

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 24-10747
Exam Date: 06/01/2020

1. Current Owner:
SCOTT CARLISLE PO BOX 1266 AFTON WY 83110

3. **SOURCE:**
SPRING CREEK

Tributary
TYGEE CREEK

Method of Determination: GP point and aerial photography on ArcMap.

B. OVERLAP REVIEW

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

This right is part of a fish hatchery and tourist resort known as Star Valley Trout Ranch. A house on the property is served by Domestic right 24-10740. The lodge and cabins comprising the resort are served by Commercial right 24-10772. 20 small indoor raceways located inside the hatchery building are served by right 24-10748. This right serves the six large outdoor raceways located on the property.

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

24-10748 diverts from the same 10" pipe.
24-10740 and 24-10772 divert from a smaller pipe upstream.

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

SPRING CREEK SE¼ NW¼, Sec. 32, Twp 07S, Rge 46E, B.M. CARIBOU County

Method of Determination: GPS point and ArcMap aerial photography.

PLACE OF USE: FISH PROPAGATION

Twp	Rng	Sec	NE				NW				SW				SE			
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE
07S	46E	32	X			X												

Method of Determination: ArcMap aerial photography.

3. Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- X 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 Aerial Photo Attached (required for irrigation of 10+ acres).
- X Photo of Diversion and System Attached

4. Diversion Information

A 10" pipe in the channel of Spring Creek.

D. FLOW MEASUREMENTS

Measurement taken with a Flowtracker Handheld ADV instrument at the outlet into Spring Creek of a pond whose sole source of surface water was the six concrete raceways. At the time of the visit, five raceways were in operational use. The sixth was turned on for measurement purposes.

E. FLOW CALCULATIONS

 X Additional Computation Sheets Attached

Measured rate of 3.81 cfs. Rate will be limited to 3.00 cfs based on permit.

F. VOLUME CALCULATIONS

$3.0 \text{ cfs} * 1.9835 \text{ AF/cfs/day} * 365.25 \text{ days/year} = 2,173.4 \text{ AF}$

G. NARRATIVE/REMARKS/COMMENTS

This right is for six large outdoor concrete raceways. The raceways are part of a fish hatchery operation. The operation is associated with Star Valley Trout Ranch. For more information, please review the "overlapping place of use" section.

Have conditions of permit approval been met? X 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>
FISH PROPAGATION	01/01 to 12/31	3.00 CFS	2170 af
<u>Totals:</u>		3.00 CFS	2170 af

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

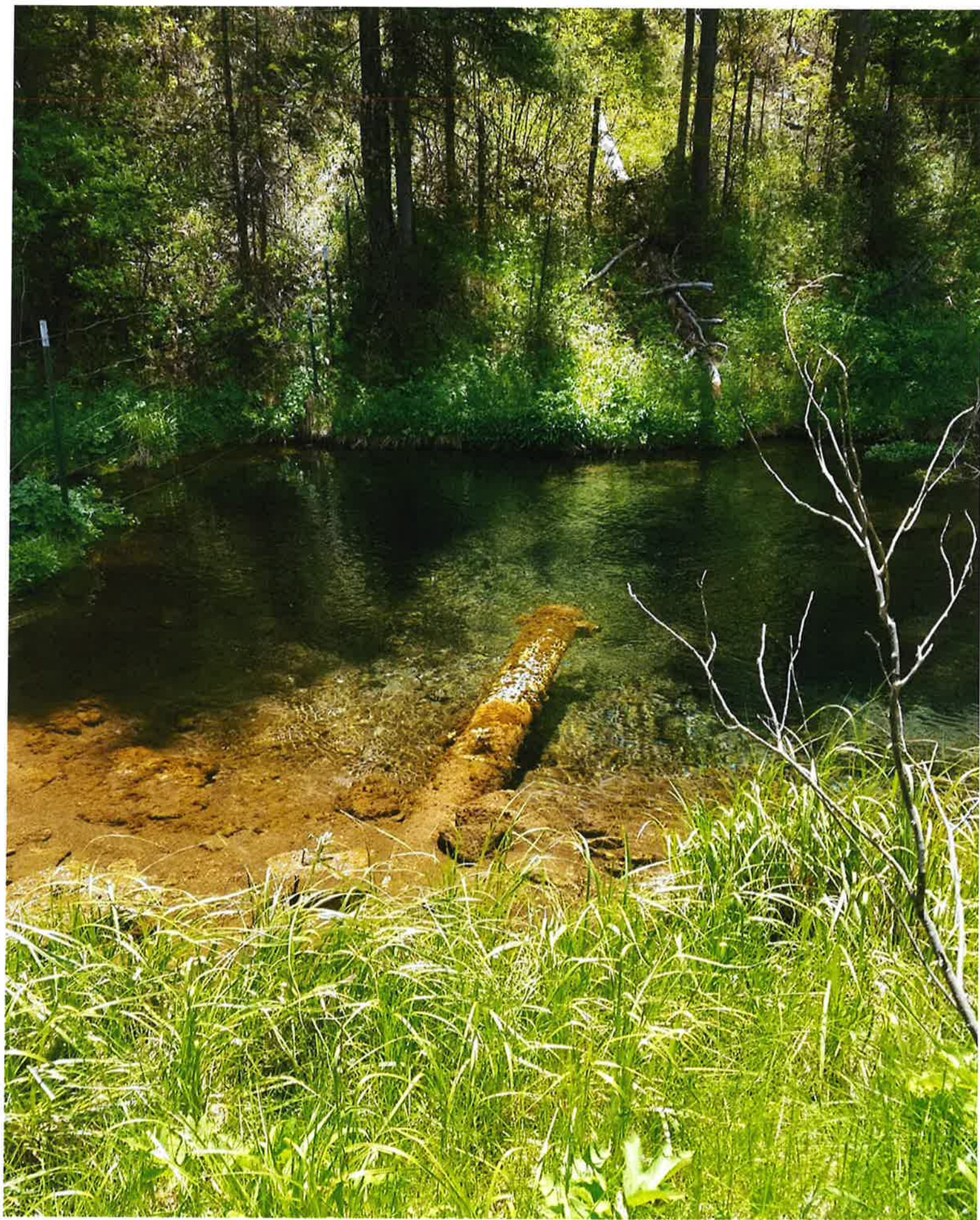
I. AUTHENTICATION

Cooper Fritz - Water Resource Agent, Senior

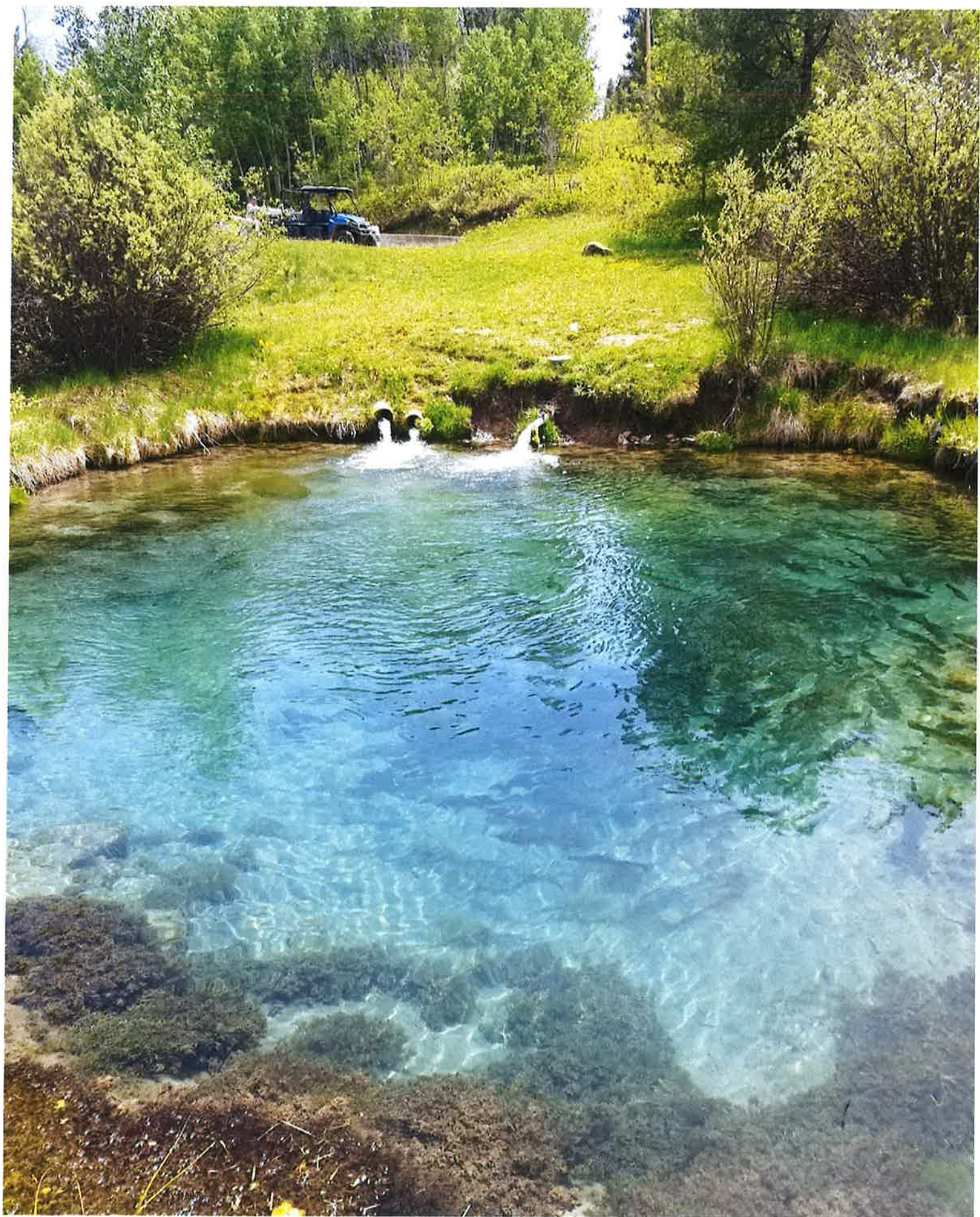
Field Examiner's Name: Cooper Fritz

Date: 1/22/2021

Reviewer _____ Date _____







Discharge Measurement Summary

Date Generated: Fri Jan 22 2021

File Information

File Name RACEBEL.WAD
Start Date and Time 2020/06/01 13:42:12

Site Details

Site Name
Operator(s) CFRITZ

System Information

Sensor Type FlowTracker
Serial # P5851
CPU Firmware Version 3.9
Software Ver 2.30
Mounting Correction 0.0%

Units (Metric Units)

Distance m
Velocity m/s
Area m²
Discharge m³/s

Discharge Uncertainty

Category	ISO	Stats
Accuracy	1.0%	1.0%
Depth	0.5%	5.8%
Velocity	2.0%	11.9%
Width	0.2%	0.2%
Method	3.2%	-
# Stations	5.1%	-
Overall	6.5%	13.3%

Summary

Averaging Int. 40 # Stations 10
Start Edge LBW Total Width 1.936
Mean SNR 27.9 dB Total Area 0.398
Mean Temp 10.93 °C Mean Depth 0.206
Disch. Equation Mid-Section Mean Velocity 0.2709
Total Discharge 0.1078

Measurement Results

St	Clock	Loc	Method	Depth	%Dep	MeasD	Vel	CorrFact	MeanV	Area	Flow	%Q
0	13:42	2.77	None	0.052	0.0	0.0	0.0000	1.00	0.3765	0.006	0.0021	1.9
1	13:43	2.56	0.6	0.155	0.6	0.062	0.3765	1.00	0.3765	0.033	0.0125	11.6
2	13:45	2.35	0.6	0.213	0.6	0.085	0.4038	1.00	0.4038	0.046	0.0184	17.1
3	13:46	2.13	0.6	0.262	0.6	0.105	0.3717	1.00	0.3717	0.056	0.0208	19.3
4	13:48	1.92	0.6	0.320	0.6	0.128	0.4593	1.00	0.4593	0.068	0.0314	29.1
5	13:50	1.71	0.6	0.357	0.6	0.143	0.1873	1.00	0.1873	0.076	0.0143	13.2
6	13:51	1.49	0.6	0.229	0.6	0.091	0.0296	1.00	0.0296	0.049	0.0014	1.3
7	13:52	1.28	0.6	0.201	0.6	0.080	0.1409	1.00	0.1409	0.043	0.0060	5.6
8	13:54	1.07	0.6	0.098	0.6	0.039	0.0423	1.00	0.0423	0.022	0.0009	0.8
9	13:54	0.84	None	0.000	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

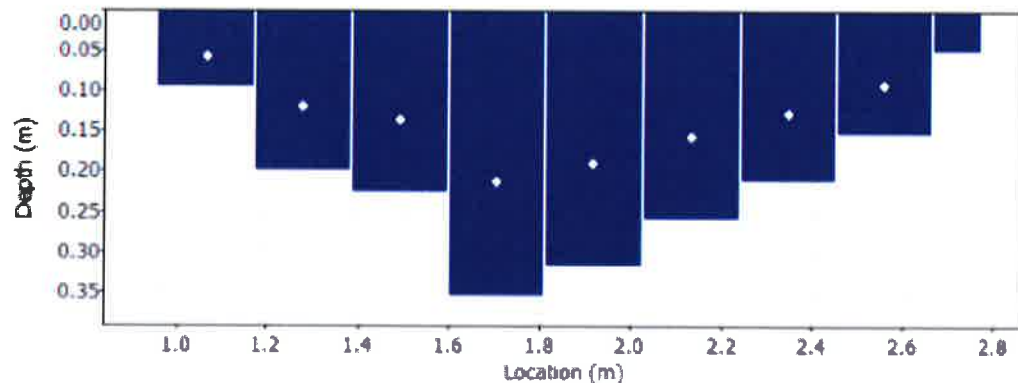
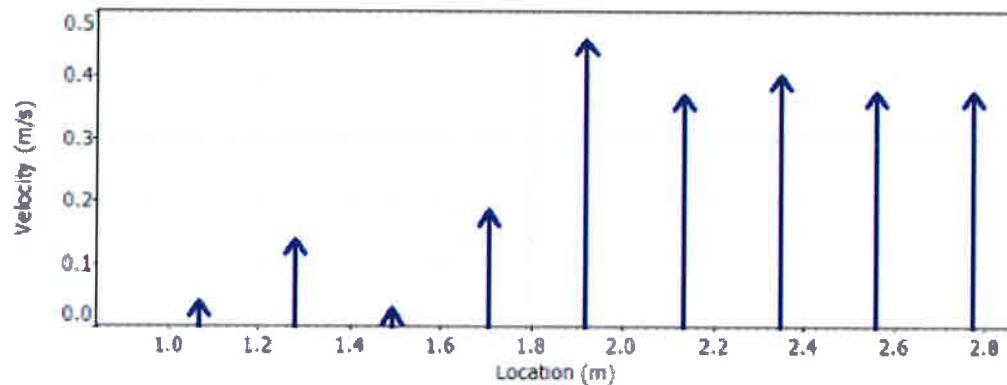
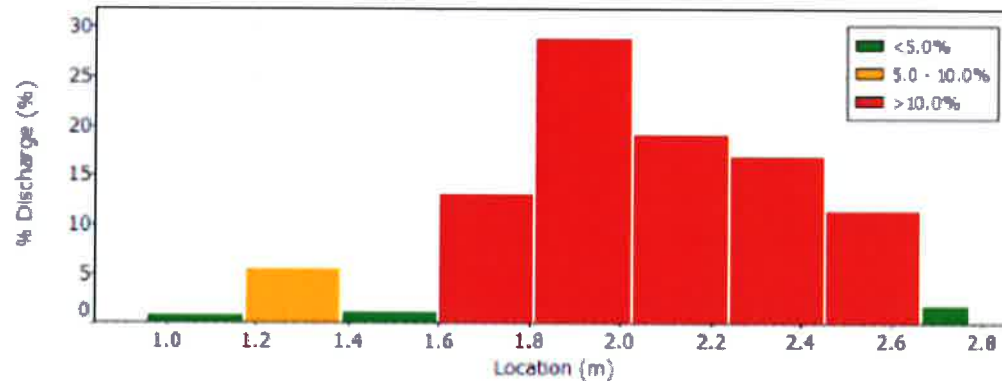
Date Generated: Fri Jan 22 2021

File Information

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Start Date and Time 2020/06/01 13:42:12

Site Details

Site Name
Operator(s) CFRJZ



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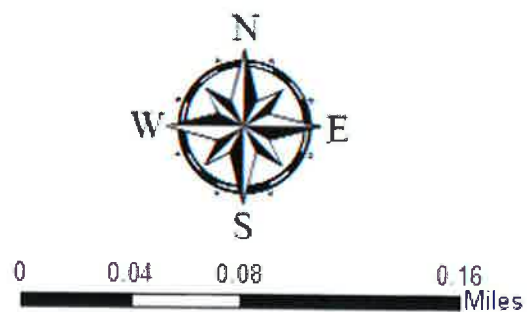
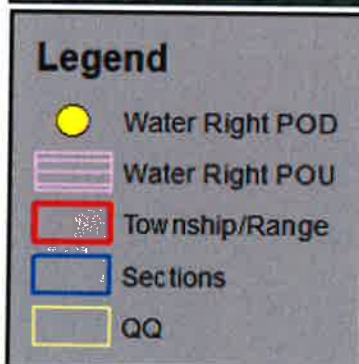
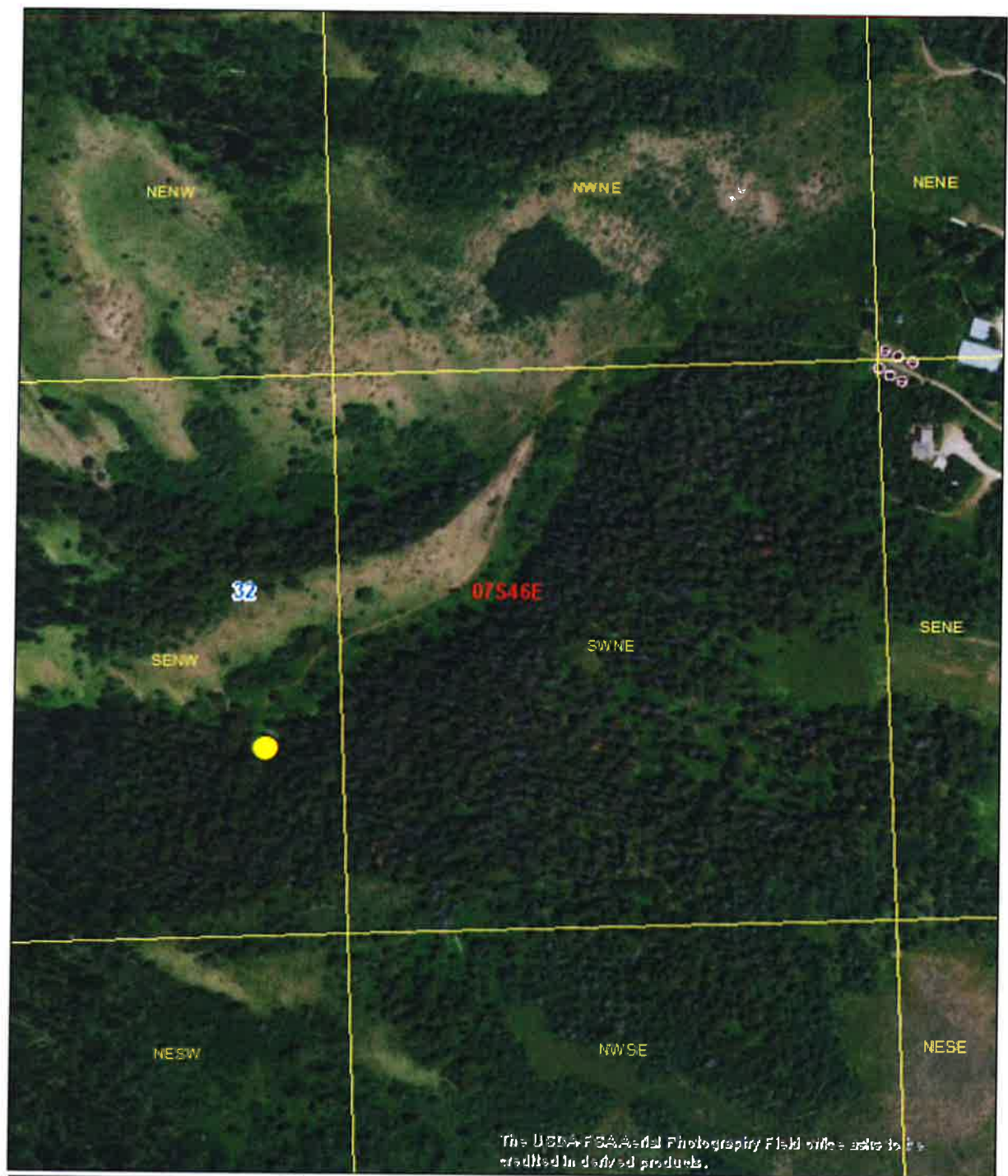
Site Details

Site Name
 Operator(s) CFRITZ

Quality Control

St	Loc	%Dep	Message
3	2.13	0.6	Boundary QC is Fair; possible boundary interference
4	1.92	0.6	High angle: 21
6	1.49	0.6	High angle: -28
		0.6	High SNR variation during measurement: 9.9,11.2
		0.6	Boundary QC is Good; possible boundary interference
7	1.28	0.6	High angle: 35
8	1.07	0.6	High number of spikes: 6
		0.6	High angle: 30
		0.6	High differences in beam SNR: 22.3,35.2
		0.6	High SNR variation during measurement: 15.5,12.0

24-14747 Place of Use and Point of Diversion at Licensing





POD -111.104167, 42.771386





