

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 86-12167
Exam Date: 04/15/2025

1. Current Owner:
BLUE STREAM LLC 2621 PEACHTREE RD NE ATLANTA GA 30305-3603 AND
FIELDS LLC 2621 PEACHTREE RD NE ATLANTA GA 30305-3603
2. Accompanied by: Daryl Swanstrom
Phone No: 404-307-3382
Address: Same as above
Relationship to permit Holder: Permit Holder (Member of each LLC)

3. SOURCE:
SPRING

Tributary
SINKS

Method of Determination: DRG, ArcMap, Beneficial Use Field Exam physical inspection.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Comments: Licensed Right 86-7288 which authorizes Unnamed Stream source water for Wildlife Storage (3 ponds) has a generic 120-acre license POU which overlaps a portion of this Right, but there is no concern for overlap between Rights.

2. Other water rights with the same point-of-diversion: NO Overlap

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

SPRING NE¼ SE¼ SW¼, Sec. 8, Twp 40N, Rge 02W, B.M. LATAH County

Method of Determination: GPS located Spring source with vaulted cistern located at -116°36.994, 46°49.089.

PLACE OF USE: STOCKWATER & FIRE PROTECTION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
40N	02W	17					X	X											
40N	02W	8												X					

PLACE OF USE: DOMESTIC

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
40N	02W	17					X												

Method of Determination: Beneficial use field examination and ArcMap aerial imagery.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

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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

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1:24,000 or greater.

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Aerial Photo Attached (required for irrigation of 10+ acres).

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Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
SPRING PUMP	GRUNFOS	UNKOWN	7429	UNKOWN	1 INCH DISCHARGE

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5-GAL BUCKET MEASUREMENTS						

2. Measurements: Three 5-gallon bucket tests were completed from a frost-free hydrant co-located with the spring cistern & diverting pump, with an average of three measurements resulting in a diversion rate of 16.7 gpm = 0.04 cfs, considering department rounding standards.

E. FLOW CALCULATIONS

Measured Method: 5-GAL Bucket Test = (5 gal / 17.81 sec) x 60 sec/min = 16.84 gpm
 = (5 gal / 18.05 sec) x 60 sec/min = 16.62 gpm
 = (5 gal / 18.13 sec) x 60 sec/min = 16.55 gpm

Average of 3ea 5-GAL Bucket Tests = (16.84 gpm + 16.62 gpm + 16.55 gpm) / 3 = 16.7 gpm = 0.04 cfs considering department rounding standards.

- Permit authorized 0.05 cfs (Stockwater) / 0.04 cfs (Domestic) / 0.20 cfs (Fire Protection)
- Field examination determined a pump capacity of 0.04 cfs, which limits the amount I'm authorized to recommend for licensing to **0.04 cfs** respectively for each beneficial use. I've reduced the Stockwater and Fire Protection diversion rates along with the Maximum diversion rate for licensing purposes.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A; ½ acre irrigation included under Domestic beneficial use.

2. Volume Calculations for Other Uses:

- Due to the Fire Protection direct flow beneficial use, there isn't a Maximum Diversion Volume reported for licensing purposes; Fire Protection water use is exempt from the volume reporting requirements IAW Section 035 of Idaho Administrative Code – IDAPA 37.03.02 Beneficial Use Examination Rules.
- Stockwater annual volume = 101 head cattle x 12 gpd x 365 days = 442,380 gals / 325,850 gal/af = **1.3 af** considering department rounding standards.
- Domestic annual volume = 1 home with ½ ac irrigation = **1.2 af**.

G. NARRATIVE/REMARKS/COMMENTS

I conducted the beneficial use field exam on 4/15/2025 with the Permit Holder, Daryl Swanstrom – acting member for both LLC(s), which showed spring water being diverted for domestic, stockwater, and fire protection purposes. At the POD, a vaulted concrete cistern with 7'x7'x7' dimensions temporarily capturing spring water that is pumped and conveyed by buried pipeline a distance to storage tanks before distribution for beneficial uses. The source tributary was permit approved as "Sinks", and while a surface source stream flows to the east of the spring and cistern, I didn't observe any historic stream channels that would have directly linked the two together; I recommend maintaining "Sinks" as the tributary for licensing purposes.

I was unable to evaluate the rate of flow spring water infiltrates into the cistern and am making licensing recommendations based on the pump used to convey water from the cistern to other storage tanks. The unknown hp submersible pump has a Grundfos pump controller Type CU301 which is factory set to operate at 70 psi with pump motor serial number #7429. I collected flow measurements using the timed 5-gal bucket technique from a frost-free hydrant co-located with the spring source & cistern resulting in a diversion rate of 0.04 cfs. 0.04 cfs is assigned to three beneficial use(s) individual diversion rates and as the maximum diversion rate recommended for licensing purposes.

Spring water is conveyed by buried pipeline approximately 3/8-mile southwest into 3-ea buried storage tanks used for distribution to water uses. During the exam I collected numerous photographs to illustrate the water system which include the storage tank(s) transfer pump(s) control panel tree situated alongside the buried tanks. 3-3,000-gal tanks serve as 24-hr impoundment for domestic and stockwater use in addition to standby fire protection water. At the time of exam, I observed only two of the tanks were plumbed with transfer pumps, but Daryl asserted the third was being developed this year. Added storage in the 3rd tank doesn't exceed the 24-hr impoundment authorized for all beneficial uses.

Transfer pumps convey water via 2-inch buried pipelines to the primary residence, multiple frost-free hydrants, and a dedicated 2-inch fire tender truck fill point co-located with the storage tanks. The domestic POU is a large footprint residence currently being remodeled. I have recommended 1.2 af for domestic use which includes external use for up to ½ acre; hose and sprinklers are used from a hydrant near the home for landscape watering, but no real lawn space has been prioritized yet at the residence. I used ArcMap aerial imagery during licensing review to designate the domestic POU shape, in addition to the Stockwater & Fire Protection POU shapes.

The stockwater POU consists of portable stock tanks that are moved between fenced cow pastures throughout the summer grazing period. Daryl owns multiple parcels in the immediate vicinity, and all are consistently leased for summer grazing of cattle up to 101 head cow/calf pairs. While stock use all the fenced pasture acreage, I have used ArcMap aerial imagery to designate four (4) circular POU shapes which relate to frost-free hydrants and 2-inch fire truck fill point; portable stock tanks and truck tanks are filled and distributed to large blue stock tanks which are moved from pasture to pasture during the season. The stockwater annual volume was derived using 12-gal per day per head of stock equaling 1.3 af (calculations above).

The fire protection POU is the same as the stockwater POU for licensing purposes. The primary fire truck tender fill point is the co-located with storage tanks, but all the frost-free hydrants can be tapped to assist in suppressing an active fire, so I've recommended them in the POU shape. As stated, there is no volume reporting associated with fire protection, but conditions of approval annotate water may only be diverted under fire protection beneficial use to fight an active fire. During the exam Daryl asserted the rural fire department has performed site visits to gain information on resource availability that may be tapped as needed for fire requirements in the local area.

POU legal description recommendation for licensing purposes:

- The Permit authorized the development of all 3 beneficial uses with the same POU legal description which encompassed four QQ/Qs in two separate Sections.
- Following the exam, I used Arcmap to assign POU shapes with changes as follows:
 - Domestic POU – assigned in only the NE1/4NW1/4 of Section 17; all other QQ/Qs were removed from this beneficial use.
 - Stockwater & Fire Protection POU(s) – as assigned I removed only the SW1/4SW1/4 of Section 8 from the Permitted values toward license recommendations.

During the licensing review I removed condition X02 from the Permit based on condition description guidance. All other conditions on the Permit are being carried forward to the license. Water Right overlap was evaluated on PG 1 of this report and there are no overlapping WR concerns toward licensing 86-12167.

Have conditions of permit approval been met? Y Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
STOCKWATER	01/01 to 12/31	0.04 CFS	1.3 AF
DOMESTIC	01/01 to 12/31	0.04 CFS	1.2 AF
FIRE PROTECTION	01/01 to 12/31	0.04 CFS	

Totals: 0.04 CFS

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION Luke Bates – Sr Water Resource Agent

Field Examiner's Name *[Signature]* Date 6/23/2025

Reviewer Michelle Richman Date 8/7/2026

State of Idaho
Department of Water Resources
Attachment to Field Exam
86-12167

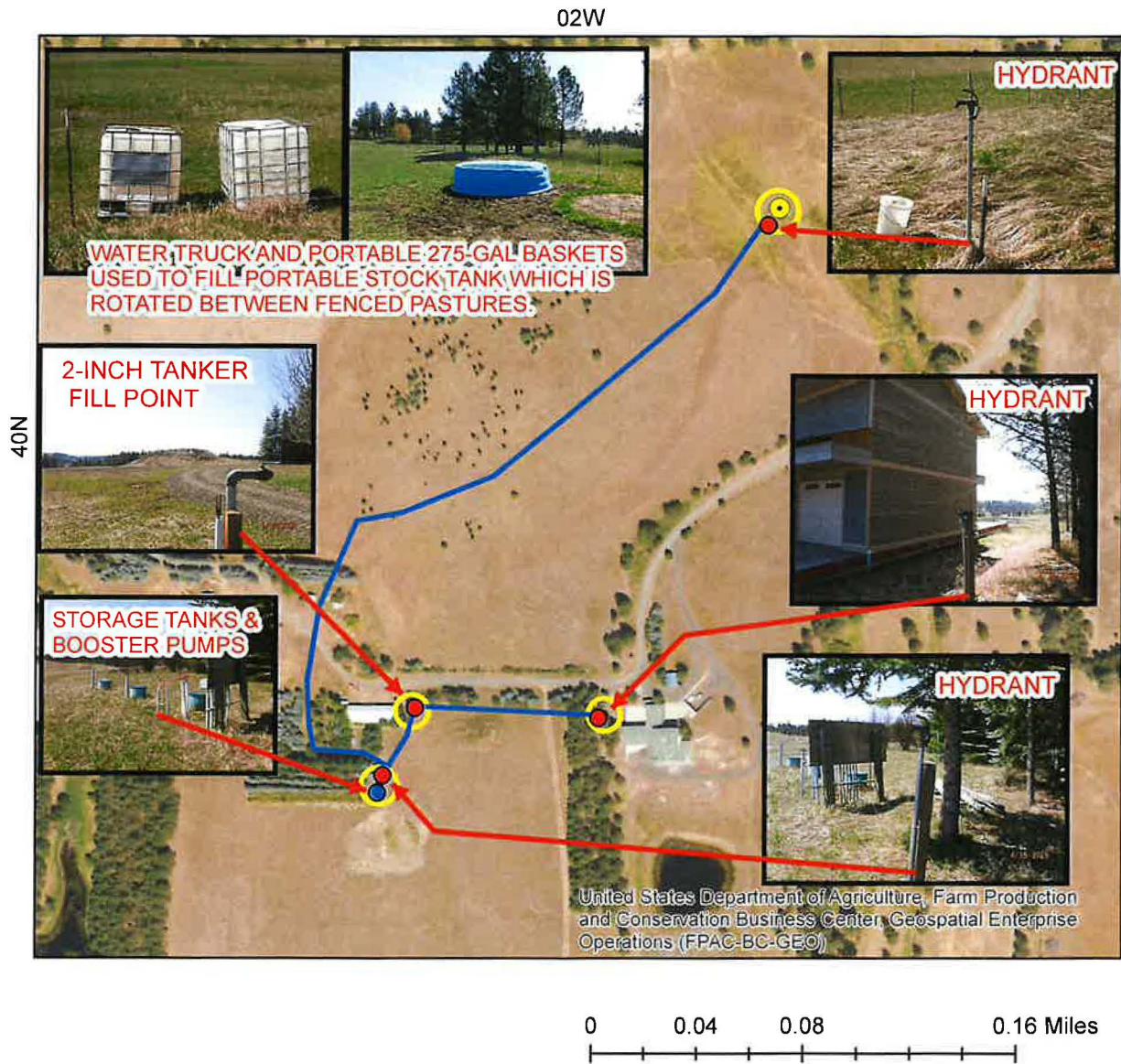
This map depicts the DOMESTIC system diagram.



- Place Of Use Boundary
- Point of Diversion
- Townships
- PLS Sections
- Quarter Quarters

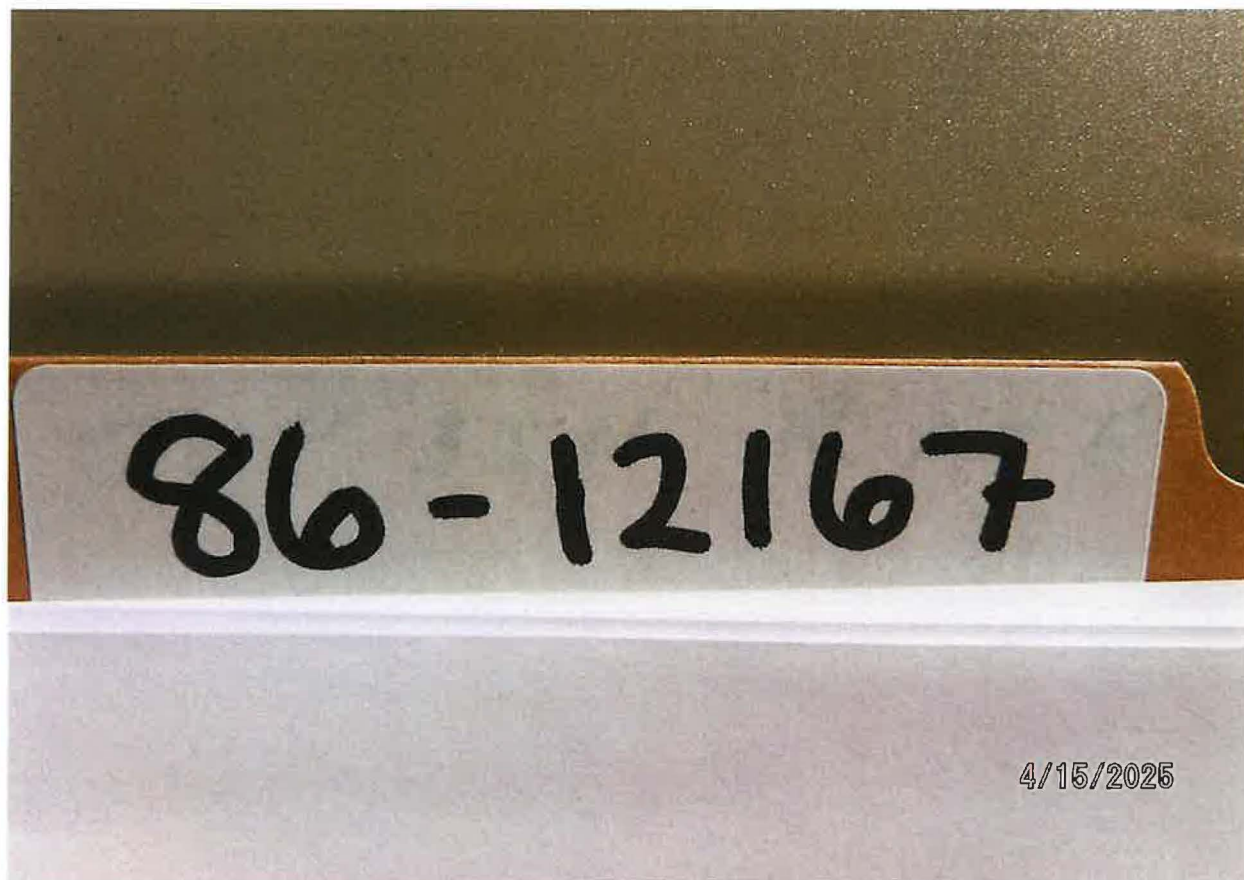
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This map depicts the STOCKWATER and FIRE PROTECTION system diagram(s).



-  Place Of Use Boundary
-  Point of Diversion
-  Townships
-  PLS Sections
-  Quarter Quarters





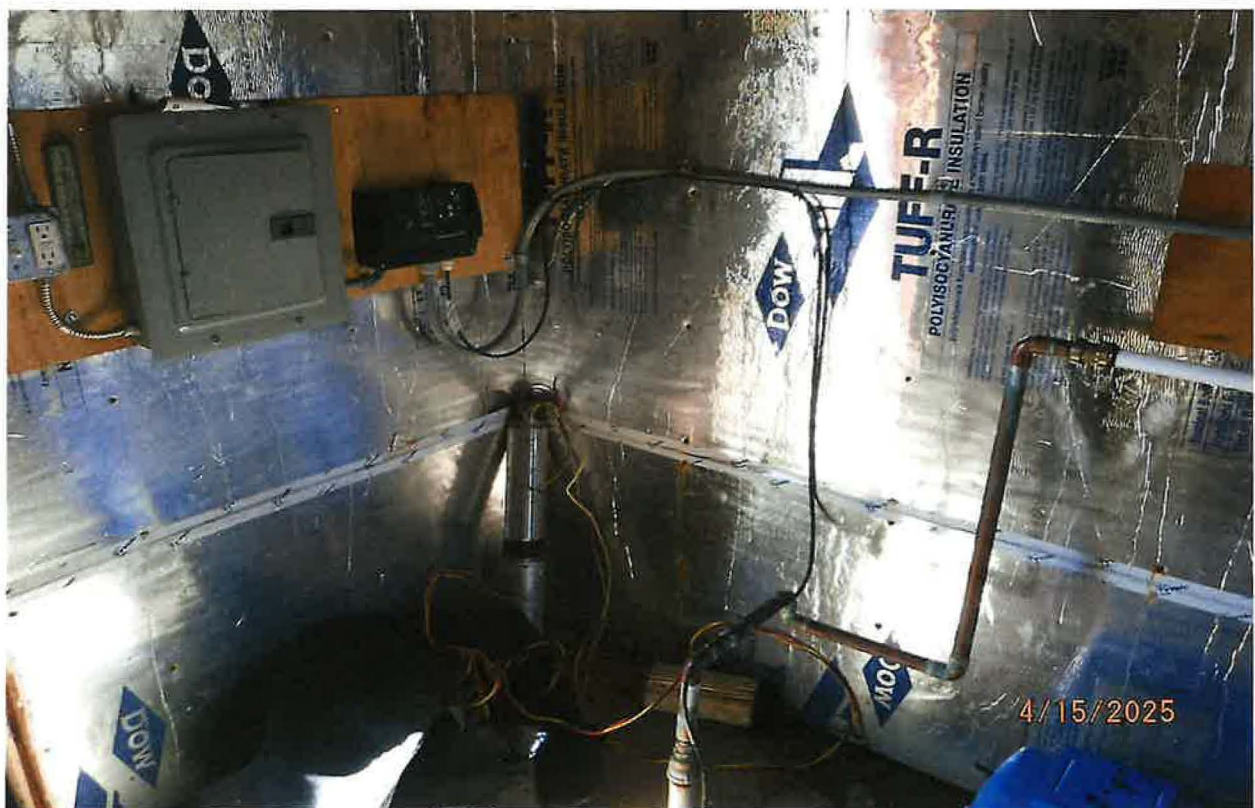
BENEFICIAL USE FIELD EXAM DATE 4/15/2025



POD – SPRING (7'x 7' x 7') CONCRETE CISTERN CAPTURING SPRING SOURCE WATER



POD – VAULTED SPRING CISTERN – VIEW LOOKING IDOWN FROM ACCESS DOOR
AT WATER & PUMP DIVERTING WORKS



DIVERTING WORKS – GRUNDFOS SUBMERSIBLE PUMP AND SMALL PRESSURE
TANK



SMALL PRESSURE TANK AND MAIN DIVERTING PIPELINE



PRESSURE GAUGE KNEEDLE WAS NOT ATTACHED – UNABLE TO SECURE SYSTEM
PRESSURE AT TIME OF EXAM



POD – DIVERTING PUMP, UNKNOW HP, WITH GRUNDFOS PUMP CONTROLLER



PUMP CONTROL PANEL (IMAGE ROTATED) – GRUNDFOS S/N: 7429.



5-GAL BUCKET MEASUREMENT (3EA) TAKEN FROM HYDRANT LOCATED 10 FT
OUTSIDE SPRING CISTERN WITH PUMP.

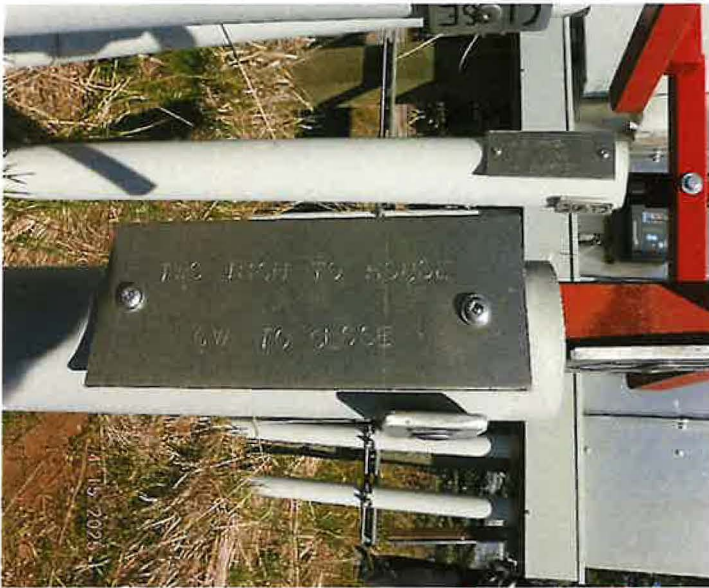




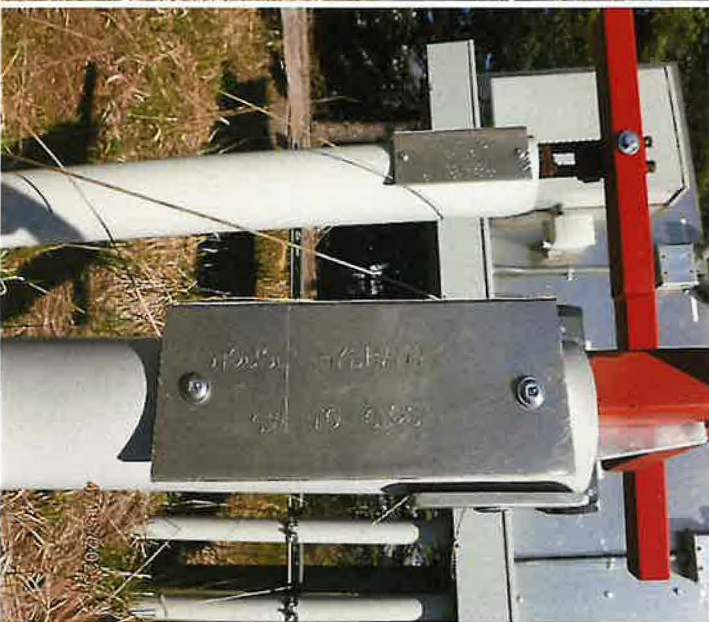
WATER CONVEYANCE SYSTEM – BURIED PIPELINE FROM SPRING TO 3EA – 3,000 GALLON VAULTED STORAGE RESERVOIRS SERVING AS 24-HR IMPOUNDMENT USE.



STORAGE TANK CONTROL PANEL TREE – 1 TANK WAS NOT IN USE AT TIME OF INSPECTION (ONLY TWO CONTROL PANELS OPERATIONAL).



2-INCH PIPELINE TO HOUSE VALVE



HOUSE HYDRANT PIPELINE VALVE



TANK FILL FROM SPRING VALVE



TANK BYPASS VALVE

EACH STORAGE TANK HAS DUPLICATE BURIED WATER LINE CONNECTIONS WITH VALVE CONTROLS ESTABLISHED TO SEND WATER TO APPROPRIATE WATER USE(S)



HYDRANT CO-LOCATED WITH STORAGE TANK(S)



HYDRANT LOCATED AT MAIN RESIDENCE FOR DOMESTIC USE



FIRE PROTECTION POU – 2-INCH FIRE TENDER FILL POINT





DOMESTIC POU – 1 HOME



STOCKWATER POU – MULTIPLE FENCED PASTURES ON PROPERTY(S) USED TO ROTATE SUMMER LEASE OF CATTLE



STOCKWATER PORTABLE WATERING TANK (TURNED OVER FOR WINTER STORAGE)



PORTABLE TANKS USED TO FILL PORTABLE STOCK TANKS THROUGHOUT GRAZING SEASON

