

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-17623
Exam Date: 09/27/2022

1. Current Owner:
STEAMBOAT BAY ADDITION INC 7366 W SANDERS RD COEUR D ALENE ID 83814-8291
2. Accompanied by: Kym Gardner
Phone No: 208-755-1184
Address: 7314 W Sanders Rd Coeur d'Alene ID 83814
Relationship to permit Holder: Applicant's representative.

3. **SOURCE:**
COEUR D ALENE LAKE

Tributary
SPOKANE RIVER

Method of Determination: ArcMap & DRG.

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
95-7426	Groundwater	Municipal	Decreed

Comments: Decreed Right 95-7426 is owned by Sanders Third Addition Water Assn, which uses a groundwater (GW) source for municipal purposes with a service area POU that overlaps this right's surface water irrigation POU. Right 95-7426 as decreed does not designate which parcels within the service area are covered up to 8.4 acre-feet. I have recommended licensing this right with the addition of condition X35 to provide combined use limitations between WRs as follows:

- Rights 95-7426 and 95-17623 when combined shall not exceed a total diversion rate of a total annual maximum diversion volume of 3.0 af at the field headgate, and the irrigation of 1 acre.

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

Water Right No.	Source	Purpose of Use	Basis
95-4632	Coeur d'Alene Lake	Domestic	Decreed

Comments: Decreed Right 95-4632 has the same owner as this permit, which uses lake water for domestic purposes for 3 homes in the subdivision. The three parcels associated with 95-4632 don't overlap with this permit's POU so there is no concern for overlap from the applicant's common infrastructure diverting system. I've added condition F06 during licensing review annotating the shared POD between 95-4632 & 95-17623.

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

COEUR D ALENE LAKE SE¼ NW¼, Sec. 17, Twp 48N, Rge 04W, B.M. KOOTENAI County

Method of Determination: GPS; POD is located at -116°53.067, 47°30.392.

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
48N	04W	17					0.5 L1			0.5 L1									1.0

Total Acres: 1.0

Method of Determination: Beneficial use field exam, ArcMap aerial imagery, and WR backfile information.

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	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Submersible Pump	Unknown	1			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5-Gal Bucket						

2. Measurements: Three 5-gallon bucket tests were completed from an irrigation riser hose bib co-located with the small pump house, with an average diversion rate of 11.52 gpm = **0.03 cfs**, considering department rounding standards.

E. FLOW CALCULATIONS

Measured Method: 5-GAL Bucket Test = (5 gal / 26.0 sec) x 60 sec/min = 11.54 gpm
 = (5 gal / 26.1 sec) x 60 sec/min = 11.49 gpm
 = (5 gal / 26.03 sec) x 60 sec/min = 11.53 gpm

Average of 3ea 5-GAL Bucket Tests = (11.54 gpm + 11.49 gpm + 11.53) / 3 = 11.52 gpm = 0.03 cfs considering department rounding standards.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{I.R} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.0 \text{ ac} \times 3.0 \text{ afa} = 3.0 \text{ af}$

$V_{D.R} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 260\text{-day} \times 1.9835 = 15.5 \text{ af}$

$V = \text{Smaller of } V_{I.R} \text{ and } V_{D.R} = \mathbf{3.0 \text{ af}}$

2. Volume Calculations for Other Uses: None.

G. NARRATIVE/REMARKS/COMMENTS

Beneficial use field exam conducted on 9/27/2022 with the applicant's representative, Kym Gardner, showed Coeur d'Alene Lake water being diverted for irrigation purposes. At the POD, a screened intake has been installed routing from the end of a dock to a 1 hp submersible pump. As the buried intake pipe routes inland a short distance, there is one irrigation riser pipe-to-garden hose facet prior to reaching the small pump house. Three 5-gallon bucket test measurements were taken from this irrigation riser with garden hose resulting in an average diversion rate of 11.52 gpm = **0.03 cfs**, considering department rounding standards, which is recommended for licensing purposes as the maximum diversion rate.

During the exam Mrs. Gardner and I walked the irrigation POU. Field maps were used to sketch out the irrigation system. The applicant's system shares common infrastructure with Right 95-4632, which serves three parcels domestic use with ½ ac irrigation included under that domestic use. The additional 5 parcels that are part of the common water system were walked and active irrigation systems observed. During licensing review ArcMap aerial imagery was used to accurately trace out the irrigation POU consisting of 1.0 acres between the 5 parcels. Due to the water system using a lake water source, annual volume is applied to licensing this surface water source permit. The annual & maximum diversion volume recommended for licensing equals 1.0 ac x 3.0 afa = **3.0 af**.

Buried conduit routes from the pump house throughout the POU with lateral lines routing to each parcel service connected on the system. Mrs. Garner & I walked up to each home when property owners were not present to take photographs of hose bibs along homes with hose and sprinklers connected for active irrigation of small lawn and landscape watering for each respective parcel. Each residence had separate hose bibs attached to the home from a separate GW system, and the irrigation risers associated with the lake system were clearly separate from the GW system. The irrigation POU consists of four residential parcels (2 parcels serving as double lot for a single residence) & one common area parcel that connects several of the subdivision's residences to lake shore access. Irrigation riser pipes & hoses to sprinkler were found throughout the POU to include the common area.

A memorandum to file dated 9/6/2022, authored by Daniel Nelson, signified data on the proof of beneficial use showed lot 5 was removed, but did not correlate with the lots associated with the applicant's system. During the exam I validated that the double parcel RP07060001001A, Lot 1 Blk 1 Sanders Rockford Bay Development First Addition Subdivision was the lot that had been removed from the applicant's water system. This double parcel includes a lake front & interior lot separated by a common access roadway. Mrs. Gardner asserts that property owners opted out of the community irrigation system.

For each of the parcels with residences, in-home water use is served by Sanders Third Addition Water Assn system, which has Decreed WR 95-7426 & approved active Permit 95-18399. This Permit's water system provides the primary source of irrigation water from the lake vice using GW from the in-home GW system.

Condition 26A was removed from the permit during licensing review. All other conditions on the permit were carried forward to licensing. Condition F06 was added to describe the shared surface water system between Right(s) 95-4632 & 95-17623 as described above on pg1. Overlap review: Decreed Right 95-7426 is owned by Sanders Third Addition Water Assn, which uses a GW source for municipal purposes with a service area POU that overlaps this right's surface water irrigation POU. Right 95-7426 as decreed does not designate which parcels within the service area are covered up to 8.4 acre-feet. I have recommended licensing this right with the addition of condition X35 to provide combined use limitations between the two water rights as described on pg1. There are no additional overlap concerns for this water right.

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>	<u>Annual Volume</u>
IRRIGATION	03/15 to 11/15	0.03 CFS	3.0 AF
<u>Totals:</u>		0.03 CFS	3.0 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

Luke Bates -

Field Examiner's Name

[Signature]

Date

10/30/2023

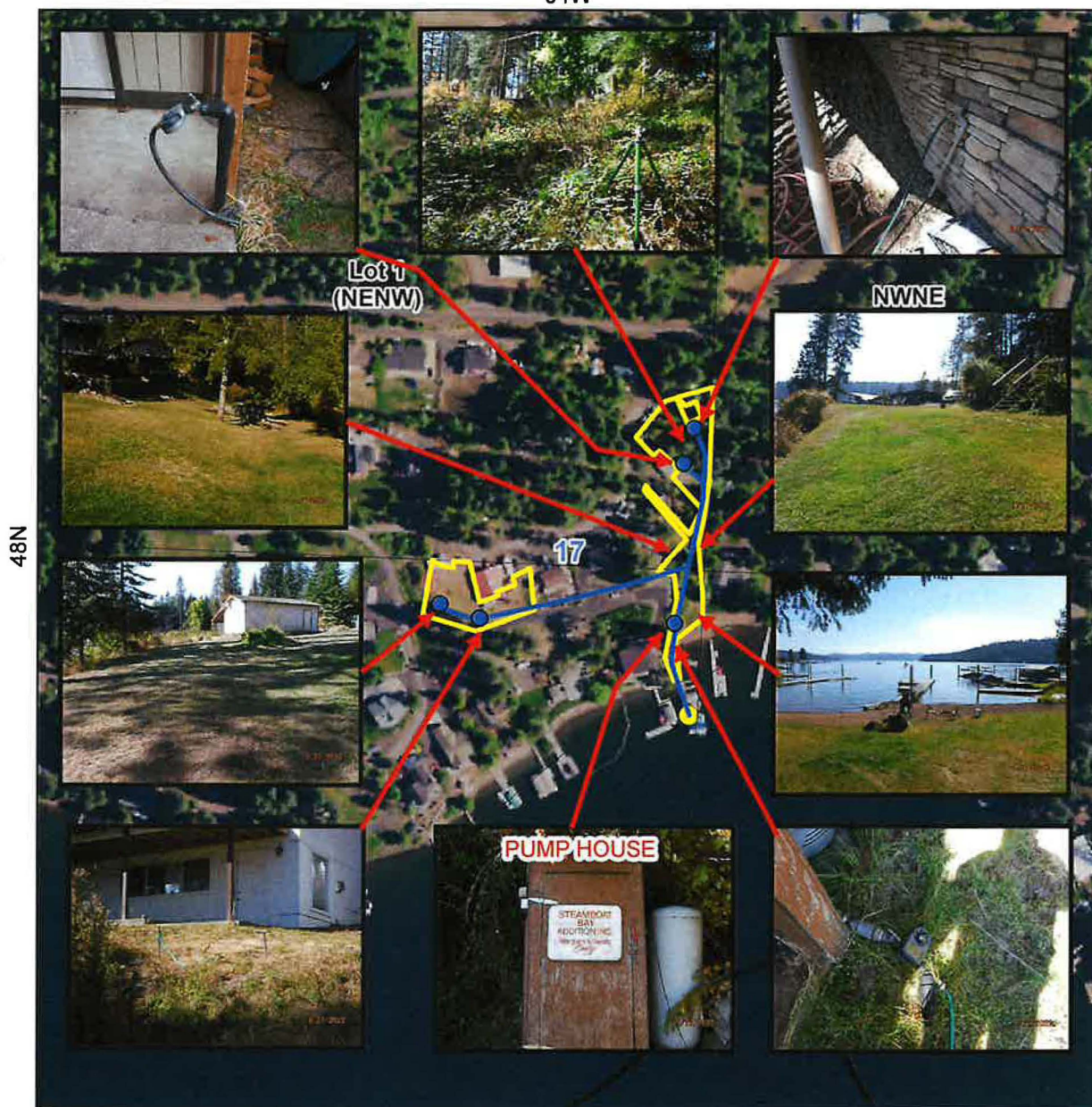
Reviewer

Chen Ball

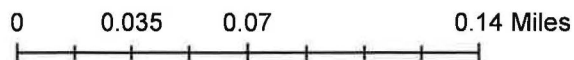
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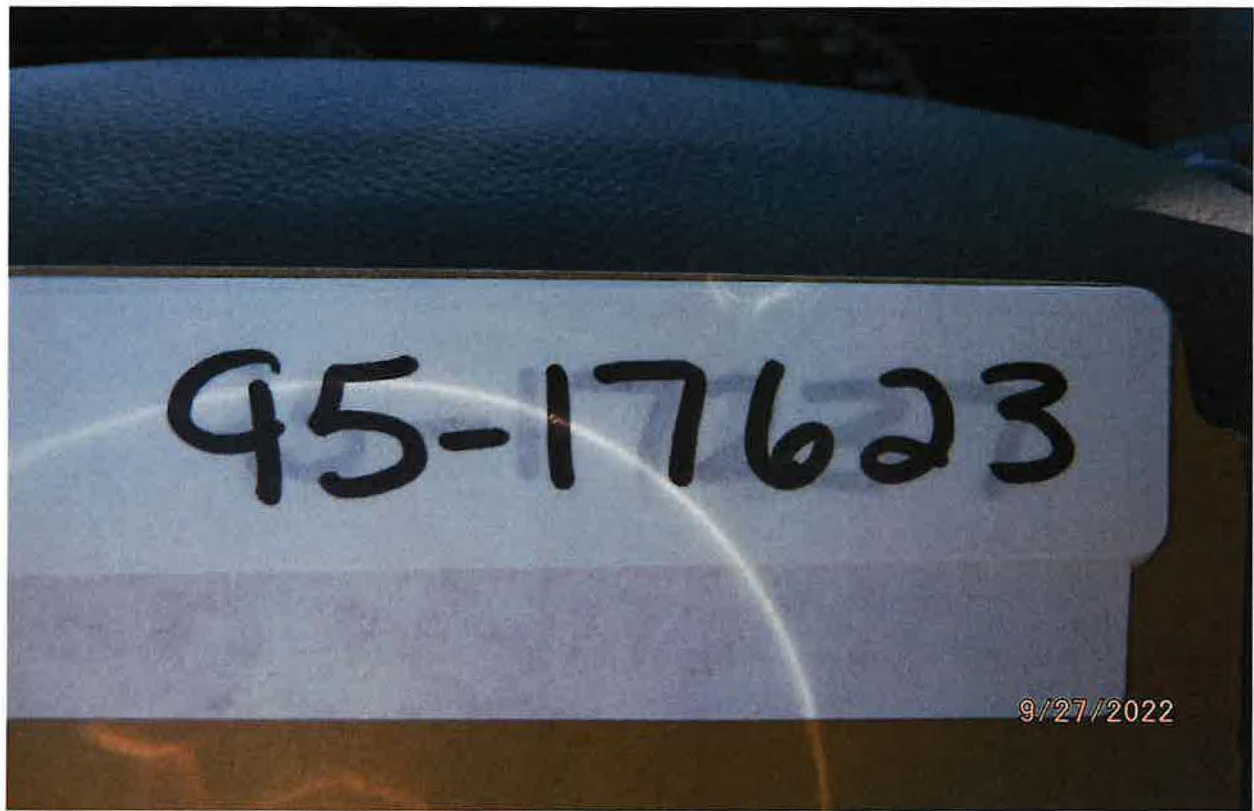
5/22/24

04W



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

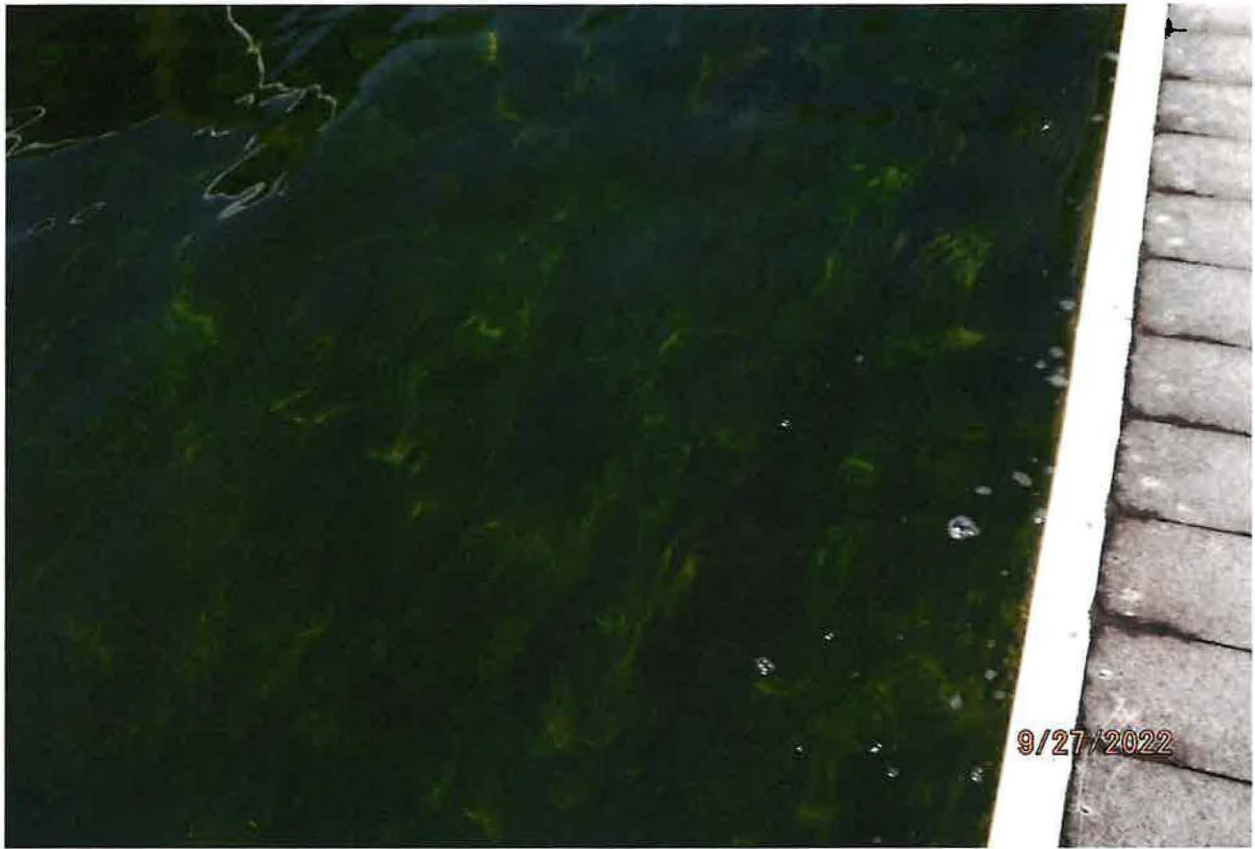




BENEFICIAL USE FIELD EXAMINATION DATE 9/27/2022

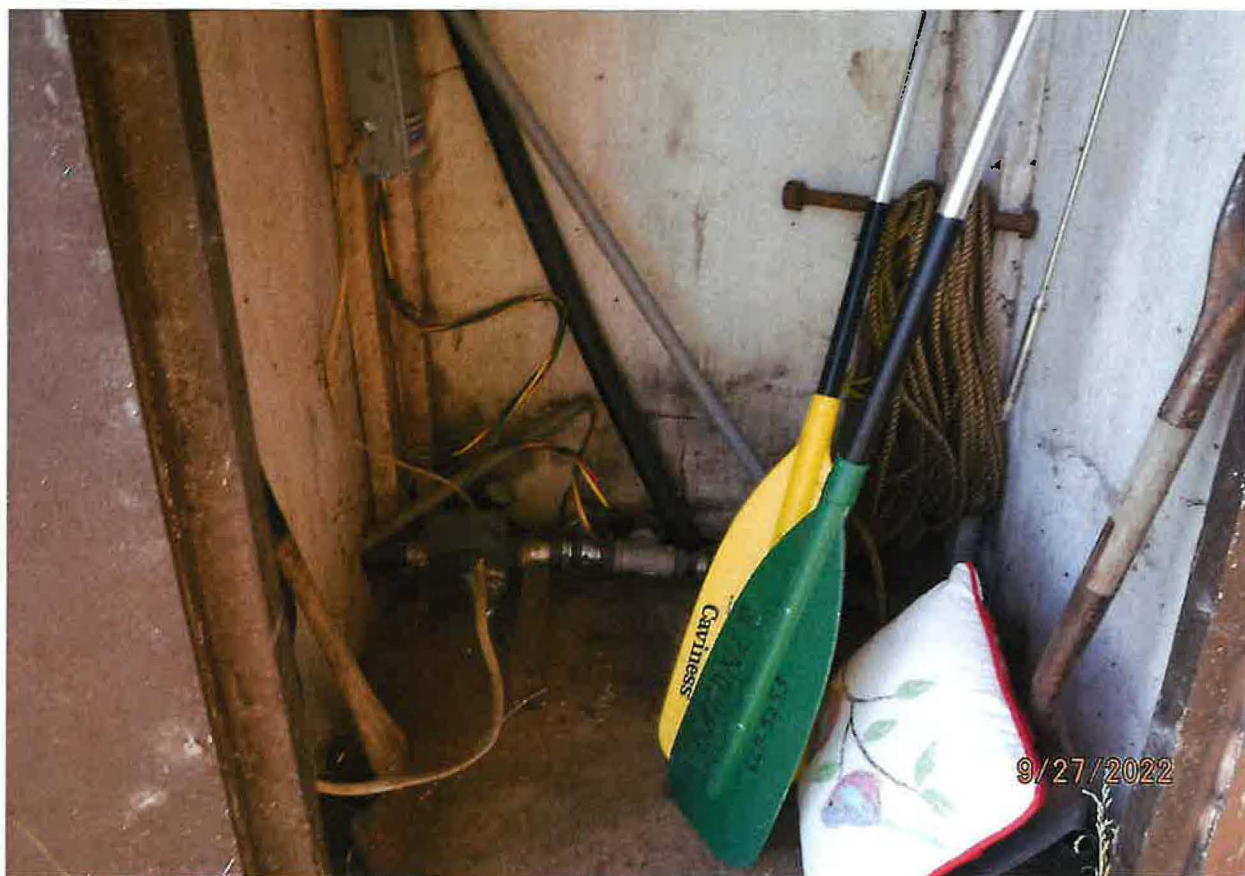


POD – SCREENED INTAKE PIPE IN LAKE



INTAKE PIPE ROUTES ALONG DOCK TO SHORE, AND INLAND APPROX 50 FT TO PUMP HOUSE





INTERIOR PUMP HOUSE WITH 1 HP SUBMERSIBLE PUMP INSTALLED IN WATER SYSTEM





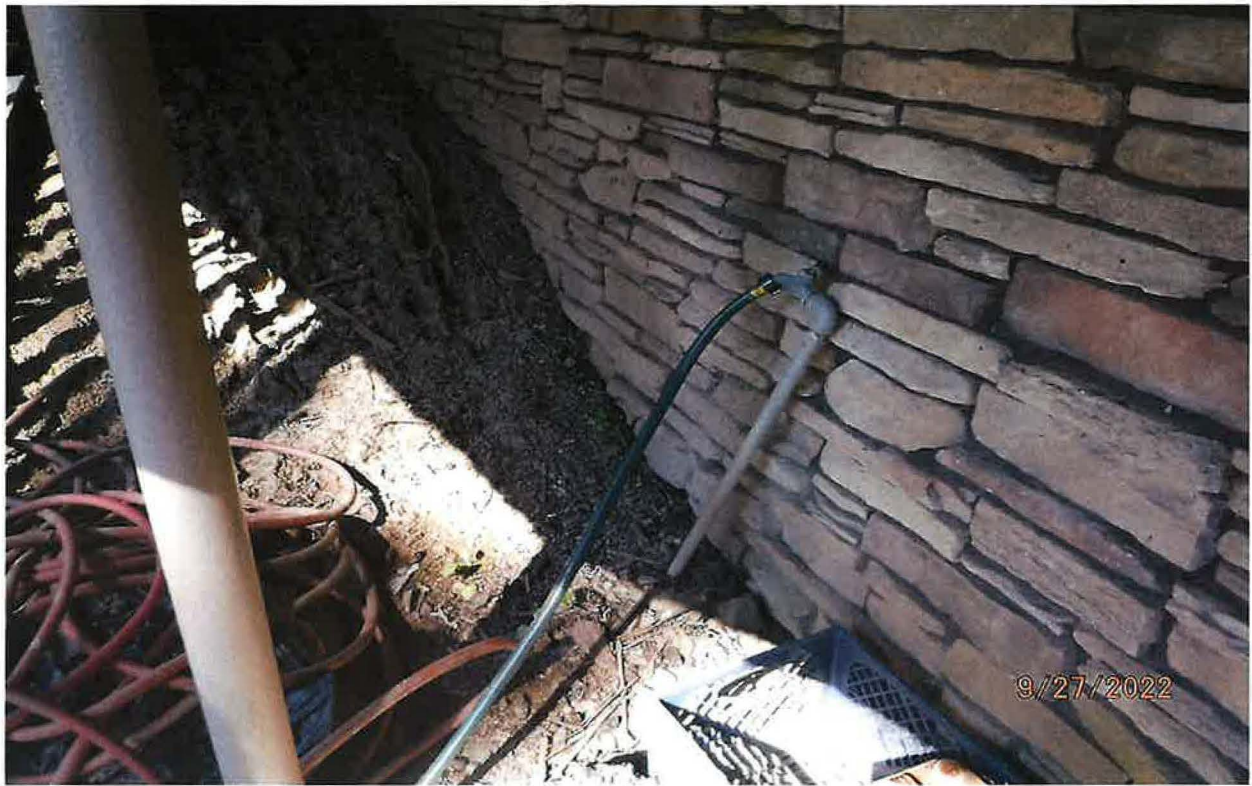
IRRIGATION POU – LAKE SIDE COMMON AREA





IRRIGATION POU – LAKESIDE COMMON AREA PART OF LT 1, BLK 2 EX SANDERS ROCKFORD BAY
DEVELOPMENT 2ND ADDITION





DEDICATED IRRIGATION SYSTEM RISER PIPE WITH HOSE BIB TO HOSE/SPRINKLER USE FOR LT 1, BLK 1
(RP070800010010) LOCATED AT 7251 W SANDERS RD



IRRIGATION POU – LT 1, BLK 1



IRRIGATION POU – LT 1, BLK 1 – BY HOSE AND SPRINKLER





DEDICATED IRRIGATION SYSTEM RISER PIPE WITH HOSE BIB TO HOSE/SPRINKLER USE FOR LT 2, BLK 1 (RP070800010020) LOCATED AT 7262 W SANDERS RD



IRRIGATION POU – UP HILL SIDE OF HOME FOR LT 2, BLK 1



IRRIGATION POU – DOWN HILL SIDE FOR LT 2, BLK 1





IRRIGATION POU – COMMON AREA BETWEEN HOMES & BEACH FRONT IRRIGATED BY WATER SYSTEM



DEDICATED IRRIGATION SYSTEM RISER PIPE(S) WITH HOSE BIB TO HOSE/SPRINKLER USE FOR LTs 7 & 8, BLK 1 (RP070800010070 & RP070800010080) LOCATED AT 7378 W SANDERS RD



IRRIGATION POU – LTs 7 & 8, BLK 1





IRRIGATION POU – LTs 7 & 8, BLK 1

