

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-8879

Exam Date: 6/26/2012

1. Current Owner: ST LUKES MEDICAL CENTER
WOOD RIVER LTD
190 E BANNOCK
BOISE ID 83712
(208)381-2023 Contact: Jeff Hall
2. Accompanied by: Alex Hagen, Facilities Manager for St. Lukes Medical Center accompanied me to the spring source and the POD of the unnamed spring (208)727-8803, 100 Hospital Dr., Ketchum, ID. Additional details on the system was obtained from Lynn Askew, Power Engineers (208)788-3456, since he was the engineer who worked on this project, but he no longer represents St. Lukes.

3. SOURCE

UNNAMED STREAM

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None. When you query the PLS, many water rights come up, but none of them overlap this POU.
2. Other water rights with the same point of diversion: None. When you query the PLS, many water rights come up, but none of them overlap this POD.

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

UNNAMED STREAM NE1/4SE1/4 Sec. 30, Twp 04N, Rge 18E, B.M. BLAINE County

Method of Determination: Arc Map 2009, and Garmin GPS Map 76S

2.

PLACE OF USE:

WILDLIFE

see 3/18/2013 memo

Twp Rge Sec	NE				NW				SW				SE				Totals
04N 18E 30	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	X

PLACE OF USE:

WILDLIFE STORAGE

Twp Rge Sec	NE				NW				SW				SE				Totals
04N 18E 30	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	X

Method of Determination: Arc Map 2009, and Garmin GPS Map 76S

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
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Spring source making up the unnamed stream that follows a dirt channel running north to south to the wildlife storage pond (entire gravity flow system).

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1. Measurements: L 27 inches, H 2 ½ inches, with historical evidence of increased rate of diversion > H 4 inches. At the time of the field examination, a measurement was collected from the concrete rectangular weir. Using the Water Measurement Manual 2nd Edition, Rectangular Weir calculation chart, the following diversion rates were obtained:

H 0.25 L 2.0 = 0.811 cfs
H 0.25 L 3.0 = 1.23 cfs

H 0.33 = 1.22 cfs
H 0.33 = 1.85 cfs

RECOMMEND:

Allow 1.20 cfs as permitted

*3/18/2013
determined
to be on-stream
storage: no cfs,
+ no wildlife
component. SH
(see memo)*

E. VOLUME CALCULATIONS

1. Volume Calculations:

Wildlife Storage pond: 0.5 acre X average depth 4 ½ ft = 2.25 af

RECOMMEND:

Wildlife Storage 2.25 af as permitted

G. NARRATIVE/REMARKS/COMMENTS

The source of the unnamed spring is Cold Springs, which starts discharging to a pooled area from the side of the hillside near the northwestern part of the POU. There is a dirt channel that follows the west side of the bike path or greenbelt traveling north to south, which forms the unnamed stream. At the southwest end of NESE is located a concrete weir (27 inch length, with 2 1/2 - 3 inch flow at the time of the field exam, but indications of historically having an increased rate of diversion). The unnamed stream continues south to where it is collected into a buried pipe discharging into the wildlife storage pond. According to the maps submitted by Power Engineers, there is a buried infiltration gallery on the southeast side of the pond to control the level. It consists of 8 inch PVC perforated pipe with 4 inch drain rock. There is a precast manhole type A with Eccentric cone. The wildlife storage pond is 0.5 acres in size with an average depth of 4 1/2 ft. Wildlife consists of numerous birds, ducks, deer, and other wildlife found in that area. This wildlife storage pond/wetland area was basically relocated to where it now exists, so St. Lukes Medical Center could be built.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

See 3/18/2013 memo. SH.

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
~~WILDLIFE~~	~~01/01 to 12/31~~	~~1.200 CFS~~	
WILDLIFE STORAGE	01/01 to 12/31		2.25 AF <i>SH</i>
<u>Totals:</u>		~~1.200 CFS~~	

2. Recommended Amendments

___ Change P.D. as reflected above ☒ Add P.D. as reflected above ~~___X___None~~ *SH*
___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

Field Examiner's Name *Sandy Hemenway* Date *3/6/2013*

SWNE

SENE

Cold Springs

37-8879

POD
unnamed
stream

NWSE

POU
wildlife

Weir

NESE

30

buried, piped

SWSE

POU
wildlife
storage

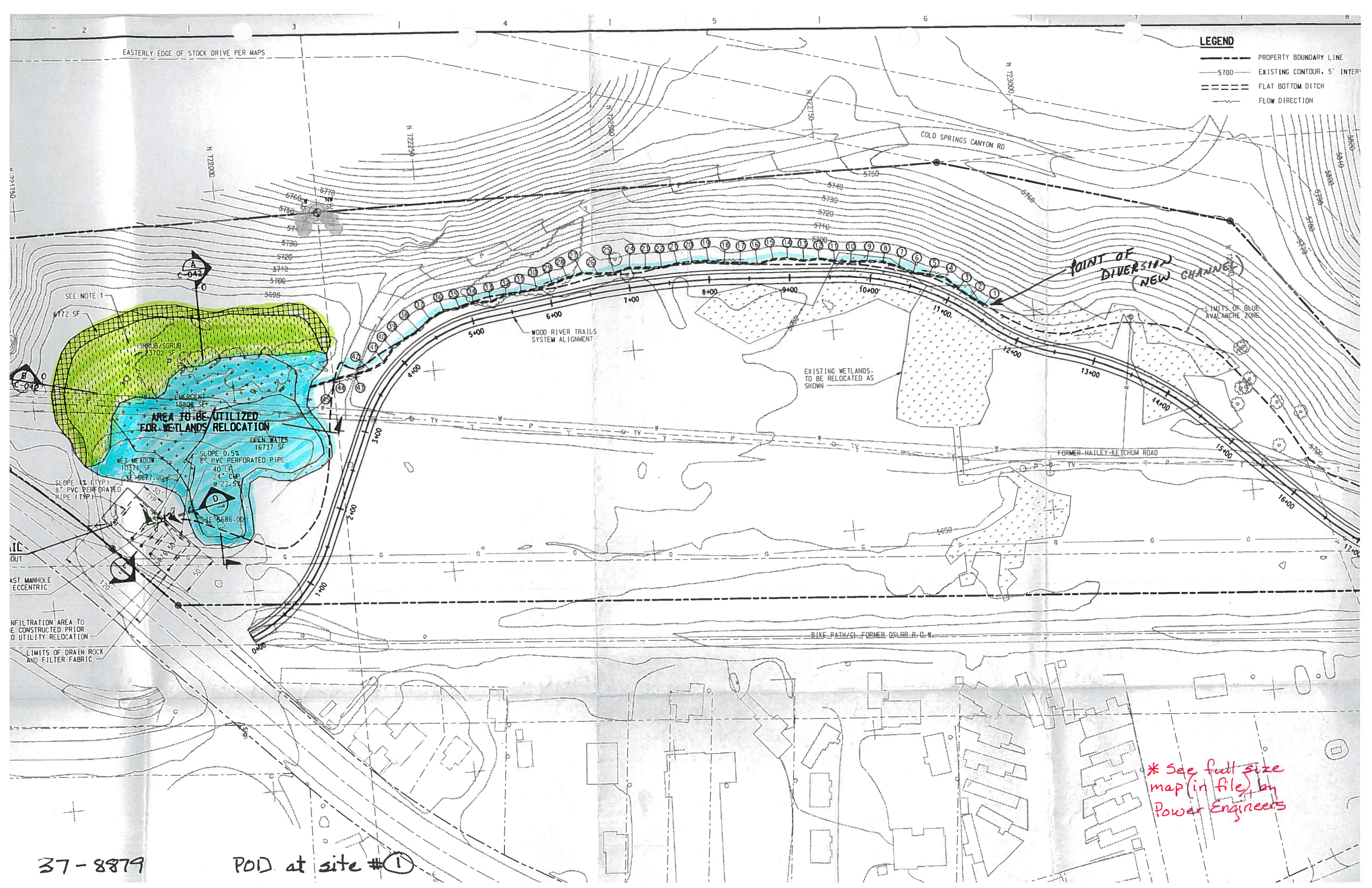
same
4 1/2' average depth

SESE

buried 8" PVC
perforated
polyethylene
pipe
with 1/2" holes

LEGEND

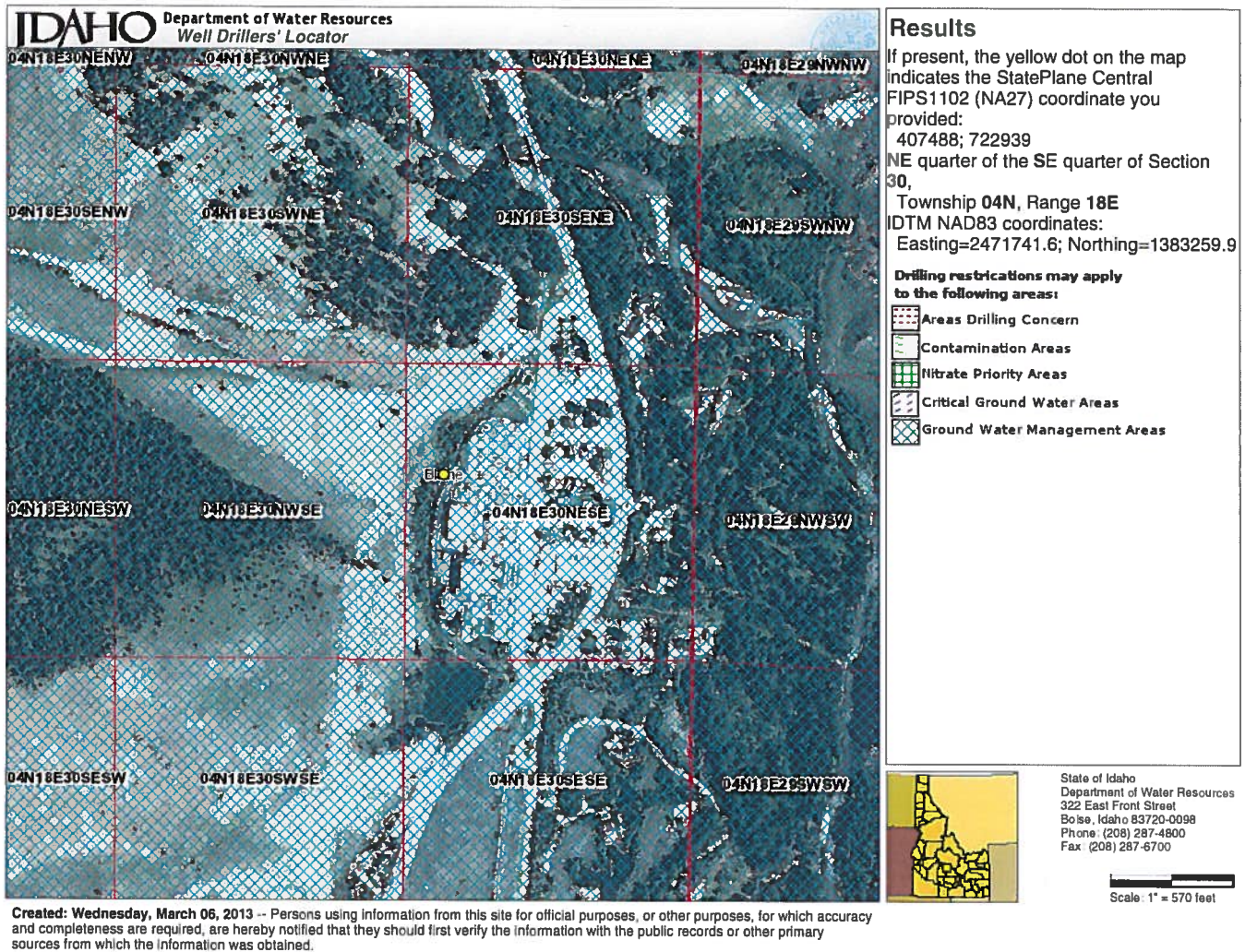
- PROPERTY BOUNDARY LINE
- 5700 --- EXISTING CONTOUR, 5' INTERVAL
- === FLAT BOTTOM DITCH
- FLOW DIRECTION



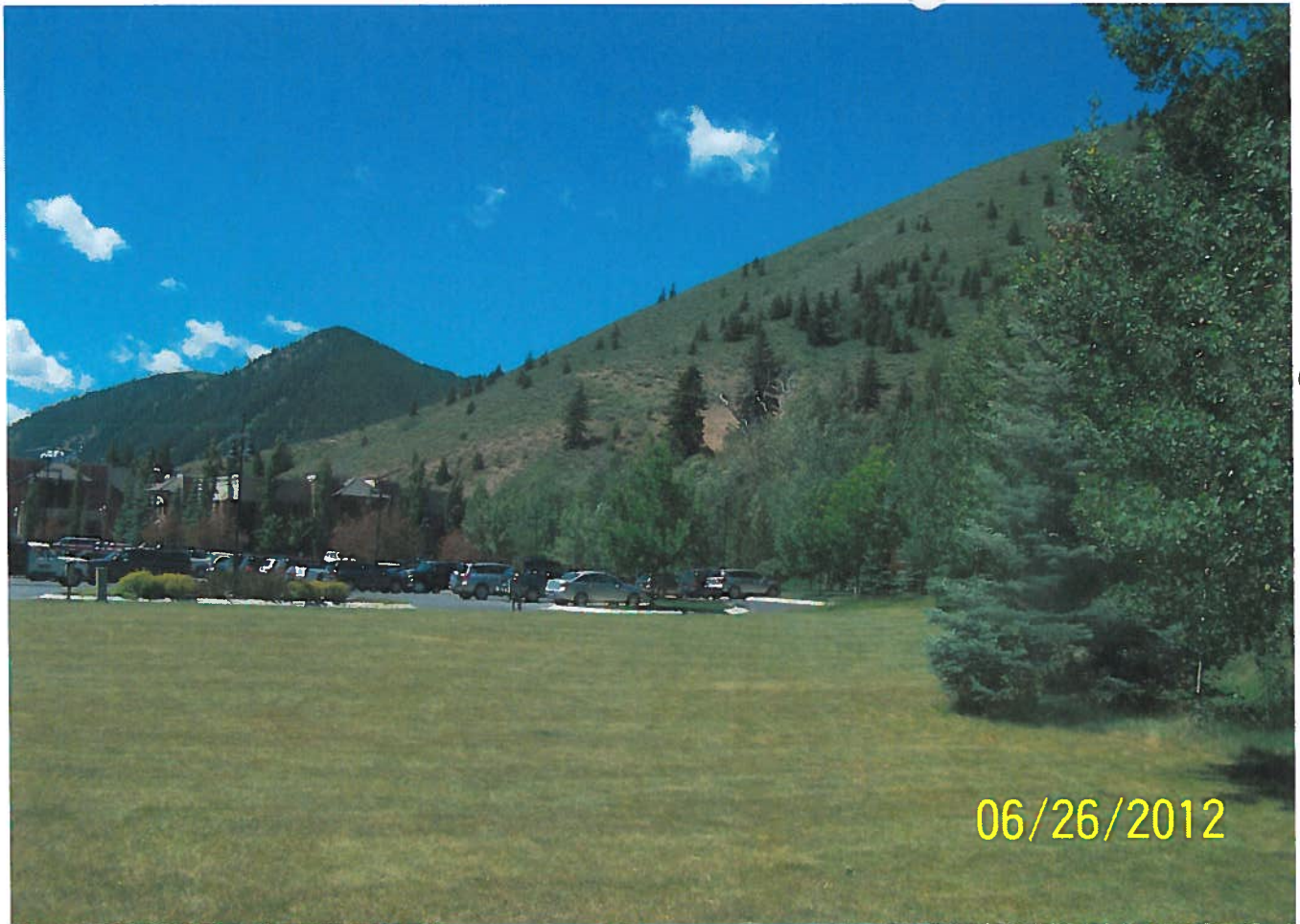
* See full size map (in file) by Power Engineers

37-8879

POD at site # ①



POD Confirmation



POU
wildlife

06/26/2012



Spring
source
for
the
unnamed
stream

06/26/2012

37-8879 St. Luke's Med. Center

S. Hemeriksen



POU
wildlife
with
dirt
channel
that
unnamed
stream
follows
along
the
green-
belt,
to the
wildlife
storage
pond



27-9979 St. Louis Medical Center

S. Hemmerman



Pan
wildlife

06/26/2012



St.
Lucas
Medic
Center
Ketchu

06/26/2012

27-9979 St. Lucas Medical Center

S. Hansen



rectangular
Weir
27" L
2 1/2-3" H



POU
wildlife
storage

37-8879 St. Lukes Medical Center

S. Hernandez



POU
wildlife
storage
&
wildlife



0.5
acre
pond,
8' center
with,
4 1/2'
average
depth