



State of Idaho

## DEPARTMENT OF WATER RESOURCES

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Web Site: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

February 6, 2014

C. L. "BUTCH" OTTER  
Governor

GARY SPACKMAN  
Director

RIVERS POINT PROPERTY OWNERS ASSN INC  
35 CIRCLE DR  
GARDEN VALEY ID 83622

RE: Water Right Permit No. 65-13624

Dear Permit Holders:

The Department of Water Resources is reviewing the above referenced permit prior to issuing a water right license. By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit.

We found that the examination fee for this permit was submitted for only 0.20 cfs. Our examiner found that your system could pump 0.74 cfs. If you wish to have the license issued for 0.50 cfs (as permitted), you should submit an additional \$50.00 exam fee along with a late penalty fee of \$25.00. Please be advised that our Beneficial Use Examination Rules, IDAPA 37.03.02, License Examination Fee Rule 050.01.c, states:

**c. A license shall not be issued for an amount of water in excess of the amount covered by the examination fee. Subsequent to the examination and prior to a license being issued, the Director will notify the permit holder that the licensed amount will be limited because an insufficient examination fee was paid. The permit holder will be allowed thirty (30) days after the notice is mailed to pay the additional examination fee, along with a late payment penalty of twenty-five dollars (\$25) or twenty percent (20%) of the amount of the additional required fee whichever is more. If payment is received within the thirty (30) day period, the rate or volume licensed shall not be reduced by reason of the examination fee. If payment is not received within the thirty (30) day period, the rate or volume licensed shall be limited by the original examination fee paid. For the purpose of determining advancement of priority for late fee as provided in Section 42-217, Idaho Code, fees shall not be considered as having been paid until paid in full, including any subsequent fee. (7-1-93)**

We will withhold issuance of the license for the next thirty (30) days to allow you time to submit the additional exam fee and late penalty fee (\$50.00 + \$25.00 = \$75.00). If you

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do not wish to have the additional 0.30 cfs (approximately 135 gallons per minute) on your license, you can choose not to pay the additional exam fee and your water right license will be limited to 0.20 cfs when finalized.

If you have any questions, please feel free to contact me at (208)334-2190.

Sincerely,

A handwritten signature in black ink that reads "Kay Walker". The signature is fluid and cursive, with a large loop at the end of the last name.

KAY WALKER  
Sr. Water Resource Agent

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STATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**BENEFICIAL USE FIELD REPORT**

**A. GENERAL INFORMATION**

Permit No: 65-13624

Exam Date: 9/9/2013

1. Current Owner: RIVERS POINT PROPERTY OWNERS ASSN INC  
35 CIRCLE DR  
GARDEN VALLEY ID 83622  
(208)376-5954
2. Accompanied by: Scott Rhead  
Phone No: 208-376-5954  
Address: 7100 Brookover Drive, Boise, ID 83709  
Relationship to Permit Holder: Certified Water Operator for Rivers Point Subdivision Water System

3. **SOURCE**MIDDLE FORK PAYETTE RIVER  
SPRING**TRIBUTARY**PAYETTE RIVER  
MIDDLE FORK PAYETTE RIVER**B. OVERLAP REVIEW**

1. Other water rights with the same place of use: 65-12045, 65-12765, 65-12523, 65-13801, 65-12304
2. Other water rights with the same point of diversion: None

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

|                           |            |                                 |
|---------------------------|------------|---------------------------------|
| MIDDLE FORK PAYETTE RIVER | NE1/4NW1/4 | Sec. 21, Twp 09N, Rge 04E, B.M. |
| BOISE County              |            |                                 |
| SPRING                    | NE1/4NW1/4 | Sec. 21, Twp 09N, Rge 04E, B.M. |
| BOISE County              |            |                                 |

Method of Determination: Arc Map (Aerial Photo)

2.

**PLACE OF USE:** DOMESTIC

| Twp | Rge | Sec | NE |    |    |    | NW |     |     |    | SW |    |    |    | SE |    |    |    | Totals |
|-----|-----|-----|----|----|----|----|----|-----|-----|----|----|----|----|----|----|----|----|----|--------|
|     |     |     | NE | NW | SW | SE | NE | NW  | SW  | SE | NE | NW | SW | SE | NE | NW | SW | SE |        |
| 09N | 04E | 21  |    |    |    |    | X  | X   | X   |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    | L 4 | L 3 |    |    |    |    |    |    |    |    |    |        |

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Method of Determination: Arc Map (Aerial Photo); Tax Lots

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 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 Size</u> |
|----------------------------------|-------------------|-----------|-------------------------|------------------|------------------------------------------|
| N/A                              | N/A               |           | N/A                     | N/A              | 8"                                       |
|                                  |                   |           |                         |                  |                                          |
|                                  |                   |           |                         |                  |                                          |
|                                  |                   |           |                         |                  |                                          |

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

**D. FLOW MEASUREMENTS**

1.

| <u>Measurement Equipment</u> | <u>Type</u> | <u>Make</u> | <u>Model No.</u> | <u>Serial No.</u> | <u>Size</u> | <u>Calib. Date</u> |
|------------------------------|-------------|-------------|------------------|-------------------|-------------|--------------------|
| N/A                          |             |             |                  |                   |             |                    |
|                              |             |             |                  |                   |             |                    |

2. Measurements: No field measurement. The 8" supply line is submerged in the 12" PVC pumping stand pipe, so Not able to attain a flow measurement.

**E. FLOW CALCULATIONS**

\_\_\_\_ Additional Computation Sheets Attached

Measured Method: (Continuity Equation)

$$Q(8" - \text{River}) = VA = 2 \text{ ft/sec} \times 0.35 \text{ ft}^2 = 0.70 \text{ cfs}$$

$$Q(2" - \text{Spring}) = VA = 2 \text{ ft/sec} \times 0.02 \text{ ft}^2 = 0.04 \text{ cfs}$$

$$Q(\text{River}) + Q(\text{Spring}) = 0.70 \text{ cfs} + 0.04 \text{ cfs} = 0.74 \text{ cfs}$$

$$Q(\text{theoretical}) = 0.74 \text{ cfs} > 0.50 \text{ cfs } Q(\text{permit})$$

8" Supply Line – River

$$V = 2 \text{ ft/sec (Assumed)}$$

$$A = 0.35 \text{ ft}^2$$

2" Supply Line – Spring

$$V = 2 \text{ ft/sec (Assumed)}$$

$$A = 0.02 \text{ ft}^2$$

Appears that the current two water supply systems can attain the permit diversion Rate of 0.50 cfs. Recommend the permit diversion rate of 0.50 cfs

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**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation: N/A

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

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

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

2. Volume Calculations for Other Uses: (60-Lot Subdivision – Internal Domestic)

$$V = 0.60 \text{ AF/Lot} - \text{Domestic Internal Use}$$

$$V = 60 \text{ Lots} \times 0.60 \text{ AF/Lot} = 36.0 \text{ AFA}$$

**G. NARRATIVE/REMARKS/COMMENTS**

The Rivers Point Subdivision diverts surface water from the Middle Fork of the Payette River and a spring. Surface water from the Middle Fork of the Payette River is diverted through 8" PVC perforated pipe to a 12" PVC pumping stand pipe. Spring water is diverted from a spring located within a hillside. Spring water is diverted through 2" PVC pipe to an 18" diameter spring box located near the toe of the hillside. The spring water is discharged through 1 1/4" PVC pipe to a 1 1/4" PVC manifold in the 12" PVC pumping stand pipe.

A 3/4-hp submersible pump diverts water from the 12" PVC pumping stand pipe through 1" PVC pipe to a water treatment and water system control building. The initial water treatment is a 3' thick layer of sand in a concrete sand filter tank. Once the water is treated through the sand filter tank, the water is discharged to a concrete clarifier tank for chlorination. Once the water treatment process has been completed, the treated water is pumped through a 6" PVC supply line to a 70,000 gallon steel water storage tank. Water is discharged from the tank through a 6" PVC main line to provide water to the 60 residential lots within the Rivers Point Subdivision.

**OVERLAP ANALYSIS:**

Point of Diversion: There are no point of diversion overlaps for Water Right Permit No. 65-13624.

Place of Use: Water Right Permit No. 65-13624, Water Right Permit No. 65-13801, and Water Rights 65-12045, 65-12765, 65-12523, and 65-12304 have overlapping places of uses.

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

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### RATE &/OR STORAGE RECOMMENDED FOR LICENSING

| Description               | Rate of Flow (cfs) |      | Storage (af) |
|---------------------------|--------------------|------|--------------|
| Permit Amount             | 0.50               | &/or | N/A          |
| Beneficial Use Limit      | 0.50               | &/or | N/A          |
| System Measurement        | 0.74(theoretical)  | &/or | N/A          |
| Proof Fee Amount          | 1.0                | &/or | N/A          |
| <b>Recommended Amount</b> | 0.50               | &/or | N/A          |

#### H. RECOMMENDATIONS

##### 1. Recommended Amounts

| <u>BENEFICIAL USE</u> | <u>PERIOD OF USE</u> | <u>DIVERSION RATE</u> | <u>ANNUAL VOLUME</u> |
|-----------------------|----------------------|-----------------------|----------------------|
| DOMESTIC              | 1/01 to 12/31        | 0.500 CFS             | 36.0 AFA             |
| <u>Totals:</u>        |                      | 0.500 CFS             | 36.0 AFA             |

##### 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

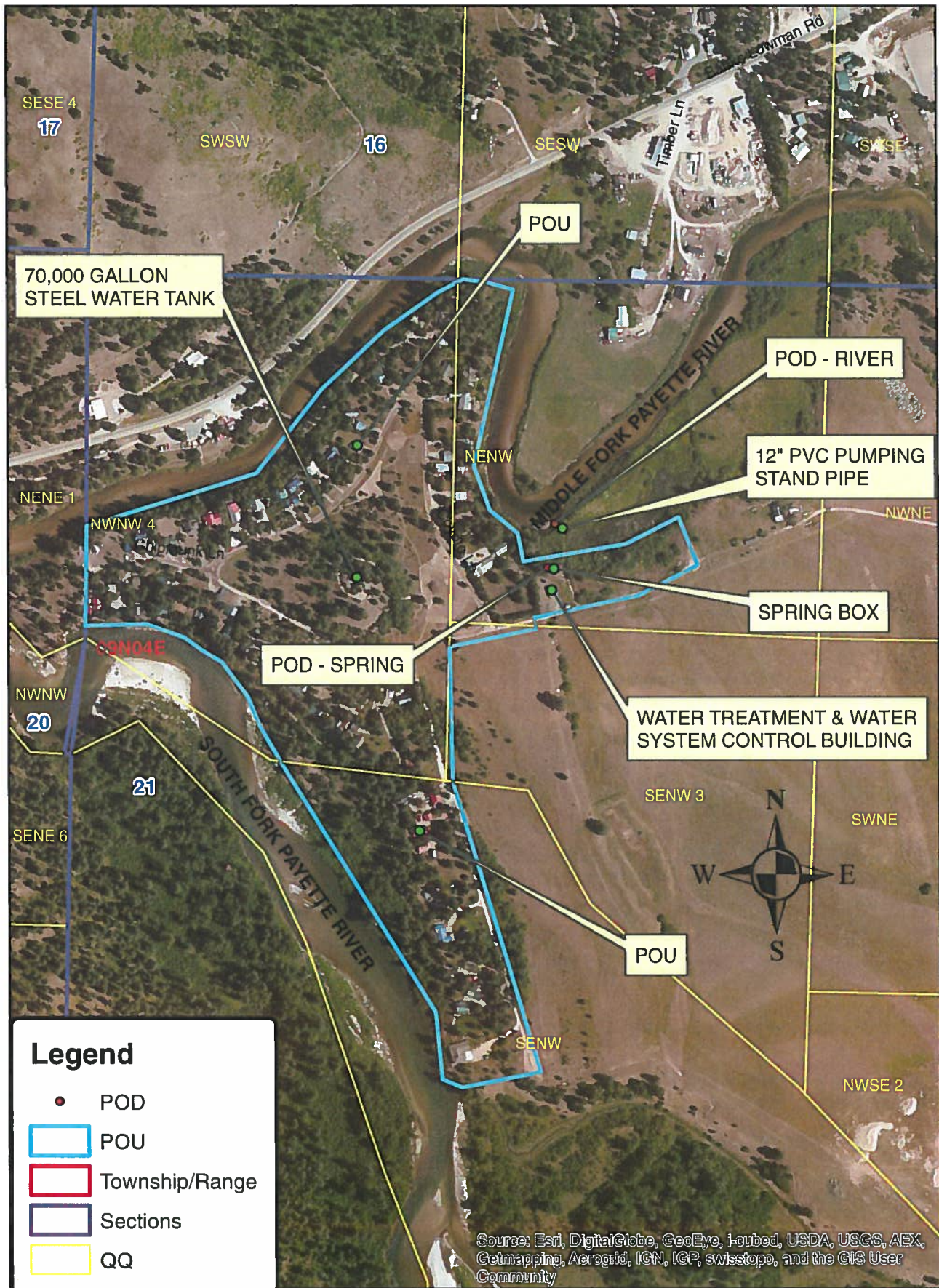
Field Examiner's Name Rick Collingworth Date 1/31/14  
 Reviewer \_\_\_\_\_ Date \_\_\_\_\_

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65-13624  
GOV'T. LOTS 3 & 4

ESRI AERIAL PHOTO - 2012



**Legend**

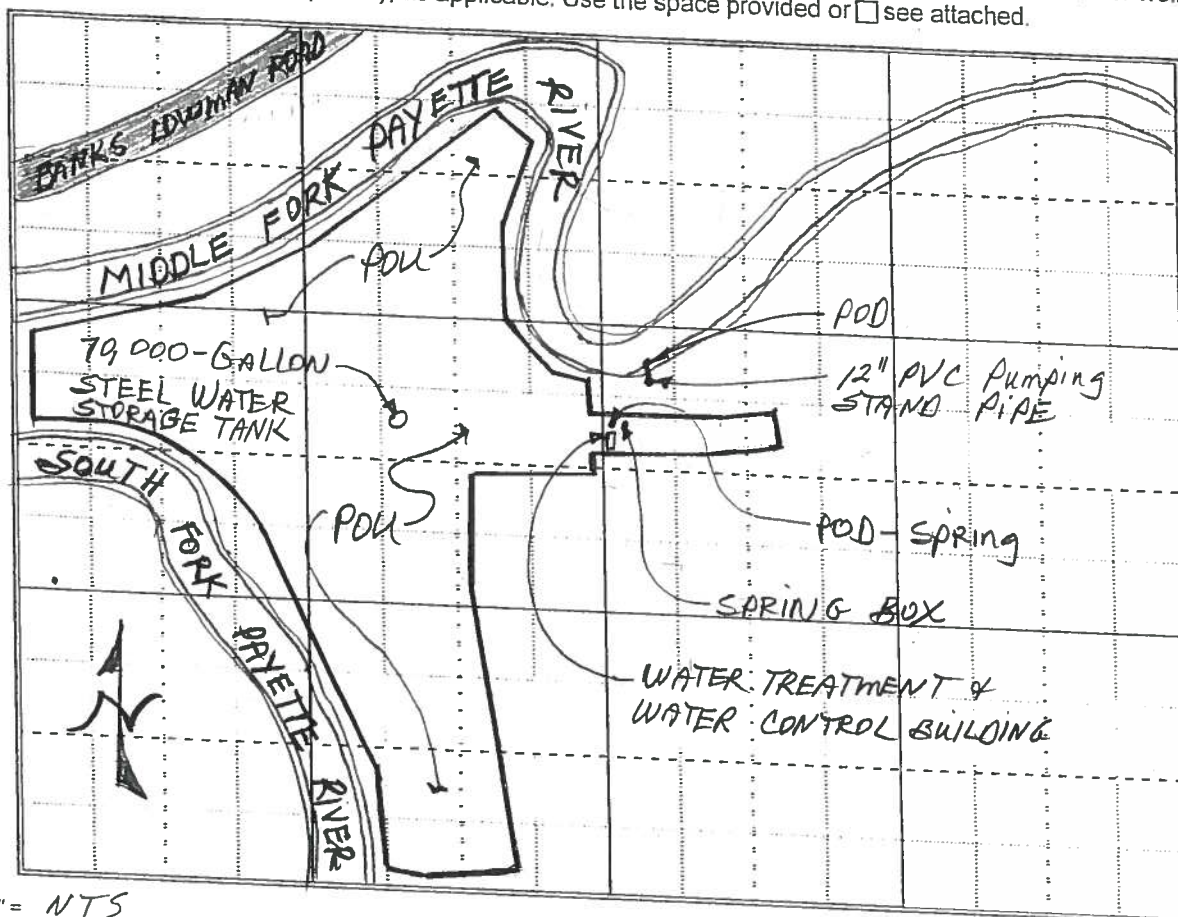
- POD
- POU
- Township/Range
- Sections
- QQ

0 165 330 660 990 1,320  
Feet

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3. Delivery System Diagram: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
- ☒ Aerial photo attached (required for irrigation of 10+ acres)
- ☒ Photo of diversion and system attached

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## FIELD EXAM PHOTOS

Water Right Permit: 65-13624

Field Exam Date: 9-9-13

PLS: NW1/4, NW1/4 Section 21, T.09N, R.04E

Field Examiner: RC



Point of Diversion: View northwesterly from the southerly bank of the Middle Fork of the Payette River of the 8" PVC perforated supply line. Water is diverted to a 12" PVC pumping stand pipe. A ¾-hp submersible pump discharges water from the 12" PVC stand pipe through 1" PVC discharge line to a water treatment and water system control building.



View of the 12" PVC pumping stand pipe and control valve box for the 1" PVC supply line to the water treatment and water system control building. A steel cap is placed over the 12" PVC pumping stand pipe to prevent debris and contaminants from entering the water supply system.

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Point of Diversion: View northwesterly of the metal structure for an 18" PVC spring box.



View of the 18" PVC spring box inside the metal structure. The spring box extends 15' below ground. A 2" PVC supply line, which penetrates a nearby hillside, diverts water from a spring to the spring box. A 1" PVC discharge line conveys spring water to a 1 1/4" PVC manifold located in the 12" PVC pumping stand pipe. A 4" PVC overflow pipe discharges overflow spring water to the Middle Fork of the Payette River.

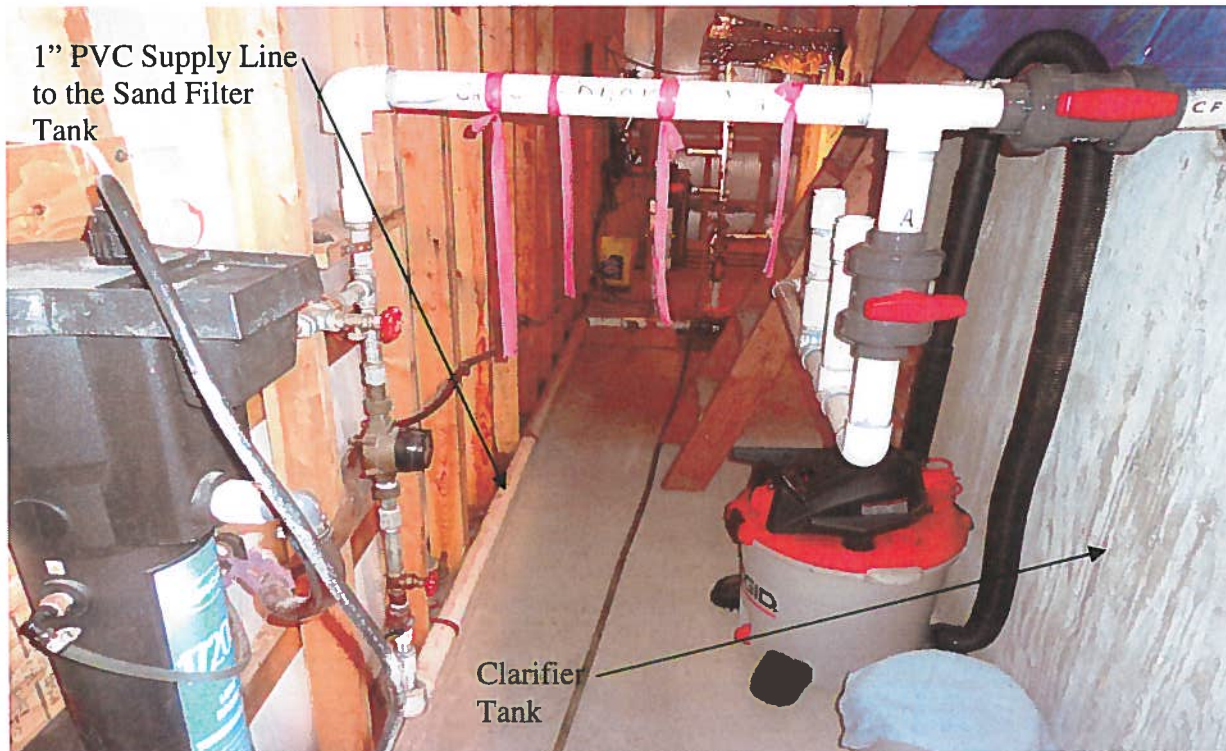
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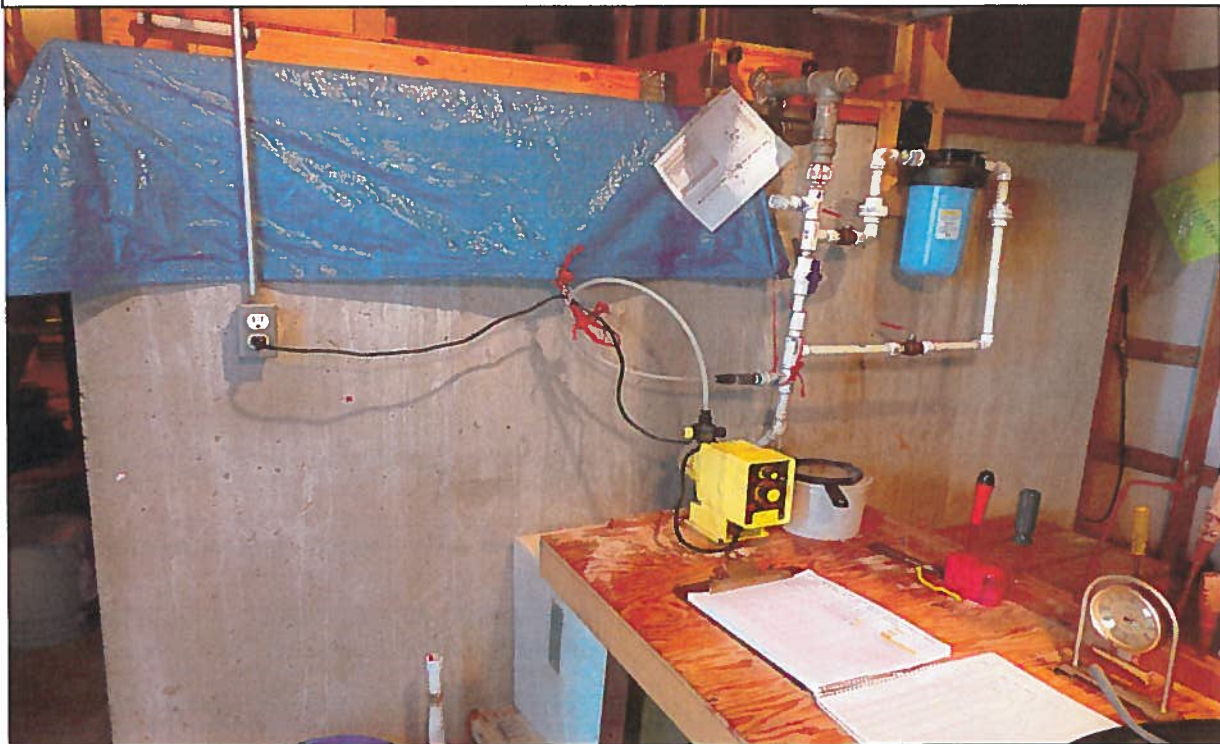
View northwesterly of the water treatment and water system control building. The water treatment facilities include a slow sand filter tank and a clarifier tank for chlorination.



View of the 1" PVC supply line to the slow sand filter tank located inside the water treatment and water system control building.



View of the 2" PVC discharge piping from the slow sand filter tank to the clarifier tank. The 1" PVC supply line to the slow sand filter tank is shown on the building floor.



View of the clarifier tank located in the water treatment and water system control building. A chlorination pump is located on the table next to the clarifier tank.