

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 22-13414

Exam Date: 8/28/2014

1. Current Owner: GRANDVIEW LAND CO
4330 MELODY RANCH DR.
JACKSON WY 83001
(307)690-6969
2. Accompanied by: Brandon Harrison
Phone No:
Address:
Relationship to Permit Holder: Owner of property

3. SOURCETRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

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

GROUND WATER	SE1/4SW1/4	Sec. 17, Twp 03N, Rge 45E, B.M.
TETON County		
GROUND WATER	SE1/4SW1/4	Sec. 17, Twp 03N, Rge 45E, B.M.
TETON County		

Method of Determination: GPS and Aerial Photography

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
03N	45E	17								X	X			X		X			

Method of Determination :Aerial Photography and HOA plans.

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.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
D0044342		10		Submersible	
D0044223		10		Submersible	

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Portable Flowmeter	FSC		Fuji	S10A1-00Y	A0L5539T	June/2014

2. Measurements: None. Unable to get measurement. System is connected to a large water tank and owner could not get the system to turn on to full capacity due to the fact that the tank was already full.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method: Theoretical.

System consists of two wells with two 10HP pumps. Theoretical discharge equation was used to determine flow. Depth to water was determined by specific capacity found in the well driller report.

Capacity

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi})}$$

$$Q = \frac{8.8 * .70 * 10.}{(43 \text{ static} + 16 \text{ drawdown}) + 2.31} = 1.05 \text{ cfs} * 2 = 2.1 \text{ cfs capacity}$$

Demand

53 homes = .34 cfs (see maximum instantaneous water requirement for domestic use sheet)

(53 homes and lots) * (.5 acres) * (.02 cfs/acre) = .53 cfs.

.34cfs + .53cfs = .87cfs

Maximum calculated demand = .87 cfs for 53 homes and half acre irrigation/lot.

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation: No Irrigation**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \text{N/A}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \text{N/A}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \text{N/A}$$

2. Volume Calculations for Other Uses:**-Domestic Irrigation (*see attached sheet)**

$$53 \text{ (lots limited to .5 acre)} \times 3.5 \text{ AF/acre} = \mathbf{92.8 \text{ AF}}$$

-In-House

$$53 \text{ (lots w/hookups)} \times (.6 \text{ AF}) = \mathbf{31.8 \text{ AF}}$$

$$\mathbf{92.8 \text{ AF} + 31.8 \text{ AF} = 124.6 \text{ AF}}$$

G. NARRATIVE/REMARKS/COMMENTS

System runs off two submerged 10 hp pumps that supply a 120,000 gallon storage tank. System supplies water to 53 lots for domestic in-house and lawn and garden irrigation.

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>
DOMESTIC	01/01 to 12/31	0.870 CFS	124.6 AF
<u>Totals:</u>		0.870 CFS	124.6 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 ☐ Other

I. AUTHENTICATION

Field Examiner's Name Scott Bergendorf Date 12/22/2015

Reviewer _____ Date _____

Bergendorf, Scott

From: Brandon Harrison [bharrison@rustyparrot.com]
Sent: Thursday, December 24, 2015 9:17 AM
To: Bergendorf, Scott
Subject: Hiddenwaters

RECEIVED

DEC 24 2015

Department of Water Resources
Eastern Region

Scott,
The mailing address for Grandview Land Company unfinished business should be:
4330 Melody Ranch Drive
Jackson, WY 83001

The future mailing address for the hoa will be:
Hiddenwaters HOA
PO Box 1019
Victor, ID 83455
Thanks,

Brandon Harrison
Rusty Parrot Lodge and Spa
175 North Jackson Street
PO Box 1657
Jackson, WY 83001
307-733-8400x501
bharrison@rustyparrot.com

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

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

1 WELL TAG NO. D 0044223
DRILLING PERMIT NO _____
Water Right or Injection Well No. _____

2 OWNER:
Name Grandview Land Company Well #1
Address P.O. Box 6309
City Jackson State WY Zip 83002

3 LOCATION OF WELL by legal description.
You must provide address or Lot, Blk, Sub, or Directions to well.
Twp 3 ☒ North or ☐ South
Rge 45 ☒ East or ☐ West
Sec 17 1/4 SE 1/4 SW 1/4
Gov't Lot _____ County Teton
Lat: 43°34'6" Long: 111°10'33.4"
Address of Well Site: Approx 990 Hiddenwaters Lane
City: Victor

(Give at least name of Road + Distance to Road or Landmark)
Lt. _____ Blk _____ Sub Name: Hiddenwaters

4 USE:
☐ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other Fire Protection

5 TYPE OF WORK: (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
Cement 0 60' 7546 lbs Overbore
Was drive shoe used? ☒ Yes ☐ No Shoe Depth(s) 124'
Was drive shoe seal tested? ☐ Yes ☒ No How? _____

8 CASING/LINER:
Dia. From To Gauge Material Casing Liner Welded Threaded
12" +2' 124' 0.375 Steel ☒ ☐ ☐ ☐
Length of Headpipe: _____ Length of Tailpipe: _____
Packer ☐ Yes ☒ No Type: _____

9 PERFORATIONS/SCREENS: PACKER TYPE
Perforation Method: Factory
Screen Type & Method of Installation: _____ Set in _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>230'</u>	<u>150'</u>	<u>1/4x3"</u>	<u>3200</u>	<u>10"</u>	<u>Steel</u>	☐	☒
<u>150'</u>	<u>120'</u>	<u>Blank</u>		<u>10"</u>	<u>Steel</u>	☐	☒

10 FILTER PACK:
Seal Material From To Weight / Volume Seal Placement Method

11 STATIC WATER LEVEL OR ARTESIAN PRESSURE:
43 ft. below ground Artesian Pressure: _____ lb
Depth flow encountered: _____ ft
Describe access port or control devices: Sanitary Well Cap

12 WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
<u>500 gpm</u>	<u>65'</u>	<u>103'</u>	<u>6 hrs</u>

Water Temp _____ Bottom hole temp _____

Water Quality test or comments: _____

13 LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>16"</u>	<u>0</u>	<u>4</u>	<u>Soil</u>		☒
	<u>4</u>	<u>48</u>	<u>Clay, some gravel</u>		☒
	<u>48</u>	<u>52</u>	<u>Rhyolite, broken, clay</u>		☒
	<u>52</u>	<u>60</u>	<u>clay, broken rhyolite</u>		☒
<u>12"</u>	<u>60</u>	<u>76</u>	<u>Clay, broken rhyolite</u>		☒
	<u>76</u>	<u>121</u>	<u>Clay, gummy some gravel</u>		☒
	<u>121</u>	<u>126</u>	<u>Rhyolite, broken, red</u>		☒
	<u>126</u>	<u>132</u>	<u>Rhyolite, firm, red</u>		☒
	<u>132</u>	<u>140</u>	<u>Rhyolite, fractured, gray</u>		☒
	<u>140</u>	<u>145</u>	<u>Cinders</u>	☒	
	<u>145</u>	<u>147</u>	<u>Cinders</u>	☒	
	<u>147</u>	<u>222</u>	<u>Rhyolite, fractured gray</u>	☒	
	<u>222</u>	<u>223</u>	<u>Red clay</u>	☒	
	<u>223</u>	<u>227</u>	<u>Shale, gray</u>	☒	
	<u>227</u>	<u>230</u>	<u>Gray, brown gummy</u>	☒	

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MAR 05 2007

Department of Water Resources
Eastern Region

Completed Depth 230 (Measurable)
Date Started 7/31/06 Completed 8/17/06

14 DRILLER'S CERTIFICATION:

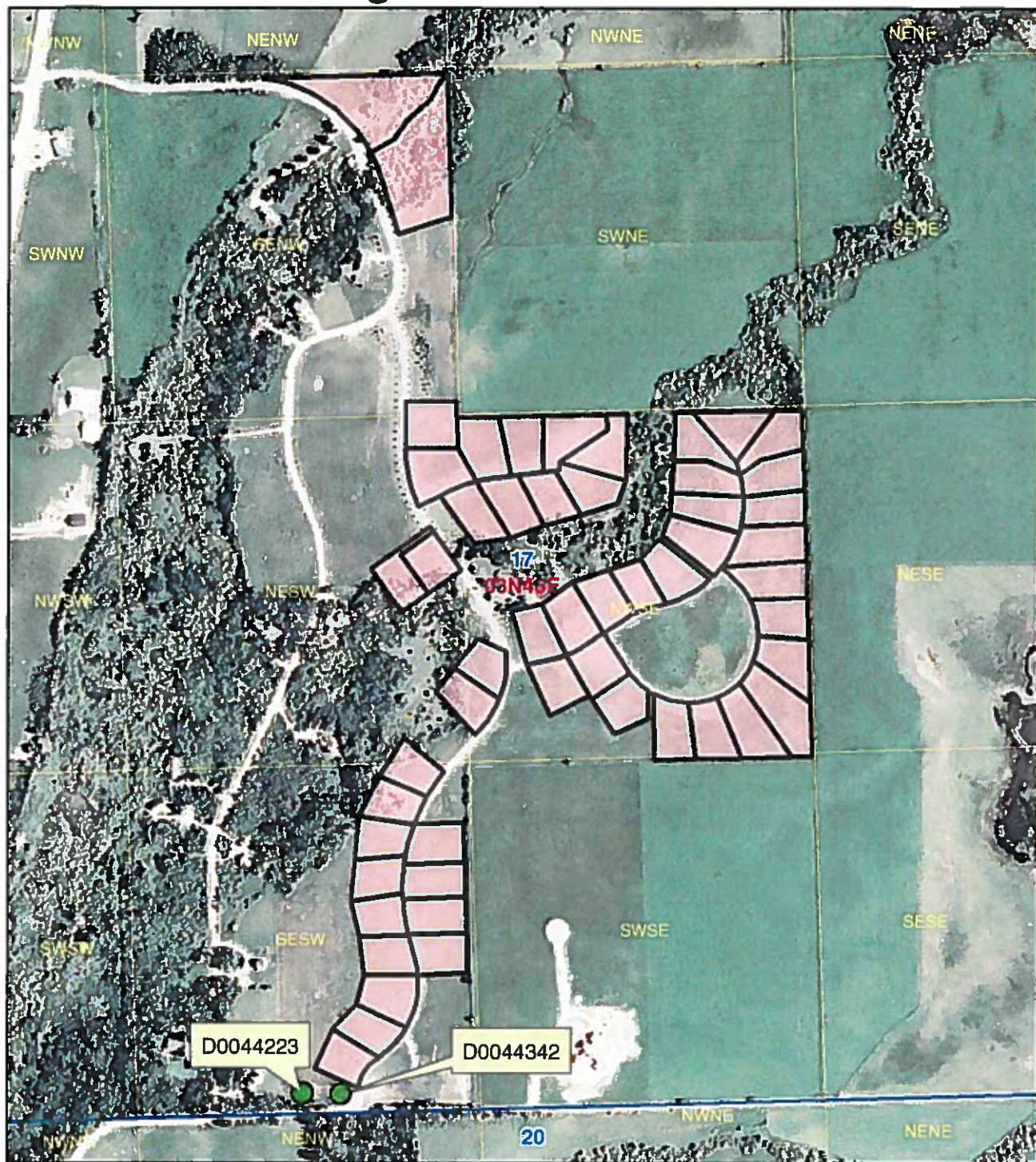
I/We certify that all minimum well construction standards were complied with at the time the rig was removed

Company Name Andrew Well Drilling Services, Inc. Firm No 5

Principal Driller and Driller or Operator II Roger Buchner Date 3-1-07

Operator I [Signature] Date 3-1-07

Water Right License 22-13414



- POU
- Township/Range
- Sections
- QQ

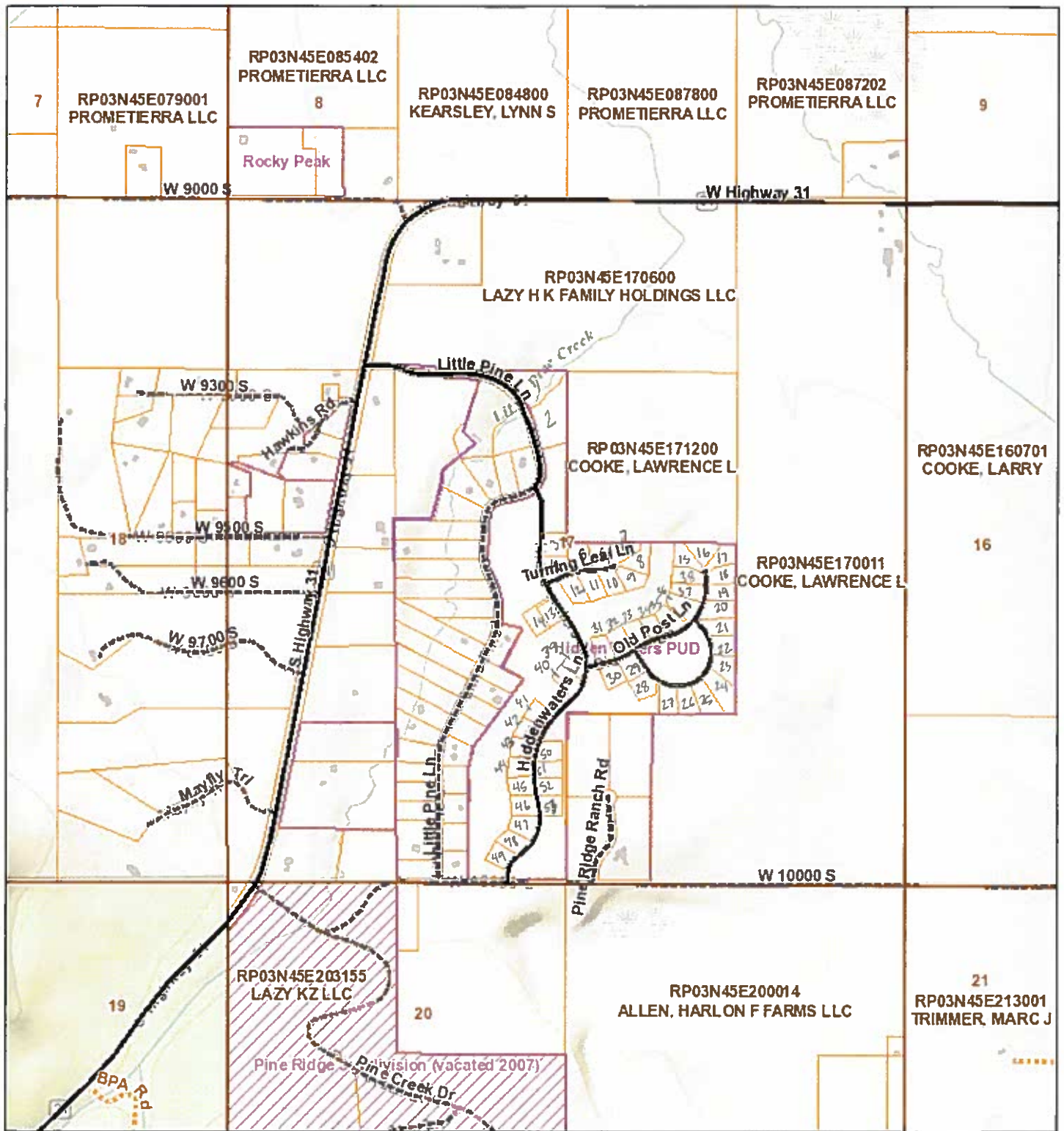
0 350 700 1,400 Feet

Teton County
IDWR Basin 22

Idaho Department of Water Resources
Prepared by Scott Bergendorf
2013 Aerial photography



Teton County, Idaho



November 13, 2015

1:18,056

- County Boundary
- Township
- Sections
- Parcels

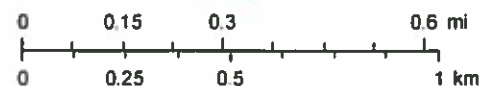
- Gravel
- Earth / Unimproved

Subdivision

- Recorded
- Vacated
- Preliminary

City Boundaries

- City Limits
- Impact Area



Road Surface

- Pavement (asphalt / chip seal)

Sources: Esri, HERE, DeLorme, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), Swisstopo, MapmyIndia, OpenStreetMap contributors, and the GIS User Community
Teton County Idaho GIS

Single Family Domestic Home-----0.04 cfs @ 1.2 afa
 Single Family Trailer Home-----0.02 cfs @ 0.6 afa

**MAXIMUM
INSTANTANEOUS
WATER REQUIREMENTS
FOR
DOMESTIC USE**

34
 33 houses

