

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-10603

Exam Date: 9/29/2015

1. Current Owner: JAMES DAY
PO BOX 1026
HAYDEN ID 83835
(208)699-3466

And/Or

ROSE E DAY
PO BOX 1026
HAYDEN ID 83835
(208)699-3466

2. Accompanied by: James Day

3. SOURCE

GROUND WATER
SPRING
UNNAMED STREAM

TRIBUTARY

UNNAMED STREAM
SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

SPRING SW1/4SE1/4NE1/4 Sec. 9, Twp 52N, Rge 03W, B.M. KOOTENAI County
SPRING SW1/4SE1/4NE1/4 Sec. 9, Twp 52N, Rge 03W, B.M. KOOTENAI County
GROUND WATER SE1/4NE1/4 Sec. 9, Twp 52N, Rge 03W, B.M. KOOTENAI County
UNNAMED STREAM SW1/4SE1/4NE1/4 Sec. 9, Twp 52N, Rge 03W, B.M. KOOTENAI County
UNNAMED STREAM SW1/4SE1/4NE1/4 Sec. 9, Twp 52N, Rge 03W, B.M. KOOTENAI County

Method of Determination: GPS and maps. Location of well at 47° 52.105, 116° 42.107 (A0015452)

2.

PLACE OF USE: FIRE PROTECTION FROM STORAGE

[illegible]

PLACE OF USE: FIRE PROTECTION

[illegible]

PLACE OF USE: FIRE PROTECTION STORAGE

[illegible]

PLACE OF USE: WILDLIFE STORAGE

[illegible]

PLACE OF USE: RECREATION STORAGE

[illegible]

PLACE OF USE: IRRIGATION

[illegible]

Total Acres: 0.6

PLACE OF USE: IRRIGATION STORAGE

[illegible]

PLACE OF USE: IRRIGATION FROM STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
52N	03W	9	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
						.6													.6

Total Acres: 0.6

PLACE OF USE: AESTHETIC STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
52N	03W	9	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
						X													

DIVERSION TO STORAGE same as AESTHETIC STORAGE

Method of Determination: GPS and maps.

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>
D0041450	FRANKLIN	2			

*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>
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5 GALLON BUCKET TEST

2. Measurements: 5 GAL IN 9 SECONDS : $5 \text{ GAL} / 9 \text{ SEC} = 0.5555 \times 60 \text{ SEC} = 33.33 \text{ GPM}$

E. FLOW CALCULATIONS

Measured Method: N/A

☐ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 0.6 \text{ AC} \times 3 \text{ AF} = 1.8 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 246 \times 1.9835 = 14.6 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{D.R.} = 1.8 \text{ AF}$$

2. Volume Calculations for Other Uses: SEE ATTACHED POND ANALYSIS SHEET**G. NARRATIVE/REMARKS/COMMENTS**

FIELD EXAM SHOWED APPLICANT HAD 2 PONDS. POND NUMBER 2 WAS FED BY A UNNAMED STREAM AND FROM A WELL D0041450. POND 1 WAS FED BY UNNAMED STREAM, SPRING THAT WAS LOCATED IN POND, AND SPRING THAT WAS NEXT TO POND THAT WAS UNMEASURABLE BECUASE IT WAS JUST WET GROUND THAT SEEPED DOWN INTO POND. APPLICANT USED WELL FOR DIVERSION TO STORAGE, IRRIGATION AND FIRE PROTECTION. 5 GALLON BUCKET TEST WAS PERFORMED AND WELL PRODUCED 33.3 GPM OR 0.07 CFS. APPLICANT HAD PUMP IN POND 2 THAT WAS USED TO SUPPLY WATER FOR FIRE PROTECTION AND IRRIGATION. APPLICANT WAS ONLY IRRIGATING LAND AROUND HOME WHICH WAS 0.6 ACRES.

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>
FIRE PROTECTION FROM STORAGE	01/01 to 12/31		0.90 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.070 CFS	
FIRE PROTECTION	01/01 to 12/31	0.070 CFS	
FIRE PROTECTION STORAGE	01/01 to 12/31		2.00 AF
WILDLIFE STORAGE	01/01 to 12/31		2.00 AF
RECREATION STORAGE	01/01 to 12/31		2.00 AF
IRRIGATION	03/15 to 11/15	0.030 CFS	1.80 AF
IRRIGATION STORAGE	01/01 to 12/31		3.30 AF
IRRIGATION FROM STORAGE	03/15 to 11/15		1.80 AF
AESTHETIC STORAGE	01/01 to 12/31		2.00 AF
<u>Totals:</u>		0.070 CFS	3.80 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 ☐ Other

I. AUTHENTICATION

Field Examiner's Name Adam Engel Date 2-5-16

Reviewer Keith E. Frankel Date 2-12-2016

**WATER RIGHT 95-10603
POND ANALYSIS SHEET**

POND 1: 0.05 AC X 6 FEET DEEP = 0.3 AF
POND 2: 0.09 AC X 10 FEET DEEP = 0.9 AF
EVAPORATION POND 1: 136 GPD X 365 DAYS / 325,850 GAL/AF = 0.2 AF
EVAPORATION POND 2: 244 GPD X 365 DAYS / 325,850 GAL/AF = 0.3 AF
SEEPAGE: POND 1 HAS NO SEEPAGE BECAUSE OF SPRING IN BOTTOM OF POND
SEEPAGE POND 2: 293 GPD X 365 DAYS / 325,850 GAL/AF = 0.3 AF
IRRIGATION: 0.6 ACRES X 3 AF = 1.8 AF

0.07 CFS DIVERSION TO STORAGE IN POND 2 ONLY FROM WELL

0.07 CFS FIRE PROTECTION (FROM WELL)

2.0 AF	FIRE PROTECTION STORAGE (BOTH PONDS)	A) POND SIZES	1.2 AF
		B) EVAPORATION	0.5 AF
		C) SEEPAGE	0.3 AF
	TOTAL		2.0 AF

0.9 AF FIRE PROTECTION FROM STORAGE (POND 2 HAS SUBMERSIBLE PUMP)

0.03 CFS IRRIGATION FROM WELL

3.3 AF	IRRIGATION STORAGE (POND 2 ONLY)	A) POND SIZE	0.9 AF
		B) EVAPORATION	0.3 AF
		C) SEEPAGE	0.3 AF
		D) IRRIGATION	1.8 AF
	TOTAL		3.3 AF

1.8 AF IRRIGATION FROM STORAGE (POND 2)

2.0 AF	WILDLIFE STORAGE (BOTH PONDS)	A) POND SIZES	1.2 AF
		B) EVAPORATION	0.5 AF
		C) SEEPAGE	0.3 AF
	TOTAL		2.0 AF

2.0 AF	RECREATION STORAGE (BOTH PONDS)	A) POND SIZES	1.2 AF
		B) EVAPORATION	0.5 AF
		C) SEEPAGE	0.3 AF
	TOTAL		2.0 AF

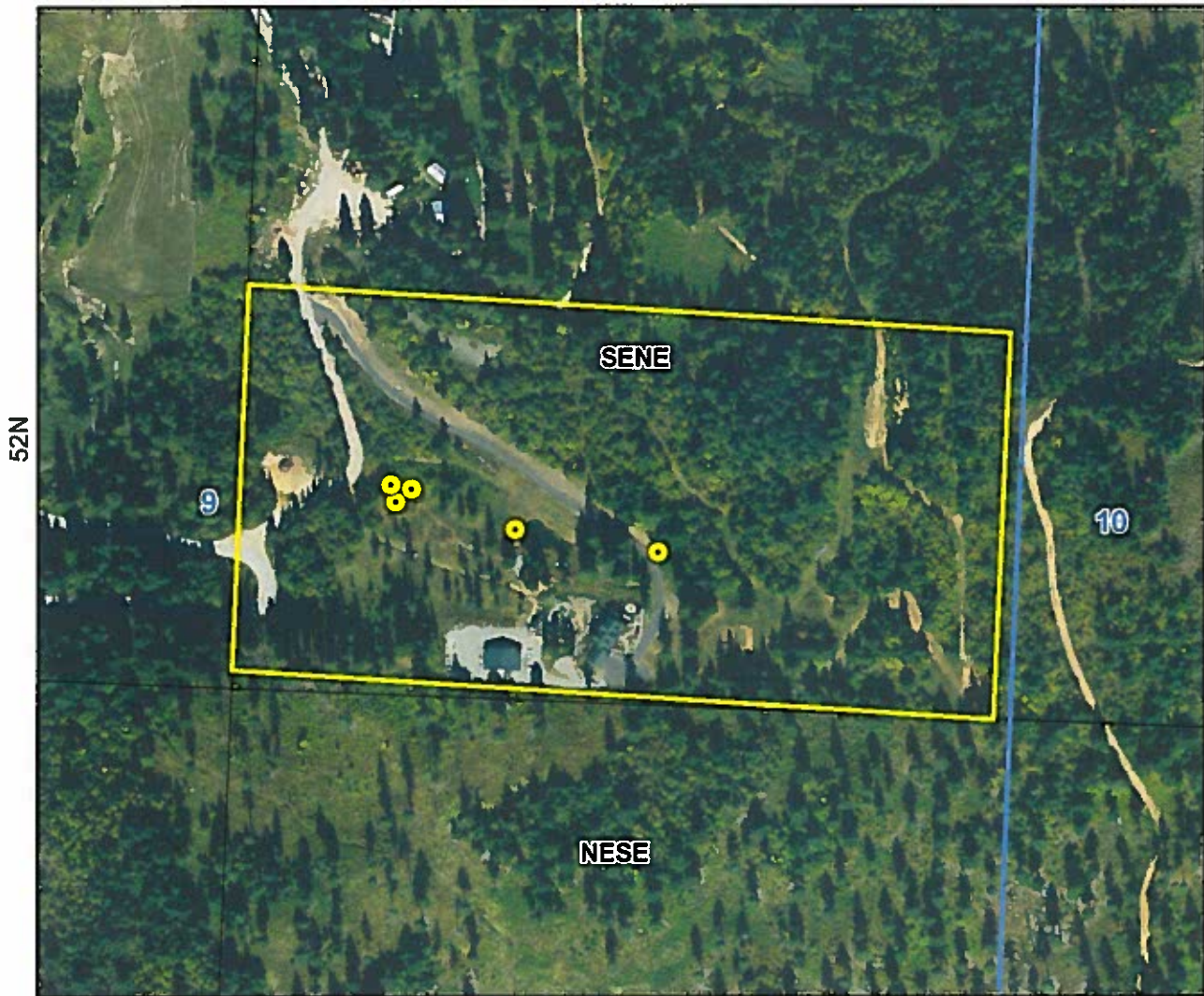
2.0 AF	AESTHETIC STORAGE (BOTH PONDS)	A) POND SIZES	1.2 AF
		B) EVAPORATION	0.5 AF
		C) SEEPAGE	0.3 AF
	TOTAL		2.0 AF

3.8 AF OF TOTAL STORAGE (IRRIGATION STORAGE 3.3 AF + POND 1 STORAGE AND EVAPORATION 0.5 AF)

State of Idaho
Department of Water Resources
Water Right License
95-10603

*Fire Protection and Fire Protection
From Storage*

03W



0 0.0375 0.075 0.15 Miles

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



State of Idaho
Department of Water Resources
Water Right License
95-10603

*Fire Protection storage, wildlife storage,
Recreation storage, and Aesthetic storage*

03W



0 0.035 0.07 0.14 Miles

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



State of Idaho
Department of Water Resources
Water Right License
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*Irrigation and Irrigation from
Storage*

03W



0 0.035 0.07 0.14 Miles

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



State of Idaho
Department of Water Resources
Water Right License
95-10603
Irrigation Storage

03W



0 0.035 0.07 0.14 Miles

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



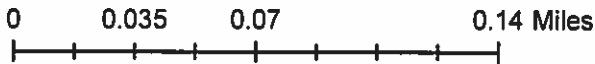
State of Idaho
Department of Water Resources
Water Right License

95-10603

Storage

03W

52N



-  Place Of Use Boundary
-  Townships
-  PLS Sections



IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

Office Use Only			
Inspected by	Twp	Rge	Sec
Lat	1/4	1/4	1/4
Long			

1. DRILLING PERMIT NO. 839450
Other IDWR No. D 0041450

2. OWNER:
Name James Day
Address 2221 River Plaza Dr. Apt 336
City Sacramento State CA Zip 95833

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location

W		E	Twp. <u>52</u> North ☒ or South ☐
			Rge. <u>3</u> East ☐ or West ☒
			Sec. <u>9</u> 1/4 SE 1/4 NE 1/4

Gov't lot _____ County Kootenai
Lat: _____ Long: _____
Address of Well Site 24102 Derting Road
City Hayden
(Give at least name of road + Distance to Road or Landmark)
Lt. _____ Blk. _____ Sub. Name _____

4. USE:
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other _____
5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD
☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

SEAL/FILTER PACK		AMOUNT		METHOD
Material	From	To	Sacks or Pounds	
Bentonite	0	20	350#	Dry Granular

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 76'
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:								
Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6"	+2	76	250	Steel	☒	☐	☒	☐
4"	7	207	S 40	PVC	☐	☒	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____ Length of Tailpipe _____
9. PERFORATIONS/SCREENS
☒ Perforations Method saw cut 1/8" x 6" certa-lok
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
180	200	1/8"	48	4"	PVC	☐	☒

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
56' ft. below ground Artesian Pressure _____ lb
Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☐ Pump	☐ Bailor	☐ Air	☐ Flowing Artesian
Yield gal/min	Drawdown	Pumping Level	Time
35-40 gpm			4 hr

Water Temp. _____ Bottom hole temp. _____
Water Quality test or comments: Cold and Clear
Depth first Water Encountered 86'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water	Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temp.	Y	N
	10"	0	20	Clay, brown		
	8"	20	46	Clay, brown		
		46	48	Shale, decomposed, soft		
		48	54	Clay, brown		
		54	57	Shale, decomposed, soft, tan		
		57	69	Clay, brown		
		69	76	Shale, decomposed, soft, grey		
	6"	76	86	Shale, medium, grey		
		86	89	Shale, med, grey, broken, 1/2 gpm		
		89	112	Shale, medium, grey		
		112	118	Shale, broken, brown, soft		
		118	148	Shale, medium, dark grey		
				(Burke fin)		
		148	155	Shale, medium, very broken 5 gpm		
		155	178	Shale, medium, grey		
		178	186	Shale, very broken, grey with brown silt 10 gpm		
		186	212	Shale, dark grey		
		212	221	Shale, very broken, 25 gpm		
		221	240	Shale, dark grey		

NOTE: Do not set pump below 207'

RECEIVED
MAY 17 2006
IDWR/North

Completed Depth: 240 (Measurable)
Date: Started 05/18/06 Completed 05/19/06

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name McCarty Drilling & Pump Inc Firm No. 386
Firm Official [Signature] Date _____
Supervisor or Operator _____ Date 5-15-06
(Sign once if Firm Official & Operator)

Date: 5/15/2006 Time: 3:29:28 PM

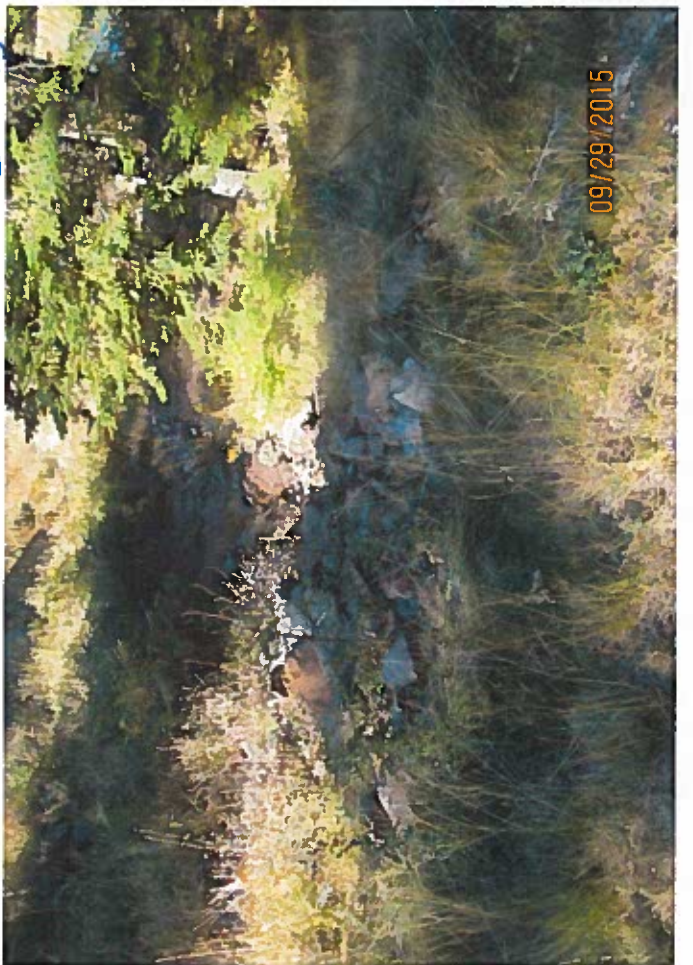
SCANNED
MAY 14 2009

52 N 3 W 9

Pond 2

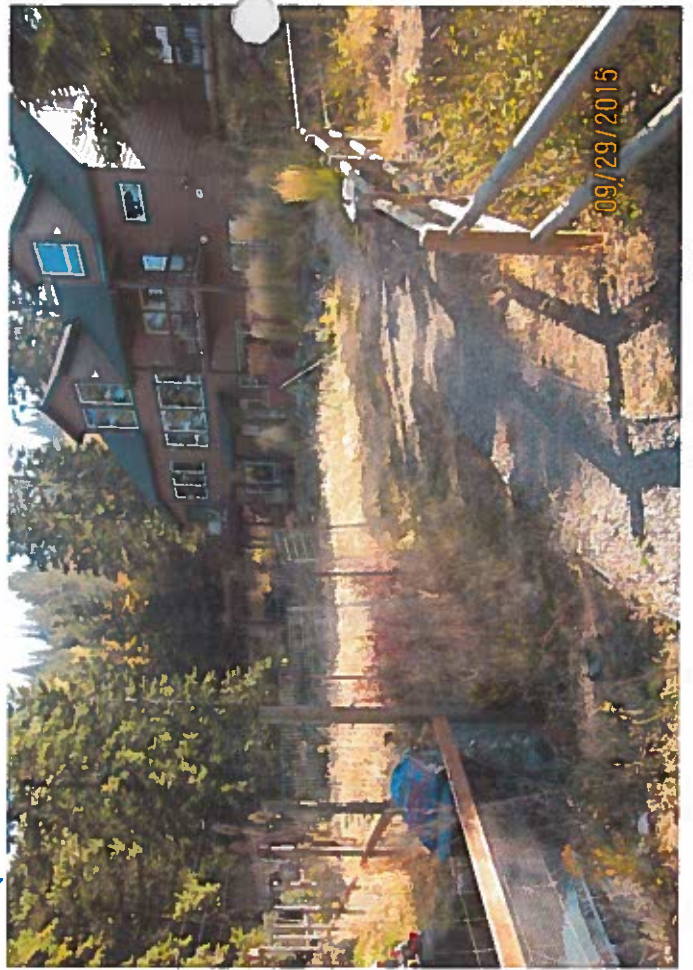


95-10603



Irrigation

95-10603



Irrigation

95-10603



Pond 1



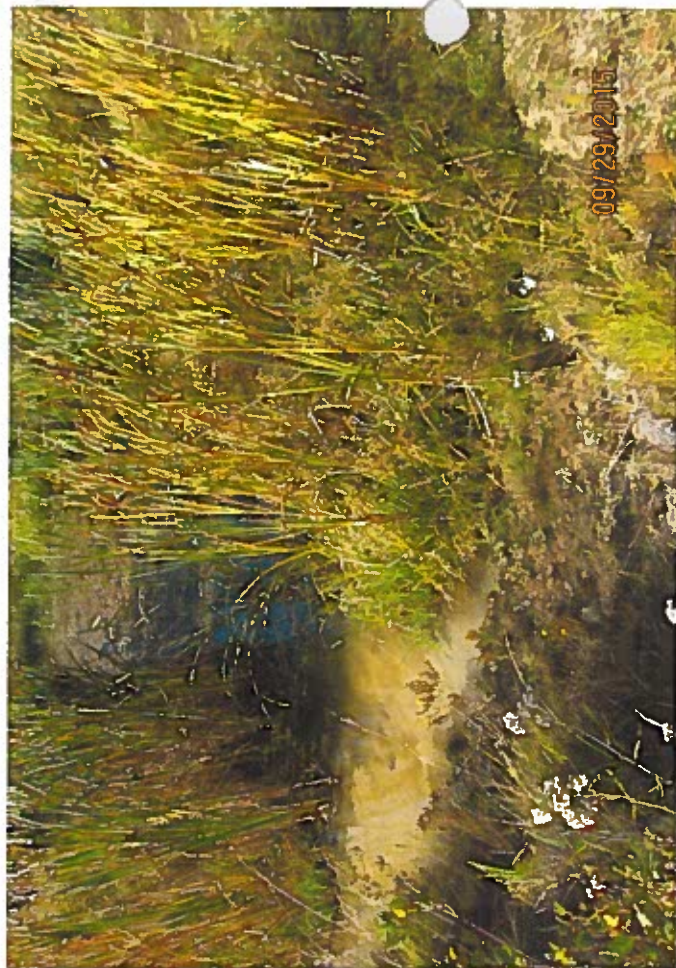
Pump in pond 2



Pond 2



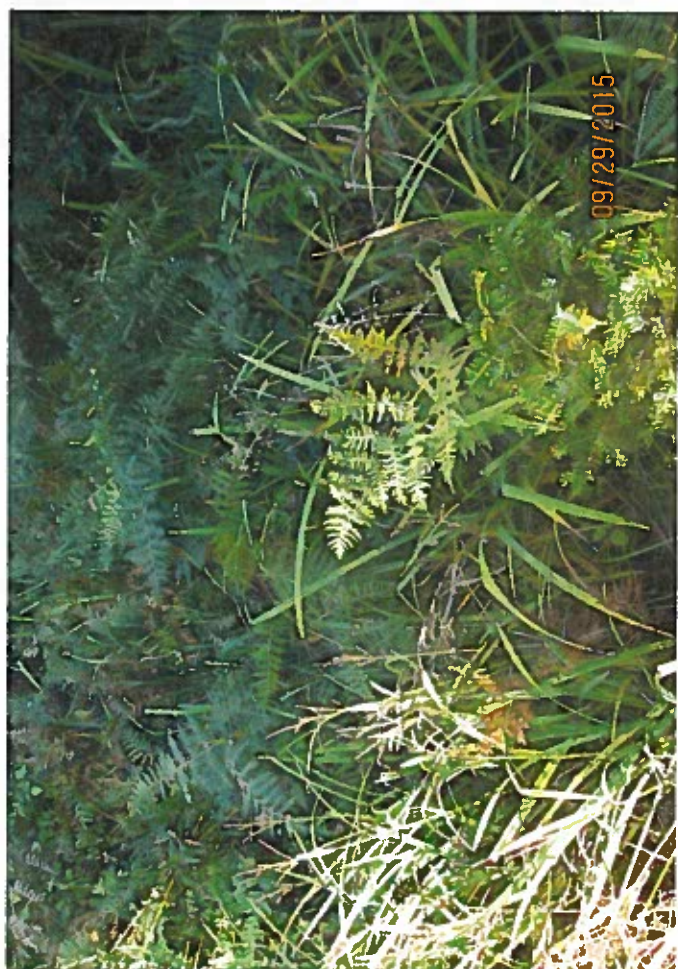
95-10603



Pond 1



Spring at Pond 1



Spring at Pond 1

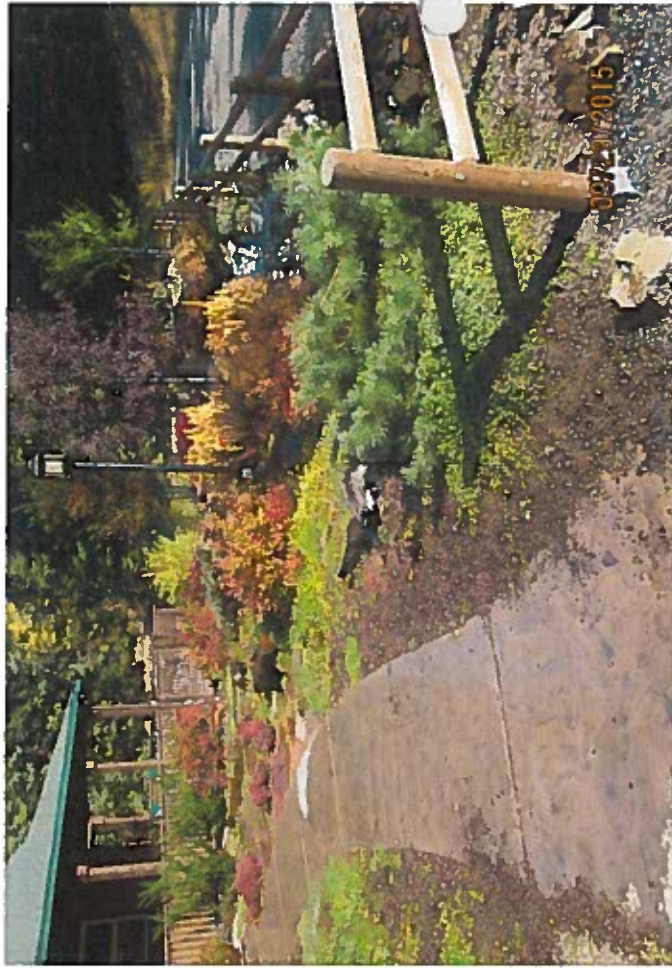


Pond 1



Pond 1

95-10603



Pump in Well

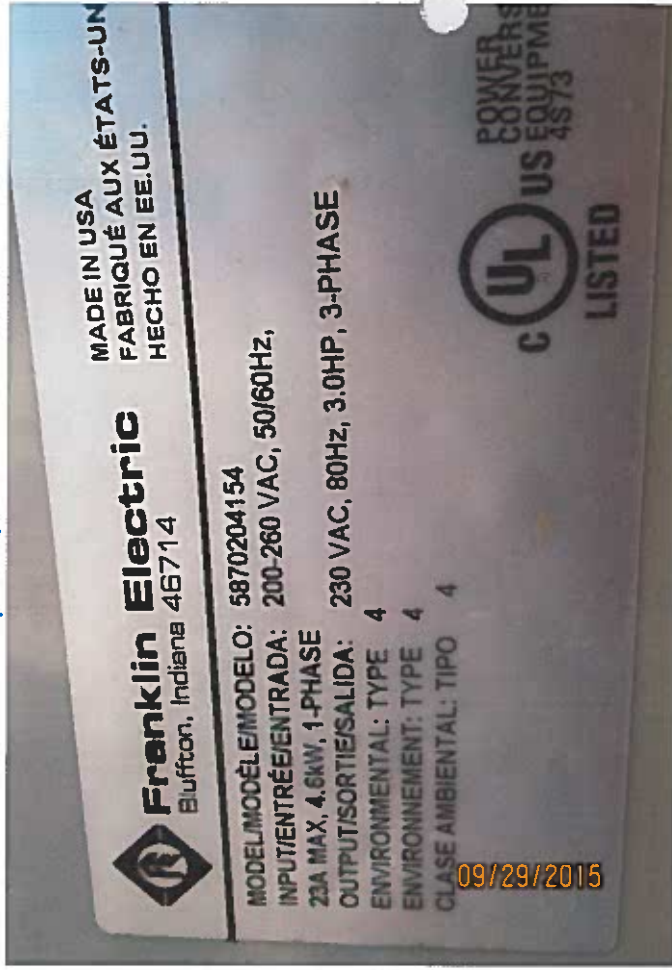
Pump in pond



Irrigation



95-10603



MADE IN USA
FABRIQUÉ AUX ÉTATS-UN
HECHO EN E.E.U.U.

Franklin Electric
Bluffton, Indiana 46714

MODEL/MODELE/MODELO: 5870204154
INPUT/ENTRÉE/ENTRADA: 200-260 VAC, 50/60Hz,
23A MAX, 4.6kW, 1-PHASE
OUTPUT/SORTIE/SALIDA: 230 VAC, 80Hz, 3.0HP, 3-PHASE
ENVIRONMENTAL: TYPE 4
ENVIRONNEMENT: TYPE 4
CLASE AMBIENTAL: TIPO 4

09/29/2015

UL LISTED
POWER
CONVERSION
EQUIPMENT
4873



Fire Protection Line