

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-8876

Exam Date: 8/7/2012

1. Current Owner: ROBERT P DREYER
PO BOX 4917
KETCHUM ID 83340
(208) 726-2874
2. Accompanied by: Robert Dreyer
Phone No: (208)726-2874
Address: PO Box 4917, Ketchum, ID 83340
Relationship to Permit Holder: self

3. SOURCE
SPRING

TRIBUTARY
BIG WOOD RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 37-8876 and 37-8827 overlap with Ponds #1 and Ponds #2 only.
2. Other water rights with the same point of diversion: 37-8876 and 37-8827 share the same POD (2 Hp pump) located on the northwest side of Pond #2.

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

SPRING NE1/4SW1/4NE1/4 Sec. 10, Twp 04N, Rge 18E, B.M. BLAINE County

Method of Determination: *Garmin GPS Map 765, Arc Map esri, + 2009-2013 imagery gbt.*

2.

PLACE OF USE: AESTHETIC and DOMESTIC STORAGE

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
04N 18E 10			X														

PLACE OF USE: DOMESTIC FROM STORAGE and 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
04N 18E 10		X	X														

Method of Determination: *Garmin GPS Map 76S, + Arc Map esri + 2009-2013 imagery, Jst.*

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>
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No ID Tag (I ran out of tags during my multiple days out in the field conducting field exams)

Unknown	2Hp	Unknown	Unknown (sump pump)	2 inch to schedule 40 pipe
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*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>
None						

2. Measurements:

IDWR Standard for Domestic external use only: 0.02 cfs maximum

5 gallon bucket measurement from waterfall (POD/pumps up to Pond #1 waterfall and open discharges into Pond #1, then at its overflow, it flows down a rock ditch, through a buried pipe and is discharged back into Pond #2 (recirculating), with water produced from the spring maintaining the level of the Ponds, and excess being discharged down the rocky overflow on the southwest corner of Pond #2, and continuing to Parker Gulch:

$$(5 \text{ gallon} \times 60 \text{ sec}) / 4 \text{ sec} = 75 \text{ gpm} \times 0.00223 = 0.17 \text{ cfs}^*$$

*This is not the actual capacity of the spring, but representative of the recirculating pump system, with excess flow from the spring to pass through the overflow.

RECOMMEND:

Domestic 1 home (external use only) 0.02 cfs, not to exceed ½ acre irrigation and 13,000 gpm (as permitted)

E. FLOW CALCULATIONS

Measured Method:

None.

F. VOLUME CALCULATIONS

1. Volume Calculations for Domestic External: (limited by the 13,000 gpd condition)

2. Volume Calculations for Other Uses: (Aesthetic and Domestic Storage)

Domestic 0.02 cfs X 1.9835 X 365 days = 14.5 af

Pond #1 and Pond #2 = 0.1 acre total size X 2 ft average depth = 0.2 af

RECOMMEND:

Aesthetic 0.2 af

Domestic Storage 0.2 af

Domestic from Storage 0.2 af

Domestic (limited by the 13,000 gpd condition, therefore no volume listed)

G. NARRATIVE/REMARKS/COMMENTS

The POD for both water rights 37-8827 and 37-8876 is a 2Hp pump located in a pit on the northwest end of Pond #2 (unknown make/model/serial #, with a 2 inch discharge, schedule 40 pipe to 1 inch hoses and bubblers to the small areas on the south side of the road; 1 inch hoses with misc nozzles to the proposed house area on the north side of the road surrounding Pond #1, and a buried line to supply water to a 3/4 - 1 inch drip system for pine trees located on the ledge above Pond #1 (40 ft lift from the pump). The spring source is located somewhere within Pond #2. Water is pumped from the POD up to a waterfall that open discharges into Pond #1 (average depth 2 ft; maximum depth 4 ft), with an overflow on the south end that runs through an open rocky ditch down the hillside, then into a buried pipe where it is piped and open discharged back into Pond #2 (average depth 2 ft; maximum depth 4 ft). On the southwest corner of Pond #2 is a rocky overflow, where water continued down the dirt ditch to Parker Gulch. Use for water right 37-8876 is for Aesthetic and Domestic Storage (the ponds and waterfall), Domestic external use only for irrigation of less than 1/2 acre total via bubblers, drip system for the pine trees on the ledge, and landscaping and grounds surrounding Pond #1. Water right 37-8827 is for Fire Protection Storage with the POU being the same Pond #1 and Pond #2. The lockable device condition is achieved by either locking the electrically meter, or by locking the lid on the pit. There was no way to measure the actual flow of the spring, since it is located somewhere within Pond #2, and the pump is basically a recirculating pump, pumping water to Pond #1, it flowing back into Pond #2, and then repeating itself. There was a physical overflow from Pond #2, but it could not be measured due to the rocky overflow and excessive grassy ditch leading to Parker Gulch. At the time of the field examination, no ID Tag was attached to the pump, due to the fact that I had run out of tags over the period of days being out in the field conducting exams.

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>
AESTHETIC	01/01 to 12/31		0.20 AF
DOMESTIC FROM STORAGE	01/01 to 12/31		0.20 AF
DOMESTIC	01/01 to 12/31	0.020 CFS	limited by 13,000 gpd condition
DOMESTIC STORAGE	01/01 to 12/31		0.20 AF

Totals: 0.020 CFS

2. Recommended Amendments

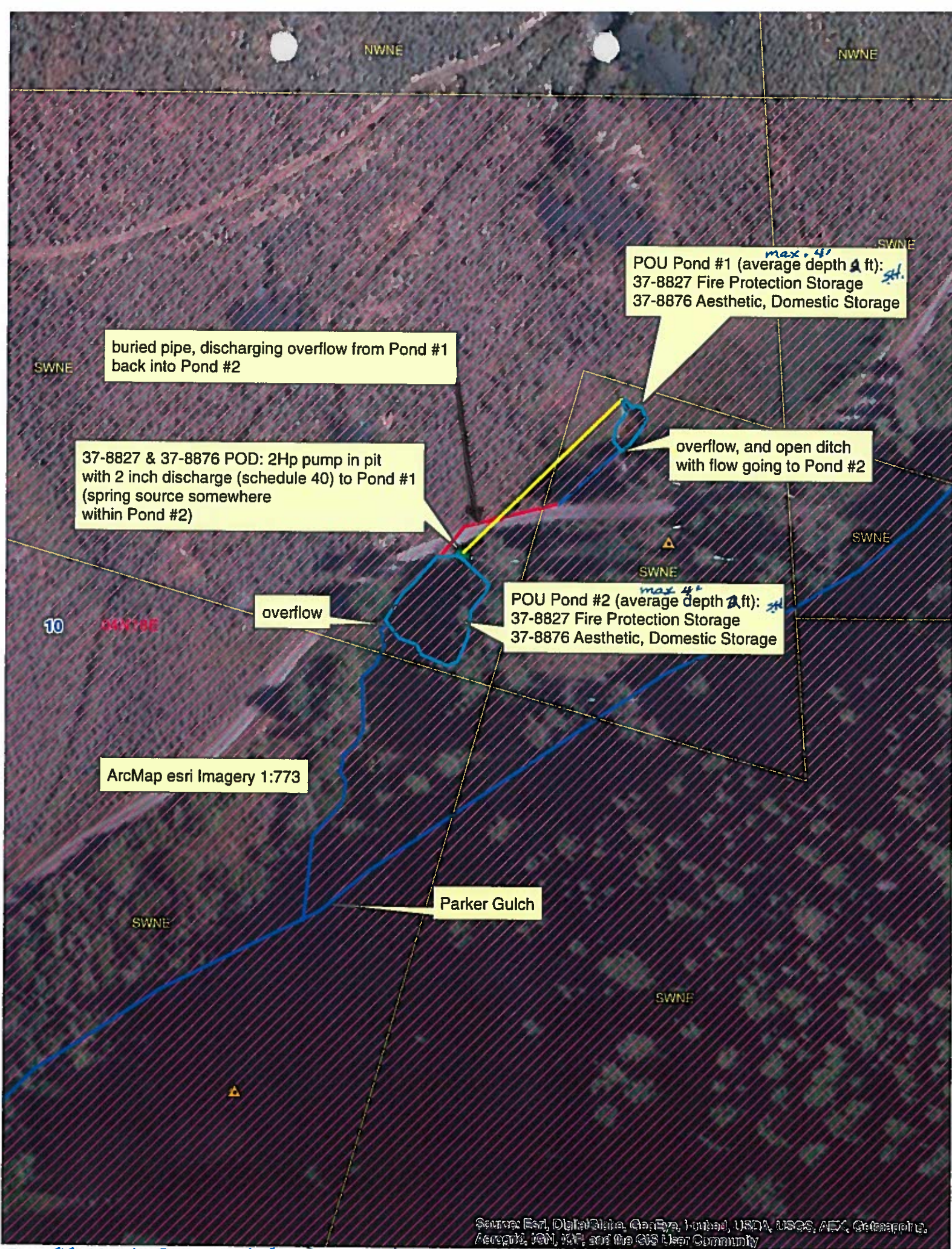
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☐ None
☐ Change P.U. as reflected above ☒ Add P.U. as reflected above* ☐ Other

*The pine trees located on the ledge above Pond #1, as identified by Mr. Dreyer at the time of the field examination, and is located in both the SWNE and NWNE QQ.

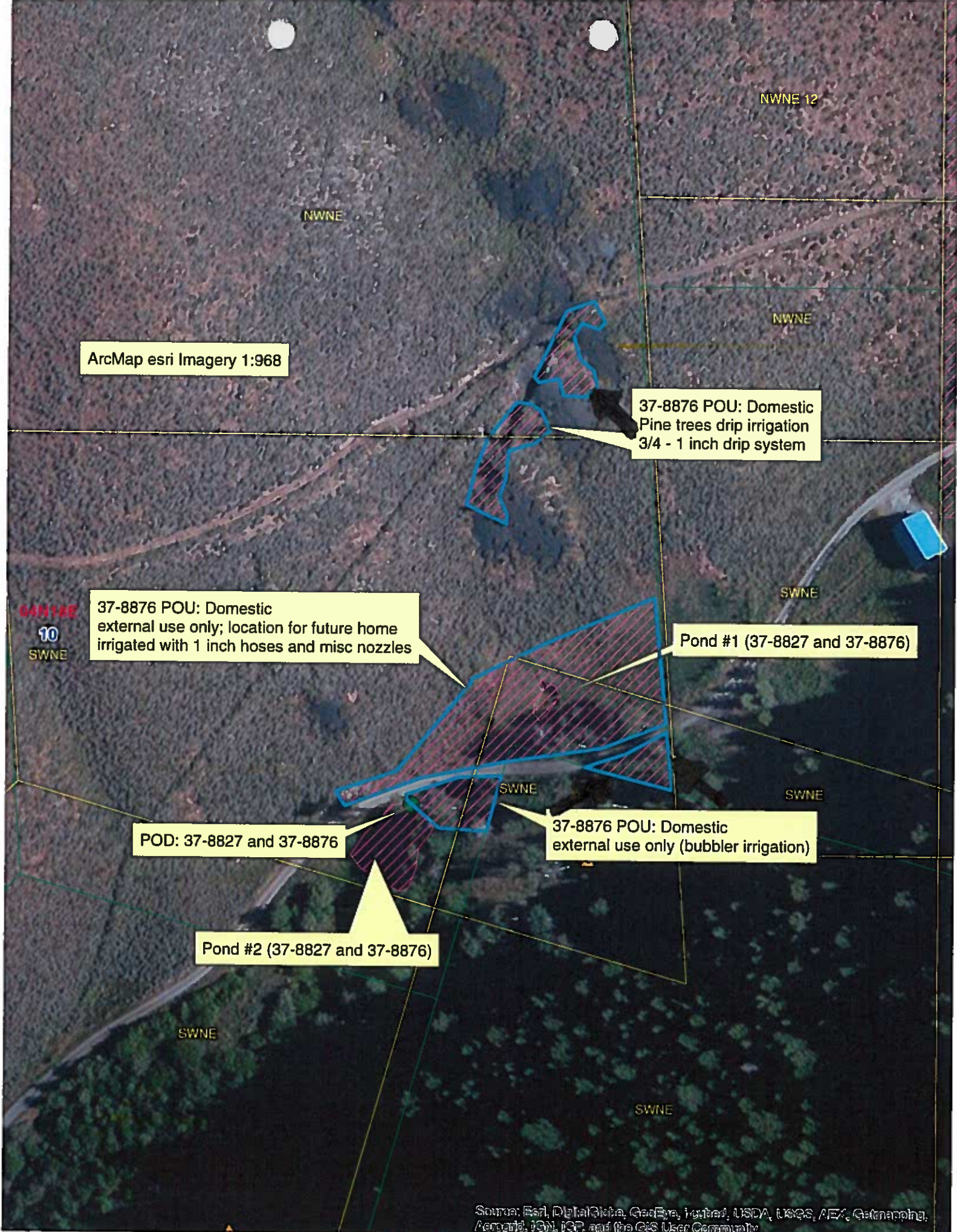
I. AUTHENTICATION

Field Examiner's Name

Fandy Hemenway Date 3/13/2014



37-8827 + 37-8876 (Ponds) Aesthetic, Dom. Storage, Fire Pro. Storage S. Hemerican



Source: Esri, DigitalGlobe, GeoEye, IGN, USDA, USGS, AEX, Geomapping, Aerial, IGN, IGP, and the GIS User Community

37-8876 + 37-8827 Domestic Use (external only) S. Homomisan



S. Hemenway





DOM
Domestic
NE of
pond
(external
only)
bubblers
+
1" hose
with
wide
nozzles

08/07/2012



Power
meter
for
pump

08/07/2012

37-8876 + 37-8827

S. Hemerway



1" hose
to
domestic
external
use

08/07/2012

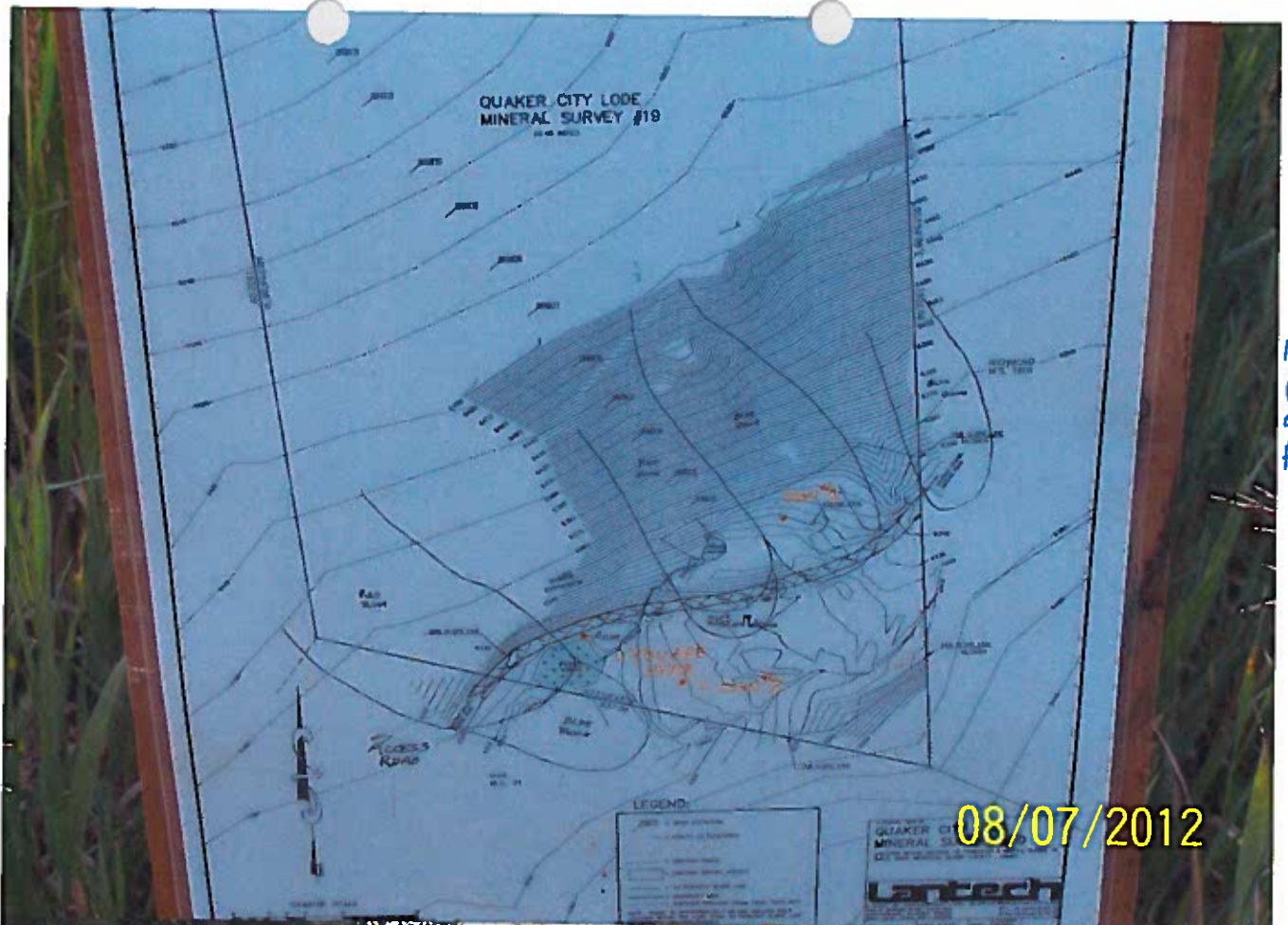


P00:
2 Hp
2"
discharge
to
1" hose
40' lift
to
trees
with
3/4"-1"
drip
system
(north
side of
road) +
1" hose
to
domestic
flat
area
by pond

08/07/2012

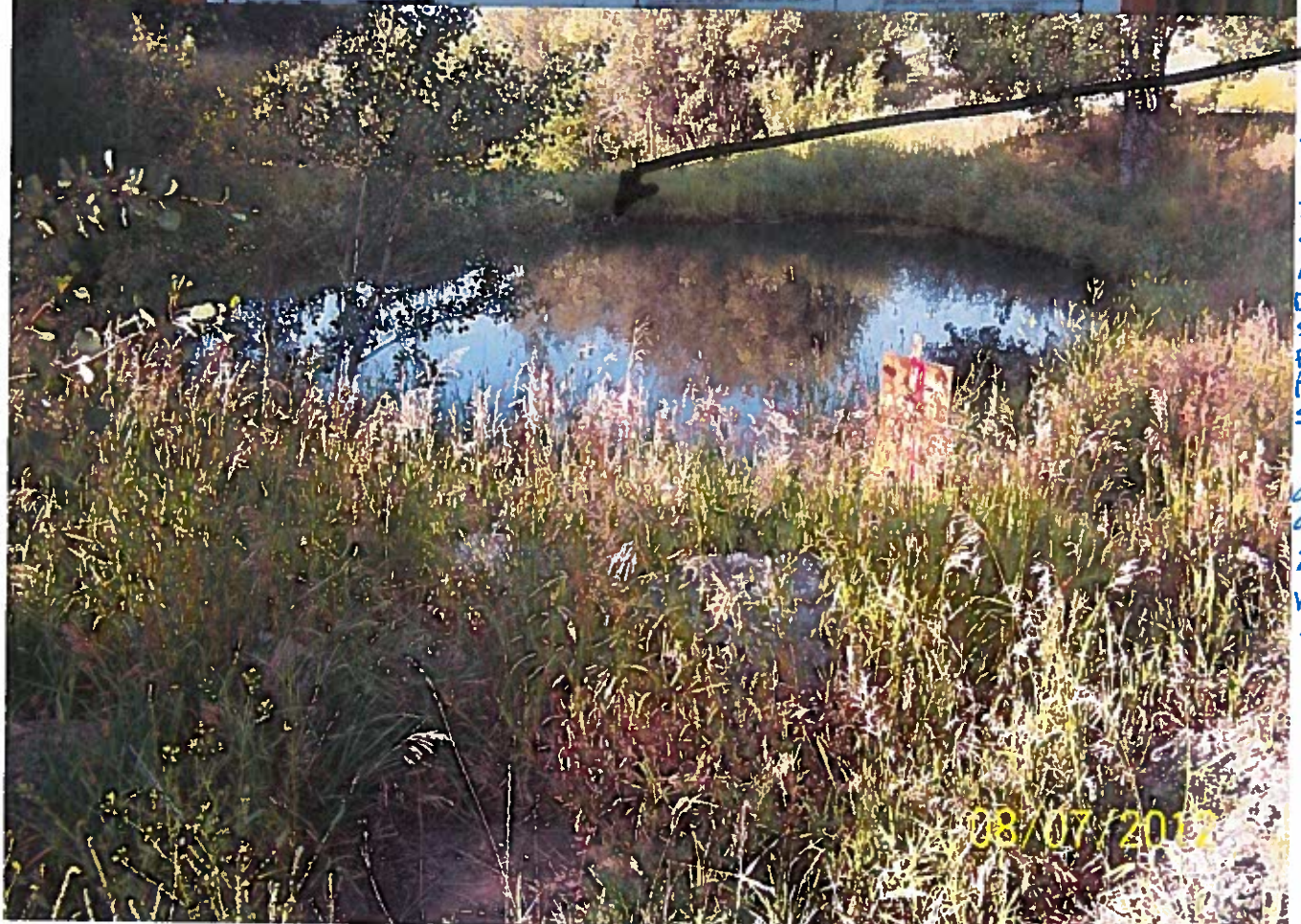
37-8876 + 37-8827

S. Hemerway



Map
posted
on
property

08/07/2012



overflow

Pond # 2

POL:
Aesthetic
Domestic
Storage,
Fire
Protection
Storage

average
depth
2';
maximum
4'

08/07/2012

37-8876 + 37-8827

S. Hemerway



overflow
that
goes
to
Parker
Gulch

08/07/2012



from
overflow,
winding
creek
that
flows
south
west
to
Parker
Gulch

08/07/2012

37-8876 + 37-8827

S. Hemerway



Pou:

water-
Sall
at
Pond #1
average
depth
2'-4'
max. 4'
aesthetic
Dom.
storage
+
fire
protection
storage

08/07/2012



PDU:

trees
above
Pond #1
that are
watered
three
3/4"-1"
drip
system
Dom.
external

08/07/2012

37-8876 + 37-8827

S. Hernandez



PDU:
Dom.
external
40' lift

08/07/2012



PDU:
Dom.
external
on
north
side of
road
1" hoses
& mist
nozzles.
Pond
#1

08/07/2012

37-8876 + 37-8827

S. Hemerway



37-8876 + 37-8827

S. Hemenway

Overflow from pond #1
that goes back to pond #2
(recirculates)

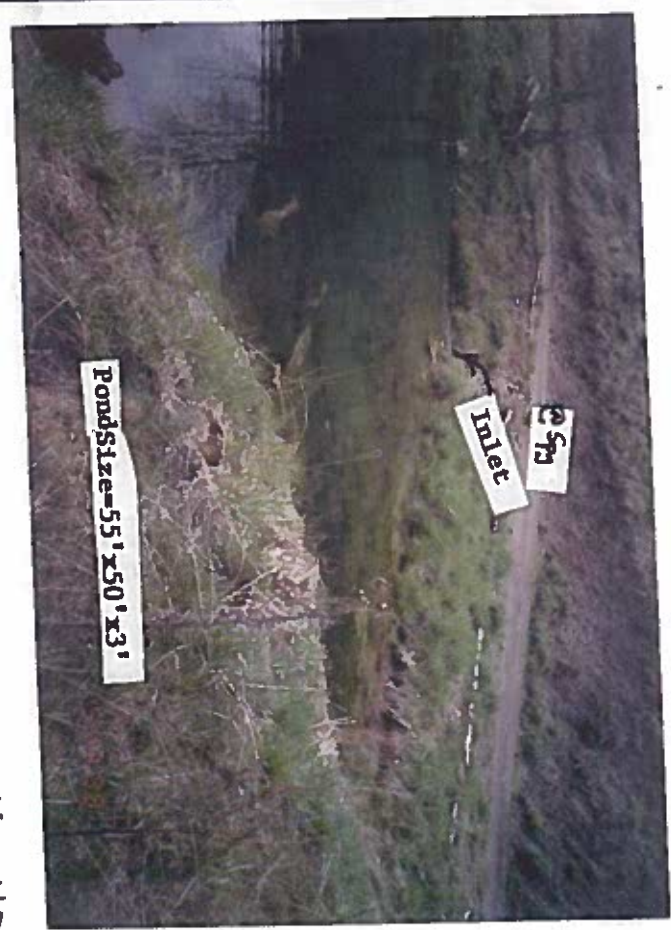
this is not a permanent home, no
inside plumbing



standing at the area where
house is suppose to be

photos looking SW'ly

Outlet



PondSize=55'x50'x3'

Inlet

Outlet

MICROFILMED
SEP 21 1998

37-08876

1600HRS,
13 MAY 1998
Bob Dreyer