

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 15-7117
Exam Date: 04/19/2019

1. Current Owner:
JEFF ALDER 2154 S OLD HWY191 MALAD CITY ID 83252-6564
JENNIE ALDER 2154 S OLD HWY 191 MALAD CITY ID 83252-6564
2. Accompanied by: Logan Alder
Phone No: 208 766 3187
Relationship to permit Holder: Son

3. **SOURCE:**
GROUND WATER

Method of Determination: Point of diversion is a well.

B. OVERLAP REVIEW

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

Water Right No.	Source	Purpose of Use	Basis
15-7121	Ground Water	Irrigation	License (issued concurrently)

Comments: 15-7121 and 15-7117 overlap on 22.5 acres in the NESE of Section 4. Their authorized acres as additive are:
150.0 (15-7117) + 32.3 (15-7121) = 182.3 acres.

Additive as authorized – acres on which the water rights overlap = **combined limit:**
182.3 - 22.5 = **159.8 acres**

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

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER L1 (NE¼ NE¼), Sec. 4, Twp 15S, Rge 36E, B.M. ONEIDA County

Method of Determination: GPS, ArcMap, and aerial photography.

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				
15S	36E	4	9.0 L1	37.0 L2	35.0	35.0												34.0				150.0

Total Acres: 150.0

Method of Determination: meeting with appropriator, aerial photography, and ArcMap

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. Diversion information: 50 HP well open discharging into ditch.

E. FLOW MEASUREMENT and CALCULATIONS

Additional Computation Sheets Attached

See attached printout. 2.09 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 150 \text{ acres} \times 3.5 \text{ acre feet/acre} = 525 \text{ acre feet}$
 $V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 2.09 \text{ cfs} \times 1.9835 \text{ AF/day/cfs} \times 214 \text{ days/irrigation season} = 887 \text{ AF}$
 $V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 525.0 \text{ AF}$

2. Volume Calculations for Other Uses: N/A

G. NARRATIVE/REMARKS/COMMENTS

One pump, open discharge into a ditch. The ditch then feeds into a pipeline and waters the western part of the place of use, and/or feeds into a ditch and waters the eastern and southern parts of the place of use.

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>Volume</u>
IRRIGATION	4/01 to 10/31	2.09 CFS	525.0 AF
<u>Totals:</u>		2.09 CFS	525.0 AF

2. Recommended Amendments

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

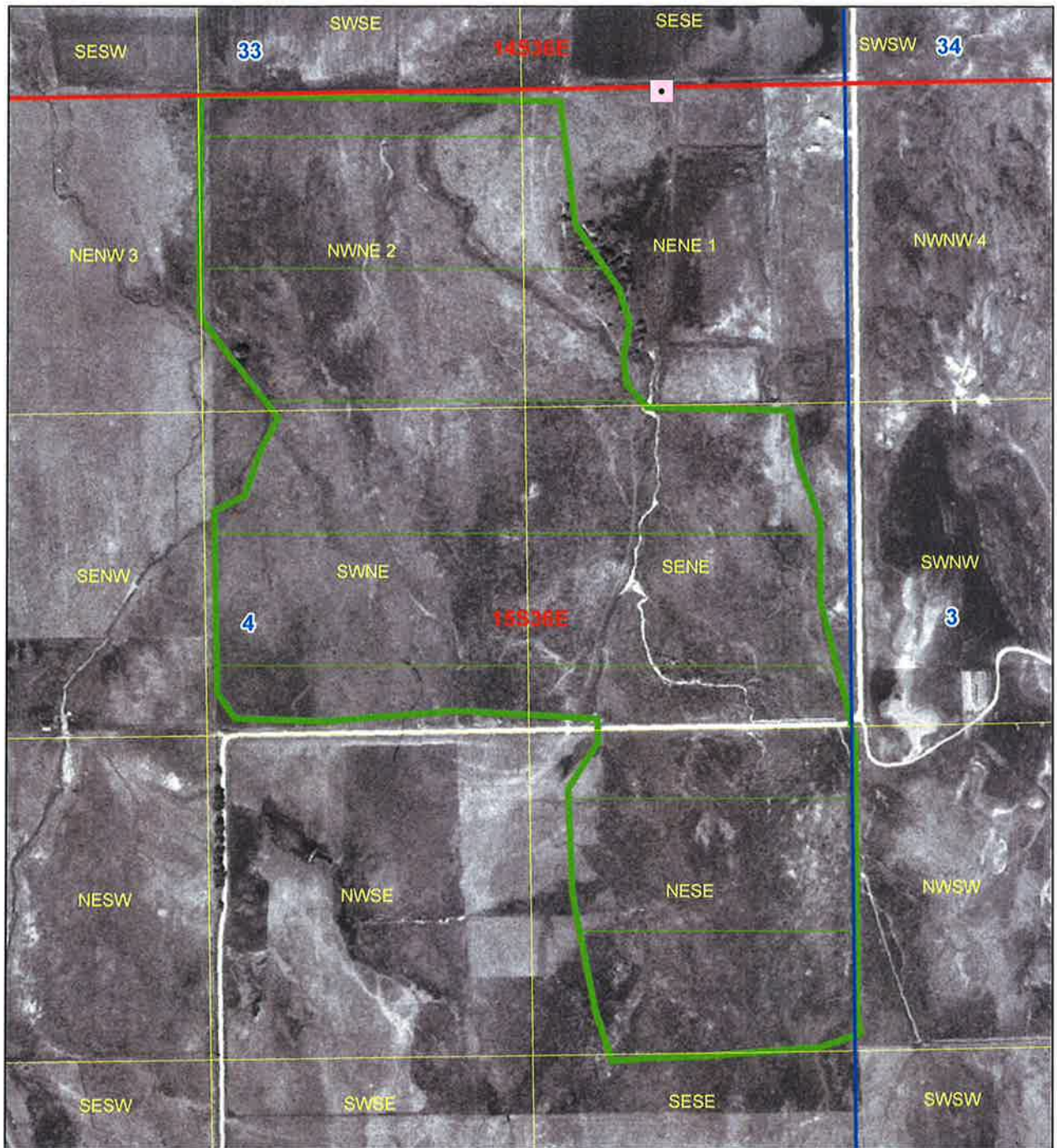
Change P.U. as reflected above Add P.U. as reflected above None

I. AUTHENTICATION Cooper Fritz - Eastern Region: Water Resource Agent, Senior

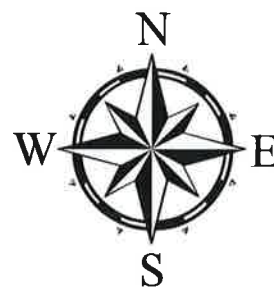
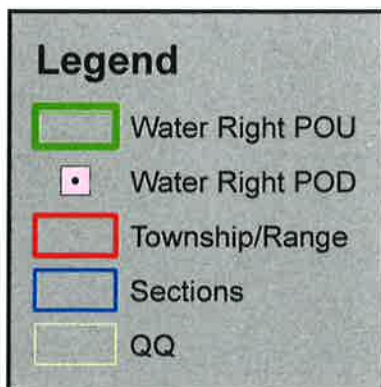
Field Examiner's Name _____ Date _____

Reviewer James Cefalo _____ Date 7/30/19 _____

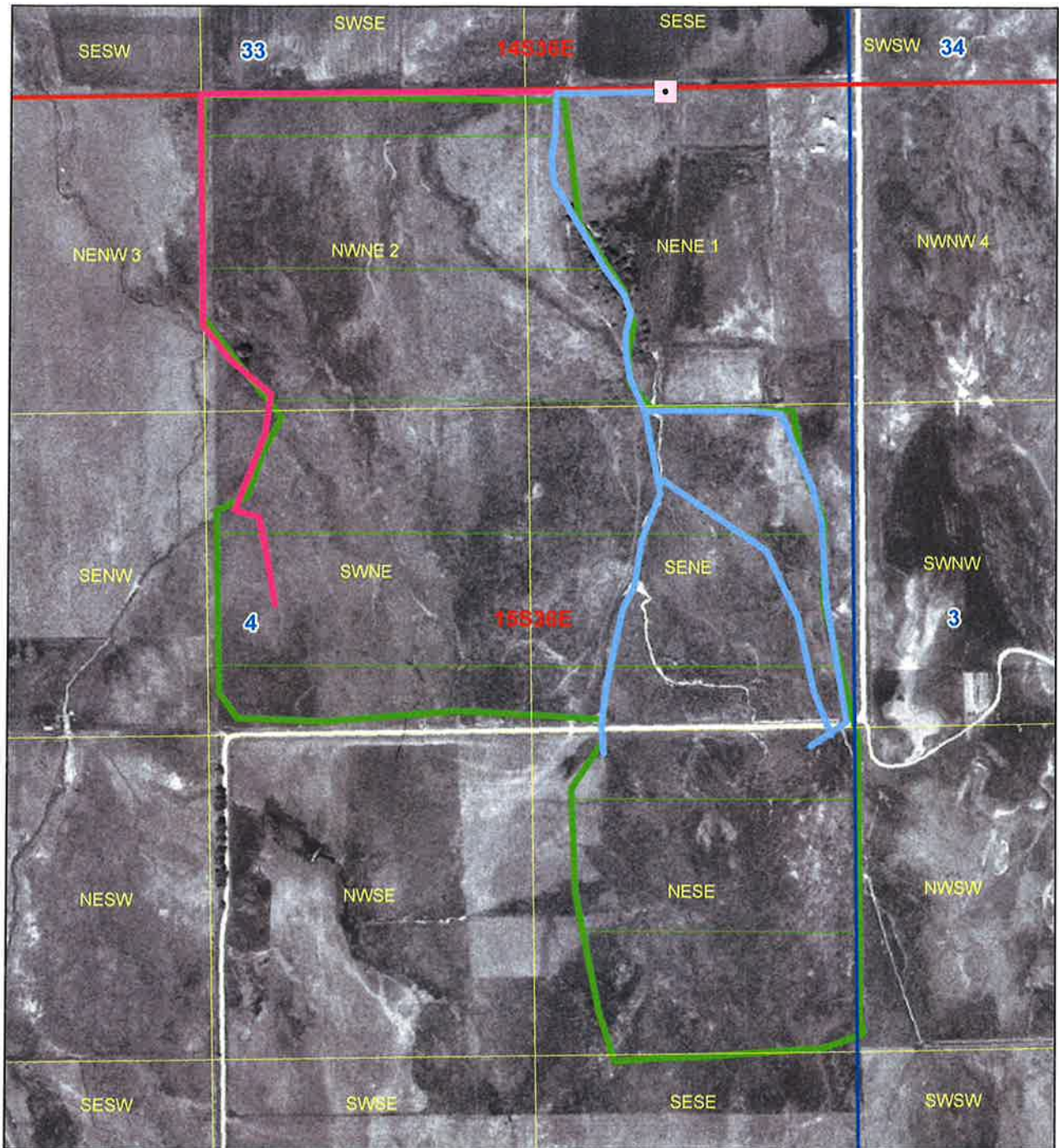
15-7117 Overview at Licensing



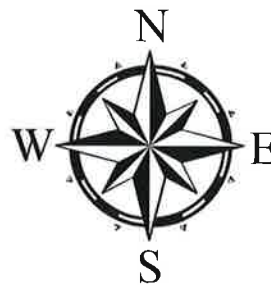
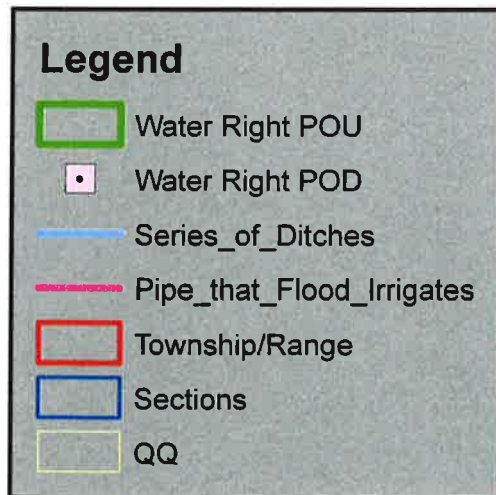
1992 - 2000 Imagery



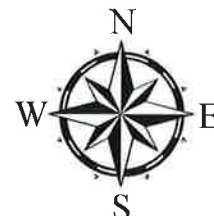
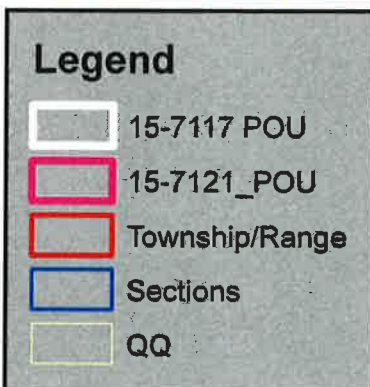
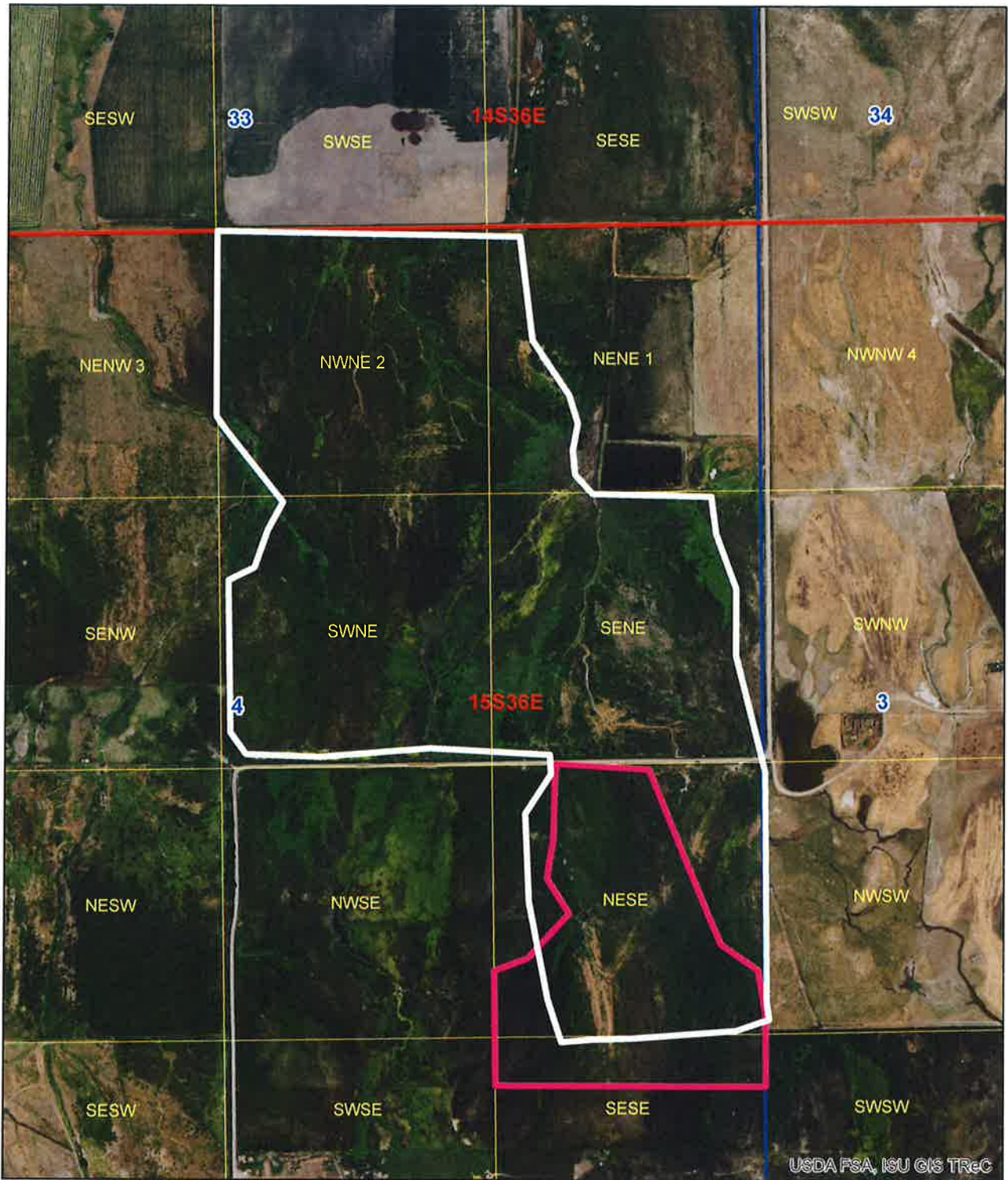
15-7117 Overview at Licensing



1992 - 2000 Imagery



15-7117 and 15-7121 POU Overlap at Licensing





State of Idaho
Department of Water Resources

Permit To Appropriate Water

NO. 15-07117

Proposed Priority: January 19, 1990 Maximum Diversion Rate: 3.00 CFS

This is to certify, that JENNIE ALDER
JEFF ALDER
440 S. MAIN
MALAD, ID 83252

has applied for a permit to appropriate water from: GROUNDWATER
and a permit is APPROVED for development of water as follows:

BENEFICIAL USE PERIOD OF USE RATE OF DIVERSION

IRRIGATION 04/01 to 11/01 3.00 CFS

LOCATION OF POINT(S) OF DIVERSION: NENE Sec. 4, Township 15S, Range 36E
ONEIDA County

PLACE OF USE: IRRIGATION

<u>TWN</u>	<u>RGE</u>	<u>SEC</u>	<u>ACRES</u>	<u>ACRES</u>	<u>ACRES</u>	<u>TOTAL</u>
15S	36E	4	NENE 20	NWNE 40	SWNE 40	150
			SENE 20	NESE 10	NWSE 20	

Total number of acres irrigated: 150

CONDITIONS/REMARKS:

1. Proof of construction of works and application of water to beneficial use shall be submitted on or before November 1, 1992.
2. Subject to all prior water rights.
3. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which permit holder had no control.
4. Permit holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.
Witness the seal and signature of the Director, affixed at Boise, this

6th day of November, 1990.

R. Keith Higginson
for R. Keith Higginson, Director

MICROFILMED

NOV 26 1990

Discharge Measurement Summary

Date Generated: Tue Jun 4 2019

File Information File Name: ALD4.WAD Start Date and Time: 2019/04/03 14:41:53		Site Details Site Name: Operator(s): CC																									
System Information Sensor Type: FlowTracker Serial #: P4819 CPU Firmware Version: 3.9 Software Ver: 2.30 Mounting Correction: 0.0%		Units (Metric Units) Distance: m Velocity: m/s Area: m ² Discharge: m ³ /s																									
Summary Averaging Int.: Varies Start Edge: LEW Mean SNR: 55.4 dB Mean Temp: 12.18 °C Disch. Equation: Mid-Section		# Stations: 13 Total Width: 3.322 Total Area: 0.449 Mean Depth: 0.135 Mean Velocity: 0.1318 Total Discharge: 0.0592 = 2.09 cfs																									
Discharge Uncertainty <table border="1"> <thead> <tr> <th>Category</th> <th>ISO</th> <th>Stats</th> </tr> </thead> <tbody> <tr> <td>Accuracy</td> <td>1.0%</td> <td>1.0%</td> </tr> <tr> <td>Depth</td> <td>1.0%</td> <td>3.5%</td> </tr> <tr> <td>Velocity</td> <td>2.3%</td> <td>18.1%</td> </tr> <tr> <td>Width</td> <td>0.3%</td> <td>0.3%</td> </tr> <tr> <td>Method</td> <td>4.8%</td> <td>-</td> </tr> <tr> <td># Stations</td> <td>3.9%</td> <td>-</td> </tr> <tr> <td>Overall</td> <td>6.8%</td> <td>18.5%</td> </tr> </tbody> </table>				Category	ISO	Stats	Accuracy	1.0%	1.0%	Depth	1.0%	3.5%	Velocity	2.3%	18.1%	Width	0.3%	0.3%	Method	4.8%	-	# Stations	3.9%	-	Overall	6.8%	18.5%
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# Stations	3.9%	-																									
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Measurement Results													
St	Clock	Loc	Method	Depth	%Dep	MeasD	Npts	Vel	CorrFact	MeanV	Area	Flow	%Q
0	14:41	4.54	None	0.000	0.0	0.0	0	0.0000	1.00	0.0000	0.000	0.0000	0.0
1	14:41	4.24	0.6	0.064	0.6	0.026	40	-0.1157	1.00	-0.1157	0.020	-0.0023	-3.8
2	14:43	3.93	0.6	0.070	0.6	0.028	40	-0.0680	1.00	-0.0680	0.021	-0.0015	-2.5
3	14:44	3.63	0.6	0.098	0.6	0.039	40	0.0471	1.00	0.0471	0.030	0.0014	2.4
4	14:45	3.32	0.6	0.125	0.6	0.050	40	0.1507	1.00	0.1507	0.034	0.0052	8.7
5	14:46	3.08	0.6	0.149	0.6	0.060	40	0.2264	1.00	0.2264	0.036	0.0082	13.9
6	14:48	2.83	0.6	0.177	0.6	0.071	40	0.3963	1.00	0.3963	0.043	0.0171	28.9
7	14:49	2.59	0.6	0.207	0.6	0.083	40	0.4409	1.00	0.4409	0.051	0.0223	37.7
8	14:50	2.35	0.6	0.247	0.6	0.099	40	0.3538	1.00	0.3538	0.060	0.0213	36.0
9	14:51	2.10	0.6	0.244	0.6	0.098	40	-0.0302	1.00	-0.0302	0.067	-0.0020	-3.4
10	14:52	1.80	0.6	0.183	0.6	0.073	40	-0.1238	1.00	-0.1238	0.078	-0.0097	-16.3
11	14:54	1.25	0.6	0.031	0.6	0.012	3	-0.1027	1.00	-0.1027	0.009	-0.0009	-1.5
12	14:54	1.22	None	0.000	0.0	0.0	0	0.0000	1.00	0.0000	0.000	0.0000	0.0

Rows in italics indicate a QC warning. See the Quality Control page of this report for more information.

Discharge Measurement Summary

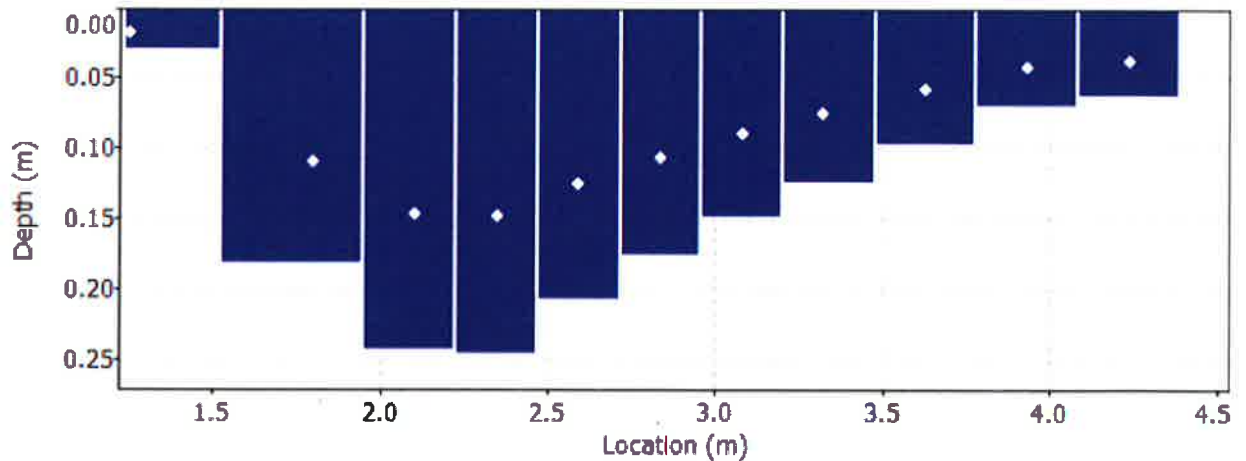
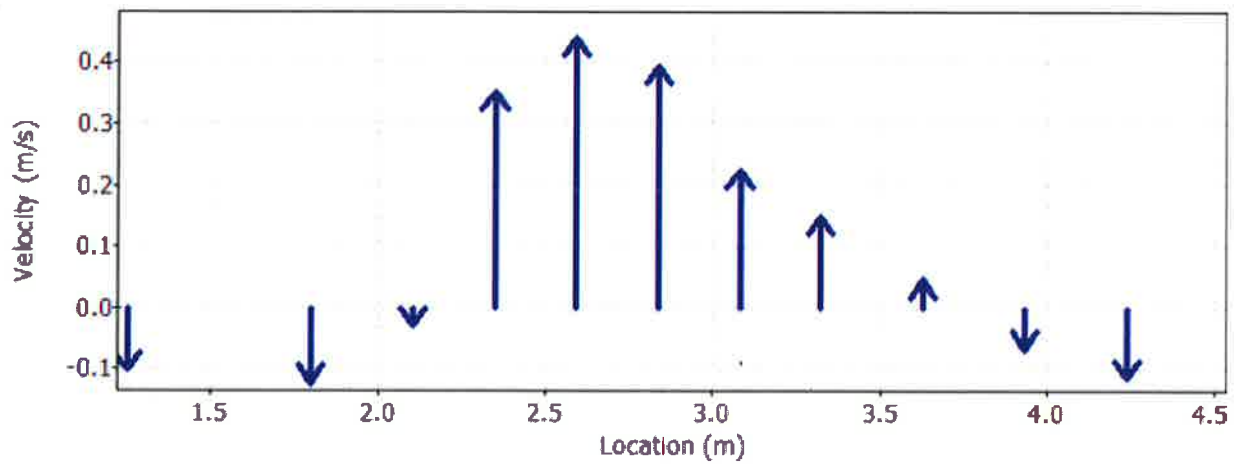
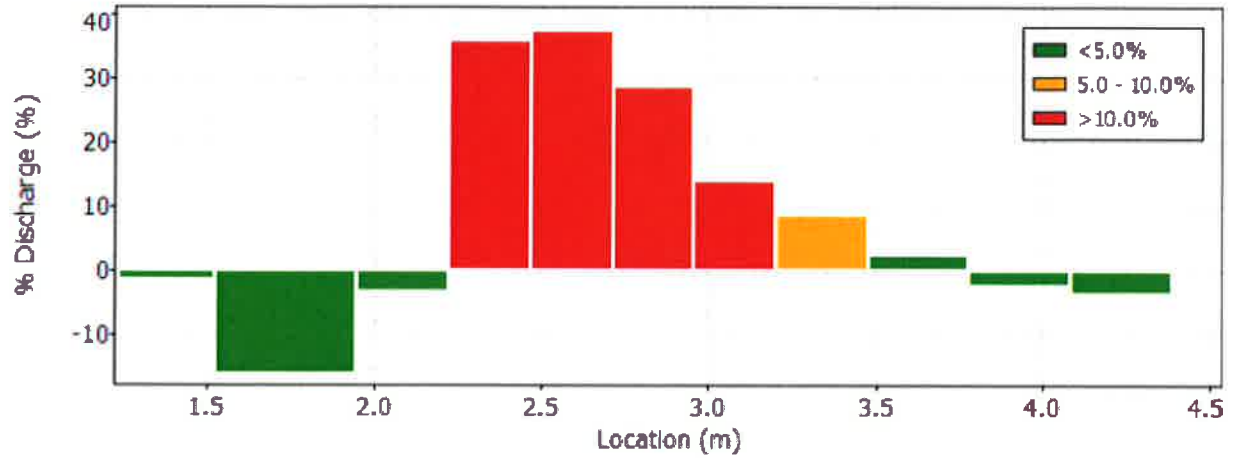
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File Information

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 Start Date and Time 2019/04/03 14:41:53

Site Details

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 Operator(s) CC



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Quality Control

St	Loc	%Dep	Message
1	4.24	0.6	High angle: -168
2	3.93	0.6	High angle: -154
3	3.63	0.6	High angle: -54
4	3.32	0.6	High angle: -29
5	3.08	0.6	High angle: -21
6	2.83	0.6	High angle: -22
9	2.10	0.6	High angle: -132
10	1.80	0.6	High angle: -177
11	1.25	0.6	High angle: 167