

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 57-11840
Exam Date: 06/20/2019

1. Current Owner:
ROHL HIPWELL
17965 OREANA LOOP RD
OREANA ID 83650
(208) 834-2431
2. Accompanied by: Rohl Hipwell
Phone No: (208) 599-3902 (cell)
Address: Same as above
Relationship to permit Holder: Permit Holder

3. **SOURCE:**
GROUND WATER

Method of Determination: Well Driller's Report, Permit No. 870785; On site visual inspection

B. OVERLAP REVIEW

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

Comments: The irrigation use of ground water authorized this permit (57-11840) is supplemental to surface-water water rights. The place of use (POU) of this permit overlaps with portions of the POUs for water rights 57-53, 57-2241, 57-7060, 57-10833, and 57-11595. According to the permit holder, the groundwater from the point of diversion (POD) is typically diverted directly into the mainlines for irrigation, which is part of a single system that distributes water for all of the overlapping water rights. The POD is also diverted at times into the same collecting pond as is surface water right (57-53) which can be used for stockwater.

See attached spreadsheet for the list of overlapping water rights at the time of the field exam.

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

Comments: No other water rights divert from this well.

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

GROUND WATER NW¼ NE¼, Sec. 25, Twp 04S, Rge 01W, B.M. OWYHEE County

Method of Determination: GIS and GPS waypoint recorded during field exam; Well Driller's Report # 870785

2. **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	
04S	01W	25		10.0												15.0			25.0

Total Acres: 25.0

PLACE OF USE: STOCKWATER

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
04S	01W	25		X															

Method of Determination: Visual inspection and GIS; Description of diverting works, delivery system, and places of use from permit holder.

3.

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

X 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.

X

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

X 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
870785	Unknown	25	Unknown	Unknown	Unknown

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Panametric			PT878			April 2019

2. Measurements: Flow was measured at the well. The average flow after 27 minutes: 254.7 gpm = 0.567 cfs.

The section of pipe where the flow meter was attached is visible in the photos. The photo was taken with a portion of the flow meter set-up in place.

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method: Panametric – PT878 flowmeter

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 25 \text{ acres} \times 4.5 \text{ AF / acre} = 112.5 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.5 \text{ cfs} \times 260 \text{ days} \times 1.9835 \text{ AF / (cfs days)} = 257.9 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 112.5 \text{ AF}$$

2. Volume Calculations for Other Uses: Stockwater for 200 range cattle = 2.7 AF/yr

Administrative Memo – Application Processing #3: Annual Use of Water for Stockwater Purposes allows 2.7 AF/yr for 200 range cattle.

G. NARRATIVE/REMARKS/COMMENTS

I performed the field exam along with Dan Nelson (IDWR staff). The permit holder, Rohl Hipwell, accompanied us for the exam.

During the field exam Mr. Hipwell stated that the permit diverts into a single distribution system that connects the wells for three ground water rights (57-2241, 57-7060, and 57-11595), and two surface water rights (57-53, and 57-10833). The system diagram that is attached to this field report is based on the drawings by Mr. Hipwell on aerial photos of the mainlines, and other information he provided during the exam.

The authorized groundwater for this permit is typically diverted into the distributing system, but can also be diverted to a pond that receives surface water from Pickett Creek (Water Right 57-53). The surface and ground water from the pond are then re-diverted into the common distribution system that serves the authorized POU for this permit and the POUs for the other water rights. Water from Hart Creek (57-10833) and ground water from 57-2241 and 57-7060 are diverted into the system in the southeast corner of Mr. Hipwell's properties. The remaining well (Water Right 57-11595) joins the system on the east side, at a point about half way from north to south of Mr. Hipwell's properties.

The common distribution system for the previously mentioned water rights is not reflected in the Department's records. During the exam we recommended to Mr. Hipwell that he submit an application for transfer in order to accurately represent the existing irrigation uses on his properties. To assist with the recommended application for transfer, I sent a letter to Mr. Hipwell with information for each of the water rights connected to the single distribution system on June 29, 2019. On July 30, I was contacted by Charles Honsinger, a representative for Mr. Hipwell, who was seeking additional information regarding the requirements for filing an application for transfer of water rights. After consulting with my supervisors and other Water Right staff, I followed up with Mr. Honsinger on July 31. I recommended that the application for transfer not be filed until after the license for permit 57-11840 is completed. Once the permit has been licensed, 57-11840 can be included in the same transfer as the other rights, rather than having to file a second application for transfer for 57-11840.

Permit 57-11840 authorized the development of 25 acres of irrigation, stockwater for 200 range cattle, and domestic use for 1 home. According to satellite imagery and discussion with Mr. Hipwell, the proposed acres were irrigated during the development period. Stockwater has been put to use when groundwater has been diverted into the pond. Our field measurement of the diversion rate capacity of the pump exceeded the authorized rate for the combined uses of Irrigation and Stockwater. Domestic use was not developed. Only irrigation and stockwater uses will be carried forward to the license.

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>	
IRRIGATION	03/01 to 11/15	0.50 CFS	
STOCKWATER	01/01 to 12/31	0.05 CFS	

Totals: 0.55 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

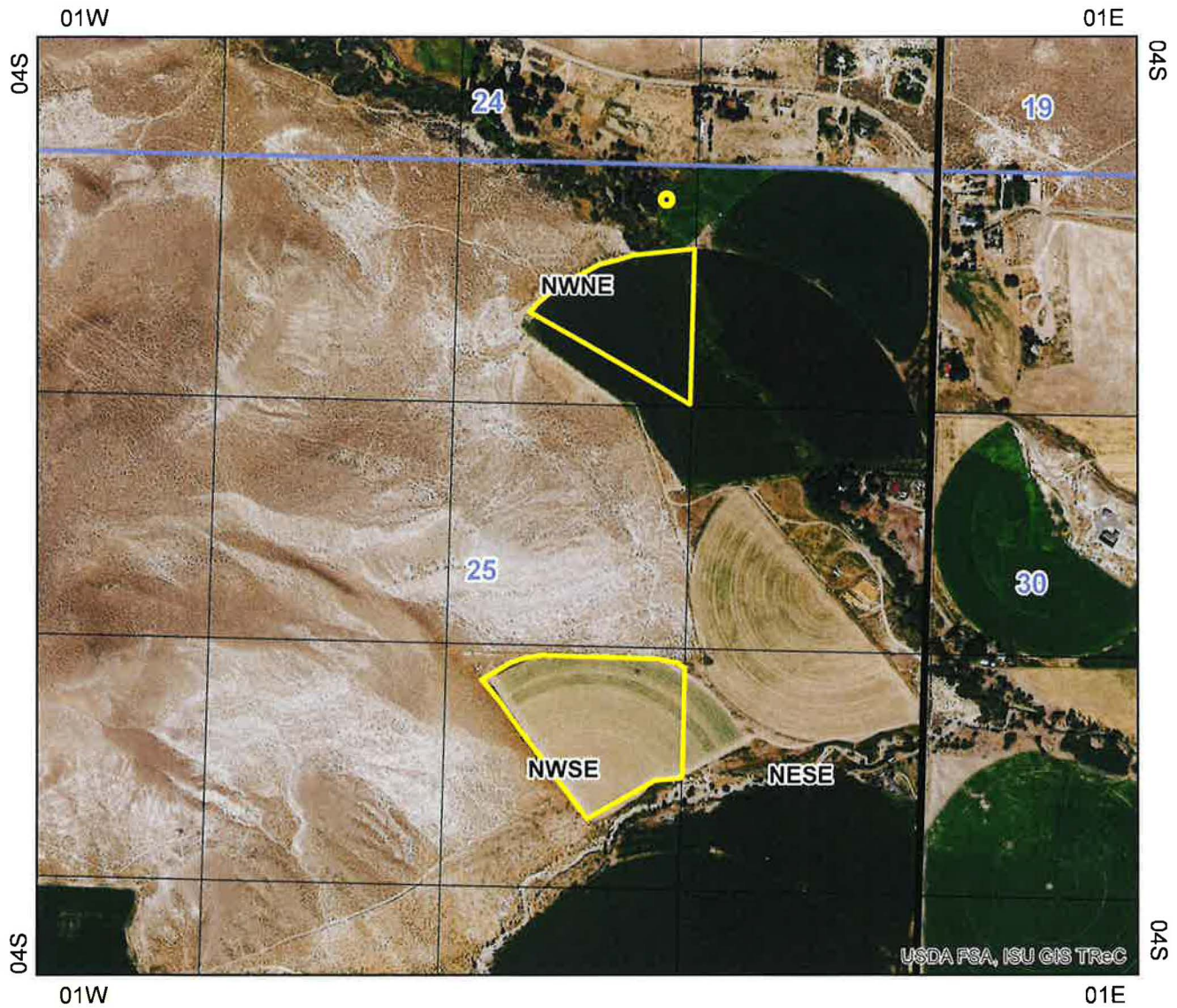
David Betts - Water Resource Agent, Senior

Field Examiner's Name Dave Betts Date Sept 6, 2019

Reviewer Daniel H. Melon Date 9/10/19

State of Idaho
Department of Water Resources
Attachment to Field Exam
57-11840

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



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

0 0.1 0.2 0.4 Miles



State of Idaho
Department of Water Resources
Attachment to Field Exam
57-11840

This map depicts the STOCKWATER place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

01W



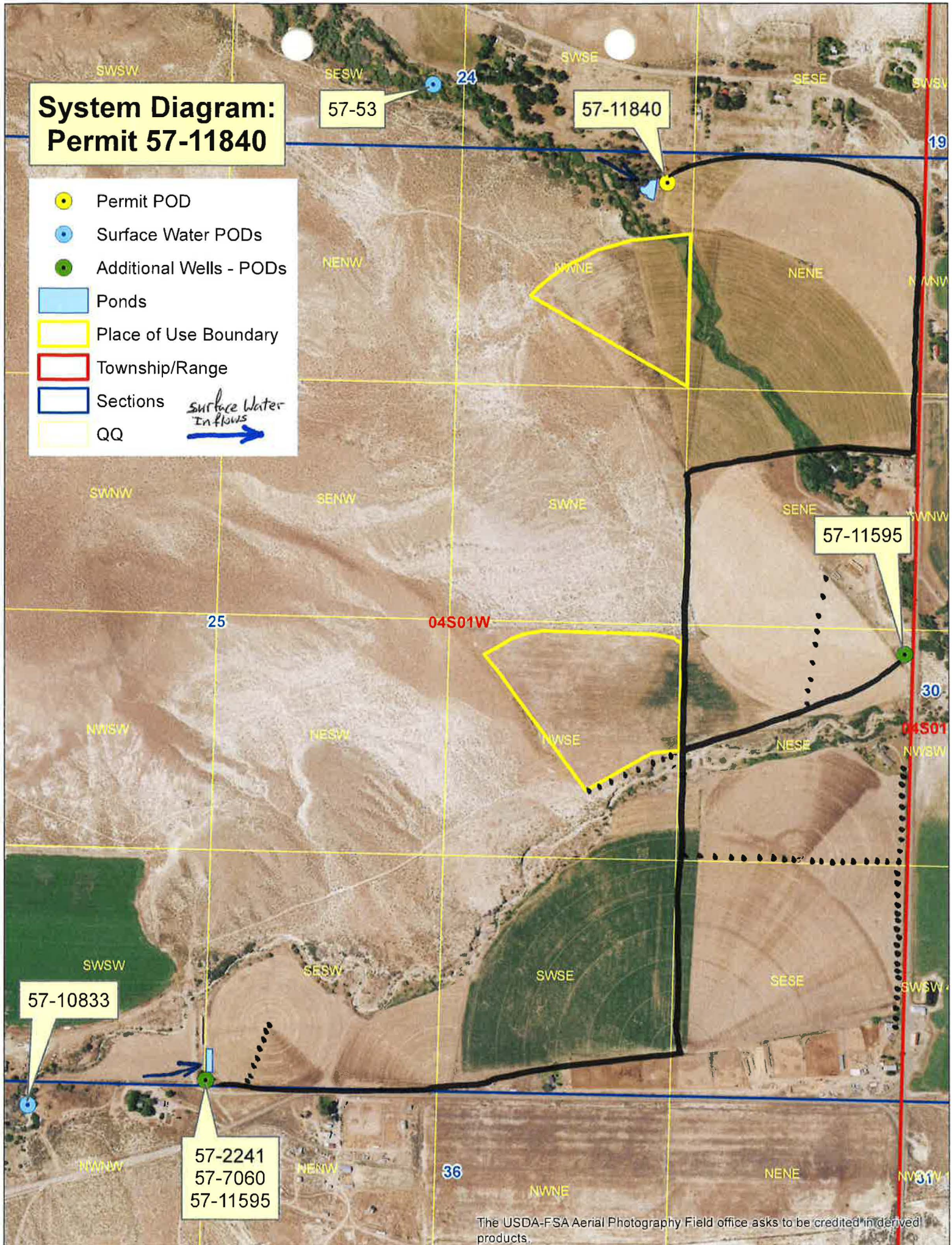
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.035 0.07 0.14 Miles



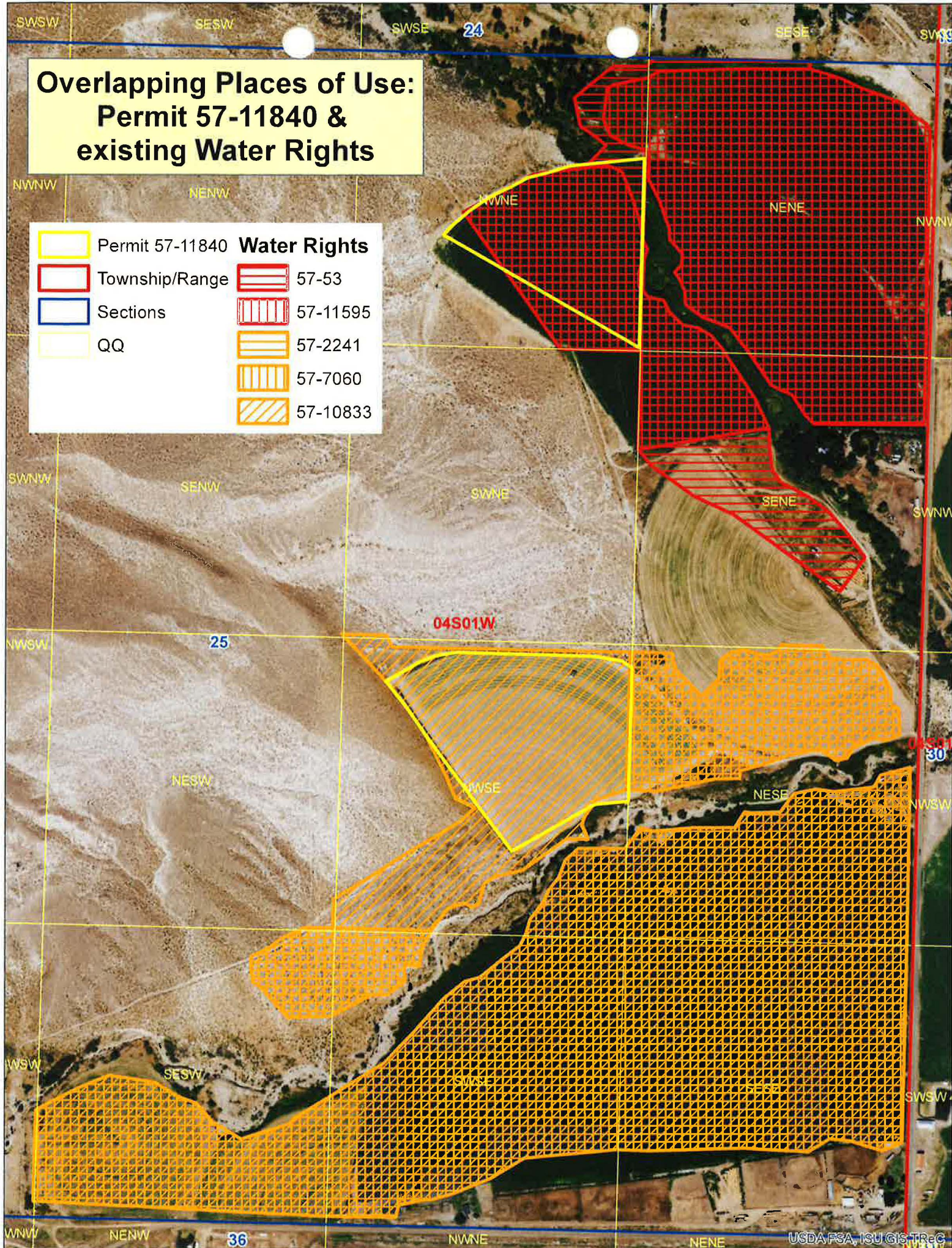
System Diagram: Permit 57-11840

- Permit POD
 - Surface Water PODs
 - Additional Wells - PODs
 - Ponds
 - Place of Use Boundary
 - Township/Range
 - Sections
 - QQ
- Surface Water Inflows*
→



Overlapping Places of Use: Permit 57-11840 & existing Water Rights

	Permit 57-11840	Water Rights
	Township/Range	 57-53
	Sections	 57-11595
	QQ	 57-2241
		 57-7060
		 57-10833



File Title: C:\Users\dbetts\Desktop\HIPWELL.LOG
 File Name: C:\Users\dbetts\Desktop\HIPWELL.LOG
 Start Time: 6/20/2019 9:36
 End Time: 6/20/2019 10:34
 Interval: 60
 Records: 30
 Cyclic Flags: 2
 Error Flags: 8208

Date/Time	Velocity (ft/s)	Volume (gal/m)	(+)Total (gal)	Error #
6/20/2019 9:36	6.454605824	255.9960106	75936.1455	0
6/20/2019 9:37	6.425789018	254.8531077	76191.89099	0
6/20/2019 9:38	6.435023129	255.2193416	76447.26335	0
6/20/2019 9:39	6.42540858	254.8380192	76702.00728	0
6/20/2019 9:40	6.43437057	255.1934605	76956.98693	0
6/20/2019 9:41	6.42575367	254.8517058	77211.99615	0
6/20/2019 9:42	6.422815473	254.735174	77477.5579	0
6/20/2019 9:43	6.395252064	253.6419821	77721.07705	0
6/20/2019 9:44	6.427631967	254.9262009	77975.46344	0
6/20/2019 9:45	6.442238362	255.5055049	78230.93431	0
6/20/2019 9:46	6.42229739	254.7146263	78485.87599	0
6/20/2019 9:47	6.419041086	254.5854781	78740.14431	0
6/20/2019 9:48	6.400510332	253.8505302	78994.01534	0
6/20/2019 9:49	6.440315691	255.4292498	79248.28172	0
6/20/2019 9:50	6.437975914	255.336452	79503.83495	0
6/20/2019 9:51	6.415299602	254.4370872	79758.52386	0
6/20/2019 9:52	6.420020361	254.6243171	80013.06407	0
6/20/2019 9:53	6.415606258	254.4492494	80267.48482	0
6/20/2019 9:54	6.423621103	254.7671261	80522.0206	0
6/20/2019 9:55	6.412758283	254.336296	80776.301	0
6/20/2019 9:56	6.420727705	254.6523711	81030.4316	0
6/20/2019 9:57	6.417038571	254.5060564	81285.25817	0
6/20/2019 9:58	6.420400753	254.6394038	81550.46956	0
6/20/2019 9:59	6.419944769	254.621319	81793.89169	0
6/20/2019 10:00	6.414535048	254.4067642	82048.02999	0
6/20/2019 10:01	6.423461015	254.7607768	82302.60753	0
6/20/2019 10:02	6.430063177	255.0226251	82557.66405	0
6/20/2019 10:03	6.402594237	253.9331799	82811.99705	0

Average gal/min

254.66 = Total (gal) / total minutes
 = 6875.852 gal / 27 min

Average cfs

0.57 = (254.7 gal/min) / [448.8 (gal/min)/cfs]

Point of Diversion — 57-11840



Facing west. The berm separating the pond and the well is immediately behind the well. Mounting brackets for the flowmeter are in place on the right.



Facing North. The control panels for the pump for the well and the pump from the pond are in the background.

Diverting works from the pond

Groundwater (Permit 57-11840) and surface water (Water right 57-53) can be re-diverted from the pond.



Facing Northwest. The pump diverting from the pond is on the left. The mainline runs from the pond towards the power boxes on the right.



Facing South. Pump from the pond. Surface water diverted from Pickett Creek (Water Right 57-53) enters the pond from the west (right side of the photo).

Point of Diversion: 57-11595



Facing west. Photo taken at the top of the embankment on the west side of Oreana Loop Rd.

Point of Diversion: 57-10833



Photo facing west (upstream)



Photo facing north. Headgate visible.

Points of Diversion: 57-2241 and 57-7060



The connection point for surface water from Hart Creek (Water Right 57-10833) to the distributing works is visible on the left side of the photo. At the time this photo was taken, the pump for delivering surface water from the collecting pond was not connected.

Below: Surface water collecting pond for 57-10833. Pond is 30 feet from the POD for 57-2241 and 57-7060. Upper photo facing north. Lower photo facing northeast towards the POU.



Place of Use: 57-11840

Photos taken next to point of diversion for Permit 57-11840. Viewpoint pans from facing east (far left) to facing southeast (far right).

Mainline from the pond runs along north side of irrigated acres (left side of photo) and behind the pivot whose center is in the center of the NENE of Section 25, Township 04S, Range 01W.

The acres belonging to the authorized place of use for this permit are south of the riparian vegetation on the far right (red arrow) which is in the NWNE of Section 25, and acres further south in the NWSE. The interconnected irrigation system with multiple pivots includes the irrigated acres visible in these photos, and more.





State of Idaho

DEPARTMENT OF WATER RESOURCES

322 E Front Street, Suite 648 • PO Box 83720 • Boise ID 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700

Website: idwr.idaho.gov • Email: idwrinfo@idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

June 29, 2019

ROHL HIPWELL
17965 OREANA LOOP RD
OREANA ID 83650

RE: Clarification of places of use for existing water rights

Dear Mr. Hipwell:

During the field exam for Permit 57-11840, we observed acres that have been irrigated, but we were unable to identify which water rights corresponded with those acres. I said that I would get back to you with additional information to help you determine what may need to be addressed in order to be in compliance. I have included computer generated copies of your water rights, and the maps displaying how those water rights are represented in the Department's records. I have highlighted the same acres on each map that do not appear to be covered by existing water rights.

I searched for unprocessed transfers at the State and Western Region offices, but was unable to find any applications that would address the current water use. There are portions of your existing places of use that appear to not be irrigated. You may want to consider whether you could file for a transfer or transfers that would bring your water use into full compliance.

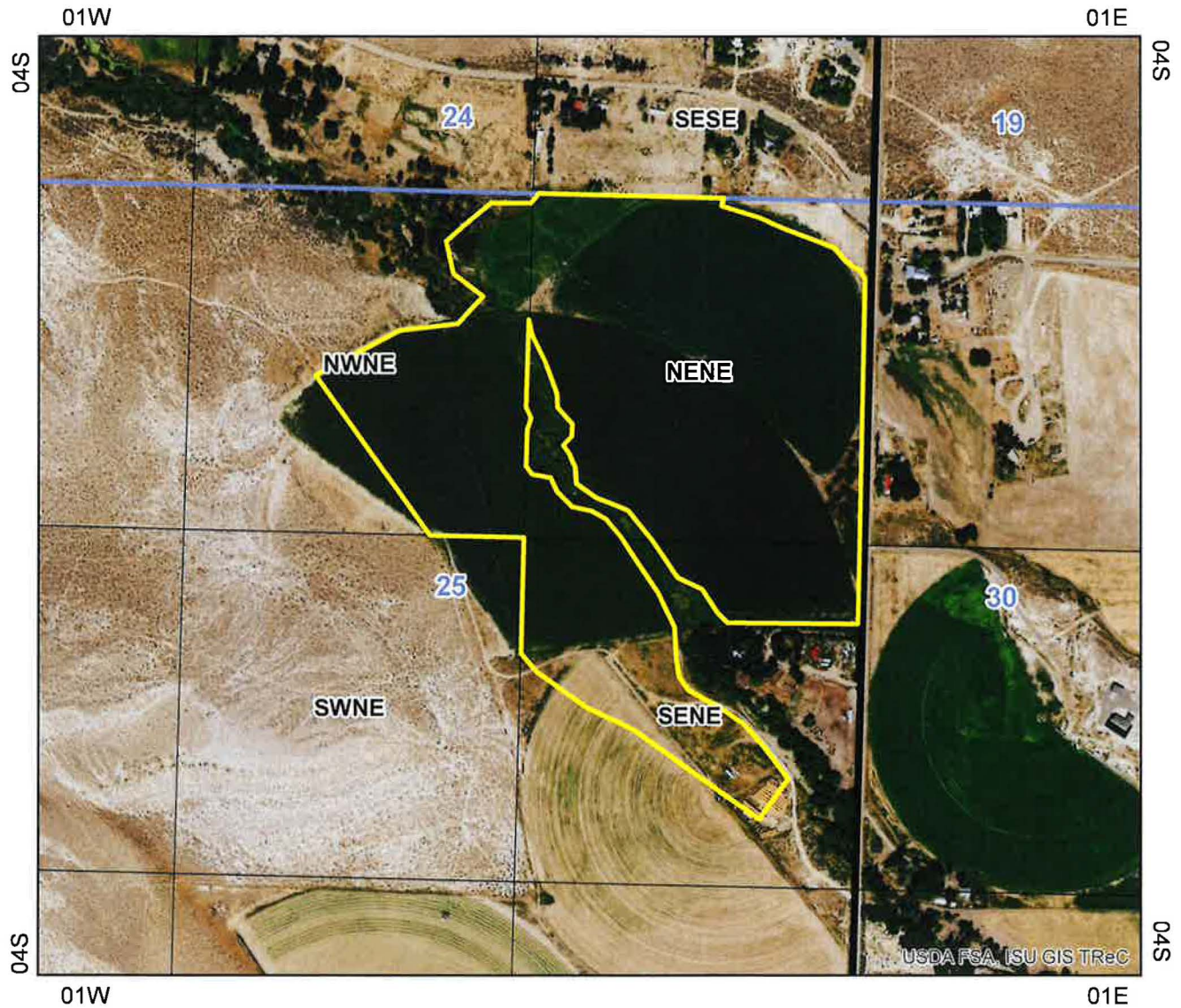
If you have any questions, please call me at 208-287-4826, or email me at david.betts@idwr.idaho.gov.

Sincerely,

Dave Betts
Water Resource Agent

Enclosures: Water right Proof Reports: 57-53, 57-2241, 57-7060, 57-10833, 57-11595
Water right maps (same as above)
Permit Proof Report & Map: 57-11840

State of Idaho
Department of Water Resources
Water Right License
57-53

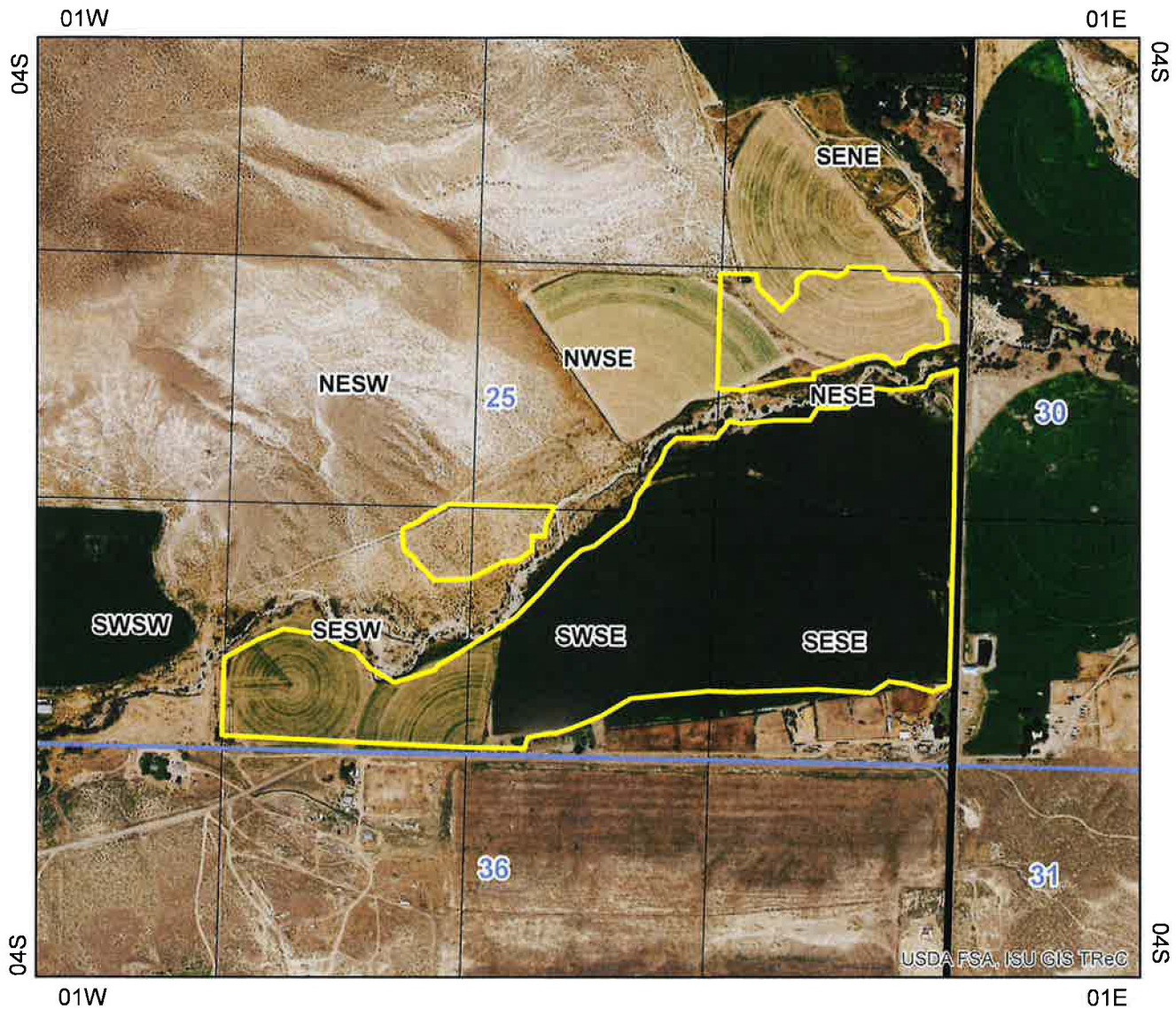


- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.075 0.15 0.3 Miles



State of Idaho
Department of Water Resources
Water Right License
57-2241

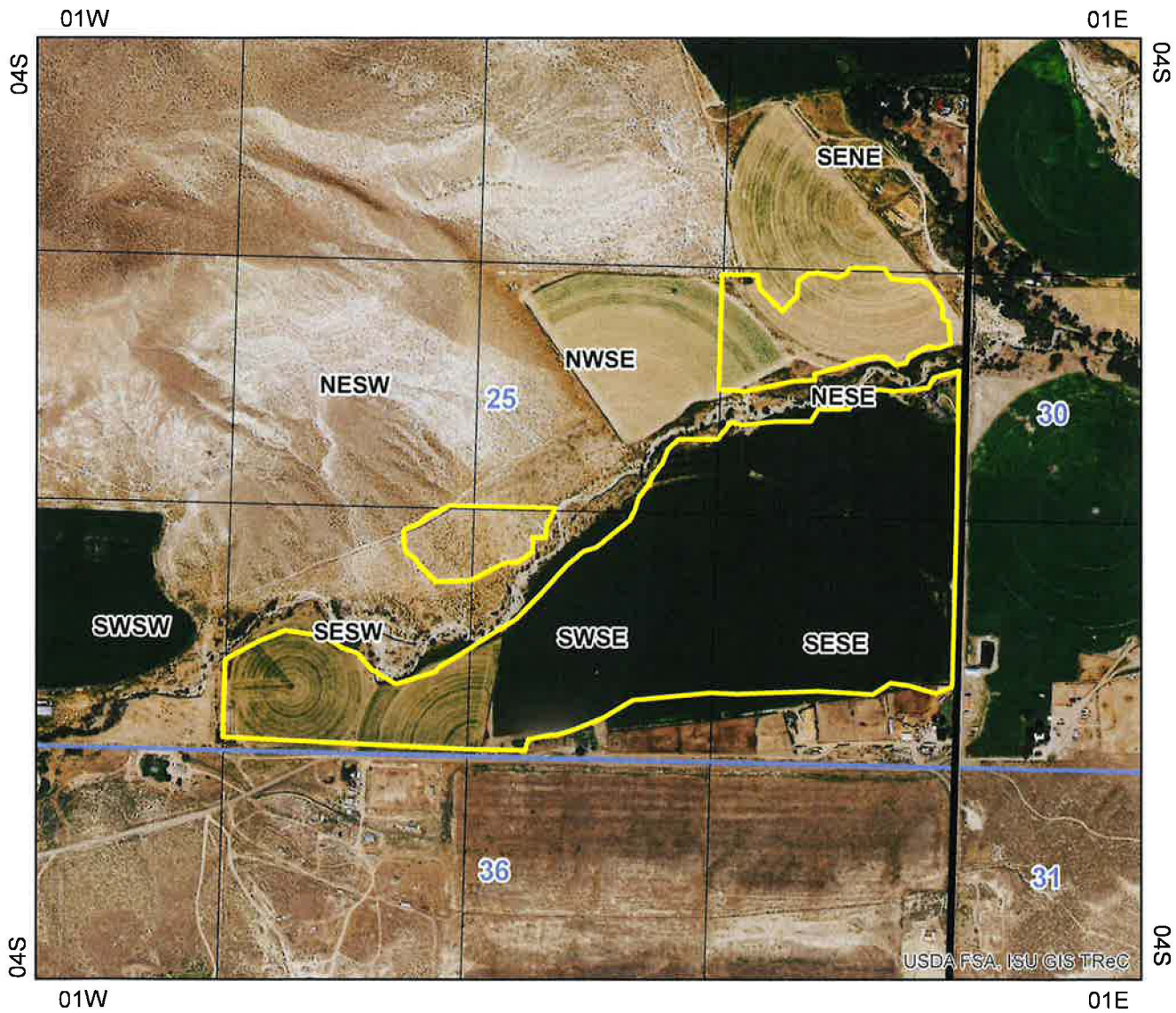


-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.1 0.2 0.4 Miles



State of Idaho
Department of Water Resources
Water Right License
57-7060

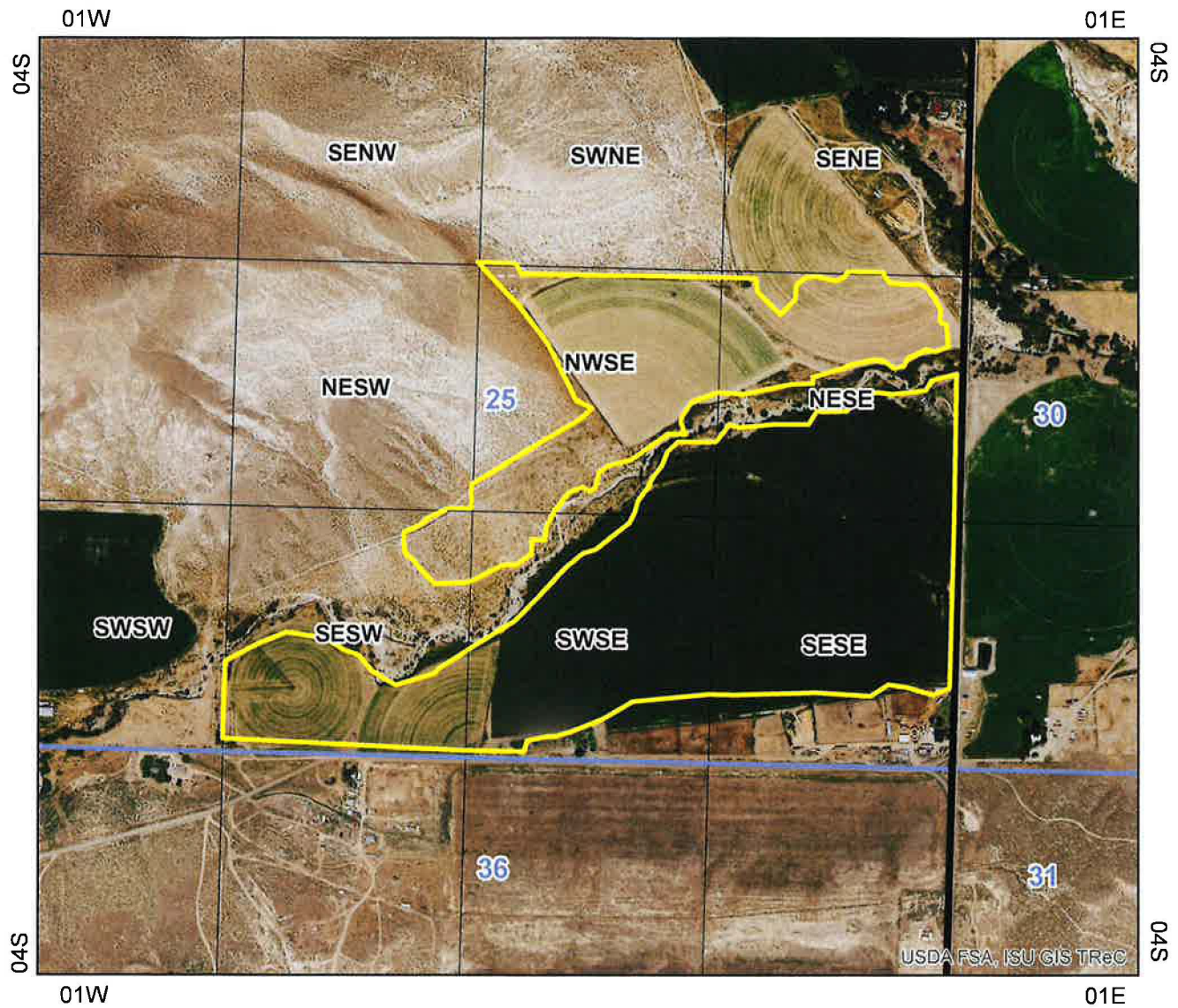


-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters

0 0.1 0.2 0.4 Miles



State of Idaho
Department of Water Resources
Water Right License
57-10833

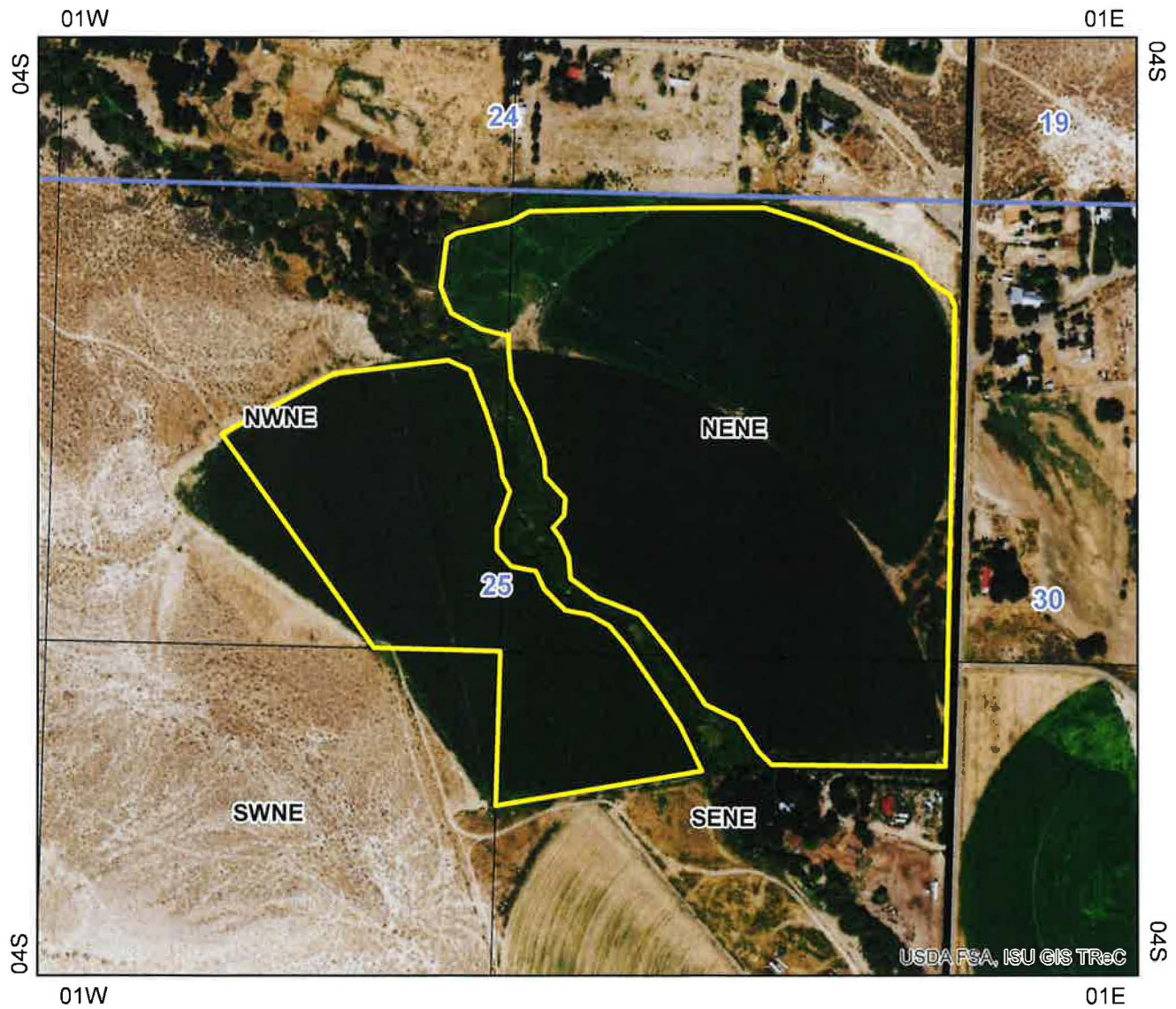


- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.1 0.2 0.4 Miles



State of Idaho
Department of Water Resources
Water Right License
57-11595



- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters

0 0.05 0.1 0.2 Miles

