

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-17124
Exam Date: 07/10/2019

1. Current Owner:

CITY OF HOLLISTER
2392 MAIN AVE
HOLLISTER ID 83301

2. Accompanied by: A. J. Gray; Jana Reeder, IDWR

Phone No: 208-316-7659

Address:

Relationship to permit Holder: A. J. Gray- Water consultant for City of Hollister

3. **SOURCE:**

GROUND WATER

Method of Determination: Noted wellheads sticking up out of the ground. Mr. Gray confirmed that they were the City wells.

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
47-8218	Ground water	Municipal	License
47-7417	Ground water	Municipal	Decree

Comments: There are numerous domestic, irrigation, and stockwater rights held by private individuals within the City of Hollister service area. Rights 47-8218 and 47-7417 are the only other municipal rights within the City's service area.

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

Water Right No.	Source	Purpose of Use	Basis
47-8218	Ground water	Municipal	License
47-7417	Ground water	Municipal	Decree

Comments: All three municipal rights share the same three PODs.

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NE¼ SW¼ NW¼, Sec. 28, Twp 12S, Rge 16E, B.M. TWIN FALLS County

GROUND WATER SE¼ SE¼ NE¼, Sec. 28, Twp 12S, Rge 16E, B.M. TWIN FALLS County

GROUND WATER NE¼ SE¼, Sec. 28, Twp 12S, Rge 16E, B.M. TWIN FALLS County

Method of Determination: Beneficial use field exam site visit and ArcMap aerial imagery.

2. **Place of Use:** Municipal – Large POU

Method of Determination: ArcMap aerial imagery

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	Tag #	Pump Make	Location
Well #1		25			T12S, R16E, Sect. 28, SENE
Well #2		25-30?			T12S, R16, Sect. 28, NESE
Well #3		40	D0034260		T12S, R16E, Sect. 28, SWNW

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Flowmeter	Ultrasonic	GE	PT878			Spring 2019

2. Measurements: Ran an 11 minute test on each well. The highest flow recorded from each test was used to calculate the flow rate.

E. FLOW CALCULATIONS

☒ Additional Computation Sheets Attached

Measured Method:

Well #1 high flow = 122.6 gpm

Well #2 high flow = 158.6 gpm

Well #3 high flow = 181.2 gpm

Total flow from all three wells = 462.4 gpm, or 1.03 cfs

Total of existing rights' flow rate is 0.89 cfs. Flow rate to license is 1.03 cfs – 0.89 cfs = **0.14 cfs**

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: NA

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

2. Volume Calculations for Other Uses: No volume necessary for municipal use per Beneficial Use Exam rules.

G. NARRATIVE/REMARKS/COMMENTS

The field exam for permit 47-17124 was completed on July 10, 2019, with Hollister water system consultant A. J. Gray and IDWR Water Resource Agent Jana Reeder present. Water for this permit, as well as for the two existing municipal rights, is diverted from three wells. This permit was filed to gain additional flow rate of 0.56 cfs on top of the combined flow rate of 0.89 cfs for the two existing water rights, 47-7417 and 47-8218. On the day of the exam, flow from each well was measured with a GE Panametrics PT878 flowmeter. The highest flow recorded from well #1 was 122.6 gpm. The highest flow from well #2 was 158.6 gpm. Well 3# had a high flow of 181.2 gpm. The total of the highest flow rates was 462.4 gpm, or 1.03 cfs, so only 0.14 cfs from the permit can be licensed (1.49 cfs – 1.03).

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	0.14 CFS	

Totals: 0.14 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. AUTHENTICATIONField Examiner's Name James Bitzenburg Date 7-17-19

James Bitzenburg - Senior Water Resource Agent, Southern Region

Reviewer _____ Date _____

Flowmeter data Well #1

Time 07/10/19	Velocity ft/s	Volume Gallons/min
09:32:47	2.98	122.6
09:33:48	2.98	122.6
09:34:48	2.98	122.6
09:35:47	2.98	122.6
09:36:47	2.98	122.6
09:37:47	2.98	122.6
09:38:47	2.98	122.6
Exit		

Time 07/10/19	Velocity ft/s	Volume Gallons/min
09:36:47	2.98	122.6
09:37:47	2.98	122.6
09:38:47	2.98	122.6
09:39:48	2.98	122.6
09:40:47	2.98	122.6
09:41:48	2.98	122.6
09:42:48	2.98	122.6
Exit		

Flowmeter data Well #2

LOG02.LOG

Time	Velocity ft/s	Volume Gallons/min
07/10/19		
09:53:03	3.84	158.6
09:54:05	3.79	156.6
09:55:04	3.81	157.2
09:56:03	3.66	150.9
09:57:03	3.79	156.4
09:58:02	3.82	157.5
09:59:02	3.74	154.4

Time Refresh Exit

F1 F2 F3 (Power)

LOG02.LOG

Time	Velocity ft/s	Volume Gallons/min
07/10/19		
09:57:03	3.79	156.4
09:58:02	3.82	157.5
09:59:02	3.74	154.4
10:00:03	3.71	153.0
10:01:02	3.77	155.5
10:02:04	3.80	156.6
10:03:02	3.80	156.9

Time Refresh Exit

Flowmeter data Well #3

Time	Velocity ft/s	Volume Gallons/min
10/10/19		
10:47:02	1.81	177.9
10:48:02	1.83	180.5
10:49:02	1.81	177.8
10:50:02	1.80	177.0
10:51:03	1.79	176.5
10:52:04	1.80	177.4
10:53:02	1.76	176.8

Time	Velocity ft/s	Volume Gallons/min
10/10/19		
10:51:03	1.79	176.5
10:52:04	1.80	177.4
10:53:02	1.76	176.8
10:54:02	1.80	180.3
10:55:03	1.81	181.2
10:56:03	1.80	180.9
10:57:02	1.80	180.7



Well #1 and plumbing inside well house

Well #2

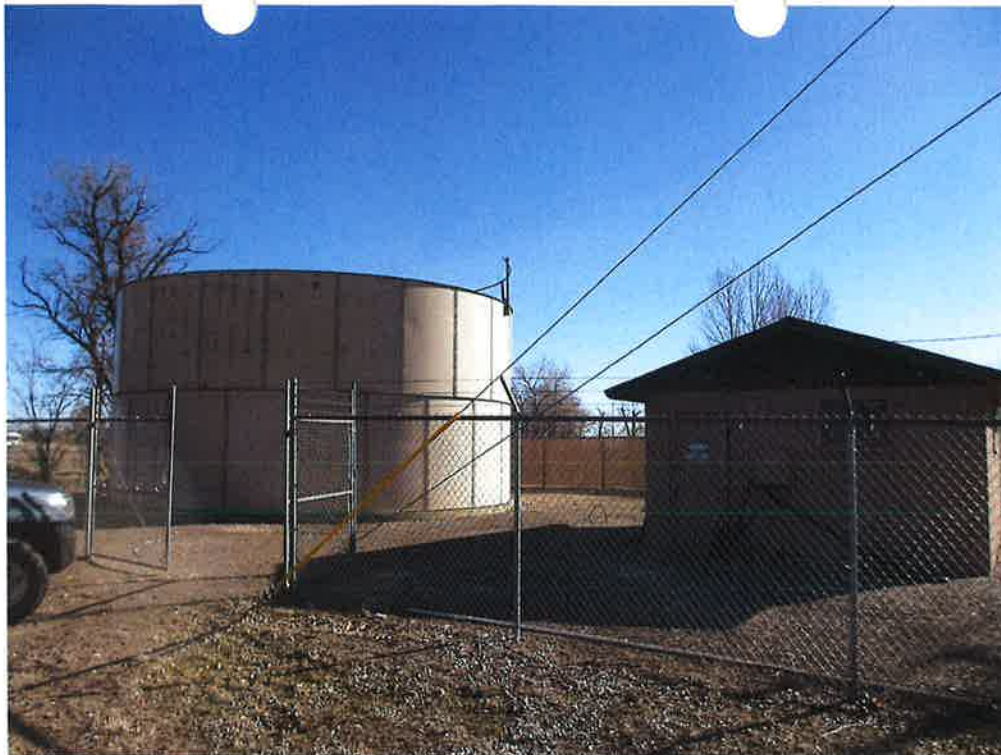




Well #3

Plumbing inside Well #3 well house



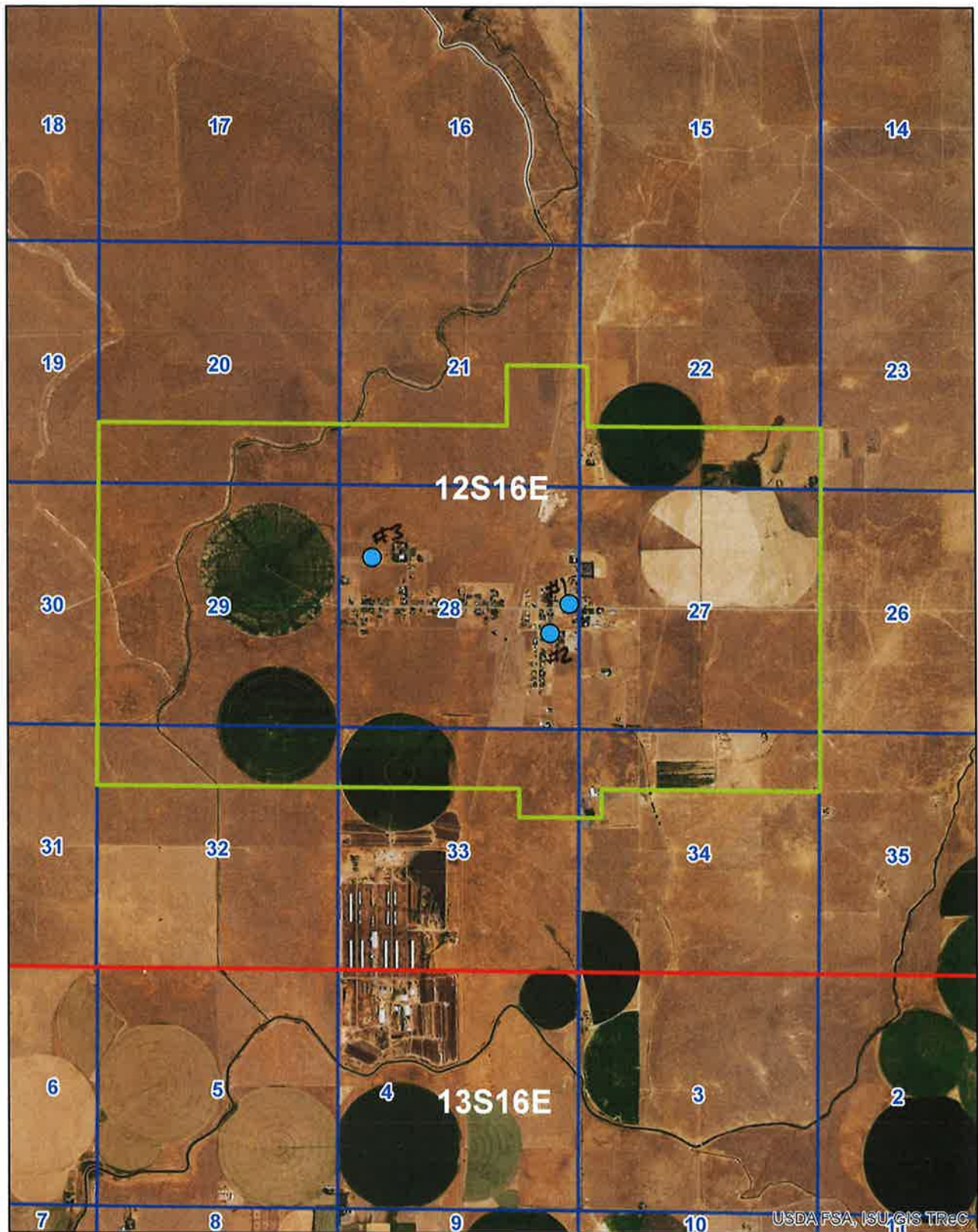


City of Hollister water storage tanks



47-17124 City of Hollister

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Legend

- Township/Range
- Sections
- Place of Use
- Points of Diversion

Place of Use/Points of Diversion and System Diagram

0 0.35 0.7 1.4 Miles

