge into various canals within Fremont Madison Irrigation District's service boundary. Measurements were performed using Fuji Ultrasonic flow meter.

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

H. RECOMMENDATIONS

1. Recommended Amounts

	<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
21-13261	IRRIGATION	04/01 to 10/31	18.62 CFS	7,900 AF
22-13506	IRRIGATION	04/01 to 10/31	18.74 CFS	7,950 AF
		<u>Totals:</u>	37.36 CFS	15,850 AF

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

Field Examiner's Name _____ Date _____

Reviewer _____ Date _____

Water District:

Flow Meter Calibration For WMIS Number 1003232

Examiner: *Jared Adamson*

Reporting District: Water District 100

Calibration Date: 09/07/2018 12:42 PM

Point Of Diversion:

WMIS Number: 1003232

Metal Tag Number: A0015856

Diversion Name:

Contact:

Measurement Option: Flowmeter (1)

Follow up Date: Sep 6, 2021

Flow Meter Calibration:

Installed Flow Meter Data

Meter Manufacturer: Seametrics

Meter Flow Rate:

Model Number: AG3000

Rate Unit: GPM

Serial Number: 032017004726

Rate Multiplier: 1

Meter Type: Full Profile Magnetic

Volume Unit: AF

Meter Location: Good

Volume Multiplier: 1

Meter Status: Good

Standard Flow Meter Data:

Meter Flow Rate: 1660

Calibration Confidence:

Rate Unit : GPM

Wall Thickness (in.):

Pipe Material:

Upstream Distance (in.):

Outside Diameter (in.) 16 in

Downstream Distance (in.):

Comments:

Standard Meter reading is good. Flow meter passes inspection.

Measurement Location:

Coordinates: -111.86757, 43.94902



Water District:

Flow Meter Calibration For WMIS Number 1003232

Examiner: *Jared Adamson*



09/07/2018 12:56		SD	T	NO	))	
(default)		LOG				
FLOW RATE	gal/min	↔				
1660.000						
VELOCITY	ft/s	↔				
6.459						
+TOTALIZER	gal	☐ ↺				
16495.3						
NORMAL						

Water District: Water District 100

Site Visit For WMIS Number 1003233

Examiner: *Jared Adamson*

Reporting District: Water District 100

Measurement Date: 10/12/2018 11:17 AM

Point Of Diversion:

WMIS Number: 1003233

Metal Tag Number:

Diversion Name:

Contact:

Measurement Option: Timeclock (7)

Follow up Date: Oct 14, 2021

Report Year: 2018

Operating Hours: 1.4

Average GPM: 2399.32

Average CFS: 5.34569053472093

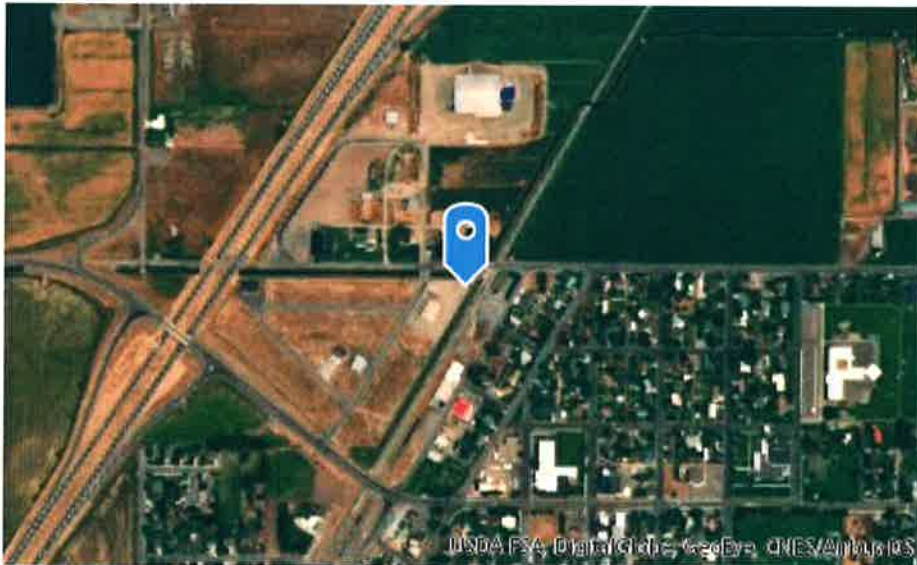
Site Visit Comments:

Coefficient confidence level is excellent.

Time clock read 1.4 hours at the time of calibration. Ran totalizer for 10 minuets.

Measurement Location:

Coordinates: -111.75095, 43.87621



Water District:

Site Visit For WMIS Number 1003233

Examiner: *Jared Adamson*



Idaho Department of Water Resources

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You are viewing 1003234; D0074195

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Edit	Delete	Report Year	Visit Date	Examiner	Reason for Visit
		2018	09/07/2018	JADAMSON	Timeclock Calibration
Comments					
Measured flow rate and reading was good. Average flow was 6010.77 GPM. System open discharges into canal and is not controlled by valves.					
Edit	Delete	Report Year	Visit Date	Examiner	Reason for Visit
		2018	08/10/2018	TCALLMEYER	Other
Comments					
Reason for Approval Irrigation system meets criteria of simple system for timeclock because well discharges into a ditch or pond and is not controlled by valves. Conditions of Approval Approval assumes that discharge pipe is not controlled by a valve. Reducing or increasing flow to the canal will invalidate approval. Prior to making modifications contact your Watermaster to determine if this variance would remain applicable. During the 2018 irrigation season, you must coordinate with Water District 100 Watermaster to have rate of flow in discharge pipe measured. The rate of flow must be measured by the Water District 100 Watermaster annually.					

Water District:

Site Visit For WMIS Number 1003234

Examiner: *Jared Adamson*

Reporting District: Water District 100

Measurement Date: 09/07/2018 11:03 AM

Point Of Diversion:

WMIS Number: 1003234

Diversion Name:

Measurement Option: Timeclock (7)

Metal Tag Number: D0074195

Contact: Freemont Madison Irrigation District

Follow up Date: Sep 6, 2021

Timeclock:

Average GPM: 6,010.77

Timeclock Start Time 00:30

Average CFS: 13.387

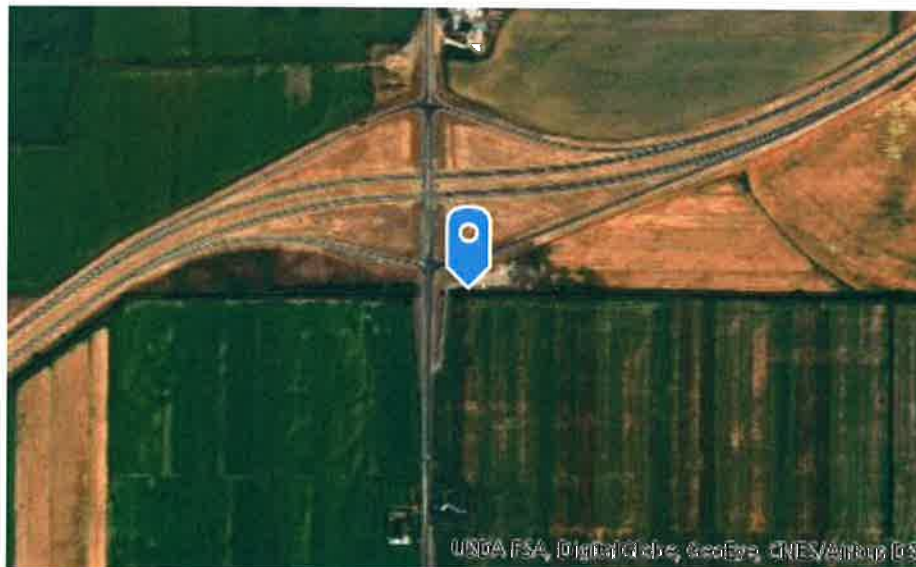
Operating Hours: 00:30

Site Visit Comments:

Good reading.

Measurement Location:

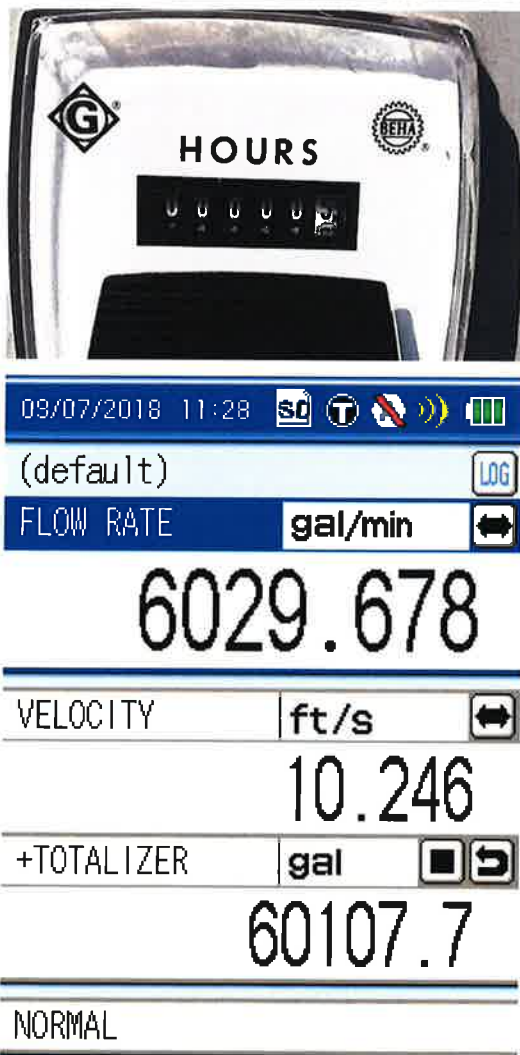
Coordinates: -111.77701, 43.86223



Water District:

Site Visit For WMIS Number 1003234

Examiner: *Jared Adamson*



Idaho Department of Water Resources

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You are viewing 1003235; D0074178

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Edit	Delete	Report Year	Visit Date	Examiner	Reason for Visit
		2018	09/07/2018	JADAMSON	Timeclock Calibration
		Comments Performed calibration. System open discharges into canal and has no control valves. The reading was good with an average flow rate of 6697.62 GPM.			
Edit	Delete	Report Year	Visit Date	Examiner	Reason for Visit
		2018	08/10/2018	TCALLMEYER	Other
		Comments Reason for Approval Irrigation system meets criteria of simple system for timeclock because well discharges into a ditch or pond and is not controlled by valves. Conditions of Approval Approval assumes that discharge pipe is not controlled by a valve. Reducing or increasing flow to the canal will invalidate approval. Prior to making modifications contact your Watermaster to determine if this variance would remain applicable. During the 2018 irrigation season, you must coordinate with Water District 100 Watermaster to have rate of flow in discharge pipe measured. The rate of flow must be measured by the Water District 100 Watermaster annually.			

Water District:

Site Visit For WMIS Number 1003235

Examiner: *Jared Adamson*

Reporting District:

Measurement Date: 09/07/2018 12:08 PM

Point Of Diversion:

WMIS Number: 1003235

Diversion Name:

Measurement Option: Timeclock (7)

Metal Tag Number: D0074178

Contact: Freemont Madison Irrigation District

Follow up Date: Sep 6, 2021

Timeclock:

Average GPM: 6,697.62

Timeclock Start Time 00:30

Average CFS: 14.922313

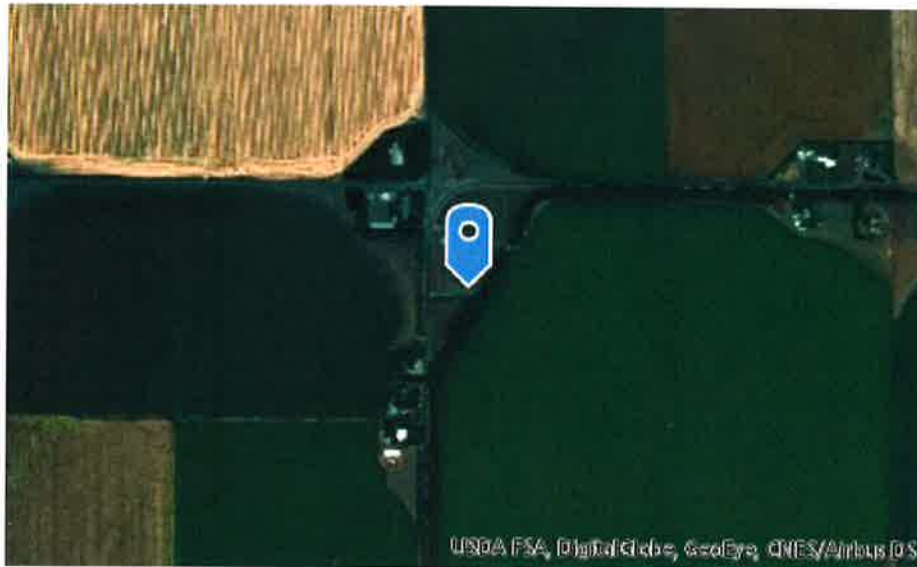
Operating Hours: 00:30

Site Visit Comments:

Good reading. System discharged into canal system. Pump has a 400 HP motor.

Measurement Location:

Coordinates: -111.85636, 43.92558



Water District:

Site Visit For WMIS Number 1003235

Examiner: *Jared Adamson*



09/07/2018 12:18

(default)

FLOW RATE gal/min

6661.529

VELOCITY ft/s

11.352

+TOTALIZER gal

66976.2

NORMAL

